



J-ERA Center
 Training for trainers Workshop II/ Agenda
 Amman, Jordan | 7-8 April 2014

3rd Floor, Meeting room, the Higher Council for Science and Technology
 El Hassan Science city- The Royal Scientific Society
 Ahmad AlTarawneh St.- Al Jubeha, Amman- Jordan

7 April 2014	
09:30 – 10:00	Welcome words& Presentation of NCRD priorities/ Dr. Walid Salameh , Coordinator, J-ERA Center
10:00 – 10:30	H2020 for the Mediterranean/ Ms. Germana Topolovec (EEAS-AMMAN)
10:30 – 11:00	H2020: Topics in Energy / Ms. Laura Castreño (OPERUM)
11:00 – 11:30	COFFEE BREAK
11:30 – 12:30	Funding opportunities : PV and Solar thermal /Mr Momir Tabakovic (University of Applied Sciences Technikum Wien) Q&A
12:30 – 13:30	Tips & Tricks for writing a H2020 proposal (I) / Dr Michael Heidenreich (University of Applied Sciences Technikum Wien) Q&A
13:30 – 14:30	LUNCH BREAK
14:30 – 15:30	Funding opportunities & experiences: Energy Efficiency / Ms. Noelia Lopez & Dr Joaquin Silvestre (University of Alicante) Q&A
15:30	End Day 1
8 April 2014	
10:00 – 11:00	Tips & Tricks for writing a H2020 proposal (II) (University of Applied Sciences Technikum Wien)
11:00 – 11:30	COFFEE BREAK
11:30 – 13:00	Working session; Prepare concrete Proposals; Define Works; Write summaries Breaking out group
13:00 – 14:00	LUNCH BREAK
14:00 – 15:00	Project review and follow up
15:00	End

Working Session Exercise

A call for proposal for Smart cities has been published (see attached extract). An EU coordinator is interested in developing part of the Project and research in Amman, Jordan. His work focuses on solar thermal research.

Write a short proposal (1-1.5 page), based on your research focus, responding as best as possible to the call and to the coordinator's interests. Use the following information to develop your proposal.

Building the H2020 project proposal for SCC 1 – 2014/2015

“Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large-scale demonstration - first of the kind) projects”

The foreseen application will demonstrate integrated urban options how to improve the existing infrastructure in terms of energy- and CO₂-reduction and similarly increase in quality of life, taking into account administrative, social, and economic aspects. The core of the **smart districts** consists of innovative pilot projects carried out in a dedicated area of Vienna. Results will support the city administration and other stakeholders in how to approach making existing urban infrastructures smart, and thereby contributing significantly to the requirements of the SET-plan.

The **key factor for meeting the requirements of a smart city** is integrated energy-related urban planning across sectors (buildings, industry, transport, heating and cooling, electricity, water networks, waste water and waste management, agriculture) using ICT as the enabling technology, aiming at identifying viable investments and measures which will contribute to approach the goal to become a smart city.

At present, there is a limited understanding how to achieve and implement such integrated plans, especially in existing urban infrastructures. While there are experiences, among others gained in the CONCERTO, CIVITAS and SMART CITY projects, in new urban developments and urban extension activities (although not fully integrated but limited to specific sectors and districts), the development and implementation of integrated urban plans in existing districts is a major challenge, due to the following aspects:

- Extremely long lifetime of the technical structures in cities and towns (how to create, develop, maintain, change and demolish to contribute to a city being smart).
- Municipal administrative structures (procurement rules, sectoral division of responsibilities, etc.).
- Legal framework conditions (traffic rules, inter connection requirements, smart standards etc.).
- Economic structures (fee systems, liberalised market etc.).
- Human behaviour, which substantially affects energy efficiency (inclusion and acceptance, etc.).

The challenges are: How to improve the existing urban infrastructure in terms of energy- and CO₂-reduction, and to use it in an energy saving way, in order to achieve the targets presented by the SET-plan? How to overcome administrative, social and economic barriers? How to increase the competitiveness of different clean technologies at urban sites?

Each Smart City project consists of:

- 2 – 3 cities or communities (light house cities or communities) – EU cities will conduct demonstration projects. (Eligible costs for demonstration activities).
- Include industry, city planning authorities which should also reflect the view of the consumer organisations, research community, local Small and Medium Size Companies (SMEs).
- In addition each project should co-involve 2 - 3 follower cities i.e. cities willing to contribute to the process through the **replication of solutions** at the end of the five years project and having **access to the knowhow and results of the project** and a **privileged contact with the project's partners**. The involvement of the follower cities should be relevant (e.g. participating in definition of user requirements and methodology of **transferability of solutions, data collection** etc.). The follower cities should aim at improving their energy performance or the share of use of renewables (e.g. 60% reduction of primary energy for buildings, 20 - 30 % RES use for electricity as well as for heating and cooling).

EU experts

University of Applied Sciences Technikum Wien

Dr. Michael Heidenreich works extensively on marketing and market research in the fields of renewable energy sources (RES), energy efficiency (EE), and renewable resources in general. His expertise covers:

- Collaborating with national/international organisations, project management and socio-economic research in Vienna, Mödling and Hartberg in the Frame of the European Smart City and CONCERTO initiative.
- Providing vast innovation experience gained through integration as in-house consultant by major European Contractors, Consulting Organisations, universities and municipalities and by providing administrative, socio-economic and technical due-diligence on national and international research & innovation projects.
- Elaborating comparative studies in sustainable development and research on support instruments such as Green Pricing, feed-in tariffs, investment funds and other promotion activities.

Dr. Michael Heidenreich has worked at the EC/DG Research during the early days of FP6, and has a thorough knowledge of innovation management and business consulting. "

Momir Tabakovic holds his MSc. degree in Renewable Energy from the University of applied Sciences Technikum Wien. He is a researcher at the Institute of Renewable Energy at UAS Technikum Wien. He participates/ed in various research and support projects related to renewable energy, such as 'Smart Grids ERA-Net', 'EU-ASCIN' and is experienced in organising high-level networking or research workshops/seminars in these fields. He is a member of the Austrian Photovoltaic Technology Platform.

University of Alicante

Dr Joaquin Silvestre has proven leadership in initiating and coordinating multidisciplinary collaborations with both, academics and industry. He draws his main research experience from work in

- design, synthesis and characterization of new micro and mesoporous materials (mainly carbon-based materials and oxide-based materials) for adsorption and catalysis;
- photocatalytic reduction of CO₂;
- elective oxidation of CO;
- ethanol reforming;
- CH₄ conversion;
- CO₂ capture;
- energy storage, and so on.

Dr Silvestre has had demonstrated international research experience from post doctoral stints in Germany, Spain, the UK and USA. His work has appeared in numerous peer-reviewed journals.

Noelia López is Project Manager at the International Projects Office of the University of Alicante. She has a Degree in Business and Economic Sciences at the University of Navarra. During the last ten year she built up strong experience in Project Management for EU and International-Funded Projects, R&D and Innovation funding at regional and national level and technology and knowledge transfer. She is currently involved in several EU funded projects, such as EPIC - Renewable energy in Pacific islands (EDULINK), JERACentre (INCO/ Jordan) and WBCInno - Modernization of WBC universities through strengthening of structures and services for knowledge transfer, research and innovation (TEMPUS).

University of Murcia

Laura Castreño is Senior Project Manager at the University of Murcia's European and International Research Projects Office of the University of Murcia (OPERUM) since 2007. The main objective of the Office is to increase researchers' participation in European and International Research Programmes. She is in charge of the management of the projects and the dissemination actions about related activities of the office. Ms. Castreño has strong expertise in research results transfer and in the management of the research projects at national and regional level. She has a degree from the University Complutense de Madrid (Spain) and is the local contact point of EURAXESS, the European Network for the mobility of the researchers.

EU Delegation to Jordan

Germana Topolovec works at the EU Delegation to Jordan.