

Metropolitan
Solutions

METROPOLITAN SOLUTIONS MAGAZINE

FACING GLOBAL CHALLENGES

BERLIN 20 – 22 MAY 2015

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“We are advocates for the city of the future”



Dr. Johanna Wanka
Federal Minister of Education and
Research

Science and innovation have changed Germany’s cities for the better: Factory smokestacks no longer belch out industrial pollution, while old factories are being converted to office space where high-tech startups are busy developing new technologies. Cars with electric engines now roll through the streets of our cities, reducing the amount of CO2 emissions. Meanwhile, urban gardens are being planted in parks, providing city dwellers with fresh fruit and vegetables.

Science and research have made these positive changes possible. Cities are once again the preferred residential venue in Germany. Currently three out of every four German citizens live in cities, and this percentage continues to rise. The daily job of providing cities with sufficient energy, nutrition and living space while at the same time protecting the environment and climate and conserving our scarce natural resources remains a challenge across the globe.

The Federal Ministry of Education and Research is dedicated to promoting sustainable urban development models in Germany and abroad. Examples of the latter include a waste recycling project in Ethiopia, a project to develop sustainable mobility concepts for the greater Hefei region in China and a project to treat wastewater in the Peruvian capital, Lima.

We aim to leverage Metropolitan Solutions in order to foster dialog on aspects and issues relating to international cooperation. This exhibition is a global idea-giver for innovative urban development, and I was happy to assume patronage of the event.

We are keen on engaging in dialog with you. We want to learn what it is you expect from the research community as a contribution to the solutions your cities need. We can thus together use the exhibition to create fertile ground for future international cooperation in the field of urban development. The resulting development will be sustainable, and show the way forward as we seek to master the global challenges presented by climate change and the demographic shift.

The more our cities focus on the real-world needs of their residents and collaborate with scientists and researchers to find fresh approaches, the better they will be able to meet these challenges. It is in this spirit that we are advocates for the city of the future. This is happening against the backdrop of the Year of Science – a year in which center stage is taken by science and its potential to beneficially impact our everyday lives. Metropolitan Solutions serves as a valuable partner in the pursuit of our common goals.

“An opportunity to get the big picture”



Dr. Gerd Landsberg
Managing Director of the German
Association of Towns and
Municipalities (DStGB, Deutscher Städte-
und Gemeindebund)

Whether it involves integrated mobility concepts, the reduction of CO2 emissions, improved building efficiency, sustainable district development or adaptation to climate change – cities and municipalities require clever, affordable solutions to tackle the future tasks awaiting them.

Developing intelligent solutions to meet these upcoming challenges is the focus of the Metropolitan Solutions congress and exhibition taking place from 20 to 22 May 2015 in Berlin. This event is devoted to exploring the many facets of sustainable and intelligent urban development.

Together with the German Association of Cities (DST) and the German Association of Municipal Enterprises (VKU), the German Association of Towns and Municipalities (DStGB) has gladly assumed patronage of the Metropolitan Solutions conference exhibition. The innovative concept of presenting 20 thematically related conferences and workshops – put on by independent organizations – in combination with an exhibition offers municipal representatives a multidisciplinary wealth of information.

Despite any differences from nation to nation, it always proves useful to have municipalities from many different countries come together – including with representatives from research and industry. Metropolitan Solutions provides all of us with the opportunity to “get the big picture”.

For its debut edition in Berlin, we wish Metropolitan Solutions the best of success – for attendees and the event’s organizers alike!

“Networking and sharing experiences”



Dr. Stephan Articus
Executive Director of German Association
of Cities (DST, Deutscher Städtetag)

Now in its fifth year of existence, the “Metropolitan Solutions – Technology and Services for Cities” conference exhibition has moved to Berlin, where it will be in direct proximity to German federal decision-makers. The German Association of Cities welcomes this move to the German capital city, since the future of our cities is one of the key topics engaging government at all levels.

The German Association of Cities (DST) has supported Metropolitan Solutions from the event’s inception, back when it was still part of HANNOVER MESSE. The exhibition provides a unique platform for information sharing among cities and municipal regions worldwide. Metropolitan Solutions focuses on the key themes of urbanization at a national and international level and facilitates their presentation and discussion in a compact format. Although European cities face a different set of challenges than the fast-growing mega-cities of Asia or South America, we often require the same intelligent, integrated solutions to make our cities in Germany and Europe more energy-efficient, eco-friendly and sustainable.

Political organizations, municipal networks, non-governmental organizations (NGOs) and publishers are staging a total of 20 thematically intertwined conferences and workshops at Metropolitan Solutions, while over 100 providers will showcase their technical solution approaches and innovative services. Metropolitan Solutions provides participants with the opportunity to learn from one another, share information and experiences and network with other professionals.

The German Association of Cities wishes all attendees at Metropolitan Solutions an exciting and informative time at the Berlin CityCube. And we wish the event’s organizers every success!

“Engaging in in-depth, interdisciplinary dialogue”



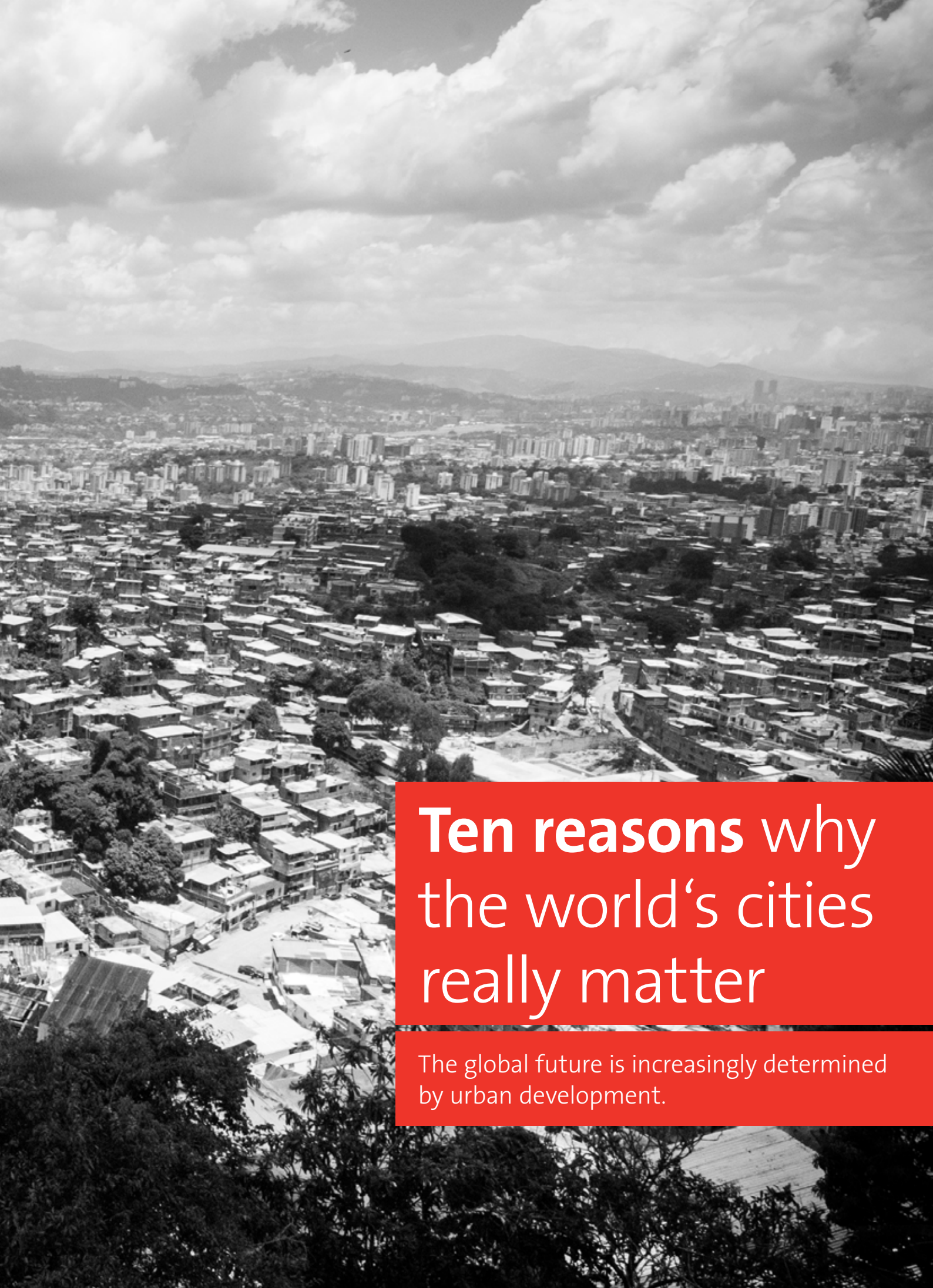
Hans-Joachim Reck
Managing Director of German Association
of Municipal Enterprises (VKU, Verband
Kommunaler Unternehmen)

The German Association of Municipal Enterprises (VKU) represents the interests of its 1,430 member enterprises providing utility and waste disposal services to Germany's municipalities. The growing strain on urban infrastructure and its operators as well as the increasing integration of various individual contributors make managing everything an increasingly daunting challenge. It is therefore essential that all the players involved engage in in-depth, interdisciplinary dialogue. As the leading association for Germany's municipal economy, VKU has assumed patronage of the Metropolitan Solutions conference exhibition jointly with the German Association of Cities (DST) and the German Association of Towns and Municipalities, in view of the fact that the event promotes mission-critical networking in a cross-sector, international context.

Metropolitan Solutions will offer presentations and discussion of leading-edge technical solutions, innovative financing concepts and a wide range of information offerings for the intelligent, efficient development of urban infrastructures. The event will be enriched by the exploration and discussion of European perspectives, including the EU conference titled “European Innovation Partnership on Smart Cities and Communities – General Assembly” (EIP).

Featuring a wide selection of conferences, workshops, matchmaking opportunities, guided tours of the exhibition and excursions to best-practice cases in Berlin, Metropolitan Solutions will present an exciting and varied range of offerings. Municipal enterprises have a great deal to contribute to the discussion and, as a result, a visit to the event promises significant added value.





Ten reasons why the world's cities really matter

The global future is increasingly determined
by urban development.

Ten reasons why urban development matters

Extract from: “Managing Urbanisation.Towards sustainable Cities” Federal Ministry for Economic Cooperation and Development, 2014 (www.bmz.de)

1 Urbanisation: the world has become a city

More than 50% of the world’s population now lives in cities and that figure is set to rise to 75% by 2050¹. High urbanisation rates in Asia and Africa² reflect the fact that the focus of global urbanisation has long since shifted to developing countries and emerging economies. Twice as many people 2.3 billion — live in urban agglomerations in those countries as live in cities in industrialised nations. In 2030 that number will rise to four times as many — 3.9 billion; approximately 60% of those will be below the age of 18³. And so the future of developing countries is increasingly being determined by urbanisation and a population structure that has a disproportionate number of young people. Established mega regions like Sao Paulo or Mumbai, as well as small and medium-sized cities will become the key living and economic spaces in this urban millennium.

2 Prosperity: productive cities lay the foundation for economic development

Up to 80% of gross domestic product is generated in cities⁴. Since cities provide access to labour and information, private initiatives and available infrastructure, mobility and institutions, they create a macroeconomic enabling environment for sustainable economic growth. In a globalised economy, cities represent hubs where products, services and information can be transferred and made available. Because cities

are the engines driving economic growth, they provide key impetus for the national and global economy.

3 Successful poverty reduction: international commitments are implemented with cities

Cities hold great potential for contributing in key ways to implementing international agreements such as the Millennium Development Goals (MDGs). It is in cities that the relevant strategies are developed and where great efficiency and impact is achieved through the coordinated use of limited financial resources. In view of, for example, the MDG Target 7.D (“a significant improvement in the lives of at least 100 million slum dwellers”), it is in cities, more than anywhere else, that people have the potential to get out of poverty. Urban poverty and slums are, however, a growing problem in developing countries that needs to be addressed by means of integrated approaches at local level. Pro-poor programmes in cities provide better and legally protected living conditions, education and training, jobs and access to social services.

4 Partners: cities are strong international actors

Reforms such as state modernisation and decentralisation strengthen the autonomy and performance of urban administrations. Because scopes for action are broadening and powers are expanding at municipal level, cities are increasingly being regarded by international development agencies, banks and private enterprise as autonomous, equal actors. Cities are seizing these opportunities to engage in direct partnerships - including among themselves — to drive forward their development. Hence, they are gaining more and more weight in international politics. It is rapidly developing medium—sized cities in particular that need to build capacities and infrastructure in this context in order to be able to meet the new challenges they are facing and the new roles they have taken on.

1 UN HABITAT: *State of the World’s Cities 2010/2011*. Nairobi, United Nations Human Settlements Programme 2007, p. 12

2 United Nations: *World Urbanization Prospects: The 2007 Revision*. Population Database. New York 2008.

3 UN-PA *State of World Population 2007*. Internet: www.un-fpa.org/swp/2007/english/chapter_2/changing_demographics.html. 09. Aug. 2011.

4 UN EP: *Towards a Green Economy. Pathways to Sustainable Development and Poverty Eradication, Cities - Investing in energy and resource efficiency*, p. 457, Nairobi.

“Cities are places of change and innovation”

The 21st Century can be said to be the century of cities. More than half the global population already lives in cities — in 2050 it will most likely be more than two thirds. Cities and metropolitan areas have meanwhile become the main habitat of the human race. Cities are the dynamic growth centers of our time, places where the opportunities and challenges of global sustainable development all come together.

Cities are places of change and innovation, bringing together different actors and effectively shaping sustainable development. At the same time, it is becoming more and more difficult to make cities a good environment to live in. High air pollution, deficiencies in water and energy supply, and in the disposal of waste and wastewater, chronically congested roads and lack of public transport, growing social inequality - the list of challenges that cities face just goes on and on.

It is obvious that here we must pin our hopes above all on self-help and ownership, in order to realize sustainable solutions.

The central concern of German development policy in the field of urban development is, therefore, to mobilize all actors and to set in motion

“It is about making cities into attractive, productive and innovative working and living spaces for all their residents.”

processes which will lead to the sustainable and inclusive development of cities and urban areas.

On the one hand this is about finding intelligent solutions for the problems of increasing urbanization and making



Dr. Gerd Müller, Federal Minister for Economic Cooperation and Development

cities into attractive, productive and innovative working and living spaces for all their residents. That means, in particular, addressing urban poverty and social inequality, and it means making sustainable use of technological knowledge and of available resources in the water, energy and food sectors, and facilitating environmentally and climate-friendly urban development.

On the other hand, it is important to make use of the social, economic and ecological interactions between urban and rural areas for the sake of sustainable development. The consequences of urbanization are not only evident in the city - urban development also influences the development of rural areas to a large extent and vice versa.

5 Climate change and biodiversity: cities have a impact on ecosystems

Cities are currently responsible for producing 70% of greenhouse gases and share the burden of responsibility for global climate change⁵. They are thus important partners and actors in international climate policy and are increasingly leading the way when it comes to energy-efficient infrastructure planning, for instance. At the same time, on account of their population density, building stock and infrastructure, cities are directly exposed to the risks associated with climate change, for example typhoons in coastal regions, heat waves and landslides. Extreme weather events and environmental problems in particular impact on the poor population on account of their often precarious housing situation. Cities have a key, sometimes negative, impact on ecosystems even beyond their city boundaries. At the same time they are dependent on ecosystem services and functions, for instance safe drinking water. Where ecosystems are intact it is easier to adapt to climate change; they also represent important recreational areas. Urban development thus increasingly needs to take the preservation of biodiversity into account in order that important ecosystem services and functions can be guaranteed in the long term.

6 Equal opportunities: promoting a socially inclusive city

Urban environments foster personal development in a way that for many is linked to the hope of better living conditions and social mobility. Cities are places where social change takes place, where the young and women are more easily able to develop their full potential, given that their political and social participation and individual scope for decision-making are often limited on account of traditional decision-making mechanisms. Cities come to the fore because they provide new models of what constitutes a socially inclusive city and have special programmes for women and youth. Marginal groups in particular are generally excluded from formal economic, social and political networks and have only limited chances of benefitting from the development opportunities that open up on account of economic growth in cities. Participation and po-

litical empowerment are thus key factors in an urban society when it comes to enhancing equality of opportunities and social inclusion. At the same time, citizen-friendly infrastructure development that improves mobility in urban transportation, for instance, facilitates interaction between different social groups and fosters social cohesion.

7 Safety: a safe city promotes development and democracy

Measures for the prevention of urban violence and crime promote social and economic stability. This is especially evident in those districts in which significant social and economic imbalances, lack of prospects, and violence and crime have become firmly entrenched. Private and public investments in particular steer clear of those districts in which public safety cannot be guaranteed. Safety in cities is a key concern of development policy when it comes to underpinning the successes of ongoing development efforts to create socially inclusive cities worth living in and establishing democratic structures and processes.

8 Governance: good governance becomes tangible in cities

Municipal governments take decisions that have a direct impact on the lives of city dwellers, ranging from land rights to choosing where to build schools and health stations. It is in cities that the state meets its citizens face to face, calling on civil society and private enterprise to actively have a say in political matters, to participate in decision-making processes and monitor services provided by municipal authorities. Civil society, private enterprise and politics therefore contribute to joint responsibility and create an environment in which cities take on more responsibility for democratic consensus.

9 Urbanity: cities are innovative catalysts for development

Cities provide a creative environment for social, economic, green and political innovations. They enable close and rapid exchange between all those involved — the precondition for developing viable strategies. This is where the application of local knowledge can be combined with concrete implementation to meet current challenges, for instance resource consumption. Cities use these synergies to benefit development,

⁵ The Worldwatch Institute: *State of the World. Our Urban Future*. New York (W.W. Norton & Company) 2007.



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they formulate integrated and economically viable solutions, and at the same time take steps to overcome the most diverse challenges. Cities are thus often forerunners of developments that later take root at national and international level.

10

Economic cooperation: demand is growing in cities

There is great demand for the private sector to support cities in meeting the challenges arising in regard to modernising the infrastructure and administration. Supplying the growing population and adapting to national and international standards calls for technical and management solutions ranging from new information and communication technologies (ICTs) to the energy-efficient modernisation of existing buildings. The private sector in Germany and its institutions, chambers of commerce, and industrial and professional associations are available as partners for cities in emerging economies and developing countries and can provide investments and know-how.



Download full brochure from www.bmz.de

Text: Michael Gruber und Dr Florian Wieneke, KfW

Climate change and urbanisation are two megatrends of our times: for the first time in the history of mankind, the majority of the population is living in cities. At the same time, anthropogenic global warming is increasing the frequency and severity of extreme weather events and slow-onset events. Both trends are closely associated with one another: on the one hand, cities contribute significantly to climate change. On the other hand, they are particularly vulnerable to its consequences: due to the high density of people and infrastructure assets, disasters can cause – within hours – particularly heavy loss and damage.

Cities as the “drivers” of climate change

According to recent surveys by the Intergovernmental Panel on Climate Change (IPCC) and the International Energy Agency (IEA), about 70% of global energy consumption and more than 70% of CO₂ emissions are already attributable to cities. Buildings and their use as well as transport systems have particularly high energy demands. Given the persistent urbanisation trend, in the future the increase in urban energy consumption will concentrate primarily on developing countries and emerging markets (DC/EM). Current projections show that a doubling of the urban population requires at least a threefold increase in the amount of urbanised land. Within just 30 years, cities will need as much additional space as has been covered with buildings in the history to date. If construction technologies do not change, manufacturing the required construction materials alone would cause 470 gt CO₂, i.e. 15 times the global CO₂ emissions in 2008. Furthermore, the largely sealed surface areas of cities create heat islands. The higher temperatures increase the energy consumption needed for cooling, while the waste heat from cooling systems generates more heat. The tendency towards higher average incomes and urban lifestyles implies that more resources and energy are consumed than in rural areas. Urban consumption patterns mostly lead to rising demand for transport and to more waste, with associated climate-damaging consequences.

Cities as the “victims” of climate change

However, cities are not only the drivers of climate change; they are also particularly heavily affected by it. They are vulnerable areas of high population density, concentrated infrastructure and economic centres that are increasingly impacted by the frequency and severity of extreme weather events (heat waves, storms, torrential rain) and the slow-onset events such as rising sea levels (floods, salt water intrusion). The impact is enormous. The 2011 freshwater flood in Bangkok with an amount of loss of almost USD 50



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billion, corresponding to about 10% of the national GDP, was the most expensive in history. In 2012, Hurricane Sandy showed how vulnerable even modern metropolises are. New York alone suffered 48 fatalities and direct economic damage in the amount of USD 68 billion. More than 300,000 houses were destroyed, while dozens of tunnels and metro stations were flooded, leading to massive losses in working time. 8.5 million people and numerous companies were affected by prolonged power outages. The New York Stock Exchange had to close for two full days, 12,000 flights were cancelled and 70% of the oil refineries on the East Coast had to cease production. The damage incurred in cities can set back any development progress by many years, especially in developing countries and emerging markets. SwissRe conducted an analysis of the world's 616 largest cities (about 1.7 billion people, 25% of the global population, 50% of global GDP) with regard to their vulnerability in

The Convergence of Two Megatrends...

Urbanisation contributes significantly to climate change. Cities are particularly vulnerable to its consequences.

the face of natural hazards; two thirds thereof are located in developing countries and emerging markets. Given the focus of urbanisation on coastal and delta regions, floods pose the greatest risk. Even if calculations are based on optimistic assumptions regarding sea-level rise for the years 2030-2070, the estimated cumulative cost amounts to up to USD 2,500 billion for the same period, unless appropriate mitigation measures are taken (Nature Climate Change 2013/3).

Infrastructure and construction must be climate-resilient
Uncontrolled urbanisation in particular leads to less robust buildings and infrastructure, often in high risk areas. The poorer part of the urban population especially has few options to improve its resilience against climate effects by, for instance, building weather-proof houses, roads and waste water systems, obtaining legal protection through

land titles, or making financial provisions by saving or taking out insurance, or to build up a new existence in safe regions.

Urban climate change mitigation is imperative to achieve a significant and sustainable reduction in global greenhouse gas emissions. In order to reduce emissions, cities need support in planning, designing and financing climate-friendly structures with energy-efficient buildings and transport systems, fresh air corridors and sufficient green spaces. Cities in developing countries and emerging markets are particularly poorly equipped for the effects of climate change. Urban adaptation to climate change is not only urgently needed for humanitarian reasons; it is also required to secure economic development in the long term. Here, infrastructure and construction measures need to be designed in such a way that they prove to be climate-resilient solutions.

PERL Cities - A vision for balanced urban development

A conversation with Dr. Norbert Kloppenburg, Board Member of KfW, on the bank's approach to achieve balanced urban development.



Dr. Norbert Kloppenburg,
Board member of KfW

Resilient and to be Livable – hence the term PERL. Access to sufficient finance, adequate infrastructure and good governance enable municipalities to develop and maintain the PERL characteristics.

It's a catchy term. You start with productivity. Do you believe it is the first characteristic cities have to develop?

Productivity is an important element without doubt. Economic and urban development have always been intertwined in human history. No country has ever reached middle-income status without significant urbanisation.

Even now?

Definitely, both go still hand in hand. Even though we see a decoupling of these two elements, for instance in some African countries. Productivity, including growth and job creation, is still the pre-condition for healthy cities. Cities must be able to attract business and allow them to flourish. Income from taxes and fees are the basis to finance and maintain the other three PERL characteristics.

The Asia-Pacific Weeks' Logo resembles a pearl. Dr. Kloppenburg, you use the term "PERL Cities" to define KfW's vision of sustainable urban development – what does that mean?

For us, PERL Cities describes our concept of sustainable urban development. We believe that sustainable cities are driven by four key factors: the need to be Productive, to be Efficient, to be

Efficiency seems to be a widely accepted but broad term. How would you further define this for municipal authorities aiming to make their cities more sustainable?

Efficiency includes a number of aspects. Firstly, a city should use its resources as efficient as possible. That includes natural resources such as water, land, air, but also its infrastructure, especially buildings, transport and lighting to name only a few. Cities today contribute to over 70 % of all CO₂ emissions and this percentage will continue to grow as the urban population continues to grow – almost 2.5 billion additional urban dwellers are expected by 2050.

Secondly, any measures to strengthen a circular economy can help to increase urban efficiency. The task is to reduce the amount of resources urban areas import from the outside and minimize the waste a city is generating.

Thirdly, municipal authorities should aim to guide urban growth towards compact and mixed use developments. That means buildings should not be scattered widely and urban districts should serve multiple purposes such as living, shopping, working, leisure activities. Their structure allows for climate-friendly public transport and for shorter distances to be managed more often by healthy non-motorized transport, such as cycling and walking. Cities are the ideal platform to serve large populations with everything they need efficiently. Well-developed cities reduce the amount of land used thus protecting it, say for agriculture and bio-diversity. Lastly, the development of information and communication technology (ICT) can further increase the efficiency of cities, for instance in the areas of transport and urban management.

"Well-developed cities are the ideal platform to serve large populations with everything they need efficiently."

Resilience has become a common buzzword in the development community. Does this mean that cities must face and overcome the effects of climate change, or something else?

Due to the high concentration of people, infrastructure and assets, cities are especially vulnerable to the implications of climate change and other disasters, such as earthquakes. It takes only a brief moment – and the damage is devastating on urban areas when disasters strike. We see this not just in developing countries but also in cities like New York, where hurricane Sandy inflicted huge damages. And it's not just the cities themselves...the surrounding region is affected because cities act like hubs for employment, transportation, communication and trade. Resilient Cities are less likely to be exposed to external shocks and their negative consequences. And if they do occur, resilient cities recover quicker.

To get to the “L” of the PERL: What defines the “Livability” of an urban agglomeration?

That is easy to answer, this aspect is especially important because it is about people. Livable cities are places where they – from children to grandparents – want to live. To be more precise: Places where they find employment and opportunities to develop. Livable cities serve their residents with safe drinking water, energy, health, education and public transport. PERL-Cities aim to be as free of violence as possible; citizens have access to and enjoy parks and public spaces. A vivid urban culture with arts and music gives – together with preserved monuments of cultural heritage – the people a sense of place. Last but not least, it also implies having the chance to take part in local politics and decision processes.

These goals you mentioned do remind one to the UN's Sustainable Development Goal discussion. How does KfW link their urban approach to the overall development goals?

When we analyse the megatrends of urbanisation and climate change and link them to the proposed Sustainable Development Goals (SDGs) we can fully support the conclusion of the UN Secretary-General Ban Ki-moon: “Cities are where the battle for sustainable development will be won or lost”. In other words: the way we develop our cities determines the rate of sustainability we reach throughout the planet: locally, which is immediately important for the growing number of urban dwellers and globally in terms of climate change and the protection of natural resources.

Urban infrastructure, once build, is hard and costly to change later. But it determines how sustainable, efficient and livable cities can be. We are hoping that our financial support to partner countries can help cities develop the PERL characteristics and prevent that less sustainable urban structures are poured into concrete.

How is KfW partnering with municipal authorities and development programmes to achieve its goals?

KfW has substantial experience in financing cities and municipalities as well as setting energy efficiency standards for buildings and districts in Germany. This knowledge is being applied and adjusted to our international financing activities. Through our partner governments, we support cities and regions so they can provide basic services and construct “all-weather” infrastructure – for instance flood protection and cyclone shelters – thereby increasing their resilience. We also finance climate-friendly and inclusive urban mobility, stimulate energy efficiency and support small and medium local enterprises. In several countries we finance safer cities and violence prevention programmes.

In doing so we are quite aware of the fact that urban infrastructure is not changed overnight. It can take decades to build sustainable cities and promote good governance. All the more urgent is the task. Most cities, however, neither know how to cope with the rapid growth they are confronted with nor do they have sufficient finance for it. Therefore, KfW is supporting partner countries and cities with financial means and expertise – aiming at creating as many PERLs as quickly as possible.

Responsible Banking



KfW is one of the world's leading and most experienced promotional banks. As an integral part of the KfW Group, KfW Development Bank carries out Germany's Financial Cooperation with developing and emerging countries on behalf of the Federal Government. The staff at its head office in Germany and in about 70 local offices cooperate with partners all over the world. Its goal is to combat poverty, secure the peace, protect the environment and the climate and make globalisation fair.

Alongside KfW Development Bank, the two subsidiaries KfW IPEX-Bank and DEG also have commitments abroad: while KfW IPEX-Bank is active in international project and export finance, DEG provides financing and consulting to private companies investing in developing and emerging countries.

KfW Group

KfW Development Bank

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Cross-collaboration and citizen engagement

Microsoft's CityNext initiative for sustainability takes a people-first-approach.

Of all the world's regions in the 2015 Sustainable Cities Index, which was recently released by ARCADIS, a global consultancy based in Amsterdam, European cities ranked highest. The study ranked the world's top 50 cities on a range of social, economic, and environmental factors. It used data from respected global sources such as the United Nations, the World Bank, and the World Health Organization. In fact, all 12 EU cities in the index landed in the top 20 for overall sustainability. And EU cities won 12 of the top 15 spots in the environmental sub-index—scoring energy use, air pollution, and greenhouse gas emissions, among others¹.

Virtue of the commons. Why do EU cities lead the world in sustainability? According to Rob Bernard, Microsoft's chief environmental strategist, the EU cities included in the study share a number of traits that characterize the broader EU community.

"Given their high core densities and limited land for expansion, European cities have needed to focus on sustainability concerns much longer than other cities," he says. "Culturally and politically, Europeans tend to take long planning views that put people first, seek consensus, and account for future generations."

Driving sustainability worldwide. A 17-year Microsoft veteran, Bernard led the company's efforts to build its own sustainable "City of the Future" on its Redmond, Wash., campus in the Puget Sound area. This was part of Microsoft's comprehensive global environmental strategy. In 2014, the company combined its sustainability aims and its global Microsoft CityNext initiative under Bernard's responsibilities. With Microsoft partners worldwide,

CityNext seeks to help cities improve their livability via modernization, public safety, healthcare, and education, while reducing environmental impacts. In Europe, Microsoft CityNext has showcase projects in London, Helsinki, Hamburg, and Rome, among many others.

Putting people first. "When we launched Microsoft CityNext," Bernard says, "we extended the smart cities



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¹ John Batten, *2015 Sustainable Cities Index: Balancing the Economic, Social and Environmental Need of the World's Leading Cities*, (Amsterdam: ARCADIS, 2015), p. 12

conversation beyond infrastructure to include cities' most important resource—its citizens. True transformation will be achieved only if cities take a people-first approach, like European cities tend to do, which enables cross-collaboration and citizen engagement.”

Bernard points out that people often get lost in technology discussions, especially the major trends involving cloud, big data, mobile, and social technologies. “An important part of CityNext is to share best practices among the world's cities,” he says. “European cities are definitely leading the way, with many sustainable practices worth modeling elsewhere.”

Sustainability imperatives. The growth in cities over the next few decades will inevitably stress the planet. Today, cities generate about 80 percent of global economic output and are responsible for about 70 percent of global energy use and energy-related GHG emissions. In Europe, however, cities have made huge progress relative to the rest of the world in addressing these issues.



In Helsinki, Finland, a Microsoft CityNext project helped improve the city's public bus system, which carries 60 million passengers a year and competes with several private bus systems.

60000000
passengers



It has increased rider satisfaction by 7 percent, while reducing fuel consumption—and emissions—by 5 percent. How? Microsoft and a Finnish CityNext technology partner worked to extend the city's existing data warehouse to collect and analyze data generated by sensors installed on all 400 of its buses.

Among the insights were driving habits of bus drivers, who received feedback if their data shows more than average accelerations and braking for a given route.

The sensors also measure bus fuel consumption and other operating parameters to predict maintenance needs before an in-service breakdown might strand passengers until the next bus arrives—and reduce passenger satisfaction with the bus service.

This is just one example of how using technology can help cities positively improve citizen services, environmental impact and reduce costs.



Microsoft

Microsoft engages with cities around the world through Microsoft CityNext—an initiative to empower more sustainable, prosperous, and economically competitive cities—with a simplified approach that puts people first.

For more information:

www.microsoft.com/citynext

@MSFTCitynext



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Michael Müller, Mayor of Berlin

Smart city concepts and sustainable urban development are the keywords of both the Asia-Pacific Weeks and Metropolitan Solutions events. Why is Berlin such a good location for global dialogue on these issues?

As the capital city of one of the world’s most powerful economies and as an international city offering quality of life, Berlin plays a key role as far as these issues are concerned. There is an outstanding sense of dynamism here, especially given the particular history of our city and the catching-up process the city has undergone during the last few years. Smart solutions to challenges in many different spheres of life are already being research into, developed and applied. Berlin is a kind of shop-window for Germany – in terms of economics, science and urban development policies. That’s why I am really delighted that no less than two exceptional platforms in Berlin - Asia-Pacific Weeks and Metropolitan Solutions - are addressing Smart City approaches to sustainable urban development.

How can Berlin provide inspiration and ideas for sustainable urban development?

Berlin is a growing city. In the last few years between 40,000 and 50,000 people have relocated annually to the capital.

That of course entails major pressure on local politicians to act in a range of policy areas: upgrading the infrastructure, generating affordable housing, providing schools and daycare centers and last but not least creating more jobs. Berlin is very fortunate to be able to play an active and forward-looking role in shaping this growth. For our city is not yet complete, it is developing and provides plenty of space for innovation. Berlin’s Senate is investing a great deal in sustainable solutions, as are our State-owned companies and the local business community. What I believe is particularly important is that our actions are not just aimed at providing a dynamic economic and business environment but also always keep quality of life for Berliners in mind. Berlin needs to remain a great city in which to live and work.

“Smart solutions to challenges in many different spheres of life are already being research into, developed and applied here in Berlin.”

What role does the Smart City concept play in Berlin’s future economic development?

In the last ten years the Federal Capital has undergone the most dynamic economic development of any of Germany’s federal states. That should remain so, and we need to keep enhancing the power of local businesses to innovate. Smart



Berlin as a hotbed for new ideas: “Plenty of space for innovation”

The Governing Mayor of Berlin, Michael Müller, on the city’s contribution to the world wide discussion of urban development.

urban technologies play a key role in this respect. We in Berlin have now defined a strategic framework, the Smart City Strategy, which states our objectives and determines spheres of action, such as housing, mobility and the economy. In the next few years Smart City solutions will play an increasing role in adding value in Berlin, given the wide range of tangible projects, like for instance the expansion and transformation of Tegel airport into an R&D and manufacturing location and into a shop-window for urban tech.

How will Berlin’s dynamic start-up scene be a factor for urban technology innovation?

Berlin has become one of the world’s most high-profile start-up hubs. People from all over the world come to us to action their ideas here. This start-up dynamism has long since become an important component in Berlin’s process of economic growth. And a remarkable percentage of new jobs are created by these start-ups. The digital economy, including for instance the e-commerce or games segments, enjoys a particular status. However Berlin-based start-ups also play an increasingly more important role in other industries like mobility or energy. Solutions for the Smart City of tomorrow are being generated via partnerships between the applied sciences and established businesses. And that strengthens Berlin’s position as a hotbed of innovation.

“Berlin-based start-ups also play an increasingly more important role in other industries like mobility or energy.”

Dialogue with other large cities has a long tradition in Berlin. How does the German capital benefit from these partnerships?

In a wide variety of different ways! For “travel broadens the mind” are not just empty words but rather an expression of life experience. Politicians, the business and cultural communities, even the people themselves benefit from this form of intercultural communication. If you consider the Metropolis network of major cities, in which both Berlin and I personally

play a very active role – as an association we address urban development policy challenges, look for smart solutions and new perspectives, and member cities, which are all confronted by very similar development policy challenges,

learn from each other. This creates new cross-border economic and cultural relationships and friendships too, if you’re lucky.

What are your personal expectations of this year’s Asia-Pacific Weeks event?

I am really delighted that the Asia-Pacific Weeks event is addressing the fascinating topic of Smart Cities and believe that dovetailing APW with the Metropolitan Solutions event is an approach that benefits both platforms. For Berlin, both as host and in terms of content, it is a substantial gain.

Translation: Ralph Livesey-Wardle, Linguakraft



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Key Issue: Smart Cities

The 10th Asia-Pacific Weeks Berlin 2015: How Berlin is effectively engaging itself in the dialogue with the Asia-Pacific region.


The topical framework Smart Cities draws on the results of the Asia-Pacific Weeks 2013. On a global scale, making cities better for their citizens and businesses by intelligently connected management is becoming increasingly prevalent and urgent. Pressing issues concerning urban infrastructures – traffic, energy and water, urban planning, waste management – manifest in differing complexities and dimensions throughout European and Asian megacities, yet the basic questions on how to use urban potentials intelligently are of the same tenor.

Thus, dialogue and cooperation based on partnership are indispensable for coping with challenges and creating cities that are worth living in. The key issue Smart Cities matches the sectoral competencies of Berlin, especially energy, mobility and logistics, environmental industry as well as ICT, media and creative industries. Berlin is already making a name for itself as a creative and green city as well as a scientific hub, a place for interdisciplinary research and the development of the technologies and concepts shaping our future.

Interplay of events, metropolis and trade fair

Clean-tech spans from the use of new materials, water- and cycle-based industries, energy efficiency, renewable energies and storage technologies all the way to innovative procedures of intelligent regulation. Since Berlin is a center of renewable energies and innovative mobility systems the city also presents itself as an internationally renowned and leading metropolis of electro mobility. Therefore the Smart City Berlin is effectively engaging itself in the dialogue with the Asia-Pacific region. In 2015, in a first, the participants of the Asia-Pacific Weeks will experience a synergistic interplay of events, metropolis and trade fair:

While in 2013 the theme Smart Cities was presented according to its individual aspects in their respective economic sectors (mobile, safe, green and creative city), in 2015 the APW focus on an integral approach with cross-cutting issues, e.g. funding, business concepts, integrated planning, innovative procurement and sales.



**WE DON'T KNOW ABOUT
THE FUTURE, BUT WE KNOW
WHERE IT WILL BE BUILT.**

Berlin TXL. The new urban DNA.

The conversion of Berlin's Tegel airport will open up a unique location for Berlin TXL – The Urban Tech Republic. This will be a fascinating research and industrial park for future technologies and the cities of tomorrow. It will provide space for creative people, for innovators, and for the makers. At Berlin TXL there will be lots of room for experiments and for developing new ideas. It's the place where you can help shape the future.

Visit Berlin TXL at Metropolitan Solutions 2015 > Stand Zukunftsorte Berlin > C17

Tegel Projekt GmbH
Lietzenburger Strasse 107
D-10707 Berlin
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www.berlintxl.de

Visiting innovative flagship sites

Expert tours complement the broad range of offers to inform, connect and cooperate at the APW: You can visit actual Smart City solutions at innovative flagship sites in Berlin. When Metropolitan Solutions, the trade fair for urban innovation and infrastructure solutions, moved from Hannover to Berlin, it became an important addition to the conferences and urban flagship projects by presenting comprehensive technological solutions for urban challenges.

The very successful Development Policy Dialogue of the APW 2013 took a closer look at the conceptual and strategic side of the Smart City as well as the perspectives and needs of Asian cities. During the first week of the APW 2015 this demand-side perspective will be integrated into the main conferences on politics and trade which tend to have a classical supply-side approach.

Development policy: creating partnerships

The tension between the desired sustainable Smart City solutions as well as the respective financial and organizational capacities is a global challenge as well as the focal point of our dialogue with Asian partners. We are relying on the established close cooperations and collaborations with the State Office for Developmental Cooperation Berlin (Berliner Landesstelle für Entwicklungszusammenarbeit - LEZ), the German Federal Ministry for Economic Cooperation and Development (Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung - BMZ), the German



Society for International Cooperation (Deutsche Gesellschaft für Internationale Zusammenarbeit - GIZ) and with other partners.

For the further development of Berlin's twin city partnerships in Asia with Beijing, Tokyo, Jakarta as well as cooperations with other cities in Southeast Asia, e.g. in Vietnam, Thailand, Indonesia, the Philippines, and with Chinese mega cities, the APW have an increasingly high relevancy. Both sides profit from the dialogue: Berlin as well as Asian metropolises can present model cases for Smart City solutions, learn from each other and develop new applications together. In this context the newly founded city platform Connective Cities can be made use of. II.



The Asia Pacific Weeks - Program pillars:

■ **The official opening ceremony in the German Federal Foreign Office** includes a variety of guests: high ranking representatives of the German Federal Government, the Mayor of Berlin, the chairman of the Asia-Pacific Committee of German Business (Asien-Pazifik-Ausschusses der Deutschen Wirtschaft - APA) as well as leading political and business representatives of the Asian-Pacific partner countries.

■ **Political Impulses (Federal Foreign Office):** Germany and the Asia-Pacific in an Urban World – Trends, Strategies and Common Options for Action Top-ranking speakers from politics, the private sector, the academia and civil society share their analyses and assessments of chances and challenges of urbanization in Germany and the Asia-Pacific. Parallel thematic break-out sessions bring together distinguished Asian and German experts searching for solutions to issues of urban mobility, sustainable supply of energy and water, the benefits of modern information and communication technologies (ICT), and adequate governance and management structures for metropolitan regions. The event gives a comprehensive introduction into the multiple dimensions of the „smart cities“-concept which guides this year’s Asia-Pacific Weeks.

- Senator Cornelia Yzer, Senate Department for Economics, Technology and Research, Berlin
- Matthias Claussen, Deputy Chairman, OAV-German Asia-Pacific Business Association Stefan Steinlein, State Secretary, German Foreign Office
- Brigitte Zypries, Parliamentary State Secretary, Federal Ministry of Economics and Energy (BMW)
- Shri Muppavarapu Venkaiah Naidu, Union Minister of Urban Development, Housing and Urban Poverty Alleviation and Parliamentary Affairs,
- Christian Gaebler, State Secretary, Senate Department for Transport and Environment,
- Zhao Wenzhi (Ms.), Vice-Chairperson of the Twelfth Beijing Municipal Committee of the Chinese People’s Political Consultative Conference (CPPCC), Beijing
- Yoshio Wagai, Deputy Director, Bureau of Environment, Tokyo Metropolitan Government, Robert Doyle, Lord Mayor, Melbourne
- Clas Neumann, Senior Vice President, Head of Global SAP Labs Network Management,
- Roland Siller, Member of the Management Committee, KfW Development Bank: Financing
- Prof. Elke Pahl-Weber (Technical University, Berlin)



Asia-Pacific Weeks Berlin Smart Cities: Smart Solutions for Urban Challenges

May 18 – 29, 2015 | www.APWberlin.de/en

Presented by:



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During the **Asia-Pacific Embassy Day** in the German Federal Foreign Office (Auswärtiges Amt) the embassies will inform extensively on the respective economic conditions of their countries. They will lead business conferences, seminars for company founders and investors, expert meetings on foreign trade, as well as showcase highlights of their respective culture. - The Business Conference Asia-Pacific (at the German Federal Foreign Office) is a new APW event format. It responds to the needs for internationalization of young enterprises with regard to production, funding, revenue and recruiting and opens possibilities for strategic partnerships with established (industrial) companies (tbd).

■ **The Business and Technology Conference Smart Solutions for Urban Challenges** at the CityCube Berlin, organized by Berlin Partner for Business and Technology (Berlin Partner für Wirtschaft und Technologie GmbH), will inform about business and funding models, standards/metrics, Open Data, integrated planning, innovative procurement, urban technologies for Smart City solutions and provide a platform for business-to-business talks and offer expert tours to Smart City flagship sites in Berlin. The Business and Technology Conference takes place on Thursday, May 21st to Friday, May 22nd within the conference area of the CityCube Berlin next to the Metropolitan Solutions trade fair.



Asia-Pacific Forum Berlin

The members and partners of the Asia-PacPFB cover all spheres of commercial, political, scholarly and cultural life, such as large and mid-sized enterprises, ministries, associations, universities, research facilities, media enterprises and cultural producers. The members are pursuing an active dialogue between Europe and the Asia-Pacific region, expanding their own potentials and capabilities by sharing them with others.

Participants contribute to achieving the forum's goals, while simultaneously profiting from its unique network, taking advantage of its knowledge-base and interface capacities. They also take part in national and international meetings and conferences, participating creatively in the forum's ongoing undertakings.

apfberlin.de

■ An extensive and diverse **partner program** including exhibitions and events will complement the conferences at the German Federal Foreign Office and the CityCube Berlin, coordinated by the Asia-Pacific Forum Berlin e.V. (APFB). Public institutions, museums and galleries will take part as third party organizers, either focusing on Smart Cities or on selected cultural, societal, political or economic aspects of the Asia-Pacific region. The organizers make use of the umbrella brand Asia-Pacific Weeks in form of manifold opportunities for cooperation between partners in Berlin as well as the topical, organizational and financial synergy effects due to early-on fine tuning of their programs around the key issues Asia-Pacific and Smart Cities.

■ The subsequently emerging **Asia-Pacific Online Community** will fire off impulses for future Asia-Pacific Weeks. We hope to witness a transformation of the Asia-Pacific Weeks from a periodically recurring event towards a continual Asia-Pacific dialogue. III. The Asia-Pacific Embassy Day 2014 The next Asia-Pacific Embassy Day took place at the House of World Cultures (Haus der Kulturen der Welt – HKW) on September 10th 2014. Owing to the big resonance of the first Embassy Day within the APW 2013 with over 700 participants – and with around 500 participants in 2014, in the future this event format is going to take place every year.



Encouraging global dialogue

The media solutions and events of local global are addressing global players. Our multilingual team assists the exhibition industry as well as trade and investment promotion worldwide. Let us support you reaching international business communities.

Projects and Media

- Hannover Messe: Global Business & Markets 1998 - 2015
- Partner Country Russia 2005, 2013
- Partner Country India 2006
- Partner Country Turkey 2007
- Partner Country Italy 2010
- Partner Country France 2011
- Partner Country China 2012
- Partner Country Holland 2014
- CeBIT Flat World Forum 2009 - 2011
- CeBIT International Business Area 2013-2015
- Deutscher Außenwirtschaftstag 1999-2013
- GlobalConnect 2008 - 2016
- didacta 2013- 2015
- sourcing_asia 2004 - 2011
- Business Baden-Württemberg 2007-2014
- Niedersachsen Global 2007 - 2010
- AUMA, AFIDA 2005 - 2014 – Exhibition Markets
- Metropolitan Solutions 2015

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Berlin TXL: where new ideas will take-off

Airport Berlin Tegel to become a runway for new urban technologies

© Gerhard Kassner

Tegel Airport might be closing, but its appeal will long outlive the last take-off and landing. The site will then be developed as a research and industrial estate, an experimental laboratory for the city of the future: Berlin TXL – The Urban Tech Republic. Entrepreneurs, students, investors, industrialists and scientists will all come together here to plan and develop tomorrow's cities. Berlin TXL will become a hub for designing, manufacturing and exporting urban technologies. The ideas and designs created here will be in demand not only in Berlin, but also in cities around the world. Berlin TXL will link different fields of research. The infrastructure of tomorrow's city rests on four key pillars:

energy, mobility, water and recycling. These are supported by innovative materials and intelligent information and communications technologies (ICT).

Berlin is a city of creative people and start-ups – all in search of inspiring spaces that they can make their own. However, as established ideas gain dominance, this sort of space is becoming increasingly scarce. But at Berlin TXL, there is plenty of room for ideas and experiments. A lot is raw and unfinished. Traces of previous use are still evident and give the site its distinct identity. It's the sort of place where you can still shape the future. Things will go ahead quickly once the airport closes. Around 150,000 m² of floor space is



© Reicher Haase Architekten

Berlin TXL – The Location

- 495 ha total area
- 203 ha building area
- 10 ha experimentation fields
- 800 companies, institutes, research institutes
- 5,000 students 15,000 new jobs
- 150,000 m² floor space of existing buildings
- Building lots: 3,000 – 200,000 m²
- Potential for up to 2 million m² floor space
- Areas available for large-scale industrial operations
- High international profile
- A tight network of universities, new enterprises, manufacturing companies, and institutes
- Direct motorway connection, close to centre of city
- International showcase for urban technologies

ready to be filled in the short term. Complete with features such as gates with conveyor belts and passenger walkways, hangars with crane trolleys and lots of room, workshops with platforms and direct access to the airfield. Property is also available for purchase, with units ranging from 3,000 m² to 200,000 m² – for work, research, development, and even for living. Airline offices and lounges will also be available for rent. So take your seat. After all, who wants an old factory floor when you can have an airport?

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Excursions

20 May 2015

13.30 – 16.00 **Tour 1: Urban Farming & Urban Gardening**

Visit the Efficient City Farming (Aquaponic).

Tour 2: Energy and Mobility transition in Germany on the example of the EUREF-Campus

Visit the intelligent city district and laboratory – EUREF-Campus.

16.00 – 18.00 **Tour 3: Smart Home Solutions and Simulation Testbeds**

Visit of the Live 2023 Showroom Energy Showroom and Micro Smart Grid Testbed.

21 May, 2015

10.00 – 13.30 **Tour 4: Urban Buildings – Energy-related reconstruction and smart energy management systems**

Visit of the model project for „green“ urban redevelopment, the Märkisches Viertel.

13.30 – 15.00 **Tour 5: Cutting-edge research projects: safe city solutions & and communication technologies**

Visit Safety Lab by the Innovation Center for Public Safety and Security.

16.00 – 18.00 **Tour 6: Berlins first Smart City District – The Potsdamer Platz**

Visit the ecological concept of Potsdamer Platz.

Berlin Partner for Business and Technology GmbH, the business development agency of Berlin, and Deutsche Messe AG, in partnership with DAI-Laboratory (Distributed Artificial Intelligence Laboratory), yoove Mobility GmbH, GESOBAU AG, Fraunhofer FOKUS, InnoZ (Innovation Centre for Mobility and Societal Change) and ubitricity GmbH invite all trade visitors to join the technical tours May 20th – 22nd 2015.

Hosts: Berlin Partner for Business and Technology GmbH, Deutsche Messe AG



22 May 2015

10.00 – 12.30 **Tour 7: Connected Mobility (Potsdamer Platz)**

Visit the ecological concept of Potsdamer Platz.

14.00 – 16.30 **Tour 8: Mobility concepts of the Future (EUREF-Campus)**

Visit of the EUREF-Campus and the Intelligent Mobility Station Südkreuz.

10.00 – 12.30 **Tour 9: Mobility concepts for urban areas (EUREF-Campus)**

Visit of the EUREF-Campus and the Intelligent Mobility Station Südkreuz.

14.00 – 16.30 **Tour 10: Connected Mobility (Potsdamer Platz)**

Visit the eMO Electric Mobility lounge and the Potsdamer Platz.



Berlin – new places for smart events

© Messe Berlin

Sometimes the selection of the right location for an event is very simple. Because anyone who opts for Berlin does not need to make any compromises. Besides special locations like the 368 metre high television tower, the German capital convinces with one of the most modern hotel landscapes in Europe and excellent services at favourable rates. Berlin can look back at 2014 as its most successful year for conferences and meetings yet: According to the latest statistics* of the visitBerlin Berlin Convention Office, last year saw some 11 million participants (+3% over the previous year) coming to more than 131,000 events (+4%) held in the German capital.

With the new **CityCube Berlin**, the German capital is becoming more attractive as a meeting and convention destination. The cube-shaped building with three levels is equipped with the latest technology and offers plenty of space for larger meetings and conventions for up to 11,000 participants. Freely movable walls allow the multi-purpose hall to be adapted to the requirements of the particular event. In addition, a walkway connects the CityCube with Hall 7

of the Messe Berlin, creating enough space for up to 18,000 people. Already in its first years, CityCube Berlin is successful with events booked in advance until 2021.

The Westhafen Event & Convention Centre (WECC) is open since April 2015. Centrally located, the former warehouse provides multifunctional rooms for conferences and meetings.

Estrel Berlin – Germany’s biggest hotel – expands its premises by a second convention centre. The new exhibition space will be approximately 10,000 sqm. It is expected to be open in September 2015.

Dresdener Bahnhof In Berlin, old industrial buildings are being given new life: the “Station-Berlin” is located right in the centre of the capital city – very close to Potsdamer Platz. The former Dresden train station was built in 1875 and is a testament to Berlin’s eventful history. The exceptional location has a total surface area of 20,000 m².

www.visitberlin.de

www.station-berlin.de/en/home.html

www.citycube-berlin.de/en

www.40seconds.de/en/locations/wecc





Metropolitan Solutions 2015: the premiere in Berlin

The CityCube hosts 27 parallel conferences
on all aspects of urban development

Overview: Metropolitan Solutions

Monday, 18 May 2015

Asia Pacific Weeks Opening Events

APW

Official Opening Ceremony of the Asia-Pacific Weeks p.25

(Senate Department for Economics, Technology and Research Berlin, Federal Foreign Office, Embassies)
18:00 – 19:30, Federal Foreign Office, Weltsaal

APW

Political Impulses: Germany and Asia-Pacific in an Urban World – Trends, Strategies and Common Options for Action p.25

(Federal Foreign Office, OAV, Senate Department for Economics, Technology and Research Berlin)
13:30 – 17:30, Federal Foreign Office, Europasaal

Tuesday, 19 May 2015

3rd Embassy Day Asia-Pacific: Urban development topics

APW

Philippines: Modernization of Water Infrastructure p.26

(German Foreign Chamber Philippines (AHK), Philippine Embassy)
09:00 – 18:00, Federal Foreign Office

APW

Korean-German Electromobility Forum p.26

(KEIT, Agency for Electromobility eMO, Embassy of the Republic of Korea)
13:30 – 19:00, Federal Foreign Office

APW

Japan: Green City Tokyo p.26

(Embassy of Japan)
15:00 – 16:30, Federal Foreign Office

Wednesday - Friday

ICLEI Lounge Talks p.80

(ICLEI) ICLEI Lounge

EEN Smart Business Days 2015 p.79

(The Enterprise Europe Network Berlin-Brandenburg, European Commission), Hall B, Stand 41

Excursions and Sites Visits p.30

(Berlin Partner, the Business Development Agency of Berlin, the Deutsche Messe AG)

Wednesday, 20 May 2015

03

New directions in municipal funding – national and international solutions p.39

(Deutsche Messe AG & Project Finance International)
11:00 - 17:45, L3, M4-M5 & M7

04

Cities of Tomorrow: Sustainable Solutions in the Arab World p.45

(Ghorfa) 09:00 - 18:00, L1, A1

05

India meets Europe: 100 “Smart Cities” Berlin Summit, Smart & Sustainable Cities p.46

(Indus Media UG) 09:30 - 19:00, L3, R2

06

Smart Lighting 2015 p.48

(InnovationFab Events BV)
08:00 - 20:00, L1 A8 & L3 M1-M3

09

Smart Cities - Needs & Barriers p.56

([uii] – the urban institute®, InnovationFab Events BV, BITKOM) 09:30 - 18:00, L3, M8

10

Sustainable Urban China p.58

(ICLEI, HEXUN Consulting, GIZ on behalf of BMUB)
09:30 - 18:00, L3, M1 & R3

18

Workshop: Comparing e-buses p.68

(trolley: motion) 14:00 - 18:00, L3, M6

21

Sustainable Mobility for Smart Cities p.71

(German Partnership for Sustainable Mobility)
09:45 - 17:30, L1, A4

23

Analysing the potential for wide scale roll out of integrated Smart Cities and Communities solutions p.73

(European Commission – DG Energy)
14:30 - 17:30, L3, R11

26

TU Berlin BrainBox: Smart City Berlin 2030 p.76

(TUBS GmbH)
12:00 - 14:00, Hall B, C29

Conferences

Thursday, 21 May 2015

- 01 Smart Solutions for Urban Challenges p.36**
(Berlin Partner, Senate Department for Urban Development and the Environment, Asia-Pacific Forum)
09:00 - 18:00, L1, A2
- 02 European Innovation Partnership on Smart Cities and Communities – General Assembly p.38**
(EIP SCC)
09:00 – 18:30, L1, A4-A5 & L3 R2, R3, R12, R13
- 03 New directions in municipal funding – national and international solutions p.39**
(Deutsche Messe AG & Project Finance International)
10:00 - 16:00, L3, M5 & M7
- 06 Smart Lighting 2015 p.48**
(InnovationFab Events BV)
08:00 - 20:00, L1, A8 & L3 M1-M3
- 07 Smart Sensing 2015 p.52**
(InnovationFab Events BV)
08:00 – 20:00, L1, A8 & L3 M1-M3
- 08 Electromobility - Globally Connected p.54**
(Berlin Agency for Electromobility eMO)
09:30 - 17:45, L1, A1
- 14 Innovative Solutions for Cities p.63**
(ISOCARP) 09:00 - 14:00, L3, M5
- 15 Plan IT Smart - Clever Solution for Smart Cities p.64**
(CORP) 14:00 - 17:00, L3, M5
- 19 Smart City in practice - efficient use of energy and future energy services p.69**
(Berliner Netzwerke) 09:15 - 12:15, L3, M6
- 20 Sustainable Development of Urban Regions - The Case of South East Asia p.70**
(PT DLR) 14:00 - 18:00, L3, M6
- 25 Transport Infrastructure in Germany p.75**
(TÜV Rheinland AG) 13:30 - 15:30, L3, S1
- 26 TU Berlin BrainBox: Smart City Berlin 2030 p.76**
(TUBS GmbH) 12:00 - 14:00, Hall B, C29
- 27 Embassy Lab on Smart City Governance p.78**
(Urban Lab) 14:00 – 16:30, Hall B, B35

Friday, 22 May 2015

- 01 Smart Solutions for Urban Challenges p.36**
(Berlin Partner, Senate Department for Urban Development and the Environment, Asia-Pacific Forum)
09:00 - 18:00, L1, A2
- 07 Smart Sensing 2015 p.52**
(InnovationFab Events BV) 08:00 - 20:00, L1, M1
- 11 Best Practice Urban Telematics p.60**
(TelematicsPro e.V.) 10:00 - 17:15, L3, M7
- 12 Baumeister Topos Cities Initiative, City as project p.61**
(Callwey Verlag) 09:15 - 19:00, L1, A1
- 13 Boosting start-ups and SMEs for smart urban mobility p.62**
(European Commission – DG Mobility and Transport)
08:30 - 17:30, L1, M2-M3
- 16 Smart Options 2015: Energy Efficiency Yield p.65**
(green with IT e.V.) 08:30 - 16:00, L3, M8
- 17 Morgenstadt: Urban Innovations Summit p.66**
(Fraunhofer IAO) 10:00 - 16:00, L3, M6
- 22 The German Energiewende and its impact on cities and their hinterlands p.72**
(World Future Council) 10:00 - 13:30, L3, R11
- 24 10th Meeting of the Smart City Forum p.74**
([ui!] – the urban institute ®) 10:00 - 16:00, L3, M4
- 26 TU Berlin BrainBox: Smart City Berlin 2030 p.76**
(TUBS GmbH) 12:00 - 14:00, Hall B, C29
- 27 Embassy Lab on Crisis Design p.78**
(Urban Lab) 14:00-16:30, Halle B, B35

01 Smart Solutions for Urban Challenges – The Business and Technology Conference within the Asia-Pacific Weeks Berlin 2015

The Asia-Pacific Weeks Berlin are a forum for the dialog with a business region that features high growth rates and is contributing to the global future. In 2015, the Asia-Pacific Weeks will focus on smart cities and in particular the urban challenges facing Berlin and the high-growth cities in Asia. At the Business and Technology Conference of the AP Weeks Berlin hosted by Berlin Partner for Business and Technology,

new models of business, partnership and financing for smart cities are discussed. Cities present their strategies and ideas for infrastructure solutions and companies demonstrate their technical answers. Integral part of the conference are site visits to smart projects and sites of the future. Participation is free of charge, registration under www.apwberlin.de is mandatory. The event is being video-recorded.

Language: English

Host: Berlin Partner für Wirtschaft und Technologie GmbH, Senate Department for Urban Development and the Environment

Partners: Stiftung Deutsche Klassenlotterie Berlin, the European Regional Development Fund's foreign trade program for accessing new markets (EFRE), Berlin-Brandenburg Energy Network, Buro Happold Engineering, dena German Energy Agency, Inpolis UCE GmbH, Technical University Berlin

Sponsors: Daimler AG, Siemens, CleanTech Business Park Berlin-Marzahn, SAP AG



21 May 2015, 9:00 – 18:00, Level 1, Room A2

09:30 – 09:45 Opening

- Dr. Stefan Franzke, Managing Director, Berlin Partner for Business and Technology
- Cornelia Yzer, Senator for Economics, Technology and Research, Berlin

09:45 – 11:00 Session 1: Innovative Business, Partnership and Financing Models

- Dr. Wan Biyu, Director Smart City Innovation Centre Beijing, PR China
- Toru Matsudo, Mayor Funabashi, Japan
- Oliver Lünstedt, CEO Carzapp Germany
- Urs Fischer, CEO parku, Germany
- Dr. Frank Pawlitschek, Managing Director ubitricity, Germany
- Dr. Martin Wattenbach, Climate KIC Germany

Moderator: Christian Herzog, Berlin Partner for Business and Technology

11:30 – 13:00 **Session 2: Breaking out of the Silo – Smart Technologies in other Sectors**

- Dr. Torsten Mehlhorn, Head of Business Development, Fraunhofer Heinrich-Hertz-Institute Berlin, Germany
- Daniel Schwaag, elegant embellishment ltd./net, Germany
- Representative of Doppelmayr Urban Solutions, Austria
- Dr. Martin U. Schefter, CEO First Sensor AG, Germany

Moderator: Claudia Pelzer, Berlin Partner for Business and Technology

14:00 – 15:30 **Session 3: Usability und Design for All – Smart Mobility in Cities**

- Lakshmi Narayana, Commissioner of Bangalore Municipal Corporation
 - Chen Jinchuan, Chief of Planning Section, Beijing Municipal Commission of Transport
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22 May 2015, 9:00 – 18:00, Level 1, Room A2

9:30 – 11:00 **Session 5: Visions and Strategies for Smarter Cities**

- Li Gang, Deputy Director, Yantai High-Tech Zone, PR China
 - Chu Xifeng, Deputy Director, Yixing Municipal People's Government, PR China
 - Jaqueline Poh, Managing Director Infocomm Development Authority (IDA), Singapore
 - Christian Gaebler, Permanent Secretary for Transport and Environment, Berlin Senate Department for Urban Development and Environment, Germany
-

11:30 – 13:00 **Session 6: Greener Industrialization in Asia-Pacific**

Moderator: Representative of Buro Happold Engineering, Germany

- Dr. Caroline Sutandi, Senior Lecturer, Parahyangan Catholic University, Bandung, Indonesia
- Dr. Pondej Chaowarat, Lecturer, Faculty of Architecture, Urban Design and Creative Arts, Mahasarakham University, Thailand
- Malte Metzger, CEO myBus GmbH, Germany

Moderator: Representative of Berlin Partner for Business and Technology

16:00 – 17:30 **Session 4: Usability und Design for All – Smart Living in Cities**

- Hee Yeoun Jeoun, COO Tide Co., Ltd., Korea
- Dr.-Ing. Christian Bogatu, Managing Director, Product, Sales & Marketing, KIWI.KI GmbH, Germany
- Simon Tsang, Head of Innovation & Technology, InvestHK, PR China

Moderator: Manuel Friedrich, Berlin Partner for Business and Technology

14:00 – 15:30 **Session 7: Rethinking Urban Processes and Structures – Openly**

- Prof. Raoul Bunschoten, C H O R A city & energy Institute for Urban Design and Sustainable Urban Planning Technical University Berlin, Germany
- Alice Audrey Grindhammer, Open Source Circular Economy platform OSCEdays
- Fu Na, Senior Researcher, Shenzhen City Design Center, PR China

Moderator: Wolfgang Korek, Berlin Partner for Business and Technology

16:00 – 17:30 **Session 8: New solutions and business models for Integrated Renewable Energy Generation in Cities**

Moderator: David Wortmann, Managing Director, Berlin-Brandenburg Energy Network e.V.

02 General Assembly of the European Innovation Partnership on Smart Cities and Communities

The EIP on Smart Cities and Communities is Europe's key initiative to foster the uptake of innovative Smart City solutions and support market building in this field. It connects more than 4,000 partners through an online-Market Place and regular Action Cluster meetings.

If you are interested in getting an update on the Smart Cities field in Europe and in learning more about future developments and business opportunities, you should attend this event.

The General Assembly will take stock of achievements and discuss future steps of actions. The morning session will be

opened by Violeta Bulc, European Commissioner for Transport, and will gather mayors, CEOs and high-level speakers in an open discussion to explore new ways to increase synergies between policies and funds to boost demand and to tackle needs for citizen-engagement and city-needs driven market-building. The session will be closed by Günther H. Oettinger, European Commissioner for Digital Economy & Society. The afternoon will continue with closed meetings of the Action Clusters to promote good practices and joint project development



Language: English

Host: European Innovation Partnership on Smart Cities and Communities (EIP SCC)

21 May 2015, 9:00-18:30, Level 1, Rooms A4-A5, Level 3 R2, R3, R12, R13

09:30 – 09:45 **Speech by Violeta Bulc,**
European Commissioner for Transport

09:45 – 10:45 **Supporting Smart Cities in Europe: How to create synergies between policies and funds to boost demand**

High level Panel:

- Annemarie Jorritsma, Mayor Almere, CEMR Co-President
- Ingolf Schädler, BMVIT
- Peter Molengraaf, CEO Alliander
- Dr. Norbert Kloppenburg, Executive Board KfW

Moderator: Magda Kopczynska, Director DG MOVE C

11:20 – 12:10 **Stocktaking: What next for the European Innovation Partnership on Smart Cities and Communities?**

Podium Presentation with EIP Action Cluster Leader and Q&A on What is Needed/Expected from the EIP SCC

Moderator: Marie Donnelly, Director DG ENER C

12:10 – 13:00 **Smart Cities and Citizen Involvement: How to Create the Right Solutions that Meet Cities Needs?**

High level panel:

- Daniël Termont, Mayor Ghent
- George Ferguson, Mayor Bristol
- Prof. Johanna Schlaack, TU Berlin
- Dr. Yves de Weerd, VITO

Moderator: Paul Timmers, Director DG CONNECT H

13:00 – 13:15 **Speech by Günther Oettinger, European Commissioner for Digital Economy and Society**

14:15 – 18:30 **Break-Out Working Meetings of Action Clusters (Closed Doors)**

03 New directions in municipal funding – national and international solutions

Financial capacity in the public sector is one of the key challenges in contemporary governance.

The current public finance landscape is changing – the Financing Conference is prepared and designed to meet these challenges. Take this opportunity to discuss these topics with knowledgeable government policymakers, local authority experts, academics and members of the business

and banking community. The Financing conference will convene public sector policy makers, utility managers, financial institutions, solution providers from industry and research. The Financing Conference is divided into a national and international section. Each session runs in individual rooms. German issues: Room M4-M5 (Level 3), International issues: Room M7 (Level 3)

Host: Deutsche Messe AG and Project Finance International

Partners: European Investment Bank, ÖPP Deutschland AG, PricewaterhouseCoopers (PwC), Asian Development Bank, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), KfW, Worldbank, Siemens AG.



Financial Services

SIEMENS

20 May 2015, Level 3, Rooms M4 - M5 (German), Room M7 (International)

Paving the Way for Municipal Finance -National and International Perspectives – Grand Opening Ceremony. VISION – STRATEGY – REALISATION

11:00 – 13:00, Level 4, Rooms M4-M5

Language: German with English translation

Moderator: Dr. Joachim Richter, Project Finance International, Zell am Harmersbach

11:00 – 11:20 Opening Keynote

Werner Gatzer, Secretary of State; Ministry of Finance; Berlin

11:20 – 11:40 Keynote The European Approach to finance Urban Infrastructure

Tilman Seibert; Executive Director; European Investment Bank; Luxemburg

11:40 – 12:00 Keynote Megacities – Mega Opportunities

Dr. Norbert Kloppenburg, Board Member KfW Banking Group

12:00 – 12:20 Keynote Urban Challenges

Alfred Höhn, Managing Director Public Sector; PwC

12:20 – 13:00 Panel discussion

- Tilman Seibert, Executive Director European Investment Bank; Luxemburg
- Dr. Norbert Kloppenburg, Board Member KfW Banking Group
- Alfred Höhn, Managing Director Public Sector; PwC

Managing Urban Growth, Shaping smart Cities: Diversifying funding sources for urban infrastructure projects

14:00 – 16:00, Level 3, Room M7

Language: English

Moderator: Oliver Griffith, International Finance Corporation (IFC), Washington DC.

14:00 – 14:15 Opening Keynote Intelligent Territories – Territorios Inteligentes, „Beyond Smart Cities“

Prof. Dr. Alfonso Vegara, President Fundation Metropoli; Madrid, Spain

14:15 – 14:30 Keynote Getting Municipal Finances right: Challenges and Opportunities in Developing Cities

C. Farvacque-Vitkovic, The World Bank; Lead Urban Development Specialist; Washington DC

14:30 – 15:15 Projects insights

A holistic approach to cities development
Hazem Galal, PwC; Global Head Public Services
Smart enough for Smart? Connecting City Infrastructure

Julie Alexander, Siemens AG; Director Global Cities Centre of Competence; London

Are we ready for PPPs? – How a global Company can partner with Cities

Clas Neumann, SAP AG; Head of Global Growth Markets; Shanghai

15:15 – 16:00 Impetus Speech “Smart is not enough”

Michael Gruber; KfW Development Bank; Senior Economist; Frankfurt

Panel discussion How to mobilize new funding Sources for Smart Cities and Urban Growth

- Prof. Dr. Alfonso Vegara, President Fundation Metropoli; Madrid, Spain
- C. Farvacque-Vitkovic, The World Bank; Lead Urban Development Specialist; Washington DC
- Julie Alexander, Siemens AG; Infrastructure and Cities; London
- Clas Neumann, SAP AG; Head of Global Growth Markets; Shanghai
- Hazem Galal, PwC; Global Head Public Services
- Michael Gruber, KfW Development Bank; Senior Economist; Frankfurt

Die Finanzierung urbaner Infrastruktur – Herausforderungen und mögliche Lösungen

14:00 – 16:00, Level 3, Rooms M4-M5

Language: German

Moderator: Werner Schmidt, Europäische Investitionsbank; Direktor; Luxemburg

14:00 – 14:20 Eröffnungs-Keynote Herausforderungen bei der Entwicklung urbaner Infrastruktur und ihre Finanzierung am Beispiel des Projekt TXL

Philipp Boutellier, Tegel Projekt GmbH; Geschäftsführer; Berlin

14:20 – 15:20 Podiumsdiskussion „Die Finanzierung von Zukunftsinvestitionen in die urbanen Infrastruktur – Herausforderungen und mögliche Lösungen“

- Martin Husmann, Verkehrsverbund Rhein-Ruhr AöR; Vorstandssprecher; Gelsenkirchen
- Philipp Boutellier, Tegel Projekt GmbH; Geschäftsführer; Berlin
- Bernd Papenstein, PwC; Leiter Öffentliche Finanzierung
- Gabriele C. Klug, Stadtkämmerin; Stadt Köln
- Georg Matzner, Ministerium für Wirtschaft, Verkehr und Landesentwicklung, Landesregierung Hessen

15:20 – 16:00 Interview Session „Urbane Infrastruktur als Voraussetzung für nachhaltiges Wachstum und die Rolle der Förderbanken bei ihrer Finanzierung“

Tillmann Stenger, Vorstandsvorsitzender, Investitionsbank des Landes Brandenburg ; Potsdam

How to support financial viability of private engagement in urban infrastructure?

16:00 – 17:45, Level 3, Room M7

Language: English

Moderator: Oliver Griffith, International Finance Corporation (IFC), Washington DC.

16:00 – 16:15 Opening Keynote Initial Remarks from the Private Sector

Johannes Schmidt, Siemens AG; CEO Project & Structured Finance; Erlangen, Germany

16:15 – 17:00 Report and Project Insights

ADB's Project Design Facility

- Naomi Chakwin; Director; Asian Development Bank
- ADB; European Representative Office, Frankfurt

The EBRD Infrastructure Project Preparation Facility

Matthew Jordan-Tank; Head of Infrastructure Policy and Project Preparation European Bank for Reconstruction and Development; London

Remarks from the Private Banking Sector

- Fabrizio Baicchi; Executive Director, SMBC
- Nikko Capital Markets Limited; Structured Finance, London

How one Global Tech Company in Silicon Valley is developing PPPs with Cities

Gordon Feller; Director Urban Innovations, Cisco Systems; Silicon Valley; California

17:00 – 17:30 Panel

- Naomi Chakwin, Asian Development Bank; Director; European Representative Office, Frankfurt
- Johannes Schmidt, Siemens AG; CEO Project & Structured Finance; Erlangen, Germany
- Fabrizio Baicchi ; Executive Director, SMBC Nikko Capital Markets Limited ; Structured Finance, London
- Matthew Jordan-Frank, European Bank for Reconstruction and Development; Director; London,
- Gordon Feller; Director Urban Innovations, Cisco Systems; Silicon Valley; California

17:30 – 17:45 Interview at the stage

Johannes Schmidt, Siemens AG; CEO Project & Structured Finance; Erlangen, Germany

Ist der PPP Ansatz eine Lösung?

16:00 – 17:45, Level 3, Rooms M4-M5

Language: German

Moderator: Horst J. Schumacher, Geschäftsführer Kommunalverlag

16:00 – 16:20 Themeneröffnung Was kann ÖPP für Kommunen leisten?

Bernward Kulle, ÖPP Deutschland AG; Partnerschaften Deutschland; Berlin Vorstand

16:20 – 16:40 Key Note Der kritische Blick auf ÖPP aus Sicht der kommunalen Finanzverwaltung

Gabriele C. Klug, Stadtkämmerin; Stadt Köln

16:40 – 16:50 Impulsvortrag ÖPP unter differenzierter Sichtweise

Bernhard Daldrup; Abgeordneter des Deutschen Bundstages, Kommunalpolitischer Sprecher der SPD Fraktion; Berlin

16:50 – 17:45 Podiumsdiskussion

- Gabriele C. Klug, Stadtkämmerin; Stadt Köln
- Bernward Kulle, ÖPP Deutschland AG; Partnerschaften Deutschland; Berlin, Vorstand
- Hansjörg Arnold, Partner PwC; Leiter Bereich Infrastruktur
- Matthias Woitok, Europäische Investitionsbank; Abteilungsleiter Strukturierte Finanzierungen
- Bernhard Daldrup, Deutschen Bundestags; Kommunalpolitischer Sprecher der SPD Fraktion; Berlin



21 May 2015, Level 3, Rooms M4 - M5 (German), Room M7 (International)

Wege zu einer „Smart City“

10:00 – 11:45, Level 3, Room M5

Language: German

Moderator: Sven-Joachim Otto, PwC; Partner

10:00 – 10:10 Themeneröffnung „Vision City“

Michael Jahn, PwC; Senior Manager, Smart Cities

10:10 – 10:20 Erfolgsgeschichte Das Modernisierungskonzept der InnovationCity Management GmbH

Burkhard Drescher, Oberbürgermeister a.D.; Geschäftsführer Innovation City Management GmbH

10:20 – 10:30 Impulsvortrag Die Initiative der Bundesregierung für Investitionen in Kommunen

Bernward Kulle, ÖPP Deutschland AG; Partnerschaften Deutschland; Berlin, Vorstandsvorsitzender

10:30 – 10:45 Projektbeispiel Ressourcenallokation im Bereich der kommunalen Infrastruktur

Dr. Jörg Hopfe, NRW Bank; Abteilungsleiter, Öffentliche Kunden; Düsseldorf

10:45 – 11:15 Podiumsdiskussion

- Michael Jahn, PwC; Senior Manager Smart Cities
- Bernward Kulle, ÖPP Deutschland AG; Partnerschaften Deutschland; Berlin Vorstand
- Dr. Jörg Hopfe, NRW.Bank; Abteilungsleiter, Öffentliche Kunden; Düsseldorf
- Burkhard Drescher, Oberbürgermeister a.D.; Geschäftsführer Innovation City Management, Bochum

11:20 – 11:40 Interviewsession "Deutschlands Städte werden digital!"

- Prof. Dr. Claus Wiegandt, Universität Bonn;
- Michael Jahn, PwC; Senior Manager, Smart Cities

Urbanizing Asia

10:00 – 12:30, Level 3, Room M7

Language: English

Moderator: Martin Dirr, Gesellschaft für Internationale Zusammenarbeit (GIZ, Eschborn)

10:00 – 10:15 Opening Keynote

City Government of Seoul

10:15 – 11:50 Project Insights, Success Stories and Lessons Learned

The Smart City Initiative in India

Amy Leung, Deputy Director General, Asian Development Bank; Manila

Investing in Asia's Urban Future

Eva Ringhof, Social Urban Development Specialist, Cities Development Initiative for Asia (CDIA, GIZ Philippines)

Bus Rapid Transit solutions for large cities and preconditions for sustainable financing

Silvia Breitschwerdt, Head of Global Trade Finance, Daimler AG; Thomas Tonger, Head of Product Planning and Management Daimler Buses, Daimler AG, Stuttgart

Practicable Financing Models for Electronic Urban Transport Technology Solutions

Roman Himmler, MBA; Manager Business Development Kapsch TrafficCom AG; Vienna; Austria

Learning from the Urban Rural Nexus in building Resilience in Khulna City Region

Mehedi Ahsan, KfW Development Bank; Country Office Bangladesh

11:50 – 12:30 Panel Discussion

- Amy Leung, Deputy Director General, Asian Development Bank; Manila
- Eva Ringhof, Social Urban Development Specialist, Cities Development Initiative for Asia (CDIA, GIZ Philippines)
- Silvia Breitschwerdt, Head of Global Trade Finance; Daimler AG
- Roman Himmler, MBA | Manager Business Development, Kapsch TrafficCom AG; Vienna; Austria
- Mehedi Ahsan, KfW Development Bank; Country Office Bangladesh

Die Zukunft der Stadtwerke im Licht der Energiewende

11:45 – 13:15, Level 3, Room M5

Language: German

Moderator: Dr. Volker Breisig PwC; Partner

11:45 – 12:00 **Keynote Das digitale Stadtwerk – neue Geschäftsmodelle für die Stadtwerke**

Felix Hasse, PwC; Leiter Smart Cities
Deutschland

12:00 – 12:15 **Keynote „Anforderungen an Kommunen ändern sich – und wir Stadtwerke ändern uns mit ihnen“**

Mathias Nikolay, badenova AG; Mitglied des
Vorstands; Freiburg

12:15 – 12:30 **Projektbeispiele Bürgerbeteiligungsmodelle Rechtliche Implikationen für Kommunen und Stadtwerke**

Dr. Ludger C. Verfürth, LL.M., Norton Rose
Fulbright Germany LLP; Partner

12:30 – 13:15 **Podiumsdiskussion**

- Jan-Marcel Lehmann, Berliner Sparkasse, Niederlassung der Landesbank Berlin; Direktor
 - Mathias Nikolay, badenova AG; Mitglied des Vorstands
 - Gabriele C. Klug, Stadtkämmerin; Stadt Köln
 - Felix Hasse, PwC; Leiter Smart Cities Deutschland
 - Dr. Ludger C. Verfürth, LL.M., Norton Rose Fulbright, Partner
-

Managing the effects of climate change as a task for local authorities

14:00 – 16:00, Level 3, Room M7

Language: English

Moderator: Michael Gruber; KfW Development Bank;
Frankfurt; Senior Economist

14:00 – 14:15 **Opening Keynote The Impact of Climate Change on Urbanisation**

Ingrid-Gabriela Hoven, Bundesministerium für
Wirtschaftliche Zusammenarbeit (BMZ; Bonn;
Germany)





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14:15 – 15:15 Case Studies

InnovationCity – Energy Turnaround Bottom up

Burkhard Drescher, Innovation City Management GmbH; CEO; Bochum Germany

100 Transformative Actions, How Cities implement the Call for Climate Action

Monika Zimmermann, ICLEI – Local Governments for Sustainability; Deputy Secretary General; Bonn

The European Investment Bank’s Action Plan for Cities

Brian Field, European Investment Bank

The Low Carbon City Lab (LoCaL): Innovative Solutions to fund Climate Change Mitigation in Cities

Patrick Bürgi, South Pole Group; Director Public Policy; Zurich

The ADB Climate Finance Facilities for Cities

Amy Leung, Deputy Director General, Asian Development Bank; Manila

15:15 – 16:00 Panel discussion

- Ingrid-Gabriela Hoven, Bundesministerium für Wirtschaftliche Zusammenarbeit
- BMZ; Bonn; Germany
- Monika Zimmermann, ICLEI – Local Governments for Sustainability; Deputy Secretary General; Bonn
- Burkhard Drescher, Innovation City Management GmbH; CEO; Bochum Germany
- Brian Fields, European Investment Bank
- Patrick Bürgi, South Pole Group; Director Public Policy; Zurich

Die Zukunft der Kommunalfinanzierung:

Kommunale Finanzaufsicht, Anforderungen an alternativer Finanzmarktinstrumente

14:00 – 16:00, Level 3, Room M5

Language: German

Moderator: Horst J. Schumacher, Geschäftsführer Kommunalverlag

14:00 – 14:20 1. Keynote Die zukünftige Rolle der „Kommunalen Finanzaufsicht“

Annemarie Lütkes, Regierungspräsidentin; Regierungsbezirk Düsseldorf

14:20 – 14:40 2. Keynote Nachhaltige Stadtentwicklung und generationengerechte Finanzen

Werner Spec; Oberbürgermeister der Stadt Ludwigsburg

14:40 – 15:00 3. Keynote Das Anforderungsprofil der BaFin an alternative Finanzierungskonzepte

Dr. iur. Jean-Pierre Bußalb, Bundesanstalt für Finanzdienstleistungsaufsicht BaFin; Bonn

15:00 – 16:00 Podiumsdiskussion

- Annemarie Lütkes, Regierungspräsidentin; Regierungsbezirk Düsseldorf
- Gabriele C. Klug, Stadtkämmerin Köln
- Werner Spec, Oberbürgermeister der Stadt Ludwigsburg
- Dr. iur. Jean-Pierre Bußalb, Stv. Referatsleiter; Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin; Bonn)

04 Cities of Tomorrow: Sustainable Solutions in the Arab World

The proportion of the world's population living in cities is already over 50 percent and is set to grow further. By 2050, global population will reach 9 billion of which more than two thirds will be living in cities. Such a high level of urbanization creates pressing challenges in a variety of areas, such as energy supply, the environment and waste management – challenges that call for intelligent and creative solutions.

With its strong base of innovative companies and research institutes in the new technology sector, Germany is an incubator of groundbreaking solutions for the cities of the future. In its High-Tech Strategy 2020, the German government sees a future CO₂-neutral and energy-efficient city as a core target. German experts can thus share great expertise to combine ecological sustainability and economic prosperity.





Language: English

Host: Ghorfa Arab-German Chamber of Commerce and Industry e.V.

Sponsors: Siemens, SAP

20 May 2015, 9:00 – 18:00, Level 1, Room A1

10:30 – 11:00 **Opening Ceremony**

11:00 – 12:00 **Session 1:**

Special Framework Conditions for Smart Cities in the Arab World

12:00 – 13:00 **Session 2:**

Sustainable Cities as Cross-Sectional Task

14:30 – 16:00 **Session 3:**

Mobility: Intelligent Transport Systems

16:30 – 18:00 **Session 4:**

Creation of Best-Run Cities: Innovative Technology

18:00 – 18:30 **Closing:**

Summary and Outlook



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05 India meets Europe: 100 “Smart Cities” Berlin Summit, Smart & Sustainable Cities – Opportunities, Strategies for Indo – European Cooperation

With partners like the City of Berlin, National Institute of Urban Affairs- India (NIUA), ICLEI etc the summit is organised by Indus Media as part of the Asia-Pacific Weeks Berlin 2015 and Metropolitan Solution 2015. The summit will provide Indian cities and states the needed visibility in Europe to showcase development project to be undertaken under the 100 Smart Cities” programme by the Government of India.

This neutral platform will also provide the visiting Indian Delegation opportunities to discuss pressing urban issues and share knowledge and experience of Indian cities with European cities. Exchanging best practices, insights, capacity building, and networking facilitation will be undertaken through plenary sessions, focused workshops, site visits, B2B meetings and Peer to Peer round tables discussions.

Language: English

Host: Indus Media UG

Partners: Federation of Indian Chambers of Commerce and Industry (FICCI), ICLEI – Local Governments for nability, Asia-Pacific Weeks in Berlin, KfW Development Bank, National Institute of Urban Affairs (NIUA), Hannover Milano Fairs India Pvt. Ltd.



20 May 2015, 09:30 - 19:00, Level 3, Room R2

10:00 – 11:00 “100 Smart Cities in India”

- Joint Secretary, Urban Development Ministry of India
- Anke Brummer-Kohler, Director General of Urban Development, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
- Manjalamkuzhi Ali, Minister for Urban Affairs and Welfare of Minorities Govt. of Kerala
- Pradeep Puri, Chairman, FICCI – Urban Infrastructure Committee & Executive Chairman, IL&FS Water Ltd
- Jagan Shah, Director, National Institute of Urban Affairs – New Delhi

11:15 – 12:00 Partner Kerala

- Manjalamkuzhi Ali, Minister for Urban Affairs and Welfare of Minorities Govt. of Kerala
- A P M Mohammed Hanish, Secretary to Govt. Local Self Govt (Urban Affairs), Govt. of Kerala
- Ajayakumar S, Chief Town Planner, Dept. of Town and Country Planning, Govt. of Kerala
- Jacob Easow, Regional Planner, Govt. of Kerala

12:00 – 13:00 Financing smart city development: challenges and solutions

- Felix Klauda, Head of Division, Urban Development and Mobility, South Asia, KfW Development Bank
- Paritosh Gupta, Chief Executive, Infrastructure Leasing & Financial Services Limited (IL&FS) & CEO IIDC Limited

13:45 – 14:45 Incredible Metro Cable – Experiences and Prospects of Urban Ropeways

- Prof. Huber Klumpner, ETH Zürich, Dean of Faculty of Architecture
- Marielly Casanova, Architect, Urban Designer (Caracas/Essen)
- Rohit Chandragiri, Urban Planner (Hyderabad/Berlin)

14:45 – 15:45 Sustainable Transportation: Solutions to Match the Rapid Pace of Development in Asian Cities

Integrating urban transport modes: focus on public transport and non-motorised transport
Manfred Breithaupt, Senior Transport Advisor, GIZ

Integrating urban transport governance: challenges and opportunities for Unified Metropolitan Transport Authorities
Oliver Lah, Wuppertal Institute

Integrating transport finance, linking local, national and international funding to implement sustainable urban mobility

- Robert Valkovic, Sr. Project Manager, KfW
- Abhishek Pathak, Director, M. P. Enterprises & Associates Ltd

Moderation: Sunny Kodukula, Global Coordinator for EcoMobility, ICLEI

16:00 – 16:45 Solid Waste Management – Indian Perspective

Lakshminarayana IAS – Commissioner, Bangalore Municipal Corporation

16:45 – 17:30 Opportunities for European players in Indian Smart Cities – Steps to get there Collaborations/Partnerships/Technology Transfer; What works – What does not!

17:30 – 19:00 Networking dinner



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06 Smart Lighting 2015

Smart Lighting Platform Event: a pre-competitive industry driven platform on connected lighting combining the interests of stakeholders from the lighting industry, the semiconductor industry and the ICT industry. Key objective is to promote new connected and human centric lighting systems, solutions & services and to develop new business



models based upon this new technology. Activation of the extended lighting value chain demands a close collaboration and alignment of all stakeholders. The event takes a strategic view on developments, barriers and opportunities beyond the benefits of energy reduction through LEDification and towards DIGItigation.

Language: English

Host: InnovationFab Events BV

20 May 2015, 08:00 - 20:00, Level 1, Room A8, Level 3, Room M1

08:40 – 09:00 Welcome and Opening

- Ed van den Kieboom, Managing Director InnovationFab Events, the Netherlands
- Dr. Bruno Smets, Head Public Private Innovation Partnerships Philips Lighting, the Netherlands Chairman of the Steering Committee

09:00 – 09:30 How we make The internet of Things The Internet of People

Rogier van der Heide, Senior Vice President Zumtobel Group, Chief Marketing & Design Officer, Zumtobel, Austria

09:30 – 10:00 On the way to digital light

Dr. Klaus Streubel, Senior Vice President and head of Corporate Technology, Osram GmbH, Germany

10:00 – 10:30 What can Smart Lights learn from Smartphones and what can Smartphones learn from Smart Lights?

Gerard Harbers MSc, Chief Technical Officer, Xicato, United States

11:00 – 11:30 Digital Lighting & IoT – Hype or Reality?

Dr. Jeff Cassis, Senior Vice President LED Lighting Systems, Royal Philips, United States

11:30 – 12:00 Building an intelligent environment

Zoltan Vamos, Chief Technology Officer, GE Lighting, Hungary

12:00 – 12:30 Visionary panel discussion

13:30 – 14:00 Technology Session: Cyber physical lighting systems – Energy consumption aspects in the IOT

Dr. Terry Clapp, Electrical Engineering Division (CUED), DowCorning, United Kingdom

13:30 – 14:00 Business & Application Session I: Residential / Home – Creating value with smart & human centric lighting

Nils Erkamp, Business Line Manager Lighting, TNO, The Netherlands

13:30 – 14:00 Business & Application Session II: Professional – Enlight: Decentralized intelligence demonstrates deep energy savings with optimized user comfort

Frank van Tuijl, Senior Project/Program Manager, Philips Lighting, The Netherlands

14:00 – 14:30	Technology Session: Cyber physical lighting systems – How to develop highly secure wireless lighting control system Dr. Geoff Archenhold, Serenity Lighting, United Kingdom	15:30 – 16:00	Business & Application Session II: Professional – Multi-channel controlled LED systems for biologically active lighting applications Dr. Andreas Roderburg, Manager Research & Development, Vossloh-Schwabe Optoelectronic GmbH & Co KG, Germany
14:00 – 14:30	Business & Application Session I: Residential / Home – Smart Lighting; The Trojan Horse of the Internet of Things Dan Ryan, Co-Founder & CEO, Bytelight, United States	16:00 – 16:30	Technology Session: Cyber physical lighting systems – Lighting control technology Jurgo Preden, Senior researcher, Tallinn University of Technology, Estonia
14:00 – 14:30	Business & Application Session II: Professional – Digital control Charlie Huizenga, Vice President of Innovation, Acuity Brands, United States	16:00 – 16:30	Business & Application Session I: Residential / Home – Human-Centered Lighting: Applied Circadian Lighting in Real Life Settings Dr. Sebastian Schnieder, M.Sc., Research Associate, University of Wuppertal, Germany
14:30 – 15:00	Technology Session: Cyber physical lighting systems – Wireless Light Control Networks: backbone for smart buildings Siebren de Vries, Founder, Chess, The Netherlands	16:00 – 16:30	Business & Application Session II: Professional – Smart Lighting Control as part of Building Management Franz Kammerl, Head System and Room Automation, Siemens Switzerland Ltd., Switzerland
14:30 – 15:00	Business & Application Session I: Residential / Home – Is smart room lighting capable to support spatio-temporal orientation? Prof. Dr. Karl-Heinz Weidmann, Member of faculty staff, University of Applied Science Vorarlberg, Austria	16:30 – 17:00	Technology Session: Cyber physical lighting systems – Adaptive indoor LED lighting and user comfort Dr. Martine Knoop, Lecturer at the Chair of Lighting Technology, Technische Universität Berlin, Germany
14:30 – 15:00	Business & Application Session II: Professional – New shopping experience Karl Jessen, Director, Strategic Innovation Management – NAFTA, OSRAM Sylvania, United States	16:30 – 17:00	Business & Application Session I: Residential / Home – Illumination content for color tunable luminaires Steve Paolini, President, Teledumen LLC, United States
15:30 – 16:00	Technology Session: Cyber physical lighting systems – Next generation connected lighting Dr. Jacob van der Pol, Program Manager Smart Lighting Network Solutions, Business Line Emerging Business, NXP Semiconductors NV, The Netherlands	16:30 – 17:00	Business & Application Session II: Professional – VLC & VLC based Indoor Positioning topics Gerben van der Lugt, Business Development Leader, Philips, The Netherlands
15:30 – 16:00	Business & Application Session I: Residential / Home – Human centric lighting – benefits beyond energy savings Prof. Herbert Plischke, Munich University of Applied Sciences (SSL-erate consortium), Germany	17:00 – 17:30	Business & Application Session II: Professional – The impact of VLC/ LiFi on lighting as a service business model Prof. Dr. Harald Haas, Founder & Chief Scientific Officer, pureLiFi Ltd., United Kingdom

21 May 2015, 08:00 - 20:00, Level 1, Room A8, Level 3, Room M1

<p>08:45 – 09:00 Welcome and opening</p> <p>Ed van den Kieboom, Managing Director InnovationFab Events, The Netherlands</p>	<p>13:30 – 14:00 Application & Business Session IV: Lighting beyond illumination – Illuminating Your IQ, the Smart Lighting Market Today and in the Future</p> <p>William Rhodes, Research Manager, IHS lighting and LEDs group, United States</p>
<p>09:00 – 09:30 Stars and dogs – what makes a successful smart home solution?</p> <p>Bernd Grohmann, Executive Vice President, eQ-3 AG, Germany</p>	<p>14:00 – 14:30 Technology Session: Cyber physical lighting systems – Enabling Rapid Market Growth: Global Standardization for Connected Lighting</p> <p>Tobin Richardson, President & CEO, Zigbee Alliance, United States</p>
<p>09:30 – 10:00 How the Connected Home will become more thoughtful</p> <p>Francois Girodolle, Partner Evangelist – Works with Nest – Europe, Nest Labs</p>	<p>14:00 – 14:30 Application & Business Session III: Smart City – How do you manage city equipment in a smart-city world?</p> <p>Kenneth Aastrup, Managing Director, Citelum, France</p>
<p>10:00 – 10:30 50 shades of grey or a bright future for IOT?</p> <p>Dr. Krisztian Flautner, General Manager, Internet of Things Business, ARM, United States</p>	<p>14:00 – 14:30 Application & Business Session IV: Lighting beyond illumination – Lighting as a service</p> <p>Gordon Feller, Director, Office of the EVP, Cisco, Founder, Meeting of the Minds, United States</p>
<p>11:00 – 11:30 Run Simple with the Internet of Things. Selected innovation scenarios driving real customer value</p> <p>Pascal Prassol, Chief Strategic Architect, Platform Solution Group, SAP Deutschland SE & Co. KG, Germany</p>	<p>14:30 – 15:00 Technology Session: Cyber physical lighting systems – Lighting the way through IoT</p> <p>Dr. Christian Moorman, Head of global technology. Tridonic, Austria</p>
<p>11:30 – 12:30 Visionary panel discussion with William Rhodes, Research Manager, IHS lighting and LEDs group, US, and Klaus Huhn, Vice President of Consulting and Head of German Operations, Frost & Sullivan</p>	<p>14:30 – 15:00 Application & Business Session III: Smart City – Urban Lighting – key infrastructure in the Smart City</p> <p>Dr. Flemming Madsen, CEO, DOLL National Green Lab for Lighting & Photonics, Denmark</p>
<p>13:30 – 14:00 Technology Session: Cyber physical lighting systems – OpenAIS – Development and Validation of an open system architecture for Internet connected lighting for professional buildings</p> <p>Dr. Stefan Verbrugh, Project Manager, Philips Lighting, The Netherlands</p>	<p>14:30 – 15:00 Application & Business Session IV: Lighting beyond illumination – Integrating Smart Lighting in Best-of-Breed Smart Home Solutions</p> <p>Marcus Getta, Head of Innovation Management, Thüga Aktiengesellschaft, Germany</p>
<p>13:30 – 14:00 Application & Business Session III: Smart City – Humble Lamppost – Integrated smart street lighting</p> <p>Prof. Dr. Lutz Heuser, Chief Technology Officer, Urban Software Institute, Germany</p>	<p>15:30 – 16:00 Technology Session: Cyber physical lighting systems – Pulling it all Together</p> <p>John Sayer M.Eng, CSE, Senior Project Develop- ment Engineer, Technology Projects, Building Efficiency, Johnson Controls, United States</p>

15:30 – 16:00 **Application & Business Session III: Smart City – New concepts for Street Lighting demonstrated on the LED-Walkway in Berlin**

Prof. Dr. Stephan Völker, Head of Lighting Technology, TU Berlin, Faculty Energy and Automation technology, Germany

15:30 – 16:00 **Application & Business Session IV: Lighting beyond illumination – IT in Smart Cities**

Albert Seubers, Head of Global Strategy and Business Development, ATOS, The Netherlands

16:00 – 16:30 **Technology Session: Cyber physical lighting systems – Smart Lighting Solutions as a catalyst for Smart Cities**

Dr. Ir. Elke den Ouden, TU/e Fellow New Business Development in Public-Private Value Networks, Intelligent Lighting Institute Technical University Eindhoven, The Netherlands

16:00 – 16:30 **Application & Business Session III: Smart City – Do technological developments meet customer demands?**

Dr. Matthias Hessling, Managing Director and Chairman of the Management Board, SWARCO V.S.M. GmbH., Germany

16:00 – 16:30 **Application & Business Session IV: Lighting beyond illumination – The ‘Winners’ in the IoT space**

Brian McGuigan, European Commercial Director of Smart Cities and Lighting, Silver Spring Networks, United States

16:30 – 17:00 **Technology Session: Cyber physical lighting systems – Effect of smart control on the performance of LED street lights**

Prof. Erkki Ikonen, Professor, Aalto University, Finland

16:30 – 17:00 **Application & Business Session III: Smart City – Walkway lighting**

Andre ten Bloemendal, CCO, LEDNed, The Netherlands

16:30 – 17:00 **Application & Business Session IV: Lighting beyond illumination – Ambient Light Guiding System for the Mobility Support of Elderly People (Guiding Light)**

Markus Laner MSc., Project Manager, Bartenbach GmbH, Austria



07 Smart Sensing 2015

The Smart Sensing 2015 Conference is taking a strategic view where sensor technologies, and sensor networks could make a difference in enhancing solutions and services to improve living, working, and entertainment conditions in a human centred way, i.e. to improve conditions in human health, safety & security as well as in comfort & well-being.



Smart Sensing 2015 Conference will focus on aspects of “ambient intelligence” to be covered in the commercial environment [smart offices, hotels, cities, etc.], as well as in residential areas [smart homes] and the mobility area [planes, boats, trains, cars, etc.]. This is a challenge and opportunity alike for all stakeholders involved!

Language: English

Host: InnovationFab Events BV

21 May 2015, 08:00 - 20:00, Level 3, Rooms M1, Level 1, Room A8

08:45 – 09:00 **Welcome and opening by the Conference Director**

Ed van den Kieboom

09:00 – 09:30 **Stars and dogs – what makes a successful smart home solution?**

Mr. Bernd Grohmann, Executive Vice President, eQ-3 AG, Germany

09:30 – 10:00 **How the Connected Home will become more thoughtful**

Dr. Francois Girodolle, Partner Evangelist – Works with Nest – Europe, Nest Labs, France

10:00 – 10:30 **50 shades of grey or a bright future for IOT?**

Dr. Krisztian Flautner, General Manager, Internet of Things Business, ARM, United States

11:00 – 11:30 **Run Simple with the Internet of Things. Selected innovation scenarios driving real customer value**

Pascal Prassol, Chief Strategic Architect, Platform Solution Group, SAP Deutschland SE & Co. KG, Germany

11:30 – 12:00 **Visionary panel discussion with William Rhodes, Research Manager, IHS lighting and LEDs group, US, and Klaus Huhn, Vice President of Consulting and Head of German Operations, Frost & Sullivan**

13:30 – 14:00 **Sensing and the Internet – future of IoT**

Mikko Saarnivala, Vice President of Technology, ARM Finland

14:00 – 14:30 **Beyond Occupancy Detection, Smart Sensors the enablers of tomorrow's Lighting**

Dr. Bernard Siesegger, Director of CT RI Technology, OSRAM GmbH, Germany.

14:30 – 15:00 **Sense – Think – Connect – Act; Smart Sensors enabling the IoT**

Olaf Herr, Head of Product Management, Bosch Connected Devices and Solutions, Germany

15:30 – 16:00 **Retrofitted wireless sensor networks for security & monitoring applications**

Dr. Marko Jurvansuu, Key Account Manager & Principal Scientist, VTT, Finland

16:00 – 16:30 **From Sensors to Smart Systems: The building blocks of the IoT revolution**

Dr. Benedetto Vigna, Executive Vice President, General Manager, Analog, MEMS & Sensors Group, STMicroelectronics, Switzerland

16:30 – 17:00 **The Many Roads to Smart Sensing**

Dr. Wai Lee, TI Fellow, Head of Sensor Team in CTO TF, Texas Instruments, United States.

22 May 2015, 08:00 - 20:00, Level 3, Rooms M1, Level 1, Room A8

08:30 – 09:00 **Optical sensors in organic and plastic electronics for Industry 4.0, Internet-Of-Things, Connected Object and Smart Lighting**

Laurent Jamet, Co-Founder and Director Business Development, ISORG, France

09:00 – 09:30 **Connected Sensors – Next Generation Sensor Fusion**

Dr. Tapani Ryhänen, Head of Business Line, Nokia Technologies, Finland

09:30 – 10:00 **Sensor Market for Mobile Devices and IoT**

Jeremie Bouchaud, Director & Principal Analyst MEMS & Sensors, IHS lighting and LEDs group, Germany

10:00 – 10:30 **Battery-free IoT-Dots, contactless „SensAction“**

Wolf Richter, Co-founder & President, EPIC Semiconductors Inc., United States

11:00 – 11:30 **Smart Sensing needs Smart Design**

Ian Dennison, Solutions Senior Group Director, Custom IC and PCB Group, Cadence Design Systems Ltd., Scotland, United Kingdom

11:30 – 12:00 **Smart Sensing for a connected world**

Michael Tchagaspanian, Sr. Business Development Manager, Leti, France.

12:00 – 12:30 **Mobile affective computing: approaches, applications and perspectives**

Prof. Dr. Jarek Krajewski, Ass. Director Center Interdisciplinary Speech Science, Bergische University Wuppertal, Germany

13:30 – 14:00 **IoT in the Real World: Wireless Sensor Networks and Their Endless Applications**

Javier Martinez, VP Business Development & Sales, Libelium, Spain

14:00 – 14:30 **How can heartbeat sensing help us in our daily life?**

Joni Kettunen, CEO, Firstbeat Technologie, Finland

14:30 – 15:00 **Connected Consumer Products for a healthier lifestyle**

Ralf Lindner, CEO, Medisana, Germany

15:30 – 16:00 **Mesh Networks for Smart City Services**

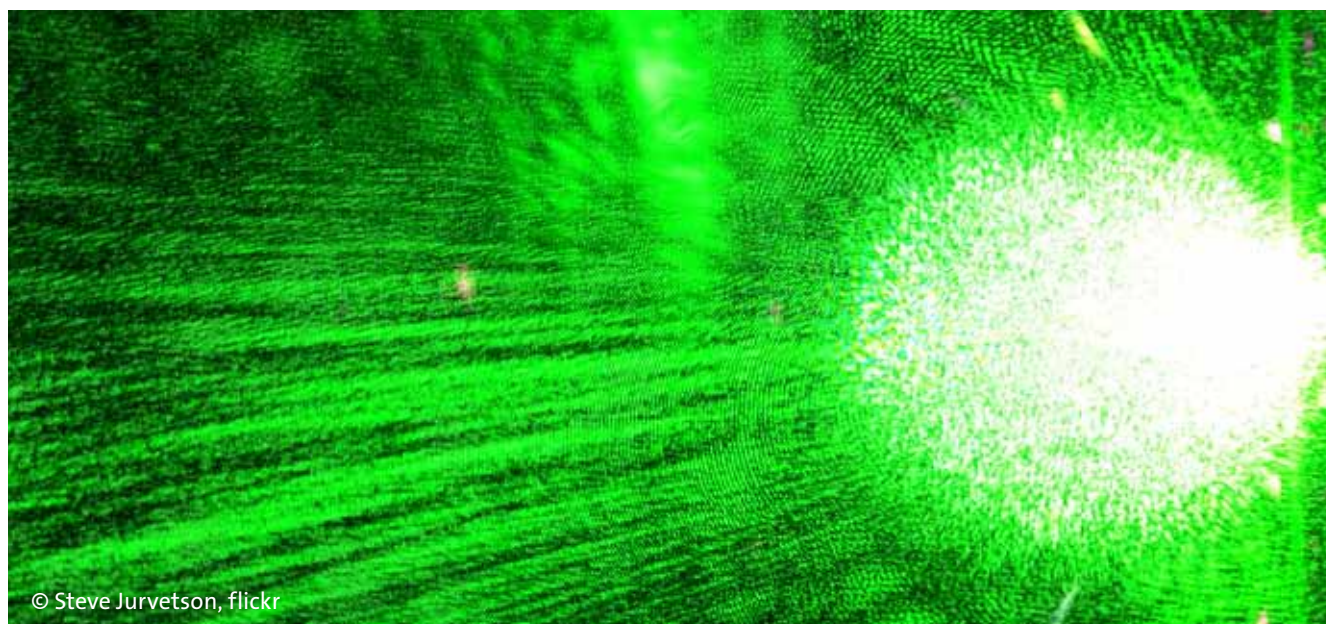
Teppo Hemia, CEO, Wirepas, Finland

16:00 – 16:30 **Smart Textile Stretchable TouchScreens**

Miguel Ridao, CEO, SensingTex, Spain

16:30 – 16:45 **Plenary Closure by Conference Director**

Ed van den Kieboom, Managing Director InnovationFab Events BV, The Netherlands



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08 Electromobility – Globally Connected

Electromobility is a globally relevant topic which is being vigorously promoted in numerous cities and metropolitan areas – notwithstanding all the various approaches to the establishment of electromobility in an urban environment, including varying political and industrial challenges.

On 21 May 2015 the conference will feature talks and presentations by international representatives, who will high-

light their approaches, concepts and best-practice examples. The event will focus on topics like charging infrastructures, logistics and passenger transport, and inform about mobility strategies of selected metropolitan regions.

On 22 May four tours to different electromobility venues will take place with local companies giving visitors a practical, close-up look at the current state of electromobility in Berlin-Brandenburg.

Language: English

Hosts: Berlin Agency for Electromobility eMO and Berlin Partner für Wirtschaft und Technologie GmbH



21 May 2015, 9:30 – 17:45, Level 1, Room A1

10:00 – 10:30 Welcome Speech and Introduction,

- Guido Beermann, State Secretary, Senate Department for Economics, Technology and Research
- ZHANG Guanglian, Deputy Director General, Beijing Municipal Commission of Science & Technology

10:30 – 11:00 Electromobility made in Berlin-Brandenburg, Gernot Lobenberg, Director, Berlin Agency for Electromobility eMO

11:00 – 12:30 Best Practice and Trends in Charging Infrastructure

Pecha Kucha and panel discussion “Potential and Development of Demand in Urban Space”

- Silvana Di Matteo, Head of Research and Energy Innovation Unit, Region of Lombardy
- Christian Hochfeld, Senior-Advisor Sustainable Transport, Water, Energy, Transport Department, GIZ GmbH
- Hartmut Stiller, Head of Innovation Development eMobility, Vattenfall Europe Innovation GmbH
- Thomas Daiber, Managing Director, Hsubject GmbH

- Dr. Frank Pawlitschek, Managing Director, ubitricity Gesellschaft für verteilte Energiesysteme GmbH
- Thomas Daiber, Managing Director, Hsubject GmbH

Moderation: Johannes Eisele, Project Manager Energy, Charging Infrastructure & ICT, Berlin Agency for Electromobility eMO



13:30 – 14:30 Best Practise and Trends in Electric Freight Transportation/Logistics

Pecha Kucha and panel discussion “e-Freight Transportation and e-Logistics – Quo Vadis”
Werner Schönewolf, Head Transport Management Systems, Fraunhofer IPK

- Mark Simon, Director, Alternate Fuel Programs, New York City Department of Transportation New York
- Christian Rudolph, Research Associate, German Aerospace Center (DLR) Institute for Transport Research

Moderator: Frank Panse, Project Manager Freight Transportation, Berlin Agency for Electromobility eMO

14:30 – 15:30 Cities Approach in Sustainable Mobility

- Solveig Schytz, Norwegian Capital Region Akershus
 - Art van der Giessen, Project Manager Electric Vehicles, Amsterdam electric
 - Mark Simon, Director, Alternate Fuel Programs, New York City Department of Transportation, New York
 - Mr. CHEN GuiRu, Deputy Director of Beijing New-Energy Vehicle Development and Promotion Center
-

16.00 – 17.30 Best Practice and Trends in Passenger Transportation

Pecha Kucha and panel discussion „“Who owns your vehicle?” – New Approaches for Urban Traffic Challenges”

- Kåre Albrechtsen, Head of EV Secretariat, Copenhagen electric
- Claire Souet, Chargée de mission PDU et déplacements, Unité aménagement durable, Direction des transports, Region Île-de-France
- Christian Scherf, Platform eMobility, InnoZ GmbH
- Nathalie Granes, Chef du service Stratégie des Déplacements et Ecomobilités, Direction des transports, Région Île-de-France
- Dr. Michael Schlick, Manager Public Projects, Bosch Software Innovations GmbH
- Prof. Dr. Dietmar Göhlich, Coordinator Research Network Electromobility, TU Berlin

Moderation: Frauke Fischer, Project Manager Passenger Transportation, Berlin Agency for Electromobility eMO

17.30 – 17.45 Formel E

22 May 2015, 9:45 – 16:30, Level 1, Room A1

9:45 – 16:30 Site Visits (see Excursions, p.29)



09 Smart Cities – Needs & Barriers

Cities around the world are facing societal growth challenges, which will cause urban areas to grow expansively in the next 5 to 10 years. The demand on transport & mobility, energy supply, and other public services and distribution will require cities to act by improving their infrastructures to make them more efficient and responsive to citizen's needs.

At the same time, mobile access and the Internet of Things has emerged in the city leading to a large number of ICT-based components deployed in the city infrastructures. On this conference, representatives of cities and industries both will provide insight into needs & barriers to make cities even smarter to meet upcoming demands, such as open urban platforms, integrated urban planning & operation.

Language: English

Host: Urban Software Institute ([ui!] – the urban institute ®), InnovationFab Events BV,

Partners: BITKOM, Berlin Partner

Sponsors: Microsoft, Siemens, Oracle, highQ, SAP, SKILLsoftware, Audi, Huawei, Vodafone



20 May 2015, 9:30 – 18:00, Level 3, Room M8

- 9:30 – 9:45** **Opening and Welcome**
- Winfried Holz, CEO Atos Deutschland,
Member of the Board of BITKOM
-
- 9:45 – 10:00** **Disrupting the urban space – a city perspective**
- Dr. Stefan Franzke, Managing Director,
Berlin Partner
-
- 10:00 – 10:30** **City Next – overcoming the „Chasm“**
- Dr. Marianne Janik, Member of the
Management Board, Microsoft GmbH
-
- 11:00 – 12:00** **Panel: Smart City Use Cases – Towards Sustainability**
- Smart City Innsbruck**
Dr. Harald Gohm, Managing Director,
Standortagentur Tirol, Innsbruck
- Smart City Stockholm**
Gustaf Landahl, Head of Department, City of
Stockholm and Coordinator of GrowSmarter
- Smart City Cologne**
Dr. Barbara Möhlendick, Climate Coordinator,
City of Cologne
- Moderator:** Prof. Dr. Lutz Heuser, CTO [ui!] the
urban institute
-
- 12:00 – 12:30** **Improve a City's competitiveness through the Reinforcement of critical infrastructure safety and security**
- Peter Loeffler, Head of Innovation & Industry
Affairs, Siemens Building Technologies
-
- 12:30 – 13:00** **Audi Urban Future Initiative: Rethinking urban mobility**
- Lisa Fütting, Project Lead, Audi Urban Future
Initiative
-
- 14:00 – 14:30** **The Application Platform for Intelligent Mobility (AIM)**
- Prof. Dr. Frank Köster, Deutsches Zentrum für
Luft und Raumfahrt, Braunschweig
-
- 14:30 – 15:00** **Making Connected Mobility a Reality: how Stuttgart Services combines intermodal, multimodal and electromobile travel options**
- Christophe Fondrier, MD and Co-Owner, highQ
Professional Services GmbH

- 15:00 – 15:45** **Panel: Smarter City Use Cases – Innovation**
- Smart City Start-up Tel Aviv**
Hila Oren, Founder & CEO, Tel Aviv Global
- Smart City Lleida**
Josep Clotet, CEO, Parc Científic i Tecnològic
Agroalimentari de Lleida
- Moderator:** Prof. Dr. Lutz Heuser, CTO [ui!] the
urban institute
-
- 16:15 – 16:30** **Panel: Smarter City Use Cases – Integration**
- Smart City Munich**
Klaus Illigmann, Department of City Planning,
City of Munich
- Smart City Timisoara**
Dan Diaconu, Vice Mayor, City of Timisoara
- Moderator:** Prof. Dr. Lutz Heuser, CTO [ui!] the
urban institute
-
- 16:30 – 17:00** **Innovative Mobility Services in-side Buildings – The SQUAIRE and more**
- Edgar Reh, Managing Director, SKILLSSoftware
GmbH
-
- 17:00 – 17:30** **Innovative ICT – Building a Better Smart City**
- Joe So, CTO Industry Solutions, Huawei Technologies
 - Andreas Bothe, Senior Consultant, Vodafone GmbH
-
- 17:30 – 18:00** **Smart Traffic – Towards sustainable mobility**
- Norbert Koppenhagen, SAP



10 Sustainable Urban China

The Sustainable Urban China Conference is organized by ICLEI with the support of HEXUN Consulting and the GIZ (German Federal Enterprise for International Cooperation) on behalf of the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety. The aim of the conference is to establish connections between local government representatives and the

private sector from China, Germany and around the world to enhance their cooperation concerning sustainable urban development. Workshops will supplement the dialogue-oriented conference program with concrete opportunities for knowledge exchange and training. In addition to the conference, Lounge Talks in small and informal groups will be organized in the ICLEI Lounge.

Language: English, Chinese and German

Host: ICLEI – Local Governments for Sustainability e.V.

Partners: HEXUN Consulting, German Federal Enterprise for International Cooperation (GIZ), German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB), Chamber of Commerce and Industry of Berlin, World Green Design Association (WGDO), Green Building Berlin, Chinese Association for Renewable Energy in Germany e.V (CEED) and Design-all.



20 May 2015, 9:30 – 18:00, Level 3, Rooms M1 and R3, ICLEI Lounge

9:30 – 10:00 Opening Key Notes

- Han Aixing, Deputy Director General, Department of Energy Efficiency in Buildings, Science and Technology, Ministry of Housing and Urban-Rural Development
- Franzjosef Schafhausen, Director General, Climate Policy, European and International Policy, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

Moderator: Dr. Vera Rodenhoff, Head of Division, International Affairs for “Environment and Energy” and “Environment, Building and Urban Development”, OECD and Cooperation with OECD-Countries, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

10:00 – 11:15 Urbanization in China and Sustainable Urban Development

- Li Hailong, Deputy Director, Chinese Society for Urban Studies, Beijing China
- Yang Chengkui, Deputy Secretary-General, Zhangjiakou municipal people’s government, China
- Chu Mingxing, Deputy Mayor, Haimen Municipal People’s Government
- City of Guangzhou (Guangzhou Innovation Awards)

Moderator: Zhu Shu, Regional Director and ICLEI China Representative, ICLEI East Asia, Seoul, Republic of Korea, and Beijing, China

11:15 – 12:30 City Partnerships for Sustainable Urban Development

- Lina Furch, City of Bonn, Germany
- Yang Yonghong, Deputy Director-General of Development and Reform Bureau of Jinjiang District, Chengdu, China
- Yang Zhonghua, Division Chief of Policy Research Office of CPC Chengdu Committee, Chengdu, China
- Michael Sands, Deputy Director of International Relations Unit, Dublin City Council, Ireland
- Mark Schneider, City of Birmingham, UK

Moderator: Dirk Rommeney, Germanwatch, Berlin, Germany

14:00 – 15:00 Workshop Green Buildings and Planning

- Han Aixing, Deputy Director General, Department of Energy Efficiency in Buildings, Science and Technology, Ministry of Housing and Urban-Rural Development
- Stephan Anders, German Sustainable Building Council (DGNB)
- Climate KIC, European Institute of Innovation and Technology
- Jennifer Lakey, World Resources Institute, Building Energy Accelerator
- Prof. Dr. Dirk A. Schwede, energydesign (Shanghai) Co. Ltd.; DGNB Auditor
- Prof. Peter Ruge, Peter Ruge Architect office; and WGDO Green building expert

Moderator: Dr. Vera Rodenhoff, Head of Division, International Affairs for “Environment and Energy” and “Environment, Building and Urban Development”, OECD and Cooperation with OECD-Countries, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

15:00 – 16:00 Workshop Education for Sustainable Construction

Language: German & Chinese

- Prof. Buckhard Held, Berlin University of Arts and Chinese-German Academy of Arts
- Tanja Reith, ZSW – International Office, Hochschule Hannover – University of Applied Sciences and Arts
- Johannes Freise, German Energy Center and College
- Jochen Noth, API – Asian Pacific Institute
- Patricia Henkel, International Trainings China, FORUM Berufsbildung e.V.

Moderator: Zhang Lei, HEXUN Consulting

16:00 – 17:00 Workshop Building Information Modeling

Language: German & Chinese

- Mattias Pfeier, RKW Architektur+ Städtebau
- Hans-Georg Oltmanns, DhochN
- Regina Zeitner, HTW Berlin

Moderator: Dr. Beate Wolf, GREEN BUILDING BERLIN and Xu Ning, World Green Design Organization (WGDO)

17:00 – 18:00 Workshop Smart Energy

Dong Zhaojie, National Renewable Energy Information Administration, Deputy Director, SGRI Europe GmbH

Moderator: Liao Yu, Chairman, CEED- Chinese Association for Renewable Energy in Germany e.V.

11

Best Practice Urban Telematics: Mobilitätsmanagement – Praxis oder Vision?

The purpose of the conference is to demonstrate the potential advantages of networking various transport organizations on the basis of practical solutions. The Luxembourg model illustrates the benefits of a transport system that operates within a transnational network.

Language: German

Host: TelematicsPro e.V.



22 May 2015, 10.00 – 17.15, Level 3, Room M7

10:00 – 10:10 Begrüßung

Michael Sandrock, Vorsitzender Telematics PRO e.V.

Themenblock 1, Die Praxis: aktueller Leuchtturmprojekte

10:10 – 10:30 Keynote Highlights in der wissenschaftlichen Fachliteratur

Dr. Axel Garbers, Leiter Technik Springer Vieweg Verlag

10:30 – 10:50 Vortrag Grenzüberschreitendes papierlose und fälschungssicheres Ticketing mit der M-Ticket App

Gilles Dostert, Geschäftsführer Verkeiersverband Luxembourg

10:50 – 11:10 Vortrag Mobilitätsinformation und Verkehrsmanagement am Beispiel "Vielmobil"

Rüdiger Bernhard, Prokurist ivm GmbH

11:10 – 12:00 Fishbowl Diskussion Mobilität – Chance oder Plage?

- Dr. Axel Garbers,
- Gilles Dostert
- Rüdiger Bernhard

Moderator: Markus Wartha, Vorsitzender ITS Berlin Brandenburg

Similarly, the collective invoicing of services across the publicly owned transport network ivm, which serves the entire Rhine-Main region, is an example of best practice that can be applied to municipal authorities and has proven to increase Efficiency.

Themenblock 2, Die Zukunft: Visionen und Wege

13:30 – 14:00 Keynote Urbane Mobilität von Morgen – Verkehrskollaps oder Fahrvergnügen?

Prof. Andreas Knie, Geschäftsführer InnoZ GmbH

14:00 – 14:20 Vortrag Verkehrsmanagement mit Incentivierung – der Schlüssel zur Stauvermeidung?

Thomas Hornig, Vorstand ZEITMEILEN AG

14:20 – 14:40 Vortrag Wie wird "Smart City" zum Erfolgsmodell?

Prof. Dr. Michael Ortgiese, Fachgebiet FH Potsdam

14:40 – 15:00 Vortrag Mit Digitalisierung und Vernetzung zu Smarter Cities?

Vodafone GmbH

Themenblock 3, Die Preisverleihung: Wettbewerb 2014/2015

15:30 – 15:50 Keynote Kommunen als Innovationsträger

Franz-Reinhard Habel, Pressesprecher DStGB

15:50 – 16:00 Einführung Jury, Verfahren und Preisträger

Michael Dinter, ITS Hessen

16:00 – 16:40 Kurzpräsentationen

16:40 – 17:10 Preisverleihung Übergabe der Preise durch den Regierenden Bürgermeister von Berlin

Michael Müller, Regierender Bürgermeister von Berlin

17:10 – 17:15 Abschluss Zusammenfassung und Ausblick auf den Wettbewerb 2015/2016

Michael Sandrock, Vorsitzender Telematics PRO e.V.

12 Baumeister Topos Cities Initiative, City as project: How to create resilient, mobile, creative, open urban spaces?

The urban future is a much-discussed issue. Questions of designing and planning for urban challenges are always part of the diverse topics featured in Topos. The same applies for our sister magazine Baumeister, the German architectural magazine. In this context, the Baumeister & Topos Cities Initiative, an international, cross-cultural, cross-disciplinary ini-

tiative will bring together the competencies the two journals represent: landscape architecture and architecture, urban design, and planning and development in a broad social context. The first event of this initiative is the one-day conference Instead of offering a very generic “good ideas for cities” programme, we wish to highlight four issues that we perceive as being indicative of any future urban development.

Language: English

Host: Callwey Verlag

Partners: Baumeister – das Architektur-Magazin

Sponsors: Obermeyer Planen + Beraten GmbH, ZF Friedrichshafen AG

BAUMEISTER TOPOS
CITIES
INITIATIVE



**BAU
MEISTER**



OBERMEYER

22 May 2015, 9:15 – 19:00, Level 1, Room A1

9:15 – 9:30	Greeting: Prof. Dr. Alexander Gutzmer, Chefredakteur Baumeister
9:30 – 11:00	Resilient City
9:30 – 10:15	Martin Knuijt, OKRA Landscape Architects, Rotterdam
10:15 – 11:00	Gena Wirth, SCAPE / LANDSCAPE ARCHITECTURE, New York
11:20 – 13:30	Mobile City
11:20 – 11:30	Pecha Kucha ZF
11:30 – 12:00	Kees Christiaanse, Professor at the ETH Zürich, FCL Singapur, KCAP Architects & Planners, Rotterdam und Zürich

12:00 – 13:30	Panel discussion “Future of Mobility”
15:00 – 17:15	Creative City
15:00 – 15:30	Karsten Schmitz, Initiator Creative Quarter Leipzig
15:30 – 16:00	Urs Kumberger, Teleinternet Cafe, Berlin
16:00 – 16:30	Freek Persyn, 51N4E Architects, Brüssel
16:30 – 17:15	Clark Parsons, Berlin School of Creative Leadership
17:45 – 19:00	Open City Richard Sennett, sociologist, London School of Economics, New York University

13 Boosting start-ups and SMEs for smart urban mobility – linking accelerators and cities

This conference will take place on 22 May 2015 in Berlin back to back with the annual meeting of the European Innovation Partnership for Smart Cities and Communities. It will bring together around 150 participants from SME accelerators/innovation hubs, sponsoring companies, start-ups, innovation agencies, city halls and other actors of relevance in the fields of smart urban mobility and power.



Main topics to be covered through panel discussions and working groups include:

- How to best accelerate start-ups: what lessons have we learnt?
- Opportunities for collaboration between accelerators: greater impact in Europe?
- How to improve the business environment in cities? What kind of support is needed?
- What is the value added of action at a European level?

Language: English

Hosts: European Commission - DG Energy

22 May 2015, 8:30-17:30, Level 3, Rooms M2 and M3

9:30 – 9:50 **Welcome remarks**
Andreja Kodrin, Member of Cabinet Bulc, Commissioner for Transport, European Commission

9:50 – 10:20 **Role of technology in transportation and the collaboration ahead**
Robin Chase, founder Zipcar, Buzzcar, Veniam

Accelerating start-ups in smart mobility and energy: lessons learnt and challenges in Europe

Alex Farcett, co-founder StartupBootcamp

10:20 – 11:20 **Panel: Opportunities for collaboration between early stage investors in smart mobility and transport – what is possible? What is needed?**

- Robin Chase, Buzzcar/Zipcar Veniam
- Alex Farcett, Startupbootcamp
- Nicholas Goubert, Nokia/Here
- Alexander von Richter, Ecomobility ventures

11:45 – 12:00 **How to create the right support framework in a city?**

Gert Blom, City of Helmond

12:00 – 13:00 **Panel: Needs and challenges for innovative start-ups and SMEs and opportunities for support actions at city level**

- Gert Blom, City of Helmond
- Dejan Roljic, ABC Accelerator
- Frederic Mazzella, BlablaCar
- Malte Metzger, myBus
- Patrick Anderson, Business Region Göteborg AB

13:00 – 13:15 **Morning wrap-up**

14:15 – 15:45 **World Cafes**

- Opportunities for collaboration
- Policy links

16:15 – 17:15 **Plenary: presentation and discussion about needs for scaling up**

17:15 – 17:30 **Wrap-up**

14 Innovative Solutions for Cities – Between Research & Practice, ISOCARP Workshop

Cities are the place of economic production, knowledge and innovation – together with connectivity, creativity and services. As cities are dense, they offer also high potentials for energy savings and low carbon economies. However, cities are also today confronted to several challenges: unemploy-

ment, segregation, climate change issues. How does cities make use of these potential to use the creativity and knowledge to answer today's challenges. The Workshop will focus on innovative solutions for cities, by bridging the gap between research and practice.



ISOCARP
Knowledge for better Cities



Microsoft



Language: English

Host: The International Society of City and Regional Planners (ISOCARP)

Partners: CORP – Kompetenzzentrum für Stadtplanung und Regionalentwickl. Verein zur Förderung und Erforsch. der Stadtplanung und Regionalentw, Microsoft, Doppelmayr

21 May 2015, 9:00 – 14:00, Level 3, M5

9:30 – 9:40 **Welcome and Introduction**

Prof. Dr. Dirk Engelke, ISOCARP

Bridging Research and Practice in Technology for innovative Solutions for Cities

9:40 – 10:00 **Innovative Solutions for Infrastructure**

Valentine Agid-Durudaud, Director, Urban Division GDF-SUEZ

10:00 – 10:20 **Innovative Solutions for Housing**

Dr. Francois Perrot, Lafarge, Affordable Housing Project

10:20 – 10:40 **Innovative Solutions in Urban Planning**

Martin Dubbeling / Nicole Wirz, Urban Planners ISOCARP

10:40 – 11:00 **Innovative Solutions in Engineering**

Bernd Müssig, Dorsch Consult GmbH

11:00 – 11:30 **Podium Discussion**

Prof. Dr. Dirk Engelke, ISOCARP

Bridging Research and Practice in Management for innovative Solutions for Cities

11:30 – 11:50 **Innovative Solutions for Finance**

Brian Field, Senior Economist, European Investment Bank

11:50 – 12:10 **Innovative Solutions in Governance**

Mayors of Rotterdam or Durban

12:10 – 12:30 **Innovative Solutions in IT**

David Burrows, Managing Director, EMEA Government Microsoft

12:30 – 12:50 **Podium Discussion**

Dr. Joachim Richter

12:50 – 13:00 **Conclusions: Is Technology or Management bridging Research and Practice?**

Prof. Dirk Engelke, ISOCARP, Dr. Joachim Richter

15 Workshop Plan IT Smart – Clever Solution for Smart Cities

“Smart Cities” has become a widely used term for the implementation of information and communication technologies (ICT) into the processes of cities and the built environment, aiming to improve the integration of the physical assets as well as social and environmental capital. Fired by several rankings there seems to be a competition for the title of the Smartest City. This kind of hype raises a lot of questions that the workshop will deal with. The focus will be on the role of urban and transport planning. The workshop shall provide an exchange of knowledge on current topics such as:

- What does Smart City mean in terms of quality of life?
- How does it influence the economic perspectives?
- Are the concepts of sustainability and resilience part of Smart Cities?
- What about politics and administration, policies and governance?
- How do Smart Solutions influence the “hardware” of a city, the urban fabric?
- What is the role of urban/spatial planning in and for Smart Cities?



ISOCARP
Knowledge for better Cities



Microsoft



Doppelmayr®

Language: English

Host: CORP – Kompetenzzentrum für Stadtplanung und Regionalentwickl. Verein zur Förderung und Erforsch. der Stadtplanung und Regionalentw.

Partners: The International Society of City and Regional Planners (ISOCARP), Microsoft, Doppelmayr

21 May, 14:00 – 17:00, Level 3, Room M5

14:00 – 14:20 Introduction to "Smart Cities" – just a buzzword or real improvement of quality of life?

Prof. Beniamino Murgante

14:20 – 14:50 Smart City Vienna

Pia Hlava, City of Vienna

14:50 – 15:20 The urban Cable Car in urban planning

JMarc Funda, Doppelmayr

15:20 – 15:40 Smart Cities Challenges and Technologies

Gordon Feller, Head Urban Development, CISCO

15:40 – 16:00 Smart Cities Solutions

Büro Happold Consulting, Berlin

16:00 – 16:20 „Smart Cities“ from a planning perspective

Dr. Jan-Philipp Exner, TU Kaiserslautern

16:20 – 17:30 Moderate Discussion on smart cities and Panel discussion

- Dr. Peter Zeile, TU Kaiserslautern
- Dr. Jan Exner, TU Kaiserslautern
- Manfred Schrenk, CORP Austria



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16 Smart Options 2015: Energy Efficiency Yield

The Smart Options 2015 Conference is taking a strategic view how disruptive applications in energy efficiency enable citizens, mayors and district administrators to optimize the carbon footprint in metropolises and rural areas. Solutions from the German Energiewende can build templates and new business models for communities to drop the carbon footprint. Smart Options 2015 Conference will focus on five aspects of energy efficiency to benchmark the success stories of future actions between cities and rural areas:

- heating consumption in buildings
- electric power consumption in buildings
- waste
- water and sewage water
- media

Bloomberg news will moderate an extended dialogue between the panel of speakers and the audience to create some sustainable bullet points for an agenda to validate actions in the following years.



Language: English
Host: green with IT e.V.
Partners: EnOcean alliance, Bloomberg, GFZ, EMBIX, achelos, Kiebac&Pete, Value 5 GmbH

22 May, 2015, 8:30 - 16:00, Level 3, M8

9:00 – 10:00 Welcome and introduction

- Stefan Nicola, Bloomberg News, New York
- Jörg Lorenz, green with IT Berlin-Brandenburg

Infrastructure 1: Graham Martin, energy harvesting evangelist, EnOcean alliance USA

Energy harvesting: infrastructure to support climate change

Infrastructure 2: Prof. Ernst Huenges, Deutsches Geo Forschungszentrum Potsdam

City 4 D – heat supply and storage options

Infrastructure 3: Eric L'Helguen, CEO EMBIX, Advancity Cluster Paris Région

Smart Grids and Smart Cities' Objectives

10:00 – 10:30 Panel: options for mayors and energy providers

Moderator: Stefan Nicola, Bloomberg News

11:00 – 11:20 Smart city data safety & security: self-determination and consumer acceptance

Dr. Lutz Martiny, safety & security ambassador, achelos GmbH, chairman KF 5

11:20 – 11:40 Disruptive wind-to-heat storage concepts in German practice

Hans Symanczik, energy efficiency evangelist, Chairman KF 2

11:40 – 12:00 Disruptive work@home infrastructure in German practice

Thomas Dehler, work@home evangelist, Value 5 GmbH, Chairman KF 3

12:00 – 12:20 Disruptive chip technology, fresh api's and mobile app's for new

Jörg Hofmann, mobility evangelist, BSC Computer GmbH, Chairman KF 4

12:20 – 13:00 Panel & audience: conclusion, discussion with the speakers about five topics

14:00 – 16:00 Matchmaking

17 Morgenstadt: Urban Innovation Summit



Facilitated by the German Fraunhofer-Society, the Innovation Network “Morgenstadt: City Insights” is comprised of high-level first movers working in the field of urban sustainability in Europe and around the world. Using leading-edge innovation management methodologies, Morgenstadt aims to develop and implement socio-technical innovations for the city of the future. “Morgenstadt: City Insights” focuses on the interplay of innovations, business models, and governance

approaches for sustainable urban development. The fundamental goal of the network is to accelerate development that helps reduce energy and resource consumption while also enhancing the liveability and prosperity of a city. The “Morgenstadt: Urban Innovators Summit” is an open event with presentations on urban innovations by experts from cities, industry and applied research, and the opportunity to engage for new alliances and urban development projects.

Language: English

Host: Fraunhofer-Institut für Arbeitswirtschaft und Organisation (IAO)

Partners: Cadfem GmbH, Dow Europe GmbH, Drees & Sommer AG, Esri Deutschland GmbH, Loglay, Malik Management Zentrum St. Gallen AG, OSRAM Licht AG, Pöyry Deutschland GmbH, Robert Bosch GmbH, SAP AG, SBA GmbH, Schüco International KG, Stadtwerke Düsseldorf, SWARCO AG, Urban Software Institute GmbH & Co. KG, TÜV Süd AG, Fraunhofer-Institut für Arbeitswirtschaft und Organisation IAO, Fraunhofer-Institut für Bauphysik IBP, Fraunhofer-Institut für Fabrikbetrieb und –automatisierung IFF Fraunhofer-Institut für Grenzflächen- und Bioverfahrenstechnik IGB, Fraunhofer-Institut für Materialfluss und Logistik IML, Fraunhofer-Institut für Offene Kommunikationssysteme FOKUS, Fraunhofer-Institut für Produktionstechnik und Automatisierung IPA, Fraunhofer-Institut für System- und Innovationsforschung ISI Fraunhofer-Institut für Umwelt-, Sicherheits- und Energietechnik UMSICHT, Fraunhofer-Institut für Windenergie und Energiesystemtechnik IWES, City of Berlin, City of Bottrop, City of Chemnitz, City of Düsseldorf, City of Köln, City of Ludwigsburg, City of Norderstedt, City of Prague, City of Lisbon, City of Heilbronn



22 May, 2015, 10:00 – 17:00, Level 3, Room M6

10:00 – 10:15 **Welcome & introduction: challenges of urban innovation**

Alanus von Radecki, Fraunhofer IAO, Project Leader “Morgenstadt: City Insights”

10:15 – 10:30 **Session 1: Smart Solutions for sustainable cities (Innovation pitches)**

- Jörg Kupferschläger, OSRAM Licht AG, Head of Application Business Development Outdoor ELAMEA
- Robert Bosch GmbH

11:00 – 11:50 **Session 2: Planning Tools for the city of the future (Innovation Pitches)**

- Paul Schindler, SAP UK Ltd., IBS Urban Matters & Public Security
- Prof. Dr. Gerd Buziek, Esri Deutschland GmbH, Director Communications & Public Affairs
- Dr. Stefan Trometer, Cadfem GmbH, New Business Development – Digital City
- Dr. Lutz Ross, virtualcitySYSTEMS GmbH, Division Manager Geospatial Solutions

12:15 – 13:00 **Session 3: Infrastructure and district concepts of tomorrow (Innovation Pitches)**

- Gregor Grassl, Drees & Sommer AG, Head of Green City Development
- SBA GmbH
- Ralf Teuchert, Pöyry Deutschland GmbH, Area Sales Manager South Germany

13:45 – 14:45 **Session 4: How cities innovate**

City of Ludwigsburg: Living lab as industry municipal alliance

Tobias Großmann, Stabsstelle Nachhaltige Stadtentwicklung Ludwigsburg

City of Prague: Development approach & project potential

Jaromir Hainc, Vice head of IPR

City of Eindhoven: Development approach & project potential

Henk Kok, Smart City Manager Eindhoven

14:45 – 15:30 **Session 5: Roadmap and Networking Overview on national and European funding schemes**

Nora Fanderl, Project Manager Morgenstadt: City Insights

- Presentation Project Agency 1
- Presentation Project Agency 2

15:30 **Networking Café and Bar Camp with speakers (open end)**



18 Workshop: Comparing e-buses

Mobile cities need intelligent public transport systems. Often, expensive light rail or underground solutions are not technically possible or financially affordable. The perfect solution for this dilemma is the modern e-bus. Which technical system is best suited to replace the diesel motor for public transport purposes? How substantial have recent technological advances been?

Find out the answers and gain other valuable insights at the free workshop. trolley:motion has been at the forefront of e-bus technology development for many years. By attending the workshop you will learn first-hand all of the findings from the recent 4th International e-Bus Conference 2014:

- Fuel cell technology
- Plug-in hybrid-buses
- Trolleybuses and related technologies



Language: German

Host: trolley: motion

20 May 2015, Level 3, Room M6, 14:00 – 18:00

14:00 – 14:15 Opening and welcome

KR Gunter Mackinger, Salzburg

14:15 – 15:15 Fuel cells: When will the future arrive?

Jens Conrad, Regionalverkehr Köln

16:00 – 16:30 Battery buses and plug-in technology: The capacities of batteries as limiting factors for bus range

Harald Schulte, Stadtwerke Osnabrück AG, Planung Bus

16:30 – 17:00 Trolley technology and similar systems: Refining a timeless technology

Stefan Rutscher, Barnimer Busgesellschaft, Eberswalde; KR Gunter Mackinger, Salzburg, Trolley- und E-Busse allgemein

17:00 – 17:20 Electric traction for buses – yes, but which system? An overview!

Dipl. Ing. Fabian Bergk, Ifeu- Heidelberg

17:20 – 18:00 Open discussion and moderation

KR Gunter Mackinger, Salzburg



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19 Smart City in practice – efficient use of energy and future energy services

Europe's metropolises and cities are going to be smart. Due to this intention, companies and institutions meet huge challenges regarding energy supply and energy use: intelligent, innovative and cross-linked tools and solutions are required in order to make the energy supply as efficient and environmentally friendly as possible in the future. Within the event, we demonstrate smart practical examples

presenting instruments and concepts that have been proven in practice and show potential for Smart City, e. g. intelligent energy management systems, energy service models as well as smart and sustainable city districts.

Discuss with representatives from economy, administration and science about future technologies and innovations and learn more about the importance of energy service models.



Language: German

Host: Berliner Energieagentur GmbH

Partners: Berliner Netzwerke, Senatsverwaltung für Wirtschaft, Technologie und Forschung (SenWTF), European Energy Service Initiative (EESI)

Moderation: Thomas Prinzler, journalist

21 May 2015, 9:15 – 12:15, Level 3, Room M6

9:15 – 10:15 Welcome

Michael Geißler,
Berliner Energieagentur GmbH

Energy efficiency at ALBA Group: 200 sites – transparency anytime

Holk Schubert, ALBA Group

Energy Performance Contracting at Staatstheater Hannover GmbH

Ulf Bosold, Niedersächsisches Staatstheater Hannover GmbH

10:45 – 11:35 Learning from the past – technical development and inspirations for a Smart City

Prof. Joseph Hoppe, Deutsches Technikmuseum

Berlin Adlershof – ways to the energy future

Dr. Beate Mekiffer, WISTA Management GmbH

11:35 – 12:15 Panel discussion: How smart does a climate-neutral city have to be?

- Achim Neuhäuser, Berliner Energieagentur GmbH
- Andreas Foidl, Berliner Großmarkt GmbH
- Nadine Kuhla von Bergmann, CHORA city & energy – Technische Universität Berlin
- Prof. Dr. Harald Kächele, Deutsche Umwelthilfe e.V.



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20 Sustainable Development of Urban Regions – The Case of South East Asia

The Federal Ministry of Education and Research (BMBF) welcomes to the workshop stakeholders from SEA who want to shape a research agenda: What is the most urgent field of action for sustainable urban development in your city? In which field do known solutions, technologies or planning instruments not adequately respond to immediate urban needs? What is missing? The goal of the agenda-workshop is

to identify those urban challenges where co-operation between cities, stakeholders and the research community has the highest beneficial impact. Subsequently, implications for demand-driven BMBF activities are to be derived. Activities will link up with BMBF's Framework Program Research for Sustainable Development (FONA) and Germany's strategic research and innovation agenda "City of the Future".



Language: English

Host: PT – DLR Project Management Agency, Member of the German Aerospace Center Environment, Culture, Sustainability

Partner: The Federal Ministry of Education and Research (BMBF)

Moderator: Dr Andrea Koch-Kraft, Project Management Agency, Member of the German Aerospace Center, Environment, Culture, Sustainability

21 May 2015, 14:00 – 18:00, Level 3, Room M6

14:00 – 14:15 Welcoming Remarks and Opening Address

Dr Petra Wolff, Deputy Head of Division, BMBF

■ Sara Hoefflich, UCLG, Barcelona

■ Dr Sutanto Suhodo, Deputy Governor, Jakarta, Indonesia

14:15 – 14:30 The role of local government for the implementation of national sustainability and/or climate change strategies

Dr Bernadia Irawati Tjandradewi, Secretary General UCLG-ASPAC, Jakarta, Indonesia

15:30 – 17:00 Market Place 1:

How to bridge the gap between sustainable urban development planning & implementation?

Moderator Dr Heike Bauer

14:30 – 14:45 Vietnam – A Case Study

Dr Nguyen Quang, UN-Habitat Program Manager, Hanoi, Vietnam

15:30 – 17:00 Market Place 2:

What are key constraints in coordination between different sectoral agencies in reaching sustainability?

Moderator Fausto Mirabile

14:45 – 15:15 Panel

- Dr Petra Wolff, Deputy Head of Division, BMBF
- Dr Bernadia Irawati Tjandradewi, Secretary General UCLG-ASPAC, Jakarta, Indonesia
- Datuk Mahadi Bin C. Ngah, Deputy Director General (Planning), Kuala Lumpur, Malaysia
- Violeta Somera Seva, Senior Adviser, Office of the Mayor, Makati City, Philippines
- Dr Nguyen Quang, UN-Habitat Program Manager, Hanoi, Vietnam

15:30 – 17:00 Market Place 3:

Impulse Martin Venzky-Stalling, What makes a city/city region sustainable and competitive?

Moderator Dr Carsten Krück

17:00 – 17:40 Closing Plenary:

Report back on Market Places and Networking

21 Sustainable Mobility for Smart Cities

National and international experts will have the possibility to exchange experiences and knowledge on sustainable mobility with a strong focus on urban development and related challenges. The event will focus on three areas: Smart Mobility, Clean Air and Intelligent Transport Systems (ITS).

This event is hosted by the German Partnership for Sustainable Mobility (GPSM). As a platform for exchanging knowl-

edge, expertise and experiences, the GPSM supports the transformation towards sustainability in developing and emerging countries. It serves as a network of information from academia, businesses, civil society and associations. The GPSM is an initiative by the Federal German Ministry for Economic Cooperation and Development (BMZ) and the Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

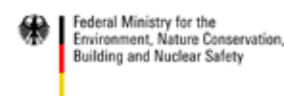
Language: English

Host: German Partnership for Sustainable Mobility (GPSM)

Partners: Federal Ministry for Economic Cooperation and Development (BMZ), Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Key Parliamentary State Secretary Mrs. Schwarzelühr-Sutter (BMUB), Prof.

Speakers: Axel Ahrens (TU Dresden), Monika Zimmermann (ICLEI), Michael Glotz-Richter (Bremen), Dr. Chen Jinchuan, Head of Comprehensive Transport Planning Division, Beijing Municipal Commission of Transport.



20 May 2015, 9:45 – 17:30, Level 1, Room A4

10:45 – 11:00 Introduction to the GPSM:

Looking back and looking forward – one year anniversary of the German Partnership for Sustainable Mobility (GPSM)

Prof Dr Ahrens, TU Dresden

11:00 – 11:15 Opening and Welcoming by Parliamentary State Secretary Mrs. Schwarzelühr-Sutter (BMUB)

11:15 – 12:15 Sustainable cities require sustainable mobility solutions, Keynote: Sustainable Urban Mobility is key to sustainable development (Monika Zimmermann (ICLEI), and panel discussion:

- Mrs Rödiger-Vorwerk (BMZ),
- Mr Fiedler (Urban Solutions Doppelmayr),
- Marcus Zwick (Siemens),
- Tom Hirschbaum

Moderation: Prof Dr Ahrens (TU Dresden)

13:15 – 14:15 Focus a) Clean Air: The mitigation of air pollution does not only protect human health, but also ecosystems – challenges and opportunities

- Dr. Chen Jinchuan, Head of Comprehensive Transport Planning Division, Beijing Municipal Commission of Transport
- Hans-Jürgen Mäurer (DEKRA)
- Heiko Balsmeyer (VCD)
- Tbd (Delphi)

14:30 – 15:30 Focus b) Smart Mobility: Smart mobility solutions: connected, flexible and intelligent

- Representative (India)
- Sebastian Schlebusch (nextbike)
- Tbd (PTV)
- Michael Glotz-Richter (Bremen)

16:00 – 17:00 Focus c) Intelligent: Intelligent Transport Systems offer energy-efficient solutions for urban development

- Oleg Zasadny (Advisor to the Mayor of Lviv on Sustainable Mobility),
- Silvan Rath (Parktag)
- Tbd (ITS Network Germany)

17:00 – 17:30 Wrap-Up, Final Statement & Conclusion

22 The German Energiewende and its impact on cities and their hinterlands

What is the German Energiewende? Is it a model for the world? How does it impact urban areas and their surrounding territory? What is the role of cities in this energy transition?

This think tank panel will address these questions and introduce the German Energiewende to the international participants of the Metropolitan Solutions 2015. In particular, the panel will explore the opportunities created by the decentralised nature of renewable energy for cities to foster mutually

beneficial relationships with their hinterland.

This event is organised by the World Future Council, which brings the interests of future generations to the centre of policy-making. Together with civil society actors, parliamentarians, governments and business, the Council addresses challenges to our common future and provides decision makers with effective policy solutions.



Language: English

Host: World Future Council

22 May 2015, 10:00 - 13:00, Level 3, Room R11

10:00 – 10:05 Welcome and introductions

Session Chair: Fiona Woo, Policy Officer,
World Future Council

10:05 – 10:20 The German Energiewende: A lesson for the world?

Rainer Hinrichs-Rahlwes, Board Member,
German Renewable Energy Federation (BEE)

10:20 – 10:35 The Energy Transition and the infrastructure we need

Ulrich Kelber, Parliamentary State Secretary,
Deutscher Bundestag

10:35 – 10:50 Cities and the Energy Transition: A necessary link?

Stefan Schurig, Director, Climate and Energy,
World Future Council

11:05 – 11:15 The Leading role of cities: how can cities drive the transition?

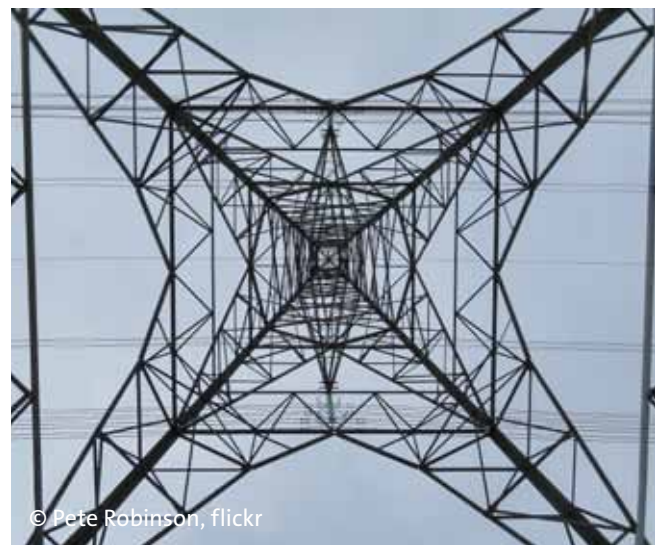
Gerhard Stryi-Hipp, Head of Energy Policy,
Fraunhofer Institute for Solar Energy Systems

11:15 – 11:30 The Just Transition and its impacts on jobs and the economy

Anabella Rosemberg, International Trade Union
Confederation

11:30 – 11:45 Moderated discussion with panellists

11:45 – 12:00 Q&A with audience



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23 Analysing the potential for wide scale roll out of integrated Smart Cities and Communities solutions – Expert Workshop

The recently initiated study focusing on “Analysing the potential for roll out of integrated SCC solutions” - funded by European Commission’s Directorate-General for Energy - has the specific objective to contribute to the knowledge base of the European Commission by analysing smart city solutions linked to the Strategic Implementation Plan (SIP) of the European Innovation Partnership. To this end, the study will mainly focus

on solutions that are located in the intersection of Energy, ICT and Transport. In order to gain further insights on the SCC solution best practice examples identified, as well as to initiate application of selected business case assessment methodologies to a first limited assortment of SCC solution examples, the study team has organised a workshop, finalized to discuss success and failure factors laying behind SCC solutions.

Language: English

Host: PricewaterhouseCoopers Advisory SpA

Partners: Danish Technological Institute, Institute of Studies for the Integration of Systems, Sigma Orionis, Trento-RISE, Sinergis Srl



20 May 2015, 14:30 - 17:30, Level 3, Room R11

14:30 – 14:50 Opening of workshop and welcome, and General introduction to the study and to the relevant EU policy context

14:50 – 15:20 Introduction: Main outcomes of the first months of study’s activities: identification of examples of SCC solution best practices and further upcoming steps

15:20 – 16:20 Main success factors of SCC solutions and principle replicability aspects and discussions on leading success factors of integrated SCC solutions and on main drivers for replicability of existing SCC solutions

16:20 – 17:20 Discussion and feedback collection on SCCs important failures

- First insights coming from the web-based questionnaire – which will remain open and available for at least another couple of weeks after the event– aiming at gathering wider feedback on relevant SCC solution examples of failure
- Overview of the important examples of failure already identified by the study team through literature review and discussion on the main causes of failure and eventual collection of additional examples

17:20 – 17:30 Final Remarks, Conclusions and closing by the European Commission representatives

24 10th Meeting of the Smart City Forum

Europe's metropolises and cities are going to be smart. Due to this intention, companies and institutions meet huge challenges regarding energy supply and energy use: intelligent, innovative and cross-linked tools and solutions are required in order to make the energy supply as efficient and environmentally friendly as possible in the future. Within the event, we demonstrate smart practical examples

presenting instruments and concepts that have been proven in practice and show potential for Smart City, e. g. intelligent energy management systems, energy service models as well as smart and sustainable city districts.

Discuss with representatives from economy, administration and science about future technologies and innovations and learn more about the importance of energy service models.

McKinsey&Company

SMART CITY FORUM

[ui!]
the urban institute®

SAP

22 May 2015, 10:00 – 16:00, Level 3, Room M6

10:30 – 16:00 **Conference Program, available via personal invitations**

Prof. Dr. Lutz Heuser, Chairman Smart City Forum, [ui!] – the urban institute®, Chairman and moderator

Language: German

Host: Urban Software Institute GmbH & Co. KG ([ui!] – the urban institute®)

Partners: Smart-City-Forum, SAP AG, McKinsey Inc., Berlin



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25 Transport Infrastructure in Germany – Strategies for the Maintenance of Roads and Bridges

Mobility – the engine of society: Traffic circulation cannot stop, goods have to reach the customers, and commuters do not want to lose time. However, maintenance of bridges, roads, pavements and bicycle paths poses an enormous challenge to all stakeholders. A sound transport infrastructure is paramount for our economy. But despite its huge economic

impact and in the context of increasing mobility, investments in maintenance and repair have not met the requirements in the last years. In the workshop organized by TÜV Rheinland renowned experts discuss ways and strategies how to ensure maintenance and availability of roadways with limited resources.

21 May 2015, 13:30 - 15:30, Level 3, Room S1

13:30 – 15:30 **plus get-together afterwards**



Language: German

Host: TÜV Rheinland AG



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26 TU Berlin BrainBox: Smart City Berlin 2030, Lunch Talks

Where are Berlin's future sites of transformation? And what are the innovative projects? BrainBox is a 10 Meter high cube, in which mobility, climate adaptation and many other urban topics can be experienced. With the help of a multimedia system, a 3D-city model, and an interactive table, visitors can inform themselves about on-going and planned smart projects in Berlin. We will also critically reflect on the

'Smart City' development model as a post-fossil and digitally connected living environment on Berlin by 2030. BrainBox also hosts daily "TU Lunch Talks" to present research at TU Berlin. The exhibition program also includes live demos and scenario games, which animate the audience to participate and give a glimpse of new ways and approaches for smart city planning in the future.

Language: German

Host: TUBS GmbH (TU Berlin ScienceMarketing)

Sponsors: Climate-KIC, Alfred Herrhausen Gesellschaft, Senatsverwaltung für Stadtentwicklung und Umwelt, System 180, Vattenfall, Berliner Stadtreinigung, Berliner Wasserbetriebe, virtualcitySYSTEMS, Kompetenzzentrum Wasser Berlin, Buro Happold, Box at Work, OnlyGlass



Senate Department
for Urban Development
and the Environment



Alfred Herrhausen Gesellschaft
Das internationale Forum der Deutschen Bank



SYSTEM 180
ARCHITEKTUR + EINRICHTUNG



20 May 2015, 12:00 – 14:00, Hall B, Stand C29

12:00 – 12:40 Growing Berlin – New ways of collaborating with citizens on urban development projects

- Prof. Elke Pahl-Weber, Fachgebiet für Bestandsentwicklung und Erneuerung von Siedlungseinheiten, TU Berlin
- Prof. Dr. Dodo zu Knyphausen-Aufseß, Chair for Strategic Leadership and Global Management, TU Berlin
- Dipl.-Ing. Jan Voss, Manager, Siemens Center of Knowledge Interchange and Research

12:40 – 13:20 Big Data Berlin - Linking the digital resources of a city

- Dipl.-Ing. Christoph Boden, Database Systems and Information Management Group, TU Berlin
- Prof. Dr.-Ing. Adam Wolisz, Telecommunication Networks Group, TU Berlin
- Further participants from Machine Learning Group TU Berlin and Space Technology Group

13:20 – 14:00 Neurourbanism, smart health and more: How Berliners could live longer, better and less stressed by 2030

Prof. Christine Nickl-Weller, Architecture for Health Group, TU Berlin and representatives from Berlin Charite

21 May 2015, 12:00 – 14:00, Hall B, Stand C29

12:00 – 12:40 „Ich bin ein (Smart) Berliner“: Discussing Berlin's official Smart City Strategy in the context of grassroots innovations

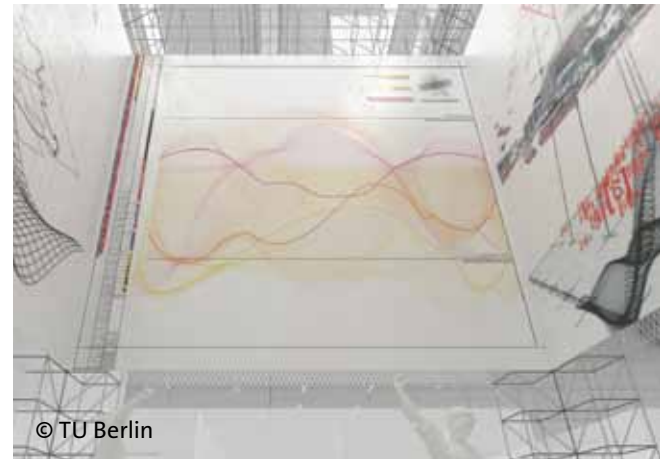
With representatives of Senatsverwaltung für Stadt und Umwelt Berlin and TU Berlin

12:40 – 13:20 Where will Berlin become smart? Transformation zones and sites of the future

Representatives of Berlin future sites (Zukunftsorte) EUREF research campus, Campus Charlottenburg, Tegel Urban Tech Republic

13:20 – 14:00 Metropolitan Utilities Dialogue – How can Berlin's infrastructure companies collaborate?

Representatives of Berlin's major public utilities providers from Berliner Stadtreinigung, Vattenfall, BVG, and Berliner Wasserbetriebe



22 May 2015, 12:00 – 14:00, Hall B, Stand C29

12:00 – 12:40 Berlin – a showroom for E-mobility?

- Prof. Dr.-Ing. Dietmar Göhlich, Methods for Product Development and Mechatronics (MPM), TU Berlin
- Dipl.-Kfm. Dustin Schöder, Logistics Group – Chair of Prof. Dr.-Ing. Frank Straube, TU Berlin
- TU Berlin E-Mobility Research Network

12:40 – 13:20 Charging up the city – How will the "Energie-wende" transform Berlin?

- Prof. Dr. Frank Behrendt, Research Campus EUREF, TU Berlin
- M.Sc. Stefan Bschorer, Sustainable Electric Networks and Sources of Energy Group, TU Berlin
- Dipl.-Ing. Daniel Freund, Application Center Smart Energy Systems DAI Labor, TU Berlin
- Dipl. Soz. tech. Friederike Rohde, Center for Technology and Society, TU Berlin



13:20 – 14:00 Smart water infrastructure: How Berlin tries to increase resilience of stormwater and wastewater infrastructure

- Dipl.-Ing. Stefan Gerlach, Institute of Fluid Mechanics and Acoustics, TU Berlin
- Dipl.-Ing. Regina Gnirß, Berliner Wasserbetriebe
- Dr.-Ing. Bodo Weigert, KWB – Berlin Centre of Competence for Water

27 Smart City Lab on Smart City Governance and Crisis Design

Metropolitan Challenges is an online platform developed for Metropolitan Solutions 2015 that connects knowledge, economy, and culture, and showcases Dutch experience and expertise in dealing with the challenges of rapidly growing cities. The Netherlands has managed to address urban problems in an inventive and unconventional way. The 'Dutch Approach' is integrative, especially when it comes to finding sustainable solutions to the problems of large urban agglom-

erations; by forming national and international alliances between government authorities, knowledge institutions, creative industries, and business players, relevant innovations are generated. Fair participants and visitors from around the world are given the opportunity to make contact and discuss challenges with Dutch experts from the fields of politics, administration, and science, as well as designers, urban planners, and architects.



Königreich der Niederlande

hybrid space lab

Language: English

Host: Urban Lab

Partners: Embassy of the Netherlands in Berlin

21 May 2015, 14:00 - 16:30, Hall B, B35

14:00 – 16:30 Embassy Lab on Smart City Governance

- Cis Apeldoorn, Head of the Department of City Development and Economics
- Ger Baron, Chief Technology Officer at City of Amsterdam)
- Berlin Municipality experts
- Dr. Philipp Bouteiller, Director of Berlin TXL Urban Tech Republic & Berlin Partner representative
- Peter Dortwegt, General Director of New Energy Docks in Amsterdam
- **Hack Your City:** Julia Kloiber, Open Knowledge Foundation, Florian Bögner and Yannick Haan, Wissenschaft im Dialog
- Willemieke Hornis, Project Manager Smart Cities, Ministry for Infrastructure and the Environment
- Klaus Illigmann, Smart City Munich
- Jens Libbe, DIFU / Deutsches Institut für Urbanistik
- Prof. Dr. Radu Popescu-Zeletin, Director of Fraunhofer FOKUS
- Mary-Ann Schreurs, Alderman for Innovation, Culture and Public Space, City of Eindhoven

22 May 2015, 14:00 - 16:30, Hall B, B35

14:00 – 16:30 Embassy Lab on Crisis Design

- Irene Droogleever Fortuyn, artist and designer of KETTER & Co Foundation
- Jacco de Haan, designer of flex
- Luc van Hoeckel, designer of Super Local
- Manon van Hoeckel, designer, initiator of the IN LIMBO EMBASSY project
- Daniel Kerber, artist and social designer of morethanshelters
- Dr. Jürgen Perschon, Executive Director of European Institute for Sustainable Transport / EURIST
- "Refugee Republic" screening
- Remco Rolvink, Founder, Secretary General, Master planner of DASUDA / Dutch Alliance for Sustainable Urban Development in Africa
- Malkit Shoshan (architect, author of Atlas of the Conflict, Israel-Palestine, founder of the think tank FAST / the Foundation for Achieving Seamless Territory, initiator of 'Design for Legacy, Pre-cycling the Compound')
- Corinna Sy (designer of CUCULA – Refugees Company for Crafts and Design)

EEN Smart Business Days 2015

The Enterprise Europe Network Berlin-Brandenburg in cooperation with Deutsche Messe and IHK Berlin will organize a match-making event on three consecutive days during Metropolitan Solutions. These B2B sessions will offer the opportunity to find new international business partners, partners for technological cooperation or European project partners. Participants are also very welcome to choose from three guided thematic tours and

up to ten site visits to the innovation hubs of the German Capital Region Berlin-Brandenburg. Pre-requisite for participation is the registration of a consistent cooperation profile. Smart Business Days 2015 will be open to all exhibitors, trade visitors and participants of the accompanying congresses. Registration and more information at www.b2match.eu/metropolitansolutions2015

20-22 May, 2015, Location: Hall B, Stand 41

Language: English

Host and Partners: The Enterprise Europe Network Berlin-Brandenburg, European Commission, Deutsche Messe AG, Berlin Partner for Business & Technology, IHK Berlin



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ICLEI Lounge Talks

To ensure that exhibitors and visitors of Metropolitan Solutions get the most out of the tradeshow and conferences, ICLEI - Local Governments for Sustainability will facilitate contacts between local government representatives, experts

and solution providers from the private sector. In roundtable talks and presentations, cities, businesses and other experts will discuss urban challenges, solutions, cooperation opportunities and projects with selected participants.



Language: English

Host: ICLEI - Local Governments for Sustainability

20 May 2015, ICLEI Lounge

13:00 – 14:00 Sustainable Urban China (closed session)

- Dieter Flämig, CEO, INFRANEU e.V., Berlin, Germany
- Lina Li, German Chancellor Fellow at Alexander von Humboldt Foundation (2014/2015), Germanwatch, Hannover, Germany

15:00 – 16:30 Green Buildings and Planning

The latest developments in the building and city planning sectors will be presented and discussed by representatives from ISOCARP, the World Resources Institute, BuroHappold Engineering and the German Green Buildings Council (DGNB) and interested city officials.

- David Struik, Urban Planner, Project Manager SUSREG, ISOCARP, The Hague, The Netherlands
- Jennifer Layke, Director, Building Efficiency Initiative, World Resources Institute, Washington DC, USA
- Stephan Anders, Product Manager Districts, DGNB – German Sustainable Building Council, Stuttgart, Germany
- Gerhard Stryi-Hipp, Head of Energy Policy and of Group Districts and Cities, Division Thermal Systems and Buildings, Fraunhofer Institute for Solar Energy Systems, Freiburg, Germany

16:30 – 18:00 Identifying Urban Infrastructure Solutions

Siemens' City Performance Tool (CyPT) was developed to help urban decision makers identify the infrastructure solutions that offer their cities maximum environmental and economic benefits. City representatives are invited to share and discuss their CyPT experiences with other cities.

- Savvas Verdis, Infrastructure Economist, Siemens, London, UK
- Morten Højer, Special Advisor, Sustainability and Green Growth, City of Copenhagen, Denmark



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21 May 2015, ICLEI Lounge

10:00 – 11:30 **EcoMobility**

- Siegfried Rupprecht, Rupprecht Consult GmbH, SUMPS & EcoMobility SHIFT, Cologne, Germany
- Carsten Recknagel, Managing Director, Zeitmeilen AG, Berlin, Germany
- Ana Marques, Senior Officer, Low Carbon Cities, ICLEI – Local Governments for Sustainability e.V., Bonn, Germany

13:00 – 14:30 **City-Business Cooperation**

- Burkhard Drescher, CEO, Innovation City Management GmbH, Bottrop, Germany
- Claudia Schweizer, Sustainable Cities Manager, World Business Council for Sustainable Development, Geneva, Switzerland
- Philippe Weiler, Senior Advisor Business Development, CSR Europe, Brussels, Belgium
- Gordon Feller, Director – Office of the EVP, Cisco, and Founder, Meeting of the Minds, San Francisco, USA
- Valentine Agid-Durudaud, Director, Urban Division, GDF Suez, Paris, France

22 May 2015, ICLEI Lounge

10:00 – 11:30 **Urban Solutions Financing**

- Amy Leung, Deputy Director General, East Asia Regional Department, Asian Development Bank, Manila, Philippines
- Jörn Exner, Project Manager EU and International Services, Berlin Partner for Business and Technology, Brussels, Belgium
- Klaus Gühr, Head of Division, Sector Policy Unit Energy, Water and Agriculture, KfW Development Bank, Frankfurt, Germany
- Eva Ringhof, Social Urban Development Specialist, Cities Development Initiative for Asia (CDIA), GIZ Philippines, Manila, Philippines
- Anke Wiegand, Project Manager EU and International Services, Coordinator EEN Berlin-Brandenburg, Brussels, Belgium

15:00 – 16:30 **Urban Solutions Platforms**

- Ana Marques, Senior Officer, Low Carbon Cities, ICLEI – Local Governments for Sustainability e.V., Bonn, Germany
- Jonas Schorr, Berlin Metropolis Initiative, Berlin, Germany
- Camille Toggenburger, Berlin Metropolis Initiative, Berlin, Germany
- Franzis Wimmer, Project Manager, CSR Europe, Brussels, Belgium

12:00 – 13:30 **Smart Cities**

- Pietro Elisei, Urban Planner, Vice-President, ISOCARP, Bucharest, Romania
- Amy Leung, Deputy Director General, East Asia Regional Department, Asian Development Bank, Manila, Philippines
- Gulnara Roll, Head, Housing and Land Management Unit Forests, Land and Housing Division, UN Economic Commission for Europe, Geneva, Switzerland
- Mathias Reddmann, Policy and Project Officer, European Commission, Brussels, Belgium
- Martin Wattenbach, GFZ Coordinator ClimateKIC, Section 5.4 Hydrology, German Research Centre For Geosciences, Postdam, Germany

Who is here?

The world of urbanisation: More than 400 international speakers are sharing their expertise at Metropolitan Solutions.

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X	Xifeng, Chu	Yixing Municipal People's Government, PR China	1
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	Zhaojie, Dong	National Renewable Energy Information Administration; SGRI Europe GmbH	10
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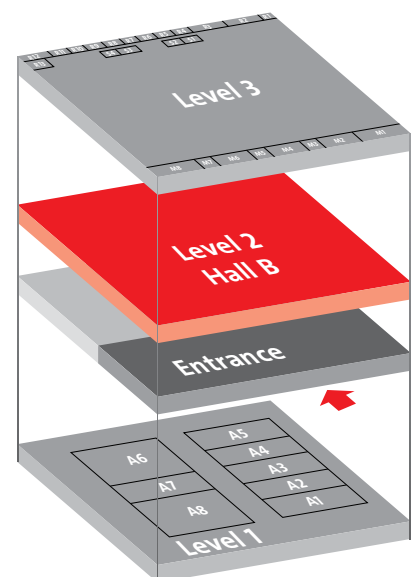
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Exhibitor Profiles

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Expo Fortschrittsmotor Klimaschutz GmbH

KlimaExpo.NRW is an inter-departmental initiative by the NRW state government. In order to make use of the „Energiewende“ (transformation of the energy system), climate protection and the requisite adaptation to climate change as driving forces for the sustainable development of the economy and society, the state government established KlimaExpo.NRW. The aim of the state-based initiative is to present successful projects to a wide audience right up to the international level and to initiate additional commitment to climate protection. As a showcase for the technological, economic and social potential of North Rhine-Westphalia in this area, KlimaExpo.NRW is presenting its pioneering projects in the thematic fields of urban and regional development at Metropolitan Solutions.



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“A bright future in Berlin”

Dr. Jochen Köckler, member of the Managing Board at Deutsche Messe, and Thomas Rilke, Director Metropolitan Solutions, asked about “Metropolitan Solutions”...



Dr. Jochen Köckler, member of the Managing Board



Thomas Rilke, Director Metropolitan Solutions

Dr. Köckler, how often are you asked why Deutsche Messe is staging a new event in Berlin?

Dr. Köckler: Quite frequently. But on the other hand, we stage trade fairs globally – not just in Hannover. For example, in Istanbul, Mumbai, Jakarta and Shanghai. And now also in Berlin as the venue of choice for our visitors from around the world. We asked municipal decision-makers who have attended Metropolitan Solutions in the past where they thought we should stage both conference and trade show in its own right. The answer was Berlin.

How has the working relationship been with the new partners in the German capital?

Dr. Köckler: Very good indeed, as expected. We have a very cordial relationship with Messe Berlin at all levels. In the city we have encountered highly committed and visionary counterparts – Governing Mayor Michael Müller and the Senator for Economic Affairs Cornelia Yzer, as well as the personnel at Berlin Partner and in the various government departments. They share our global perspective with regard to urbanization. We are very grateful for this.

Can Metropolitan Solutions be seen as a conventional trade show?

Rilke: Yes and no. The exhibitor lineup features nearly all the major players on the municipal market. But for these companies it is not just a matter of presenting their products. They

also share their expertise and propose promising solutions, thus increasing the value of the dialogue for all concerned. In short, the exhibition also serves as a platform for discussion and provides additional content of special relevance to the related conferences.

What is your concept for the future development of Metropolitan Solutions?

Dr. Köckler: We aim to stick to the basic approach. The name of the game is to identify the major challenges confronting cities and to present the necessary solutions. These integrated solutions need to reflect the complexity and systemic interdependence of the challenges involved.

Rilke: It is a matter of looking beyond individual technical solutions. We will design the event in such a way that all the various players have their say and enter into a dialogue: industry, municipalities, banks, NGOs as well as start-ups and progressive academic thinkers.

Did you expect 27 conferences taking place in parallel?

Rilke: To be honest, we did not. We had originally planned 10 events. We are, of course, very pleased that the worldwide urbanization “community” is growing so fast. We now boast the biggest open conference and exhibition platform for Smart City / Green City players.

Is there still spare capacity at Metropolitan Solutions, both in terms of new topics and additional contributors?

Rilke: Yes, we are certainly open to new partners from the urban sector. These partners decide for themselves what they will contribute – and are each responsible for their own conferences. We merely provide the platform, and of course promote the event worldwide so that continued growth is certain.

Dr. Köckler: And I’d like to add that growth might also be possible at other venues, too. When we at Deutsche Messe launch events devoted to new topics, we always make sure the topics addressed hold considerable international potential. And this definitely applies to Metropolitan Solutions.

Interview: Hans Gäng

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