|  |
| --- |
| **Technology Development and Demonstration for System Transformation** |
| **Venue: Creative Economy & Innovation Center,**  **178, Sejong-daero, Jongno-gu, Seoul, Korea**  **7-8 July 2016** |

|  |  |
| --- | --- |
| Technology demonstration is an innovation policy tool traditionally used to bridge the gap between R&D and the widespread commercialisation of a technology by testing and promoting applications in the field. However, conventional approaches to demonstration largely focus on bringing down the costs of technology or the technical specifications and often underestimate the practical, institutional and societal drivers and barriers to the widespread diffusion of the technologies (e.g. acceptance by end users, alignment of different policies). This workshop will explore the implications of a system innovation perspective on the design, implementation and evaluation of different types of demonstrators in OECD countries ranging from renewable energy technologies, smart city initiatives to autonomous driving vehicles. The outcomes of the workshop will contribute to the preparation of the final report on ‘System Transformation’ being carried out by the OECD Working Party on Innovation and Technology Policy (TIP). This workshop follows on previous expert workshops on the use of policies tools such as technology roadmapping, smart regulation and new cluster policies for system transformation. | |
| 09:30-09:40 | **Opening and Welcome**   * **Taeseog Oh**, Director General of Creative Economy Policy Bureau, MSIP, Korea * **Mario Cervantes**, Head of Secretariat for the Working Party on Innovation and Technology Policies (TIP), OECD |
| 09:40-10:30 | **Session 1: New rationales for technology demonstration in the context of system transformation**  In this stage setting session, two academic presenters will provide a brief introduction to the system innovation perspective and the implications for technology demonstration policies and projects. This will be followed by a practical example from Korea on policies to promote systemic innovation in emerging industries.   * **Dr. Florian Kern**, SPRU/University of Sussex, **UK** * **Dr. Kang-Won Lee**, Senior Vice President of R&D at SK Telecom, **Korea** |
| 10:30-12:10 | **Session 2: Designing the demonstration projects**  The system innovation perspective encourages the wider participation of users in designing demonstration projects whereas the traditional approach tends to limit participation to “insiders” and focuses mainly on the technological aspects. In this session, the discussion will focus on how to improve the governance and process of demonstration in line with system innovation perspective.  Key questions for discussion:   * How to establish the governance arrangements and processes that enable users to play more active role in designing and implementing demonstration while securing stakeholders’ involvement? * Do participatory process and governance work better for demonstration in certain sectors and phases than others? * How to engaging users and citizens in demonstrators? What role for digital tools in linking citizens with demonstrators (e.g. providing real-time data on user experience)?      * **Ms. Lisa Setlakwe*,*** Executive Director, Industrial Technologies Office, Department of Innovation, Science and Economic Development, **Canada**   + **Dr. Gao Shiwang,** Director of CCUS department, HNCERI (Huaneng Clean Energy Research Institute), **China**   + **Mr. David Legg,**Innovate UK,**United Kingdom** *– Demonstration for autonomous vehicles* * **Mr. Dongseok Cha,**Vice President, KT, **Korea –** *New business development for* *health care* |
| 12:10-13:40 | ***Lunch break*** |
| 13:40-15:20 | **Session 3: Bridging or aligning demonstration projects with other demonstrators and policy settings**  Demonstration projects may need to interact with other policy settings such as the regulatory framework, standards or consumer privacy policies and even labour market and health policies. Some demonstrators may also need to integrate technologies from other demonstrators - a “whole system demonstrator” that effectively combining many emerging technologies together. Demonstrators that cross boundaries can test the combinations of new ideas. This session will explore the lessons from countries to align demonstrators with other policies or to combine demonstrators from different areas.  Key issues for discussion:   * What are some of the ways to align demonstration with other policy tools or actors such as standard organisations and regulatory bodies? How does the timing of alignment affect outcomes? * What lessons can be drawn from demonstrators that combine different technologies? * **Prof. Andrew Garnett**, University of Queensland, **Australia** * **Ir. Kees W. Kwant**, Senior Expert Bioenergy and Biobased Economy, Netherlands Enterprise Agency, **Netherlands** * **Mr. Anders Jörnesten** and **Mr.** **Peter Eriksson*,*** Vinnova**, Sweden** *– Future transportation system* * **Dr. Wanggu Kang,** Director,Korea Aerospace Research Institute, **Korea**– *Policy alignment for industrial use of drones* |
| 15:20-16:30 | **Session 4: How to follow up on demonstration projects and feed-back lessons into innovation policy design?**  From a system innovation perspective, demonstration efforts should not be considered as one-off projects to test the applicability and the commercial potential of new technology, but rather a learning process to create and diffuse knowledge and build up social networks around the adoption of new technology and system. This implies that the evaluations of demonstration projects and follow-up activities should lessons consider wider and more various aspects.  Key questions for discussion:   * How would the evaluation framework of demonstration be different when adopting system innovation perspective? * What are best practices to widen and deepen learning during and after the demonstration?   + **Mr. Paolo Caridi,** EU delegation to Korea, **EU**   + **Prof. Yasuo Utsumi,** Sendai National college of Technology **Japan -** Smart city   + **Mr. Fabio Sgaragli**, Open Incet, **Italy –** Smart city   + **Dr.Jeongho Lee,** Director,Korea Electrotechnology Research Institute (KERI),**Korea** |
| 16:30-17:30 | **Closing session: next steps and concluding remarks**  In this closing session, the workshop rapporteurs will present the key messages from the various sessions. The OECD will then outline the next steps in the project on system transformation to be completed by the end of 2016. The workshop will be closed by the Korean authorities.  ***Rapporteurs:*** Daehyun Oh and Shizuo Oya, OECD  ***Next steps:*** Mario Cervantes, OECD  ***Concluding remarks:*** Korean representative of the MISP |
| 19:00 | **Social event** |

**☞ Note: All participants of site visit on 8 July should come to the venue of the workshop by 9:00 a.m. to take the limousine bus.**