

triangulum

DEMONSTRATE · DISSEMINATE · REPLICATE

How did we create our triple helix cooperation between public sector, research and innovation?

The NTVA Nordic Smart Cities and Communities Conference, 6-7 September 2016

H2020 Lighthouse Project in Stavanger; Gerd Seehuus, local coordinator







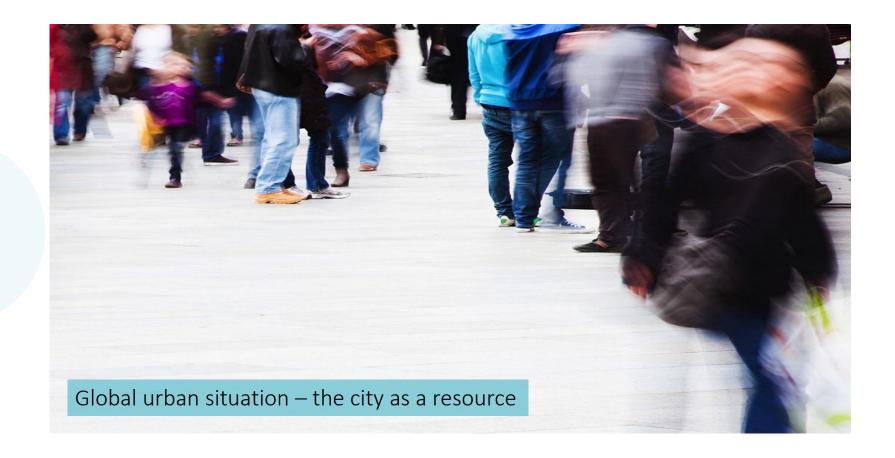






Horizon 2020 – societal challenges















The TRIANGULUM triple helix



Project Management









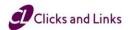
Manchester











Eindhoven











Stavanger











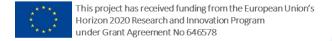
Follower Cities













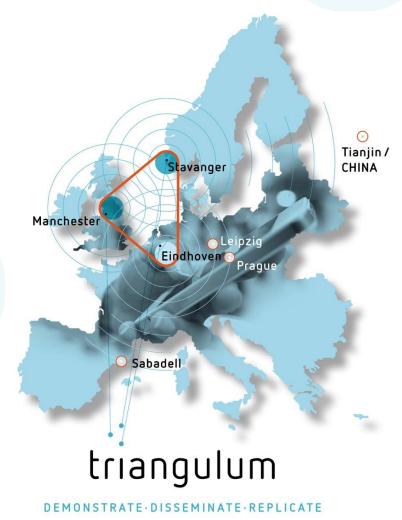








3 POINT PROJECT • DEMONSTRATE • DISSEMINATE • REPLICATE





Triangulum Project

@Triangulum_EU FØLGER DEG

The EU #H2020 lighthouse project Triangulum is looking for solutions for the city of tomorrow and will develop smart urban districts.

8 triangulum-project.eu

















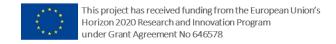






City + Cooperation + Innovation + Demonstration =

Sustainable Lighthouse Projects SCC 1













How we created our triple helix



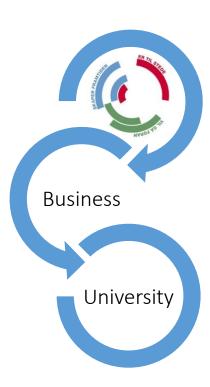
















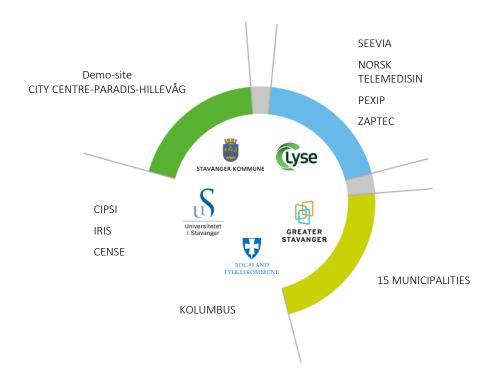






Local lighthouse partners

















- environment
- society
- economy

- respect roles
- responsibility

- complexity
- holistic
- context

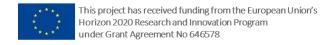
- communicate
- create
- cooperate

- ambision
- innovative
- engagement

consequence

- green growth
 - enjoy

- unique
- overview
- expertise





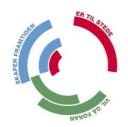












- Stavanger Regional Brussels Office: strategy 2013-2020, Smart Cities as priority.
- The city decides to start the process towards SCC.

 Stavanger Regional Brussels Office and University EUresource center facilitates Eindhoven and Stavanger meetings.

 Desember: H2020 SCC1-call lighthouse projects. Local triple helix. Application for proposal formed with Eindhoven and Manchester. Fraunhofer as project manager.

2013

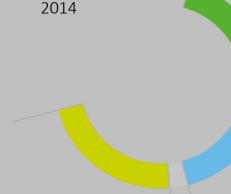
• Application: May 7th

October: EC selects
 Triangulum as 1 of 3
 lighthouse projects.

• Nov/dec: Grant Agreement

2015

- January: Consortium Agreement
- February: Project starts
- City of Stavanger coordinates local partnership



2012







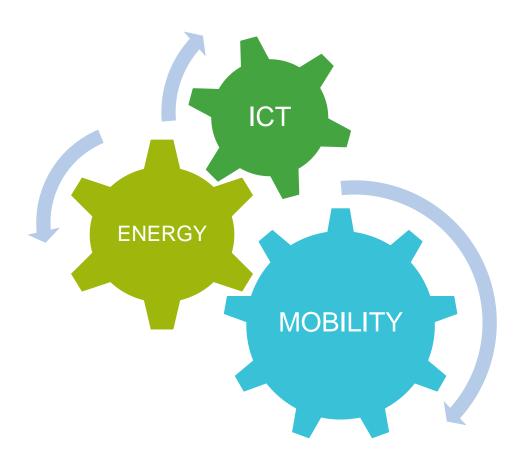






Demonstrate, disseminate, replicate









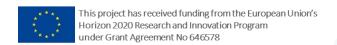






















































«The main goal of Triangulum is to demonstrate that the integration of technologies from the sectors energy, buildings, mobility and ICT within one district leads to a significant reduction of energy demand and local GHG emissions whilst at by the same time enhancing quality of life, delivering efficient and clean mobility to residents and local workers and providing the basis for economic growth and development.













Integrated solutions for tomorrow



- Stavanger City Centre Energy plant 75 % renewables, reduce CO₂
- Paradis/Hillevåg
 100 homes, a school and nursery home upgraded with integrated smart solutions, automation and communication
- 3. University of Stavanger Big data
- 4. Paradis–Hillevåg
 Battery buses, reduce CO₂















NO RDIC ED GEXPO 2016

6.-7. Oct. Stavanger













http://triangulum-project.eu/

gerd.seehuus@stavanger.kommune.no





















