

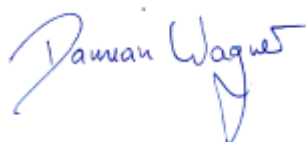


Dear Reader,

First of all I would like to congratulate the Triangulum Consortium. Triangulum has successfully passed the first periodic reporting to the European Commission which included the assessment of the progress made in our Lighthouse Cities.

This newsletter will provide the reader with in-depth information about Triangulum and about some of the lessons learnt from two years of Smart City development and implementation.

We hope that you will enjoy reading it and we kindly invite you to visit our website at [www.triangulum-project.eu](http://www.triangulum-project.eu) which will also keep you updated about all current and upcoming activities in the Triangulum project.



Project coordinator of Triangulum

### Content

- [Editorial](#)
- [News](#)
- [Events](#)

### Triangulum ID

**Title**

Triangulum  
Demonstrate, Disseminate,  
Replicate

**Programme**

European Union's Horizon 2020  
Research and Innovation  
Programme

**Duration**

01/02/2015-31/01/2020

**Budget**

29.5 million Euro overall budget  
25.4 million Euro funding from  
H2020

**Project management**

Fraunhofer Institute for Industrial  
Engineering (IAO)  
Steinbeis-Europa-Zentrum



News

Triangulum meets in Sabadell

From 10<sup>th</sup>-12<sup>th</sup> October 2016 the Triangulum partners met in the project's Follower City Sabadell to discuss the project's progress. Cargo bikes, parking apps, smart home safaris were just some of the measures that the Triangulum Lighthouse Cities Manchester, Eindhoven and Stavanger have implemented over the last months. The three Follower Cities – Leipzig, Prague and Sabadell presented and discussed their ideas for future activities. The two intense days of the project meeting were followed by a review meeting with the European Commission, where the progress of the first 18 months of Triangulum was discussed.



Launch of Cargo Bikes in Manchester

Bikes are replacing cars – a vision of the future? Not anymore in Manchester. The city has officially launched the introduction of electric cargo bikes in the Corridor – an important element of the mobility measures foreseen within the city's Triangulum activities.

The bikes are being provided for use across the Departments of Manchester Metropolitan University and the University of Manchester. The aim is to reduce the number of small scale deliveries being made across the estate with traditional diesel vehicles. Each of the bikes is fitted with GPS tracking so that all journeys can be tracked and monitored and the reduction in carbon emissions be measured over the life time of the project.

[Read more](#)





## News

### Design competition for buses in Stavanger

One of the Triangulum activities in Stavanger is the purchase of new battery-powered buses. And the purchase process was a great opportunity for the people of Stavanger to get involved: the design of the buses was selected from their ideas.

Between February and April 2016, students at three Norwegian high schools took part in a competition to develop the design for decorating three new battery-powered buses. The local newspaper featured the designs and thousands of votes were cast in a public vote. The three buses in the new design (see picture below) are scheduled to arrive in Stavanger in January 2017.

[Read more](#)



### Getting involved - a priority in Eindhoven

The local Triangulum team in the Lighthouse City Eindhoven has focused on getting its citizens involved during the last months.

Residents of Eckart Vaartbroek, one of the demonstration areas in Eindhoven, were invited to a workshop to have their say on how the project should develop around an innovative light route and to identify a priority list of the points to be considered.

This was done at an early stage of the project's activities in order to enable and maximise co-creation opportunities. Choosing to involve residents right from the start has meant that they have had the opportunity to influence the foreseen activities right from the planning phase to their implementation.





## News

### Stavanger present Triangulum activities in three new videos

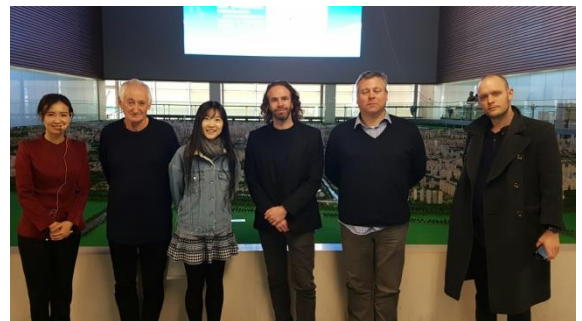
Learn more about the local Triangulum activities in Stavanger in three videos showing the [kick-off event of the bus design competition](#), [Stavanger University's role in the Triangulum project](#) as well as the project activities of [Triangulum partner Lyse](#).



### Visit of Triangulum observer city Tianjin

A delegation from Manchester City Council, the University of Manchester and e-forum visited Tianjin in China on 9<sup>th</sup> December 2016 to develop their role as an observer city in Triangulum.

Mark Duncan, James Evans, Shaun Topham and Paul Stewart were hosted by the Tianjin Foreign Affairs Office at the Tianjin Urban Planning Exhibition Hall. In addition to looking at some of the city's smart developments including Binhai and the new eco-city, plans were made to share Triangulum outputs with key partners in the city.





News

**Follower City Leipzig: Bringing Smart City topics to the citizens**



Smart Cities require citizen involvement. Over the past months, Triangulum’s Follower City Leipzig has made efforts to bring the Smart City topic closer to the inhabitants of the local focus district and to make their contribution to a city-wide strategy.

In September and October 2016, a series of thematic evening events on Smart City topics took place. Participants discussed visions, obstacles and their own project ideas for the smart development of the district. The results of these meetings will be part of the Smart City implementation plan to be developed within the Triangulum project.

A new website was launched offering information about the Smart City implementation progress in Leipzig-West.

The local Triangulum team is also working closely with other partners to engage Leipzig’s inhabitants in Smart City related topics within a series of lectures on city development and an expert discussion on Leipzig’s integrated urban development strategy.

[Read more](#)



News

**Delegates of Berlin Energy Agency visit Manchester**

On 18<sup>th</sup> October 2016, the Triangulum project partners in Manchester welcomed a group of delegates from Berlin Energy Agency. They were attending as part of an H2020 funded Urban Learning programme.

Having expressed a specific interest in energy management and planning, the group was given an overview of the Energy workstream by Siemens, and of Manchester’s Smart City projects by Manchester City Council. The visitors were then shown around the Energy Centre of the BREAM Excellent Birley Campus at Manchester Metropolitan University, which will be one of the buildings that will receive new technology as a result of Manchester’s Triangulum activities.



**News from our Sister Projects**

Triangulum is one of [nine European Smart Cities and Communities Lighthouse projects](#), currently receiving funding within the European Union’s Horizon 2020 research and innovation programme.

What is energy and how can it be saved? In the [REMOURBAN](#) Follower City Seraing these issues have been playfully approached by involving children. After all, it is never too early to create awareness for the energy transition and climate change.

[Read more](#)

At the end of 2016, two new Smart City projects started – mySMARTLife, with activities in Helsinki, Hamburg and Nantes, and Ruggedised with the Lighthouse Cities Glasgow, Rotterdam and Umeå. Stay informed about their developments on Twitter:

[@mySMARTLife\\_eu](#)

[@Ruggedised](#)



## Past Events

An overview of events attended by Triangulum's project partners

Nordic Edge Expo, 06.-07.10.2016, Stavanger (Norway)

[Further information](#)

European Lighthouse Projects at the Building Sustainability SGBC16 Congress, 19.-20.10.2016, Stockholm (Sweden)

[Further information](#)

15<sup>th</sup> Annual Transatlantic Forum, 24.-25.10.2016, Chicago (USA)

[Further information](#)

European Lighthouse Projects at the Smart City Expo World Congress, 15.-17.11.2016, Barcelona (Spain)

[Further information](#)



## Upcoming Events

Find Triangulum's partners at the following events:

Dutch Technology Week Eindhoven, 15.-20.05.2017, Eindhoven (the Netherlands)

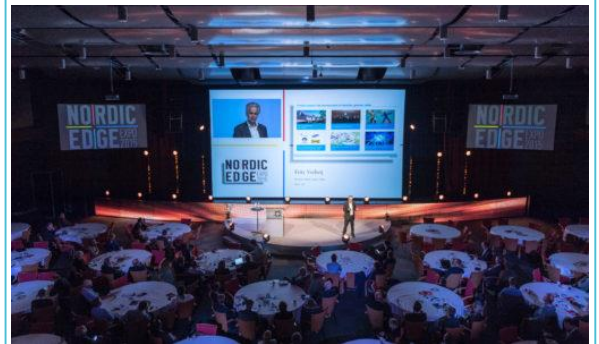
[Further information](#)

Nordic Edge Expo, 26.-28.09.2017, Stavanger (Norway)

[Further information](#)

Dutch Design Week Eindhoven, October 2017, Eindhoven (the Netherlands)

[Further information](#)





Partners

Project Management



Eindhoven



Manchester



Stavanger



Replication



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

Picture Sources: Ajuntament de Sabadell / Juanma Peláez, complan GmbH

Contact:

Project coordinator: Damian Wagner, Fraunhofer IAO, [damian.wagner@iao.fraunhofer.de](mailto:damian.wagner@iao.fraunhofer.de)

Press/Newsletter: Lena Ohlig, Steinbeis-Europa-Zentrum, [press\\_triangulum@steinbeis-europa.de](mailto:press_triangulum@steinbeis-europa.de)

