



September 2018

Dear Reader,

Is summertime really over? It seems like pumpkins and fog are lurking just around the corner. But the season of autumn also comes with many Smart City events all over Europe. So let's not mourn the last rays of sunshine, but rather focus on the many exciting conferences and exhibitions that are about to come!

This month, Triangulum, as the current chair of the SCC1 group, is hosting the biggest joint SCC1 event of this year in our Lighthouse City Stavanger. The Nordic Edge (which is also the biggest Smart City event in the Nordics!) is actually a Triangulum spinoff and, together with the Fraunhofer Morgenstadt initiative, the entire SCC1 community will meet and showcase the pains and gains of their ongoing projects as well as demonstrate their development towards a city led European Smart City market. Join us at an entire day filled with public and internal sessions where topics ranging from replication to data platforms and best communication practices will be discussed.

We are looking forward to meeting you in Stavanger!

Yours sincerely,

Project coordinator of Triangulum

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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



Nordic Edge 2018

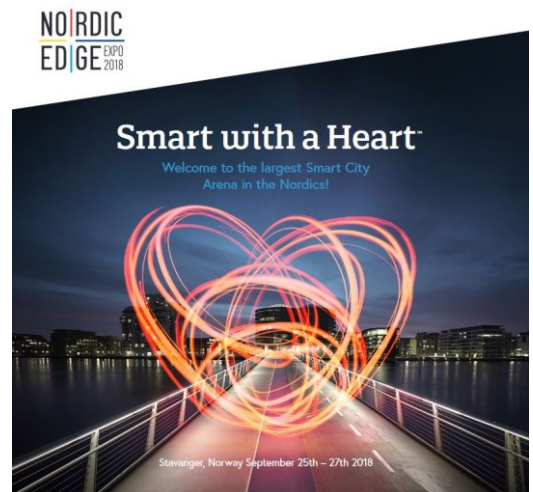
Trial. Innovate. Scaling Up.

Lessons Learned from Europe's Smart City Lighthouse Projects

It is September and we all know what this means: **It's Nordic Edge month!** This year, it is the fourth time that Smart City experts, project and city representatives, the European Commission, smart technology providers, start-ups and universities are gathering in Stavanger, Norway to visit and participate in the most significant Smart City event in the Nordics. Don't miss out and be one of thousands of visitors when the theme of Nordic Edge 2018 is "Smart with a heart", emphasizing the quest that Smart Cities and societies are not only about technical advances and energy efficiency but also about the citizens that live and work in them.

The Nordic Edge is always a special event for Triangulum, not least because it is taking place in one of our three Lighthouse Cities but also because project partners such as Lyse AS, Stavanger Kommune or Greater Stavanger are some of the founding mothers of the event. This year, Triangulum functions as the chair of the SCC1 Board of Coordinators as well as the Communication Task Force, which means that we have been putting all our forces together to make Nordic Edge 2018 an exciting event! In line with this year's theme, the SCC1 group has put all their heart into the organization of the event. And the results are impressive:

The SCC1 group is contributing with an entire day dedicated to the Horizon 2020 SCC1 projects, a joint booth at the exhibition area, internal task force meetings, a city site visits to Stavanger's demo sites, an informal get together, several side events such as replication workshops or pitching events for startups (organized by the city network Morgenstadt) and much more. So join our group of currently 78 cities involved at this special event: meet us, talk to us and learn from our experiences regarding topics like replication, big data, business models & finance and how to best communicate these results to the outside world! [Read more](#)



Nordic Edge 2018 – Smart with a Heart
(Picture: www.nordicedgeexpo.org)

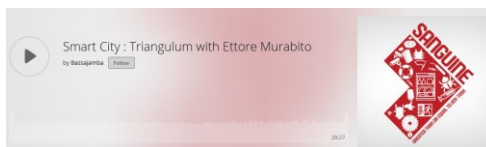


Progress in our Lighthouse Cities

Interview with Ettore Murabito from Manchester

Earlier this year, Ettore Murabito from the University of Manchester was contacted by Reina Yaidoo via the Triangulum project's [Manchester-I.com](http://manchester-i.com) website.

Reina Yaidoo is the host of *Sanguine*, a show broadcast by the local radio station *North Manchester FM*. *Sanguine* focuses on science, technology as well as social and health related issues of today's life in the city of Manchester.



Recording of the interview
(Picture: www.mixcloud.com)

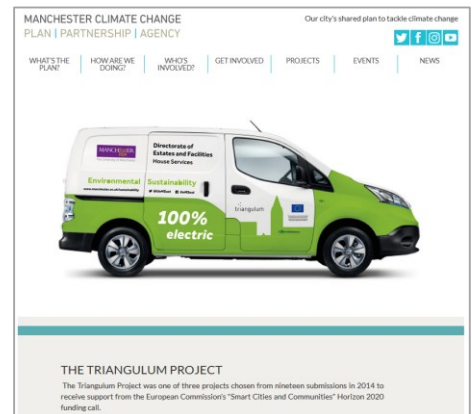
Manchester is home to a number of Smart City projects (some supported by the EU, like Triangulum) that are reshaping the way people live. Reina had come across Triangulum's [Manchester-I.com](http://manchester-i.com) website and became interested in the notion of establishing a city-scale data curation service, the rationale of such an initiative and its implications on the many aspects of urban development and citizens' life.

[Listen to the interview here](#)

Triangulum at Manchester's Climate Change Website

The *Manchester Climate Change Agency* (MCCA) has recently launched its new website which includes a Triangulum page and a link to the Triangulum project website as well as our YouTube channel:

<http://manchesterclimate.com/content/triangulum-project>



MCCA Triangulum page
(Picture: www.manchesterclimate.com)

Manchester is a city committed to action on climate change. In January 2016, just one month after the Paris Agreement, it has developed the *Manchester Climate Change Strategy* committing the city to 'become zero carbon by 2050' through working in partnership on projects such as Triangulum, GrowGreen and Our Faith Our Planet.

[Read more...](#)



Progress in our Lighthouse Cities

Smart Mobility in Eindhoven at Strijp-S

One goal of the Smart Mobility program at Strijp-S was to present better and more precise parking management information to visitors such as reserved (licence plate) parking, a guided parking route and detailed parking information. By offering this new technology, Strijp-S improved guidance and orientation in the area. By decreasing the time a visitor has to spend there, e.g. on finding a parking spot, trips are made more efficient, which in turn leads to substantially less CO₂ emissions.



Strijp-S Wayfinder
(Picture: Volker Wessels)

To improve the wayfinding to and then at Strijp-S, the parking hardware has been upgraded. With this upgraded system, a new information and park reservation and management software platform has been developed. For pedestrians and cyclists, additional route location information is now being provided via so called *Wayfinders*, each of which consists out of 8 interactive and programmable LED displays.

[Read more...](#)

Stavanger Received Award for Implementing Smart Solutions

At the beginning of September, Stavanger received an award as "Future City" in Ningbo, China. The prize is being awarded to cities that have shown that they dare to be leaders in testing new, sustainable solutions.

Gerd Seehuus, Local Coordinator of Triangulum Stavanger, Project Manager Per E. Fjeld from Lyse AS and Professor Chunming Rong from University of Stavanger travelled to the Chinese friendship city Ningbo to receive the prize.

"This is an important acknowledgment of Stavanger's partnership and shows that cross-sectoral and academic cooperation is necessary to solve the challenges in the cities. A project like Triangulum is very educational and valuable to the partners, the city and the whole region", says Seehuus.



Per Fjld, Gerd Seehus and Chunming Rong
receiving the prize
(Picture: Stavanger Kommune)

[Read more](#)

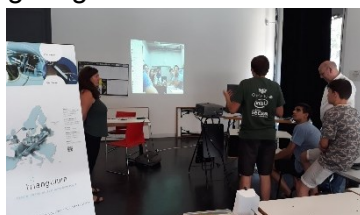


Progress in our Follower Cities

Simultaneous *Summer Crash Course* in Eindhoven/Sabadell

In this digital era, courses can take place at the same time in two different places! From 15-19 July, this is what happened in one of Triangulum's Lighthouse- and Follower Cities: a course on prototyping in health, sport and urban innovation sectors, called *Summer Crash Course*, took place in Sabadell (Mediaestruch) and Eindhoven (Innovation Space of the Technology University of Eindhoven (TUE)) at the same time. TUE made this synchronicity possible via a telematic connection.

It is expected that through this course, new start-ups are incubated, and new prototypes are invented and tested the city of Sabadell. With the help of design-thinking, various ideas and challenges have been discussed. During the course, 4 out of 16 challenges proposed by the City Council of Sabadell were discussed: green mobility at schools, care of the elderly, urban digital modelling in 3D and public lighting.



Summer Crash Course
(Picture: www.summercrashcourse.nl)

Renewal of Sabadell's Municipal Fleet with E-Vehicles

Sabadell is an excellent example of replicating successful solutions in a Follower City: the city is proud to announce that their municipal fleet of vehicles has been renewed according to sustainability criteria as part of Sabadell's *Follower City Implementation Strategy*. This means that new e-bikes, e-motorbikes and e-cars have been or will be purchased until the end of 2018 for municipal use.

With the financial aid of Barcelona's provincial council, already 15 e-bikes have been purchased.

Moreover, two electric motorbikes will be purchased and one e-car as well as one e-van are going to be tested through an agreement with Nissan.

Finally, with the help of a tender process facilitated by the *Catalan association of municipalities* (ACM), up to 15 e-motorbikes are planned to be purchased in the coming months.

[Read more...](#)



Progress in our Follower Cities

Prague's „Smart Home Care“ Pilot Project Approved

The City Council of Prague 7, together with the mayor Mr. Cizinsky, has analyzed the feasibility study conducted within Triangulum and its proposed measures. On 15 June, the City Council of Prague 7 officially approved the feasibility study of the Smart Home Care pilot project.

The City Council appointed Mrs. Marcela Janečková to coordinate activities that would lead to the prioritisation and implementation of the proposed measures in the near future. The councilor for the social area, Jakob Hurre, has been appointed to oversee the involvement of the municipal organisation of Prague 7 and the implementation of the proposed measures.

Finally, members of IPR Prague, representatives of Prague 7 and representatives from the Czech Technical University will participate in a training organised by Lyse and Stavanger and they will attend the Nordic Edge conference. The aim is to pilot a project testing Lyse's BLINK video communication tool in the context of the District of Prague 7.

Meeting on „Innovations in Home Care Services“ near Prague

Representatives of IPR Prague participated in the kick-off meeting of the Platform of Social Live Science on 19 June which focused on “Innovations in home care services”. The event was launched by the Central Bohemian Innovation Centre which is the coordinator of the platform and located in Dolní Břežany. The aim of the platform is to strengthen the cooperation between stakeholders interested in innovative social home care and to discuss solutions on different levels.

During the meeting, representatives from different institutions presented their approaches for innovative social home care. For instance, Vít Janovsky from the University Centre for Energy Efficiency (UCEEB) presented ideas for smart home care in Prague 7, which are the outcomes of the feasibility study that was conducted within Triangulum project.



Impressions from the meeting
(Picture: IPR Prague)

[Read more...](#)



Progress in our Follower Cities

DE and AT cities at the 68. URBAN-Netzwerktagung

On 24 and 25 May, the 68. *URBAN-Netzwerktagung*, an exchange platform for German and Austrian cities, took place in Leipzig.

Stakeholders from different cities presented their individual approaches for a city between technological progress and social cohesion. The focus was on the question of how technological progress in the growing city and social issues can be combined. Around 40 participants were involved in the discussion, also addressing further questions about different projects and strategies like housing, energy and funding opportunities.

The conference ended with a visit to the thermal storage system of the *Stadtwerke Leipzig* and the mobility stations of the *Leipziger Verkehrsbetriebe* as crucial and functioning examples for smart infrastructures in a growing city.



Thermal storage system
(Picture: Jonas Scholze, DV)

Conference of “Major Cities of Europe” in Leipzig

The annual conference of *Major Cities of Europe* (MCE) took place in Leipzig from 28-30 May. It has been organized and hosted by MCE in close cooperation with the City of Leipzig and the municipal IT supplier LECOS GmbH.

Under the headline “Are we ready? Taking the digital city to the next level”, multiple leaders, stakeholders and experts from across Europe came together for exchange. Different sessions with a variety of formats took place with topics ranging from open and big data to digital government in practice and required skills for digitisation in governmental structures. The Major Cities of Europe conference was a great success for the organization and for Leipzig as well. Close to 200 delegates from 18 different countries gave unanimously very positive feedback.



Major Cities of Europe Conference
(Picture: MCE)

[Read more...](#)

[Read more...](#)



Other News

Triangulum Webinar about „Urban Biking“

The Triangulum webinar about “Urban Biking” took place on 29 May from 9-10:30 AM. It was attended by around 20 participants from across Europe who not only listened to the presentations but also got actively involved by asking questions and taking part in lively discussions.

During the webinar, Richard Armitage from *Manchester Bike Hire* gave a talk with the title “Delivered by Bike! Cycle Logistics”. Billy White and Michael King from Manchester’s *Clicks & Links* spoke about “Virtual Reality Biking” and Oriol Llevot and Josep Canals from the Follower City Sabadell presented their “Managing Plan of Bicycle of Sabadell & Bike-friendly Actions”. The 90 minutes were thus filled with diverse insights into what has been going on in the Triangulum Lighthouse- and Follower Cities while at the same time illustrating how other cities can replicate these solutions.



Triangulum Webinar “Urban Biking”
(Picture: GetResponse)

New Triangulum Brochure to be Published Soon

Triangulum is publishing a new brochure soon, informing about the project in general as well as its major outcomes so far. Make sure to pick a copy once printed to learn more about the progress in the Lighthouse Cities such as the *Central Energy Plant* in Stavanger, *Data Curation and Visualisation* in Manchester and the *Smart Lighting Route* in Eindhoven. Moreover, the brochure informs about the replication status of our three Follower Cities Leipzig, Prague and Sabadell as well as about the Smart Cities and Communities (SCC1) Network.



Preview of the new Triangulum brochure

Missed the webinar? Head over to our Triangulum website and watch the recording: [Click here](#)



SCC1 News

Smart Cities Information System - SCIS



EU Smart Cities
Information
System

(Picture: SCIS)

The *Smart Cities Information System* (SCIS) is a knowledge platform to exchange data, experience and know-how and to collaborate on the creation of Smart Cities. SCIS thus brings together project developers, cities, research institutions, industry, experts and citizens from across Europe. [Check out their website](#), if you haven't already!

SCIS focuses on people and their stories. Through storytelling, they portray the "human element" of changing cities: Listen to their podcast "[Urban Reverb](#)" to learn about bidirectional chargers or behavior change with real and fascinating stories from smart projects such as Sharing Cities, SmartEnCity or ZenN.

News from Triangulum are regularly being featured in the monthly newsletter "[Ask, Learn & Share](#)". Moreover, our Lighthouse City Manchester will soon be featured in an interview conducted by their storyteller Arthur Lankester. So, [sign up](#) for their newsletter to stay informed about what's going on in the Smart City community and to be the first to learn about upcoming events and activities.

News from our Sister Projects

SmartEnCity has published first project outcomes at their website. Head over to www.smartencity.eu/outcomes to learn about Sonderborg's, Tartu's and Vitoria-Gasteiz' city solutions, watch project videos or find out what their individual smart city approach looks like in their public papers.

In Skopje, one of the Follower Cities of MAtchUp, two electric buses have been introduced. The buses consume a minimum amount of electricity and are equipped with a quick charging system. The biggest advantage is that there is no emission that pollutes the air! Skopje is now ranked among the European metropolitan cities using electric buses. [Read more](#)

As part of mySMARTLife, project partner Helen is providing a free charging station for electric cyclists on the Katajanokka waterfront in its Lighthouse City Helsinki. The e-bike charging station is the first of its kind in Finland and utilises solar panels and an electricity storage unit as power sources. [Read more](#)



Past Events

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

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](#)

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

[Further information](#)

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

[Further information](#)

"Cooperative and Circular Maker Spaces" at [OSCE days](#), 08.06.2018, Sabadell (Spain)

[Further information](#)

Urban challenges from Sabadell at the "SmartCAT Challenge", 25.06.2018 in Barcelona (Spain)

[Further information](#)

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

[Further information](#)

Upcoming Events

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

Nordic Edge Expo & Conference, 25.-27.09.2018, Stavanger (Norway)

[Further information](#)

CROSS-SCC Replication Workshop, 28.09.2018 after the Nordic Edge, Stavanger (Norway)

[Further information](#)

Triangulum General Assembly, 16.-18.10.2018, Manchester (UK)

Smart City Solutions Expo & Congress, 16.-18.10.2018, Frankfurt (Germany)

[Further information](#)

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

[Further information](#)



Partners

Project Management



Eindhoven



Manchester



Stavanger



Replication



Follow us on Twitter: [@Triangulum_EU](https://twitter.com/Triangulum_EU)

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