SMART CITIES AND AGEING SOCIETIES

SMART CITY WORLD EXPO, Barcelona, 19 November 2015.

Japan-Europe workshop for strategic partnership building

The ageing of population is a phenomenon that is affecting the majority of developed countries around the world and will soon affect developing economies too. The global share of people aged 60 years or over increased from 9.2 per cent in 1990 to 11.7 per cent in 2013 and is expected to more than double, (from 841 million in 2013 to more than 2 billion or 21% of the world population) by 2050. At the same time, 80% of the elderly in developed countries already live in urban areas.

Both demographic shift and urbanization are major challenges for cities around the world. Therefore, cities need to adapt quickly to the needs of all their citizens, including those of their increasingly ageing population.

According to WHO, the physical and social environment are key determinants for people to stay healthy, independent and autonomous long into their old age. Research and innovation in Smart Cities and ageing population is growing exponentially worldwide and represents an opportunity to enrich our societies and create major opportunities for citizens and industry.

Both European and Japanese governments are making steps towards the implementation of a smart community strategy that will significantly impact on the economic growth and wellness of citizens. This workshop on smart cities and ageing population offers a unique opportunity for sharing ideas and experiences towards strategic partnership building on ageing population and smart communities in Japan and Europe.

ABOUT THE JEUPISTE PROJECT

The JEUPISTE (EU-Japan Partnership in Innovation, Science and Technology) project aims at promoting EU-Japan cooperation in science, technology and innovation through support to policy dialogues, deployment of bilateral information services, organization of networking events focusing on specific technologies and/or societal challenges, operation of help desk services and contribution to the development of human resources for collaborative projects.

THE JEUPISTE WORKSHOP AT SCEW2015

In the framework of the JEUPISTE project, a series of innovation workshops focusing on "*Smart cities on a broader term*" has been introduced to further encourage active partnership building. After the first two successful innovation workshops held in Brussels, Belgium and Turin, Italy, a third meeting will be held on **the 19th of November 2015** in Barcelona, Spain, within the **Smart City Expo World Congress**, a world leading smart city event, which will offer the opportunity to connect with global, regional and urban leaders, academic institutions, research centres, incubators, investors and top-corporations that have the decision-making power to drive smart cities and empower its citizens.

THE VENUE – FIRA BARCELONA

Smart City Expo World Congress (SCEWC) has become the leading event in the smart city industry. The 2014 edition recorded its best-ever figures with 10,838 visitors, 3,661 delegates, 275 exhibitors and 370 speakers coming from 92 countries and 440 cities to share the latest thinking on current and future issues related to urban growth.

Smart City Expo will take place at **Gran Via Exhibition Centre**, one of the largest and most modern venues in Europe, designed by the Japanese architect Toyo Ito, winner of the Pritzker prize. The center is located in a new business development area, very close to Barcelona airport and connected to the public transport network.

More info about **Smart City Expo** and the complete program here.

How to get to **Fira Barcelona Gran Via** check here.

SCHEDULE and CONTENTS

THURSDAY 19.11.2015 - FIRA DE BARCELONA GRAN VIA

- ▪ **SESSION 1: 09.30-11.00H**   (Seminar Space W0 68 – Congress Official Programme)

INTERNET OF THINGS IN THE AGEING SMART CITY- A FOCUS ON HEALTHCARE

One of the main goals for Internet of things-powered smart cities is to improve citizens' quality of life in a variety of ways, including measures to promote eco-friendly, sustainable environments as well as the delivery of "connected health/care" services to citizens at home and on the move. In particular, the deployment of health care services for elder people is one of the most highly impacting areas, thus demanding substantial efforts for the industrial and scientific communities, to deal with aspects related to dependability, low-latency, security or privacy, to name a few. This workshop on smart cities and ageing population will focus on the innovation value chain, bringing research to market in a EU-Japan comparative perspective. The EU-Japan cooperation is foreseen to bring major advantages and essential contributions to tackle main challenging issues in getting the most out of smart cities to benefit elder population.

PROGRAMME:

- 09.15h   REGISTRATION

- 09.30h   **Introduction of JEUPISTE Project and its objectives**
             Mr. Stijn LAMBRECHT, Jeupiste Project Manager
             Eu-Japan Centre for Industrial Cooperation, Japan

- 09.35h   **Introduction by the Chair**
             Mr. Amit Prasad, Team Leader Urban Health
             World Health Organization Center for Health Development, Kobe, Japan

- 09.45h   **How to engage and build strategic partnerships**
             Ms. Christin Pfeiffer, INSME, Italy.

- 09.50h   **Challenge: IoT in the Ageing Smart City – a focus on Healthcare**

    Each presenter will present their approach to this challenge

    Mr. Andrea Bartoli, Worldsensing S.L, United Kingdom

    Ms. Barbara Vallespin, Mobile World Capital Barcelona Foundation, Spain

    Mr. Fernando Alonso, Acceplan Accesibilidad S.L, Spain

    Mr. Hiroyuki Maeomichi, NTT Network Innovation Laboratories, Japan

    Mr. Zhiwei Luo, Graduate School of System Informatics, Kobe University

- 10.45h   **Moderated discussion**

- 10.55h   **Conclusions** by the Chair

- 11.00h   End of SESSION 1

11.00-11.30h: BREAK

- **SESSION 2 - 11.30-13.30h (Press Room)**

TOWARDS A SMART AGEING SOCIETY: COMMUNITY BUILDING AND THE ROLE OF ICT. OPPORTUNITIES FOR EU-JAPAN COLLABORATIONS

- This workshop will focus on the current issues related to ageing society and community building from a broader perspective, inclusive of the role that regional governments, NPOs, urban planners and IT companies play in shaping cities and communities elderly-friendly.

- This session is part of the **Hasekura2.0 Mission on Smart Communities**, a 6 day long study tour directed to Japanese SMEs, social entrepreneurs and local institutions, organised by Hasekura Program.

Hasekura Program is a platform that promotes the "inter-localisation" of innovative projects in regional Japan and regional Europe. We encourage EU-Japan collaborations in order to find common solutions to the pressing issues faced by advanced societies. (http://www.hasekuraprogram.com).

PROGRAMME:

11.30-11.35h	**Introduction of EEN (European Enterprise Network)** Ms. Riansares Lopez, Acció, Spain
11.35-11.45h	**Session and speakers Introduction** **"Japan as an hyper-aged society. Social, Urban and political context".** Ms. Renata Piazza, Founder and Director, Hasekura Program, Spain
11.45-12.30h	**Projects presentation** Mr. Taichi Goto, Director, Region Works Mr. Keichiro Sako, Director, Sako Architects Mr. Jun Yamadera, CEO, Eyes Japan Mr. Yuji Yoshimura, MIT Senseable city Mr. Changqin Quan, Kobe University Moderator: Prof Yasuo Utsumi, Vice President, SNCT
12.30-13.15h	Separation into **small groups** led by each Japanese speaker **and group debate**
13.10-13.20h	Each group leader shares the **results** of his group with the rest of participants.

13.20-13.30h	**Q&A and Conclusions** (coordinated by Prof. Utsumi)

13.30-14.00h	**Free discussion**

Key Topics

- Current issues - Declining birthrate and ageing: crisis or opportunity? Is ageing a disease?

- Collaboration of involved stakeholders - the role of central governments and local authorities, private companies, NPOs and citizens.

- Community Building - How do cities prepare to serve increasing numbers of elderly? What they offer to attract or retain elder citizens?

- The role of ICT - Information sharing and app development

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In addition to the above work session, between the 17th and the 19th of November, the JEUPISTE Project will also be present at the Catalonia Government booth to provide information and advice on EU-Japan cooperation.

For any further information about the World Smart City Expo, please visit the website: http://www.smartcityexpo.com/

CONTACT DETAILS

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NOTE:

- PARTICIPATION FREE OF CHARGE (FOR VISITORS OF THE SMART CITY WORLD EXPO)

- REGISTRATION REQUIRED: separate registration form to be sent to spei.agaur@gencat.cat

SPEAKERS PROFILES

- <u>**SESSION 1.**</u> **INTERNET OF THINGS IN THE AGEING SMART CITY- A FOCUS ON HEALTHCARE**

CHAIR:

Mr. Amit PRASAD
World Health Organisation - Kobe Center, Japan
Mr. Prasad is a health economist working with the World Health Organization (WHO) based in Kobe, Japan. Previously, he worked for WHO in Geneva and at the Harvard School of Public Health. Mr. Prasad has led and coordinated the development of WHO's Urban Health Equity Assessment and Response Tool (Urban HEART), which is increasingly being used by cities for planning and monitoring action. Mr. Prasad also works closely with government officials from several countries, including Brazil, China, Indonesia, Iran, and Kenya, with respect to capacity building and developing global standards on metrics.

MODERATOR:

Ms. Christin Pfeiffer
INSME Secretary General, Italy
Christin Pfeiffer is Secretary General at INSME – the International Network for SMEs from January 2012 founded by the Italian Ministry for Economic Development and the OECD. The network currently counts on the support of 99 members from 47 different countries. At INSME she is running several projects on international cooperation, innovation management and knowledge and technology transfer on a global scale. Since 2007 she has worked at APRE – Agency for the Promotion of European Research as appointed National Contact Point for international cooperation. She was directly involved in different FP7 projects and assisted SMEs in submitting research proposals to the Framework Programme as an expert for the specific Programme "Research for the benefit of SMEs". Christin Pfeiffer is particularly involved in training and transferring knowledge on a national and international scale with a special focus on project writing and managing, innovation management and creativity techniques. She is a member of the Horizon 2020 SME Advirosry Group created by the European Commission and part of the evaluation Committee of UNCTAD's "Women in Business" Award 2014.

SPEAKERS:

Mr. Stijn LAMBRECHT
Project manager, JEUPISTE; Eu-Japan Center for Industrial Co-operation, Japan
Stijn Lambrecht has been involved in EU-Japan renewable energy and ICT project, first in Brussels at and subsequently in Tokyo at the EU-Japan Centre for Industrial Cooperation. He works at the Centre as National Contact Point (NCP) for Horizon 2020 and manages the JEUPISTE project which is a EU funded project for the promotion, enhancement and development of Europe-Japan cooperation in Science, Technology and Innovation.

Mr. Andrea Bartoli
WorldSensing S.L, United Kingdom
Member of a security group implementing WAVE2M Community, a secure standard for low-powered networks. Currently, he is responsible for R+D activities for Worldsensing SL. His main fields of expertise are: IoT, M2M, Big Data, 5G-PPP, Security, etc.

Ms. Barbara Vallespín
Mobile World Capital Barcelona Foundation, Spain
Vallespín holds a Degree in Telecommunications Engineering from the Universitat Politècnica de Catalunya (UPC) and MBA from Esade Business School. She has a wide experience in the health care sector, especially in hospital environment. She worked for eight years in the Clinic Hospital in Barcelona, one of the leading institutions on translational biomedicine related research in Spain, and with a long tradition collaborating in health innovation programs. Miss Vallespín was involved in the management of a long list of national and international projects focused on telemedicine. She then became the Business Development Officer in the Computational Imaging and Simulation Technologies in Biomedicine at the University Pompeu Fabra in Barcelona. On September 2012 she started working at IESE Business School as project director of several international projects related to the health sector. Since August 2013 she works at the Mobile World Capital within the mHealth Competence Center as mHealth manager.

Mr. Fernando Alonso
Acceplan Accesibilidad S.L, Spain
Director of Acceplan and IUEE researcher at the Autonomous University of Barcelona. He has been advisor for various Spanish ministries and main author of legal instruments such as the National Accessibility Plan 2004-2012 and the Ministerial Order 561/2010 on Accessibility in Public Urban Spaces. He is the author of many publications and has received two awards for the best research in Social Sciences for his work on Functional Adaptation of Housing.
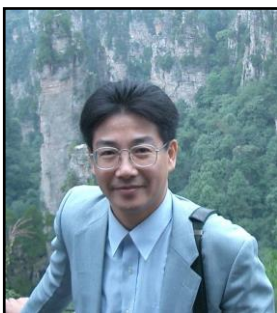

Mr. Hiroyuki Maeomichi
NTT Network Innovation Laboratories, Japan
After obtaining his B.S. and M.S. from Okayama University, in 1995 Mr Maeomichi joined Nippon Telegraph and Telephone Corporation. He has been engaged in research and development on Network Management Systems, Middleware for QoS/QoE improvement and Home ICT, in which Home gateway accommodates service providers' application. From 2008 to 2011, he led a R&D group on HomeICT application in NTT Comware Corporation. Since 2011 he has been engaged in research on protection and use of personal data in NTT Network Innovation Laboratories. He is also involved in standardization activities in OSGi Alliance and Broadband Forum, and IoT research projects iCore(2011-2014) and ClouT(2013-ongoing, a EU-Japan ICT project which leverages Cloud Computing to bridge the Internet of Things with Internet of People via Internet of Services, to help cities become make smarter). Mr. Maeomichi has lead a field trial in Mitaka city in 2014 using IoT to nurture an active lifestyle and community building to reduce the number of elderly people who need continuous nursing care.

Mr. Zhiwei Luo
Graduate School of System Informatics, Kobe University, Japan
Prof Lou received his Ph.D. from Nagoya University, Graduate School of Engineering in 1992, the first and still the only one in Japan to obtain his Dr. Degree in one year. From 1992 to 1994, he was Assistant Professor at Toyohashi University of Technology. In 1994 moved to the Bio-mimetic Control Center (BMC), The Institute of Physical and Chemical Research (RIKEN) as a Frontier Researcher to study motor control functions of biological systems and applications in robot's environmental interactive manipulations as well as locomotion. In 1999 started working as an associate professor at Yamagata University, and since 2001, he served as Laboratory Head of BMC, RIKEN, studying environmental adaptive robotic systems. He lead the development of RI-MAN, a human interactive robot which was selected by TIME as thebest invention of 2006. In 2006, he become professor at Kobe University, where he is promoting integrative researches on health engineering for the aged society.

- ***SESSION 2**. TOWARDS A SMART AGEING SOCIETY: COMMUNITY BUILDING AND THE ROLE OF ICT. OPPORTUNITIES FOR EU-JAPAN COLLABORATIONS*

MODERATOR:

Mr. Yasuo Utsumi
Professor and Vice President, NIT National Institute of Technology, Sendai Campus, task leader of NIT's collaborative projects with other organizations.
He works on innovation and recovery from the seismic disaster that affected Tohoku in March 2011. Prof Utsumi is also vice president of NPOs HOPE and JASFA, Japan, the co-chairperson of policy evaluation of Miyagi prefecture, the organizer of ISO TC163/ SC1/WG10, and was the sub-task leader of IEA, SHC34/Annex43.

PANELIST:

Mr. Taichi Goto
Region Works LLC – Kyushu University, japan
Mr. Taichi Goto is an accomplished consultant in urban and regional development. His specialities include city and regional planning, creative economy, area marketing, localization and regionalization of business models, urban design, project development and management, and public relations. Having worked as an urban planner with a Japanese general contractor Kajima in Tokyo, and at Growth Management Department of the regional government Metro in
Portland, US, he moved to Fukuoka in 2003. He is a registered architect of Japan and Regional Commissioner Asia of International Urban Development Association (INTA).

Mr Keiichirou Sako
Sako Architects, Japan
Born in Fukuoka, graduated from Tokyo Institute of Technology, Master Degree from the Tokyo Institute of Technology, Visiting Scholar at Columbia University.In 2004 established SAKO Architects, the first Japanese architecture firm to open its offices in China. Currently, Mr. Sako has offices in Beijing, Tokyo and Fukuoka, and has undertaken more than 90 projects in China, Japan, South Korea, Mongolia, and Spain. He has gained interna
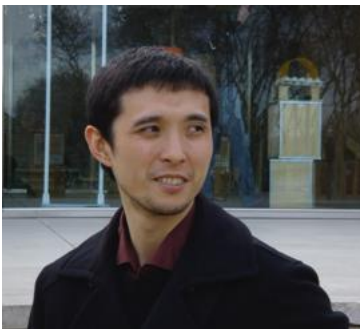
tional attention for his wide-ranging activities that cross the traditional boundaries of architecture, including urban planning, interior design, and providing general direction in corporate branding and design strategies.

Mr. Yun Yamadera
Founder and CEO EYES JAPAN CO.LTD, Japan
Jun Yamadera found EYES JAPAN CO. LTD. in 1995, the first IT startup from the University of Aizu, Fukushima. In the past 20 years, he has been working on various cutting edge projects such as exporting Fukushima rice via web back in 1995, making world 1st virtual pottery system, making CG of historical archives of national treasure of Japanese castle, temple, buddhist statues and traditional dance and medical motions using motion capture. He was a pioneer in Augmented Reality wearable technologies, Medical x IT and organized Japan's 1st medical hackathon in 2012. After the earthquake and nuclear disaster of March 11th 2011, he decided to open an office in Kobe to learn from the city about its experience in disaster recovery and resilience. He is the initiator of the bike sharing IoT platform project "FUKUSHIMA Wheel" for smart cities which he has presented in various conferences nationally and internationally.

Mr. Yoji Yoshimura
Laboratory urban DECODE, MIT SENSEable City Lab Research Affiliate.
He has worked at UNESCO Chair of Sustainability, the Barcelona Contemporary Culture Center (CCCB), Barcelona Urban Ecology Agency and Centre for Innovation in Transport. An architect and urban planner, he has specialized in the mobility and human behaviour analysis. Currently, he is collaborating with the Louvre Museum (Paris) to analyses the Big Data of visitors' behaviours collected by Bluetooth sensors. He has received various international awards and his researches and projects are worldwide recognized. Moreover he is an influential blogger with over half a million page view per a month. A recent book, which he published as co-author, "*Architects working abroad-the world is filled with opportunity*", contains updated information about Barcelona as a smart city.

Ms. Changquin Quan
Graduate School of System Informatics, Kobe University, Japan
Assoc Prof. Quan received Ph.D. from Tokushima University, Department of Information Science and Intelligent Systems in 2011. From 2005 to 2011, she was an Assistant Professor and then a Lecturer in Central China Normal University. In 2011, she worked with Hefei University of Technology, The School of Computer Sci

ence and Information as a Professor. From 2014, she becomes an associate professor in Kobe University. Her research field includes Human Computer Interface, Natural Lan-

guage Processing, and Affective Computing. She was the Publicity Chair of the 10th International Conference on Natural Language Processing and Knowledge Engineering, and the Track Chair of the 5th International Conference on Computing Communication and Networking. She published more than 60 papers. She won the Award of Chinese Wu Wen-jun Artificial Intelligence Science and Technology in 2012.