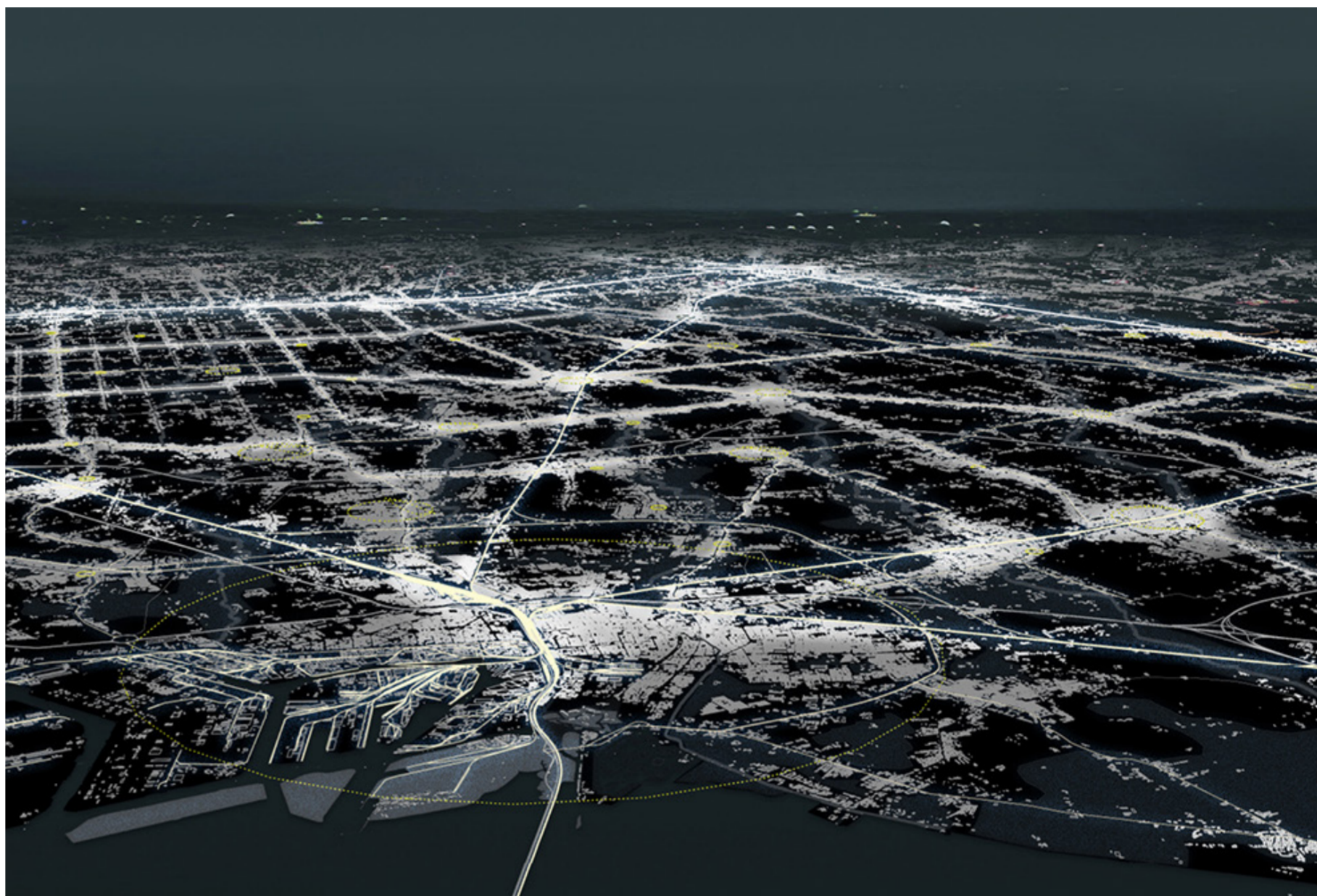


SPACERGY

Energy demand in cities is globally growing strongly related to changed lifestyles with a significant role for mobility and the built environment that involve increasing levels of comfort and use of space.

SPACERGY focuses on the role of optimized mobility, spatial morphologies and infrastructural elements in regards to the smart use of local resources and addresses a knowledge gap in relation to interactions and synergies between spatial programming, energy and mobility systems planning and stakeholder involvement necessary to improve models of development and governance of urban transformations.

Based on spatial morphology and energy use modelling SPACERGY will develop new toolsets and guidelines necessary to advance the implementation of energy efficient forms of development.



Aim/objective

- Optimizing spatial morphologies and infrastructural properties for smart integrated production, storage and exchange of renewable energy
- Building knowledge on new forms of governance to achieve community cohesion around an efficient use and exchange of energy resources

Approaches/methods

- Development of smart tools necessary to advance innovative community based spatial-energy-optimization strategies
- Produce a SPACERGY management and organization model for 'Energy Sensitive Cities', through a comparative research in different case studies

Expected results and impacts

- New toolsets and guidelines to advance the implementation of energy efficient forms of development
- SPACERGY will help planners and decision makers to facilitate the transition of their communities to a more efficient, liveable and prosperous urban environment.

Involved cities

The new toolsets will be developed and validated in four urban areas under development in the cities of Zurich, Almere, Bergen and Brescia, acting as living laboratories for real-time research and action in collaboration with local stakeholders.

SPACERGY – Space-Energy patterns for smart energy infrastructures, community reciprocities & related governance

Duration: 2016–2019

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About JPI Urban Europe

JPI Urban Europe is a transnational research and innovation programme on urban transition. With the ambition to develop and validate new solutions for sustainable and liveable cities, a cooperation platform and programme is provided to connect urban stakeholders, researchers, cities, business and society

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