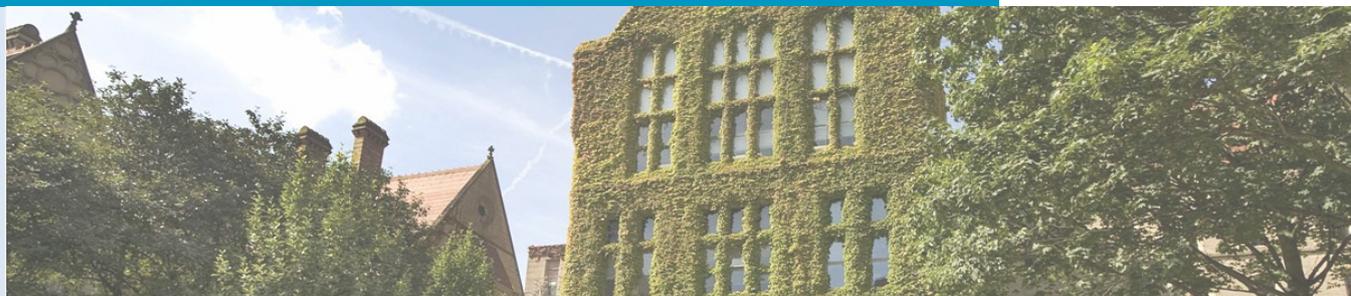


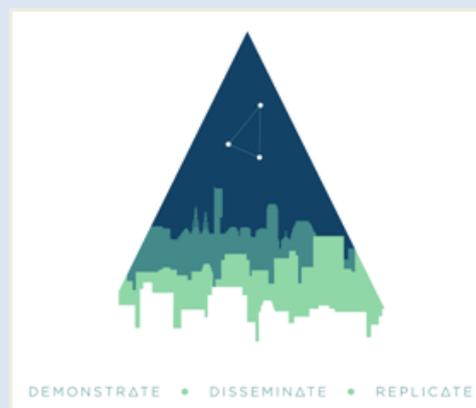
Triangulum: creating smarter cities



The Project

Triangulum is a €25 million Horizon 2020 project funded by the European Commission to demonstrate cutting-edge smart city technologies and roll them out across the world. The University is working with the cities of Eindhoven in the Netherlands and Stavanger in Norway to demonstrate 'smart green growth' – reducing carbon emissions while boosting the economy. A total of 23 European partners from urban municipalities, research and industry are involved. The project will transform designated urban districts into smart quarters in the three forerunner cities and then transfer the concepts to the follower cities of Leipzig, Prague and Sabadell.

The University is working with Manchester City Council, Manchester Metropolitan University, Siemens and digital technology company Clicks and Links to deploy and test renewable energy and storage technologies, smart ICT management systems and electric vehicles. The actions are focused on the Corridor, including the University campus, and the project is unique in working closely with Estates Division to use the campus as a living laboratory to study urban sustainability. Emma Gardner, Head of Environmental Sustainability, and Tony Small Principal Mechanical and Energy Engineer are leading Estates involvement with Energy and ICT, while Andrew Hough, the Sustainable Travel Manager, and Gabriele Schliwa, a doctoral student in SEED, are assisting with the mobility work. Professor Ian Cotton, Director of Manchester Energy, is leading the ICT work.



James Evans and Andrew Karvonen from the School of Environment Education and Development and Krassi Paskaleva from Manchester Institute of Innovation Research at MBS are leading the monitoring and evaluation work across the Triangulum consortium, coordinating teams in Eindhoven and Stavanger to assess the economic, environmental and social impacts of different smart city technologies. Part of this work involves developing frameworks for open source and interoperable data sharing platforms that will enable cities to learn from each other and develop smart city management technologies and smart apps. The project will run from the 1st February 2015 for five years.



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