DISCOVER GLOBAL MARKETS: BUILDING SMART CITIES

DRAFT AGENDA

Tuesday, November 1, 2016

1:00 PM – 5:00 PM – Registration Opens and One-on-One Appointments between Participants and Overseas Staff

6:00 PM – 8:00 PM – Welcome Reception at Swissotel

Wednesday, November 2, 2016

7:30 AM – 8:30 AM – Breakfast and Registration

8:30 AM – 5:00 PM – One-on-One Appointments Continue

8:30 AM – 9:00 AM – Welcome & Introduction to Array of Things

In partnership with Argonne National Laboratory and the University of Chicago, the City of Chicago is deploying a sensor network around the downtown loop dubbed "the Array of Things" (AoT). Nearly 200 sensors are to be installed by year-end 2016, with a total of 500 being deployed by end of 2017. This open-data network will actively collect information on air quality, temperature, and pedestrian and vehicular traffic, making Chicago among the first cities in the United States with such a system. Mayor Rahm Emanuel has been invited to welcome delegates to Chicago and DGM: Building Smart Cities, highlighting AoT and other reasons why the city is a leading example of Smart City technology deployments.

9:00 AM – 10:00 AM – Global Smart City and Internet of Things Trends Plenary

This panel will feature industry experts and thought leaders discussing key global trends in the development of Smart Cities. Philip Bane, Managing Director of the Smart Cities Council, will provide an overview of steps cities are taking to leverage technology to meet their needs. Additionally, Fred Ellermeier of Black & Veatch will highlight transportation infrastructure investments, while Shaina Doar of Sidewalk Labs will discuss their Link and Flow solutions. Dr. Sokwoo Rhee of the National Institute of Standards and Technology will discuss the global drivers creating demand for U.S solutions.

10:00 AM – 10:30 AM – Morning Coffee & Networking Break

10:30 AM – 11:45 AM – Breakout Session 1

Telecommunications Infrastructure: A Foundation for the Smarter City (Connecting Track)

Global spending on physical infrastructure is increasing in parallel with the development of high-speed telecommunications networks that enhance the flow of information and delivery of services, especially to underserved population segments. This advancement in connectivity is essential to the development of Smart Cities as people change the way they communicate with each other, their homes, cars, and machines. This session will discuss global investments being made to promote communication connectivity and opportunities for U.S. businesses in the industry. Confirmed speakers on this panel include Paul Steinberg, Chief Technology Officer of Motorola Solutions.

Intelligent Traffic Management for Economic Development (Innovating Track)

As urban populations continue to grow, cities are challenged to streamline the movement of people, vehicles, and goods, both to and from cities, as well as within their borders. With limited roads and parking capacity and an increasing awareness of environmental sustainability, cities require innovative solutions for intelligent traffic management. Intelligent traffic systems are needed to ensure efficient transport of labor forces as well as commercial goods and services. Solutions such as congestion pricing, traffic light sensors, and ride-sharing services are all examples of current programs that create efficiencies and ultimately contribute to a city's economic development. Our panelists, including Dr. Robert Jaffe, President of ConSysTec, and Jon Ringler, President of Aegis ITS, will discuss innovative approaches to managing traffic and share their thoughts about future opportunities in this sector

Emerging Waste to Energy Opportunities (Sustaining Track)

Increased urbanization and industrialization have led to greater economic growth, but also contributed to larger amounts of solid waste, forcing municipal governments to rethink disposal methods. Growing public awareness presents a complicating factor as constituents press authorities to devise ecologically balanced, yet economically viable waste management plans. This panel will look into opportunities being created across a wide range of technologies and solutions where energy security and modern waste management are being combined. Confirmed panelists include: Michelle Leonard, President of the Solid Waste Association of North America's International Board of Directors and Vice President of SCS Engineers; Eric Dvorak, Vice President at DVO, Inc.; Barry J. Berman, CEO of AgriPower, Inc.; and, Kirste Webb of Visionary Solutions, LLC.

11:45 AM – 1:15 PM – Lunch & Keynote Address

Cabinet-level U.S. and foreign officials have been invited to provide keynote remarks on Obama Administration support for U.S. businesses providing Smart City and IoT solutions, the opportunities

created by increasing urbanization worldwide, the challenges faced by U.S. businesses looking to grow internationally, and strategies for winning business in global markets.

1:15 PM – 2:15 PM – Financing Urban Innovation & Leveraging Assets Plenary

Cities must invest in infrastructure and new technologies to remain globally competitive, but doing so can be a challenge when budgets are constrained. This plenary session will explore a few ways in which cities around the world are finding the resources to make investing in infrastructure and Smart City technologies possible. Scott Sklar, President of Stella Group, will moderate while confirmed speakers include Ellis Juan, Division Chief, Housing and Urban Development Decision at the Inter-American Development Bank, and Joe Ryan, Vice President of Advanced Technology at Big Belly.

2:15 PM – 3:30 PM – Breakout Session 2

21st Century Transportation Infrastructure: Connecting People and Promoting Commerce (Connecting Track)

Public and private investment has created a surge in transportation infrastructure construction, connecting people, goods, and commerce more than ever before. Additionally, national transportation infrastructure plans from Latin America to Asia are dominated by airport, transit, and rail development plans. These plans seek to capitalize on efficiencies, reduce costs, and leverage new and emerging technologies. This session will feature representatives from Jacobs Engineering, Perkins+Will, Arup, and Nelson-Nygaard. The discussion will highlight transportation infrastructure investments and applications of new technologies.

Smart Governance: Raising the Bar for Citizen Services (Innovating Track)

Municipal governments around the world are looking for innovative solutions to facilitate daily interactions between city residents and their governments. From tax collection and payments to requests for services and predictive safety models, smart applications and data connectivity offer opportunities to simplify transactions and create value added services for city residents. Data collection tools also enable leaders to make smarter, more efficient governance decisions for both short and long term planning. This panel, moderated by Chicago Chief Information Officer Brenna Berman, will highlight innovative programs and future opportunities to improve smart governance. Roberto Ponce, Co-founder, Smart Living Projects will join the discussion.

Smart Buildings and Energy Efficient Retrofits (Sustaining Track)

Utility needs of buildings account for nearly 50 percent of all carbon emissions, according to a recent article in *Design Intelligence*, so there is much room and potential for improvement in their building, design, and operation. This session, moderated by Dave Gilmore of *Design Intelligence*, will feature Renee Clair of Johnson Controls, Rafael Pelli of Pelli Clark Pelli, and Mehdi Jalayerian of Environmental Systems Designs. This discussion will explore the ways in which technology can drive interactions between a building and its occupants to maximize efficiency, safety, health, and productivity. Attendees will learn about innovative approaches

currently being implemented around the world to improve the efficiency of both new and existing buildings, and how architects and engineers are combining signature designs with net-zero functionality.

3:30 PM – 4:00 PM – Afternoon Coffee & Networking Break

4:00 PM – 5:00 PM – China's New-Type City Plan Plenary

Continued rural-to-urban migration is forcing the Chinese Government to examine new city planning methods and investments. Few countries other than China have the financial ability and political will to support such initiatives. This session will feature Phil Enquist of architecture firm Skidmore, Owings and Merrill, Serge Mvongo of Qualcomm Intelligent Solutions, and Ralph Menzano of Oracle Global Industry Solutions, and will examine ongoing projects under the New-Type City Plan, guidelines for urban development across China, the demographic forces driving its development, and the technologies and infrastructure being leveraged.

6:00 PM – 8:00 PM – Reception at Chicago Cultural Center

Join conference panelists, delegates, and representatives from U.S embassies and consulates around the world for a reception under the Tiffany dome of the Chicago Cultural Center's Preston Bradley Hall.

Thursday, November 3, 2016

8:30 AM – 9:00 AM – Opening & Notes for the Day

Illinois District Export Council Chairman Richard Paullin will provide a short re-cap of the previous day's events and share any notes for the final day of DGM: Building Smart Cities.

8:30 AM – 5:00 PM – One-on-One Meetings Continue

9:00 AM – 10:00 AM – Cyber Security & the Internet of Things Plenary

As cities increasingly harness Big Data and more devices connect to the Internet of Things, privacy and cyber security become strong concerns. This plenary will feature Erfan Ibrahim of the National Renewable Energy Laboratory, Christine Herzog of the Electrical Power Research Institute, and Don DeLoache of InfoBright. During this session, topics covered will include the cyber security challenges facing more connected cities, strategies for protecting telecommunications/utility infrastructure, constituent privacy, and opportunities for U.S. businesses offering solutions to overcome these issues.

10:00 AM – 10:30 AM – Morning Coffee & Networking Break

10:30 AM – 11:30 AM – Water & Wastewater Management Plenary

Increased urbanization means increased demand for clean water and a corresponding increase in the amount of wastewater produced. A stable and clean source of freshwater is required for urban business

investment and citizen health, but both urbanization and global population growth will stress current water infrastructure. Similarly, effective management of wastewater is required for disease and pollution control, and can save a city billions in the event of a disaster. During this session, led by Michael Tiboris, Global Water Fellow at the Chicago Council on Global Affairs, speakers from Greeley and Hansen and Smith+Gill will offer thoughts on water supply and management stressors and technological solutions to mitigate them.

11:30 AM – 12:45 PM – Breakout Session 3

Distributed Generation and Smart Grids (Connecting Track)

Reliable, affordable, and secure energy access is a fundamental need for cities and a requirement for business investment. As urbanization continues, new, modernized, and cleaner energy generation, transmission, and distribution systems are needed. This need is creating opportunities for smart metering, distributed energy generation, and energy storage technologies that cost-effectively promote energy reliability and efficiency. Roderick Jackson of Oak Ridge National Laboratory will moderate this breakout which will discuss energy investments being made around the world. Additional panelists include representatives from Milbank Manufacturing, MacLean Power Systems, Skipping Stone, and Black & Veatch.

Transforming Cities with Real Time Data: Case Studies (Innovating Track)

Both the public and private sector are harnessing data to improve and reshape the delivery of government services. The use of networked sensor technology, crowd-sourced data and big data algorithms allows governments to be more connected, integrated, agile and better prepared to respond to emergencies. Governments are increasingly better equipped to respond to dynamic urban environments. This panel will highlight case studies in which real-time data has transformed a city's planning efforts, and will feature Dr. Sokwoo Rhee from the National Institute of Standards and Technology, Nand Ramchandani of OSIsoft, and Dr. Kamil Agi of SensorComm Technologies.

Technologies and Planning for Disaster Risk Reduction (Sustaining Track)

The United Nations Sendai Framework for Disaster Risk Reduction identified four action priorities to reduce disaster risk: understanding disaster hazards as they affect persons, assets, and the environment; strengthening disaster risk governance through collaboration and partnership among all levels of government; investing in disaster risk prevention through adoption of both structural and non-structural measures; and "building back better" during the recovery, rehabilitation, and reconstruction phases post-disaster. Panelists, including Dale Sands of AECOM and Tim Tonyan of CTL, will provide thoughts on how U.S. companies can use their expertise in these disciplines to build safer and more resilient cities around the world.

12:45 PM – 1:30 PM – Lunch Keynote

U.S. Deputy Secretary of Commerce Bruce Andrews has been invited to share lessons learned from a recent U.S. Smart Cities trade mission to India and opportunities for U.S. companies in the market.

1:30 PM – 2:30 PM – India's 100 Smart Cities Plenary

Much like China's New Type City Plan, India's 100 Smart Cities Plan is creating immense opportunities for Smart City technologies and solutions. In collaboration with the U.S. Trade and Development Agency, this plenary will host Indian planning and development officials discussing the country's 100 Smart Cities Plan, and the role that U.S. companies are playing in supporting state and municipal efforts. Invited officials include: Hari Narayanan, Commissioner, Greater Visakhapatnam Municipal Corporation; Praveen Kumar, District Collector & Magistrate, Visakhapatnam; and, K. Karikal Valaven, Principal Secretary, Government of Andhra Pradesh.