Dear Reader
We are pleased to present the latest SCCER Mobility news to you. This issue communicates major advancements and events of our research platform. Enjoy reading!

Dr. Gloria Romera, Managing Director SCCER Mobility

Management Office News

Monitoring phase 2017
The new monitoring phase has started and the Management Office (MO) appreciates your support in completing this important CTI requirement. New this year, it is obligatory to submit an additional 1-page description, including the corresponding report or publication and a representative picture or graph, for each reached milestone/deliverable. The MO will also utilize these short descriptions for the SCCER Mobility website, so it is a great chance to promote your work.

CTI communication and dissemination guidelines
In phase II of the SCCERs, CTI puts a strong focus on communication and dissemination of research results as well as on knowledge and technology transfer (KTT). This includes updating our website with research highlights, ongoing projects, phase II work plans, milestones and deliverables. This also entails improving the visibility of achievements from phase I and KTT activities. If you have any specific information to add, in particular 1-page descriptions of milestones and deliverables from phase I, please contact us. In addition, let the MO know, if you are planning any meetings or other events with industry partners, as these are also KTT activities.

Reminder acknowledgement guidelines
The MO would like to remind you that you need to acknowledge SCCER Mobility and CTI in all reports and publications. The MO suggests including the following: “This research was supported by the Swiss Competence Center for Energy Research (SCCER) Efficient Technologies and Systems for Mobility, funded by the Commission for Technology and Innovation (CTI)”.

MAS|CAS in “Future Transport Systems” News

Final presentations CAS “Systemic Aspects of Future Transport”
On 13 July, the final presentations of the first CAS took place at Villa Hatt, ETH Zurich. Four student groups investigated possible mobility scenarios 2040 for Switzerland and for the city of Zurich. Presentations evaluated these scenarios, assessed the influence of future technological and non-technological (economic, political, social) factors along with putting results into a practical perspective. CAS participants were able to discuss their results with invited experts from public authorities as well as transportation service providers to gain an idea about the practical relevance of their work. For more details, follow this link.
Registration for the next CAS “New Business Models” is now open
Registration for the next CAS “New Business Models” is now open until **31 October**. The course focuses on developing and implementing new business models in the transport sector. For more information and registration, please visit the [program website](#) or contact Dr. Renate Grau.

**Interview series with Prof. Dr. Dominique Foray – perspectives from an innovation economist**
Dominique Foray is Full Professor at EPFL and leads the Chair of Economics and Management of Innovation (CEMI). He is also responsible for the content and design of the module dealing with innovation in mobility systems in the CAS “Systemic Aspects of Future Transport”. To get a glimpse of how an innovation economist assesses current and future developments in the transport sector, we will be featuring excerpts from an interview with Dominique Foray.

The introduction of the steam engine and the internal combustion engine triggered industrial revolution, transformed the transportation system and boosted past economic productivity. What could cause the next major industrial and economic revolution? Will it be linked to transportation yet again?

D.F.: For economists, productivity data is the ultimate decider of revolution hypothesis and considering these data, it seems that technological revolutions are rare events! Economists identify two revolutions only in the past (steam engine in the 1770s and the great decade of 1890s, which includes the internal combustion engine as one of the major innovation by this time). The next revolution is probably happening now although it might be too early to tell because the productivity trend is not yet clear (but there is here a concern about how do we measure productivity in a digital economy). In any case, the next revolution will of course affect and involve transportation as the two first ones did.

**Upcoming Events**

**SCCER Mobility 4th Annual Conference**
The 4th Annual Conference will take place on **15 September** at ETH Zurich (ML E12). Interesting talks are expected from the two invited keynote speakers, Andreas Lischke (German Aerospace Center DLR Berlin) and Michael Frambourg (Volkswagen AG). In contrast to previous conferences, the motto of this year’s event is ‘cross-cutting’ research. Three sessions will cover themes relevant to all Capacity Areas (CA) and include presentations from SCCER Mobility and external experts. The **Best Poster Award** is also new this year. The six best poster authors will have a chance to present their work in a 3-min pitch and win the contest. To participate, please register and upload your poster (preliminary version) or email it to Fiorella Meyer by **31 August**. More information and the final program will follow soon.

**SCCER School “Shaping the Energy Transition”**
The first SCCER School will take place on **17-20 October** in Engelberg, a Swiss energy city. It is geared towards members of any of the SCCERs and will deal with the big picture of the energy transition. Themes will focus on global drivers for a national energy strategy and all other aspects pertaining to energy (market, storage, supply, consumption and distribution). **Registration** is open until **5 September** and more details can be found in the program. Expand your network and find out how your research can contribute to the energy transition!

**66th Life Cycle Assessment Discussion Forum**
This discussion forum, taking place on **30 August** in Zurich, will provide insights into state-of-the-art assessment of mobility, from individual technologies to the system level and covering associated environmental, social and economic aspects. User-friendly tools for the comparative evaluation of mobility options and assessments of large-scale mobility solutions for entire regions will be presented. Stefanie Hellweg, CA B1 deputy coordinator, is the president of the forum. Please refer to the [program](#) or the [website](#) for more information.
First SCCER Mobility working paper now completed and available online
SCCER Mobility presents some of the results from phase I in its first working paper entitled *Towards an Energy Efficient and Climate Compatible Future Swiss Transportation System*, finalized on 9 May. The report analyzes the status of the Swiss transport system and outlines possible development paths towards a more sustainable mobility future. A short document in German is in the making to serve as a communication and outreach tool to professionals, policy makers and opinion leaders working in the transport sector. To download your copy of the full report, follow this [link](#).

Start-up and Entrepreneurship Workshop
The Start-up and Entrepreneurship Workshop took place on 8 June at ETH Zurich. Approximately 20 participants learned about support offered by CTI, ETH transfer and other academic institutions for start-ups and entrepreneurs. Presentations by two start-up founders gave insights into challenges they faced while launching their businesses. During the apéro, participants were able to network and gather more ideas on how to bring their research to the market. More information can be found [here](#).

New study on lithium-ion batteries
The BFH-CSEM Energy Storage Research Centre, led by SCCER Mobility deputy head Andrea Vezzini, published a new study on lithium-ion batteries (LIB) this year. The report evaluates current LIB testing procedures and specifications. Although, it focuses on military applications, it is also interesting for a wider audience involved in the purchase, transport, storage, application and disposal of LIBs. More details and download instructions are available via this [link](#).

Adaptricity AG on board
We would like to welcome Adaptricity AG to the SCCER Mobility network. The ETH spin-off company of the Power System Laboratory will collaborate with research carried out in CA B1. The company specializes in developing software tools to simulate and analyze distribution grids to improve understanding and respond to the challenges of the energy transition for electricity grids. Read more about Adaptricity’s involvement in SCCER Mobility [here](#).

Please visit the SCCER Mobility website for more news from our partners.

SCCERs

The 2017 SCCER-SoE Annual Conference will take place 14-15 September at the Swiss Federal Institute for Forest, Snow and Landscape Research WSL in Birmensdorf, ZH. This year’s motto is “Hydropower and Geo-Energy in Switzerland Challenges and Perspectives”. The first day will deal with the big picture of electricity supply and the second day will focus on SCCER-SoE research activities and highlights. To find out more details and registration information, follow this [link](#).

The 4th SCCER-FURIES Annual Conference will be held on 2 November at the Swiss Tech Convention Center in Lausanne. SCCER-FURIES is working towards upgrading the Swiss electrical infrastructure to enable the integration of massive and decentralized power generation and rising technologies such as electric vehicles. The conference will bring together experts working in the field, present cutting-edge results from researchers, and facilitate the establishment of new collaborations. Please book the date and for further information please contact Georgios Sarantakos.
This section intends to widen the common ground between all SCCER Mobility partners. Contributions from our members are welcome. To make suggestions for this section, please contact the Management Office.

A life cycle assessment (LCA) is a thorough method to examine the range of environmental impacts of a product during its full life cycle. It considers all product stages from its conception, raw material extraction and processing, manufacturing, distribution to its use, repair, maintenance and finally its disposal or recycling.

The first phase of an LCA is the life cycle inventory (LCI), which aims to identify and quantify all inputs and outputs from and to the environment in all product stages. What goes in includes water, energy and raw materials. What comes out includes emissions into air, land and water.

The second phase is the life cycle impact assessment (LCIA). The goal of the LCIA is to evaluate the significance of the potential environmental impacts based on the LCI results. Emissions and resource consumption are grouped and weighted according to a set of impact categories and indicators.

Quiz

On average, how many kilometers does every Swiss resident travel by car or by public transport each day? The first person to send the correct answer to Fiorella Meyer is the winner (e-mail subject: QUIZ).

Solution of the previous quiz: 3,525 newly registered electric cars in Switzerland in 2016. The winner was Simone Nanzer from SCCER BIOSWEET. Congratulations!

This information is provided by the Management Office of SCCER Mobility. Our newsletter is issued 2-3 times per year. If you have information that you would like to share, please contact Kirsten Oswald.

In case you do not wish to receive our newsletter in the future, unsubscribe here.

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