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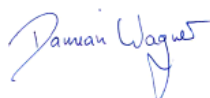Manchester Stavanger

Eindhoven

Dear Reader,

We are now in the fourth year of Triangulum and most of our 29 pilot projects have been implemented. With some of the implementation activity still ongoing, our main focus is now on the exploitation, replication and scaling up to our three Follower Cities Leipzig, Sabadell Prague and beyond.

This Newsletter issue thus informs you about the most recent activities within our three Lighthouse Cities, such as the iCity tender in Eindhoven or the 'Every Thing is Connected' event in Manchester, as well as about news from our Follower Cities: Leipzig, for example, has a new PR strategy and Sabadell is strengthening its relationship with research institutes by hosting student field trips.

Starting in July, Triangulum will be chairing both the SCC1 Board of Coordinators and the Communication task group – so there's a lot coming our way, and we are definitely looking forward to it! Stay connected for regular updates.

Now, we wish you a joyful read and invite you to visit our website www.triangulum-project.eu. There, you will always find the latest news and updates from our Lighthouse and Follower and the various Triangulum partners.

Yours sincerely,

Damian Wagner

Content

Triangulum ID

Title
Triangulum
Demonstrate, Disseminate,
Replicate

Programme
European Union's Horizon 2020
Researched Innovation Programme

Duration
01/02/2015-31/01/2020

Budget
30 million Euro overall budget
25 million Euro funding from H2020

Project management
Fraunhofer Institute for Industrial Engineering (IAO), Universität Stuttgart, Steinbeis-Europa-Zentrum

newsletter

Progress in our Lighthouse Cities

Tenants in Charge of Renovation Processes

In Eindhoven's Eckart district, Woonbedrijf invites tenants to take ownership of the renovation processes of their own houses. To make this possible, Woonbedrijf experiments with renovating houses one by one.

Picture 1. Eindhoven tenant using WoonConnect

This means that an individual house in a block of houses can be renovated at the most convenient time of the tenant according to his or her individual choices – and not when the housing association deems it appropriate. The entire project is about understanding that a housing association may own houses, but that it is the tenants who call it their home!

Read more…

iCity Tender in Eindhoven

On Tuesday, 10 April 2018, the Triangulum project partners attended the iCity tender event at Strijp-S in Eindhoven, where the winning projects presented their innovative ideas. Together with the municipality of Eindhoven, TU/e and VolkerWessels were looking for the best ideas to stimulate the smart city ecosystem and to thus create new smart city services and products.

Picture 2. Hans van Amelsvoort moderating the iCity tender

Out of 63 applications, eight projects really stood out, receiving financial support of overall 280k. As Roger Boersma of iCity Smart Monitoring says, "funding speeds up the process of innovation". And he is right!

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Progress in our Lighthouse Cities

MMU Go Green Week feat. Siemens Energy Seminar

As current first place champions of the People & Planet University League, Manchester Metropolitan University hosted a jam-packed week of activities during February. The Environment Team led the calendar of events, encouraging staff and students to take action on environmental and sustainability issues such as climate change and plastic pollution.

Picture 3. Go Green Week logo

As part of the event, Triangulum was represented both through a general information stand in the exhibition area and also through the first of a series of 'Energy Seminars' hosted by project partner Siemens.

Read more…

"Every Thing is Connected" Event in Manchester

From 20-22 March 2018, Manchester welcomed over 300 delegates from 12 countries to three days of showcasing Manchester's smart city activities. On day 1, the URBACT III project SmartImpact, led by Manchester City Council, shared their outcomes with keynotes and workshops. Resources can be found at their project website. On day 2, participants saw CityVerve and Triangulum 'in action', with demonstrations of various applications developed in relation to the themes of energy, environment, health and social care and culture. Day 3, hosted by Future Everything, brought together academics, innovators and thinkers to consider issues raised by a data driven society.

Picture 4. Central Auditorium with Exhibitors Showcasing their Interventions

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Progress in our Lighthouse/Follower Cities

Manchester's First 'Innovation Challenge'

In February, Manchester partners Clicks and Links, Manchester Metropolitan University (ManMet) and Manchester City Council (MCC) welcomed participants to the first Triangulum 'Innovation Challenge'.

Picture 5. Participants of the Triangulum Innovation Challenge

Over the course of half a day, proposals for energy saving measures were prepared, which could be taken across the ManMet Birley campus and beyond. The challenge also involved reviewing Clicks and Links' 'Beat the Peak' application, created for ManMet to allow them to promote and monitor energy savings the students are making. This 'softer' activity will complement the Triangulum Central Controller trials also taking place at ManMet, where Demand Side Response and local distribution charges (DuoS) scenarios are being tested.

Read more…

Follower Meets Lighthouse City: Leipzig Goes Stavanger

On Sunday, 22 April 2018, 15 people from our Follower City Leipzig (DE) got aboard a plane to visit our Lighthouse City Stavanger (NO) to learn more about the smart implementations happening there. Politicians, city representatives and mobility and transport representatives first visited the county council and the Triangulum partner Lyse, followed by an entire day at the municipality. During a joint dinner on Monday evening, which was hosted by the county council, people from Leipzig and Stavanger had the chance to really get to know each other as well as each other's visions and to lay the foundation for an even deeper cooperation aimed at the replication of smart and innovative ideas.

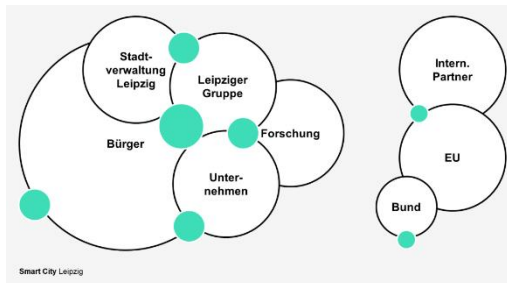Picture 6. Leipzig and Stavanger Representatives in front of Battery Bus

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Progress in our Follower Cities

New Way of Communicating "Smart City" in Leipzig

With the beginning of this year, the Follower City Leipzig has been overhauling and improving its communication strategy for promoting smart city activities in Leipzig. Besides the communication channels of Triangulum (such as this newsletter), each participating city is faced with the task of successfully communicating itself the "Smart City" towards its citizens, businesses and institutions.
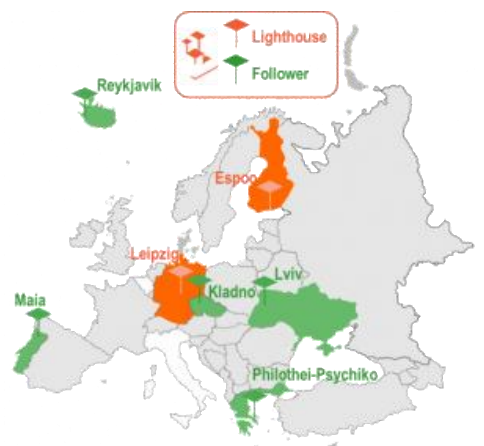

Picture 6. New Visual Ways of Communicating the Smart City Structure in Leipzig

The newly developed communication strategy will help to further advance the communication efforts in Leipzig. Besides the renewal of the visual components, the existing website will be restructured. A common visual concept will be established, which will be used in presentations, flyers and any other publication in the future.

Read more…

From Follower to Lighthouse City - SPARCs

The Follower City Leipzig continues its efforts to realize measures and projects which have been developed within the Triangulum-Project so far. At the beginning of April 2018, Leipzig submitted the proposal SPARCs (Sustainable energy Positive & zero cARbon Communities) in response to the Horizon 2020 call "H2020-LC-SC3-2018-2019-2020 – Building a low-carbon, climate resilient future: Secure, clean and efficient energy".

Picture 7. SPARC's Lighthouse and Follower Cities

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Progress in our Follower Cities

Prague's Next Steps after Implementation Strategy

During 2017, the Follower City partner IPR Prague put a cross-sectoral cooperation into practice, in close collaboration with the City District of Prague 7 and the University Center for Energy Efficient Buildings (UCEEB), which is an institute of the Czech Technical University in Prague. In 2017, UCEEB was subcontracted to conduct a feasibility study which examines the system of social and health care for the elderly within the city district Prague 7. The study was created in collaboration with the IPR Prague between June 2017 and December 2017. Through the process of participatory design, relevant local stakeholders were engaged and individual needs of the represented seniors in Prague were mapped. There were interviews and workshops, also as part of planned activities within the replication activities of the Triangulum project.

Picture 8. Working on the Implementation Strategy

[Read more…](#)

Student Field Visit in Sabadell

On 23 March, students of the postgraduate course on smart cities from the Polytechnic University of Catalonia visited the Sabadell municipality. This field trip was part of a practical session carried out in several cities to learn more about the most innovative municipal services related to urban mobility, energy, knowledge economy or information technology and communication.

Picture 9. PUC Students at municipality

Vice versa, for the municipality, it is important to learn about the students' visions and to establish permanent links with the university and research institutes. Like this, the city council has the chance to leverage the transfer of external knowledge directly into the city in the area of innovation and new technologies, as established in the 2016-19 Government Plan of Sabadell.

[Read more…](#)

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Other News

Follower City Event in Brussels, 26 January 2018

On 26 January 2018, representatives of 40 European cities sat around the table at the Innovation and Networks Executive Agency (INEA) with industry representatives and experts to ensure that the €263.84 million invested by the Commission through the Horizon 2020 Smart Cities and Communities programme generates returns.

The funding provided by the H2020 programme is generating savings by stimulating common solutions to shared challenges, allowing cities to collaborate on design, and even engage in cross-border joint procurement. When cities create scale through demand aggregation they have the power to shape and influence the market.

40 cities making a joint purchase of 1000 electric busses have a lot more power to dictate prices and standards than each city individually seeking to purchase 25 units. Reducing 40 transactions to a single one also means spending only a fraction of the man-hours that would otherwise be needed.

Read more...

Triangulum Review Meeting in Eindhoven

The 22 Triangulum partners met from 10 to 11 April 2018 in Eindhoven for their second Review Meeting. Project Officer Manuela Conconi reviewed together with Robert Goodchild, the head of the Energy Research Unit in the European Commission's Innovation and Networks Executive Agency (INEA) and the external expert Lola Alacreu Garcia the progress that Triangulum as a whole has made within the last 18 months.

Picture 10. Triangulum project members and the EC reviewers at the Review Meeting in Eindhoven

Not only was it an extremely productive meeting, providing insights, but the consortium and our visitors also had the great opportunity to get in touch with the Eindhoven projects during a field trip. We are looking forward to our next project meeting in Manchester in October!

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Other News

Smart Society Academy courses 2018

With the initiative, we are tackling one of the key issues on European Smart City developments: capacity building.

Since 2017, the Smart Society Academy has offered hands-on and up-to-date training in the Smart City area. The initiative builds on the expertise and the knowledge of the Morgenstadt community and Triangulum. In 2018, three courses will be offered: two public and private sector courses on Urban Space and Urban Movement (SSPA) and a summer school in the Brainport region for young professionals and students (4S).

4S BRAINPORT

After a successful start in 2017, the one week innovation boot camp goes into a 2nd round. Students and young professionals will work on topics regarding the Urban Agenda.

Read more...

Become a Smart City Manager – Register Now!

For cities and companies investing strategically into Smart Cities for medium and long term, an expert committee consisting of several Triangulum partners has developed two holistic integrated courses for educating towards Smart City Managers.

SSPA URBAN MOVEMENT

Focusing on technologies relevant for Urban Movement such as: active and shared mobility, digital (public) transportation, and new mobility and logistic concepts.

SSPA URBAN SPACE

Focusing on technologies relevant for Urban Space such as: smart lighting, public sensors, smart water infrastructure, nature-based solutions and mixed use concepts.

BOTH COURSES

Covering current trends and developments in smart cities, citizen engagement, financing and innovative procurement.

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SCC1 News

Joint SCC1 Meeting in Lisbon

On 12 April 2018, Triangulum and representatives of the other eleven Horizon 2020 SCC1 smart city projects met in Lisbon during the Portugal Smart City Summit to sign a manifesto of cooperation. The manifesto is an agreement between cities to significantly change the smart city market place. The signing took place during a day full of workshops where the 76 cities from all over Europe discussed their progress in enhancing energy efficiency and collaborating with the private sector to create models for doing business that will perpetuate and multiply the effects of the EU's investment.

Picture 11. Lisbon City Hall

After intensive thinking and collaborative working, a study visit to the historic Lisbon city hall inspired city leaders by showing how heritage buildings can be protected while at the same time improving energy ratings.
Read more...

News from our Sister Projects

Triangulum is one of twelve European Smart Cities and Communities Lighthouse projects, currently receiving funding within the European Union's Horizon 2020 Research and Innovation programme.

The three latest Lighthouse projects STARDUST, IRIS and MAtchUP have launched their project websites. Have a look at:

• www.stardustproject.eu
• ww.irissmartcities.eu
• www.matchup-project.eu

The mySMARTLife partners gathered in Lighthouse City Helsinki from 12-14 February 2018 for their third periodic meeting to exchange about current achievements and future work in the demo areas. In addition, a first exploitation workshop was organised to identify promising project results to be exploited beyond the project duration. On the second day, a project-funded E-bus took the participants to the demo-site "Merihaka & Vilhonvuori" residential retrofitting area as well as the "Kalasatama" new construction area.

Read more… and learn more about their mySMARTLife Network

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Past Events

Some of the events attended by Triangulum's project partners:

Every Thing is Connected, 20.-22.03.2018, Manchester (UK)
Further information

Smart Cities Conference at University of Salford, 24.04.2018
Further information

Knowledge Sharing Meeting between Triangulum (MCC/Siemens) and its sister project Ruggedised (Glasgow City Council), 10.05.2018 in Manchester (UK)

KNECT Smart to Future Cities, 25.-26.04.2018 in London (UK)
Further information

Further Upcoming Events

Major Cities of Europe Conference, 28.-30.05.2018 in Leipzig (Germany)
Further information

68. Tagung des Deutsch-Österreichischen URBAN-Netzwerkes in Leipzig, 24.-25.05.2018 in Leipzig (Germany)
Further information

"Stadt forscht Zukunft" - 14. BMBF-Forum für Nachhaltigkeit, 05.-06.6.2018 in Leipzig (Germany)
Further information

Upcoming Events

Find Triangulum's partners at the following events this year:

EU Sustainable Energy Week, 04-08.06.2018 in Brussels (Belgium)
Further information

EIP-SCC General Assembly, 27.-28.06.2018 in Sofia (Bulgaria)
Further information

Nordic Edge Expo, 25.-27.09.2018, Stavanger (Norway)
Further information

Smart City Expo World Congress, 13.-15.11.2018, Barcelona (Spain)
Further information

"Big Data and the Smart City" panel during Connected Britain, 19.06.2018 in London (UK)
Further information

"Cooperative and Circular Maker Spaces" with Vallès Occidental County and Autonomous University of Barcelona at OSCE days, 08.06.2018, Sabadell (Spain)
Further information

Urban challenges from Sabadell at the "SmartCAT Challenge" organised by the Government of Catalonia, 25.06.2018 in Barcelona (Spain)
Further information

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Partners

Project Management	Fraunhofer IAO	Universität Stuttgart	STEINBEIS-EUROPA-ZENTRUM		
Eindhoven	EINDHOVEN	TU/e Technische Universiteit Eindhoven University of Technology	kpn	WOONBEDRIJF	VolkerWessels
Manchester	MANCHESTER CITY COUNCIL	MANCHESTER 1824 The University of Manchester	Manchester Metropolitan University	SIEMENS	Clicks+Links
Stavanger	STAVANGER KOMMUNE	GREATER STAVANGER	Universitetet i Stavanger	ROGALAND FYLKESKOMMUNE	Lyse
Replication	Fraunhofer FOKUS	IPR PRAHA	Ajuntament de Sabadell	Stadt Leipzig	TÜV SÜD

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