SIMPLI-CITY PROJECT NEWS SEPTEMBER 2015 | No. 5

NEWSLETTER

SIMPLI-CITY - THE ROAD USER INFORMATION SYSTEM OF THE FUTURE

WORKSHOP at the International Motor Show/New Mobility World

Frankfurt (DE), 23rd of September 2015

We are happy to announce the workshop "***Smart Mobility Services for the Smart City: Architectures and Solutions towards a Service Market Place***" that will take place in the framework of the International Motor Show IAA/New Mobility World (http://newmobilityworld.com/) in Frankfurt on the Main (DE) on the **23rd of September 2015**.

SIMPLI-CITY hosts this workshop together with the 3 European sister projects STREETLIFE (www.streetlife-project.eu), PETRA (www.petraproject.eu) and MYWAY (myway-project.eu), that are all working in the field of technical innovations for Smart Cities.

Science and business experts as well as authorities will present and discuss technical solutions with a special focus on personalised mobility services for Smart Cities.

The international workshop will include a mixture of presentations and discussions and will feature a panel session.

Take the opportunity for knowledge exchange and participate at this international workshop.

The workshop admission is free of charge and includes coffee breaks and lunch.

Please note, that a "Day ticket workday" for the IAA/New Mobility World for 12/14 Euros (www.iaa.de/en/tickets/) is needed for the workshop admission!

Register here:
http://workshop.fgm.at

Dear Readers

Welcome to the fifth and final SIMPLI-CITY newsletter. During the last three years, the SIMPLI-CITY project has accomplished an impressive number of scientific and technical results. While being very happy about this, we are at the same time a little bit sad that the project is going to come to an end this month. Within this newsletter, you will find information about selected project results. Especially, we are giving an overview of SIMPLI-CITY's major outcomes and achievements as well as exploitable project innovations.

Prof. Dr. S. Dustdar & Dr. S. Schulte
TU Wien

Project Coordinator:
TU Wien, Institute for Information Systems, Distributed Systems Group
Prof. Dr. Schahram Dustdar
Dr.-Ing. Stefan Schulte
s.schulte@infosys.tuwien.ac.at

simpli·city
The Road User Information System Of The Future

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 318201.

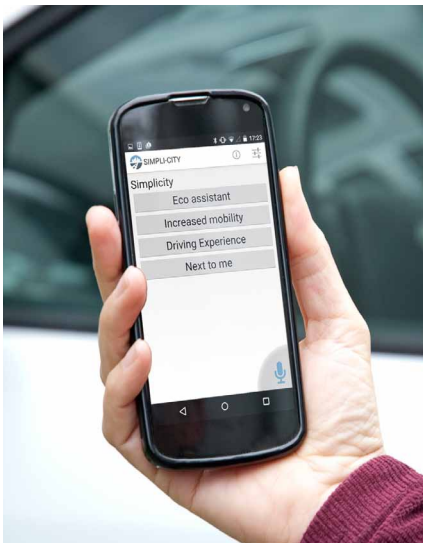
SIMPLI-CITY PROJECT NEWS SEPTEMBER 2015 | No. 5

NEWSLETTER

SIMPLY-CITY - THE ROAD USER INFORMATION SYSTEM OF THE FUTURE

Major Outputs and Accomplishments of 3 Years

Stefan Schulte/TU Wien



During the complete project runtime, SIMPLI-CITY's ultimate goal was to create an extensible and customizable Personal Mobility Assistant, which would be able to provide road users with all the information and functionalities they need for their daily journeys. The recent arrival of big players like Google and Apple into this market indeed shows that SIMPLI-CITY is at the forefront of a major change in the mobility world, demonstrating how the traditionally hardware-driven "product" mobility can be significantly changed by added software functionalities.

The SIMPLI-CITY consortium has always strongly believed that the larger part of innovative apps should be provided by third party software developers. Hence, it was the explicit goal of the project to offer software developers the means to build mobility-related services and apps and easily market them. For this, SIMPLI-CITY provided RTD results in three distinct fields: (i) Data as a Service, (ii) the Mobility Services Framework, and (iii) the Personal Mobility Assistant. Regarding Data as a Service, SIMPLI-CITY delivered methodologies and software solutions allowing the integration of mobility-related data from various, technologically heterogeneous data sources. Thus, developers do not have to take care of different data formats and protocols anymore. Instead, they are able to integrate data based on a unified data model and automated data transformations. The SIMPLI-CITY Mobility Services Framework includes not only a complete Service Runtime Environment which lets software developers run their own services in a Cloud-based, elastic environment, but also a Service Marketplace aiming at software developers who want to monetise their products. Finally, the Personal Mobility Assistant can be installed on the user's smartphone and provides a voice-based, multimodal user interface. Thus, road users – and especially drivers – are able to safely interact with apps in an intuitive way.

As part of the efforts to evaluate the outcomes of the SIMPLI-CITY project, several use case scenarios have been implemented to exemplify and illustrate potential SIMPLI-CITY-based mobility functionalities.

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 318201.

SIMPLI-CITY PROJECT NEWS SEPTEMBER 2015 | No. 5

NEWSLETTER

SIMPLY-CITY - THE ROAD USER INFORMATION SYSTEM OF THE FUTURE

For example, SIMPLI-CITY partner IBM has worked on algorithms which allow to diagnose and forecast traffic congestions. Explaining the causes of traffic congestions can be a very complex challenge. Half of the traffic congestions is recurring and can be related to peak time traffic conditions. However, this means that 50% is related to non-recurring incidents such as road accidents, roadworks, major events, or critical weather conditions. Based on the SIMPLI-CITY Data as a Service input, IBM's algorithms are able to explain to single users why a congestion currently occurs or may occur in the future. The forecasting results can be used during trip planning in order to avoid traffic congestions, leading both to positive aspects for the single user as well as the whole traffic situation, since less drivers may choose a road which will likely be congested. Users may also get live updates during their journeys, so that they can react on a short notice if the traffic situation likely changes in the near future.

Another use case scenario is aimed at environmental awareness rising. For this, SIMPLI-CITY partner Centro Ricerche FIAT extended their eco:Drive app with the EcoRace and EcoContest functionalities. EcoRace provides live feedback to the driver, giving hints about environmentally sustainable driving behaviour. This leads to positive effects for the environment as well as the driver in terms of smaller costs for fuel. The EcoContest allows to compare the own driving behavior with those of other drivers, thus providing further incentives for decreasing the individual ecological footprint.

Last but not least, some numbers: To this point, 8 physical project-internal meetings and 2 review meetings have been held, with one review still to come. Myriads of project-wide conference calls have been conducted, plus an additional uncounted number of smaller phone conferences and bilateral meetings. 56 deliverables have been submitted to the European Commission with a total of 2828 pages (year 1: 1295, year 2: 935, year 3: 598 – and still counting). 23 software prototypes have been published at http://simpli-city.eu/deliverables and more than 30 scientific papers have been published in renowned journals and conferences.

Find more information about all major outcomes of SIMPLI-CITY here:
http://simpli-city.eu/deliverables

> Contact the author:
Stefan Schulte

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 318201.

SIMPLI-CITY PROJECT NEWS SEPTEMBER 2015 | No. 5

NEWSLETTER

SIMPLY-CITY - THE ROAD USER INFORMATION SYSTEM OF THE FUTURE

Innovations based on SIMPLI-CITY

Sven Abels/Ascora

Within the course of SIMPLI-CITY, a range of components have been created in order to realize the project idea. These components allow additional innovations to be realized on top of the project results, which include the creation of new apps, systems and services, that are independent of the SIMPLI-CITY platform. Several partners use these components to create new innovative products based on the project outcomes and are actively exploiting them internally and externally.

For example, partner TIE has used the SIMPLI-CITY outcomes to improve their systems in terms of scalability and robustness. Components from SIMPLI-CITY form the base for more scalable and faster content selection and delivery.

Another example is partner Ascora who has realized a new innovative app called CleverDrive which helps road users to drive more environmentally friendly, more efficiently and more cost-effective. This is achieved by raising awareness and providing driving recommendations. SIMPLI-CITY plays an important role in this aspect as its application runtime environment, its storage and its voice interaction components created a solid innovation baseline.

With making the technical components available as innovative and exploitable assets, SIMPLI-CITY has already laid out the base for new business relationships including contracts with suppliers, media firms and development agencies.

Find more information here:
http://simpli-city.eu/deliverables

Upcoming Events

Workshop "Smart Mobility Services for the Smart City"

23rd of September 2015, IAA/New Mobility World Frankfurt (DE)

Experts from science, business and authorities will present and discuss technical solutions with a special focus on personalised mobility services for Smart Cities.

> Link to website

ETC - 43rd European Transport Conference 2015

28th to 30th of September 2015, Frankfurt (DE)

This conference will focus on results from specific real-world application cases in selected cities and several other topics.

> Link to website

Civitas Forum 2015

7th to 9th of October 2015, Ljubljana (SI)

The theme of the Conference will be "Sharing the city" with a focus on sustainable urban mobility as an important driver to build an accessible and liveable city for all, as well as to improve the quality of urban life.

> Link to website

Design&Layout: FGM-AMOR · Pictures: p.1: i-stock (all); p.2: FGM (1&2), i-stock (3), p.3 (FGM) · All articles provided by the SIMPLI-CITY partners