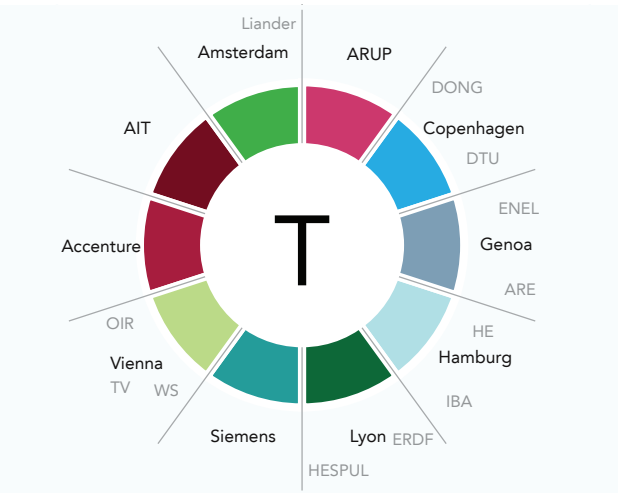
works with...

TRANSFORM gathers frontrunner cities, energy and grid companies and leading commercial and knowledge partners in the field of energy and urban planning, financial models, stakeholder processes and analytics.

Amsterdam, Copenhagen, Genoa, Hamburg, Vienna and the Grand Lyon metropolitan area bring togehter different expertise on planning, city administration, and climate and energy policies. These cities bring together both ambitious politicians and experts. Energy and grid companies DONG Energy, ERDF, ENEL, A.R.E. and Hamburg Energie bring in their competencies and state of the art in smart grids (thermaland electricity), renewables, business models and modeling. The Energy and Grid companies bring in their respective networks and possibilities to generate impact through their presence in other European cities. The Dutch grid company Liander works together with the City of Amsterdam in the local Amsterdam Smart Urban Lab. Commercial partners ARUP, HESPUL, Accenture and Siemens join forces with their knowledge of planning, energy systems analytics and quantitative data modeling and qualitative models and Key Performance Indicators. TRANSFORM combines the knowledge of institutes like AIT, DTU, OIR in the field of enrgy, planning and modeling.



works at...

• Copenhagen Nordhavn: Redevelopment of a port area towards a CO_2 neutral, mixed-use lively new neighborhood for living and working. Nordhavn will be a lab for new solutions in energy and building construction. Focus areas: integration of smart energy grids and low energy buildings.

• Hamburg IBA Wilhelmsburg: Transformation of a partly industrial zone into a mixed-use urban area, combining housing, industry, port, water, green and open space. Focus areas: stakeholder process, 100% renewable energy by 2025, heating and cooling.

• Amsterdam Zuidoost: Transformation of a mixed-use area (300 ha), incl. Ajax stadium, offices, leisure and shopping, a city hospital, large datacenters and an energy plant. Focus areas: transforming energy grids (thermal and electric) into smart grids, energy efficiency, waste and new mobility concepts.

• Lyon Part Dieu: Transformation of a 1960 central district into a mixed-use area. Large building program, including offices and residential and commercial areas: Focus area: heating and cooling and renovation schemes.

• Genoa Mela Verde: This port area will be transformed in a new urban area. Mela Verde is part of a comprehensive CO_2 reduction strategy and a Technology Masterplan. Focus areas: stakeholder process, solar PV, e-mobility and new technology for buildings.

• Vienna Seestadt and Liesing: Seestadt is a greenfield & brownfield development, incl. 20.000 apts., 20.000 work places; new public transport, social & smart technical infrastructure. Liesing is a transformation area, including residential, industrial and service functions.

TRANSFORM

SMART CITY WIEN

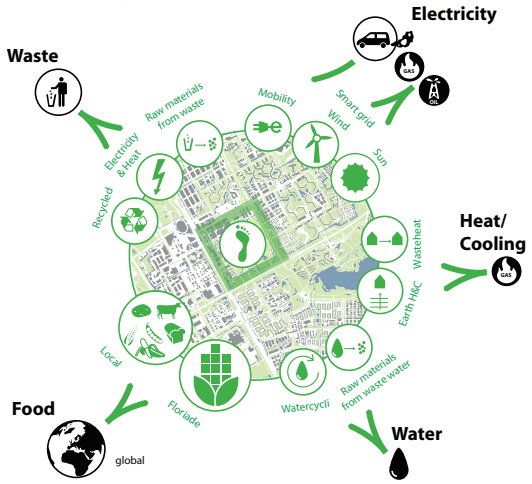
en

is about...

Cities and citizens play a pivotal role in realizing the EU targets on climate and energy. Urban areas, currently responsible for three-quaters of the global energy demand, are the logical starting point for people to co-create energy efficient, low carbo-n places. Places where people can use their resources in an optimal way and enjoy a good quality of life.

TRANSFORM supports those local stakeholders, responsible for investment and policy decisions, to turn their CO2 ambitions into a Transformation Agenda and into tangible Implementation Plans. Plans that focus on both the strategic and long term horizon, combined with executable projects. Plans that focus on both the city and regional level, combined with interventions in specific neighborhoods. Plans that take into account all relevant energy flows, environmental aspects, urban mobility, water and waste.

TRANSFORM stands for an integrative approach to smart city development, including strong stakeholder involvement, data analytics and smart tooling, financial strategies and methodologies for co-creation, like service design thinking. The outcomes set standards for future European Smart City projects.



does...

TRANSFORM provides insight into smart city processes and methodologies for cities how to arrive at smart energy plans and executable projects, based upon stakeholder co-creation. Strategy and operations will be brought together, just like different levels of scale: city, regional, neighborhood. Service design thinking will be tested to make way for new ideas and opportunities.

The circular way of thinking starts in this project with analyzing and reviewing the existing status of the projects, the way of working in the cities and design support tools. After half a year of analyses, an intensive phase of parallel and closely related working on the city level and district level, as well as decision support tool will take place. The continuous dialogue with the existing statuse is essential for real improvement. The last half a year will have a strong focus on replication, dissemination and exploitation of the results.

TRANSFORM starts 2013 and will be finished by the summer of 2015. Some of the local projects have been started earlier and most of the cities have previously made an energy strategy. TRANSFORM will benefit from this and will accelerate and optimize existing processes.

contact:

Project Coordinator: City of Amsterdam
Physical Planning Department
Weesperplein 8, 1018 XA Amsterdam
E-Mail: transform@dro.amsterdam.nl

City Coordinator: City of Vienna
Municipal Department 18
Urban Development and Planning
Ebendorferstrasse 1, 1082 Vienna
Homepage: http://www.wien.gv.at/english/transportation-urbanplanning/
E-Mail: smartcity@ma18.wien.gv.at

Project Website: http://urbantransform.eu/

delivers...

1. A plan for two or three golden interventions in in each of the cities, to reduce more CO_2 through radical steps. We call it the Transformation Agenda.

2. Ready to carry out Implementation Plans for Smart Urban Labs (a targeted neighborhood) in each of the participating cities, containing projects and business cases.

3. A Smart Energy City Handbook, that contains methodologies how to arrive at a transformation agenda and an implementation plan for your own city, based upon the learning´s in the Smart Urban Labs. The handbook combines Performance Indicators for measuring smart city progress and a collection of ready to use finacial and and stakeholder (co-creation) models.

4. A Prototype for a Decision Support Tool, a tool which shows in an integrated way the effects (CO_2, energy, time, finance, space) of decisions made in energy plans. We offer a prototype starting with some of the most important components like energy, waste, mobility and water and a description of work for the further necessary develpment of the tool.

5. A signed Memorandum of Understanding between participating cities, committed cities, the E.U and relevant industries, knowledge institutes and commercial partners on the implementation of all TRANSFORM results in order to realize the set ambitions and to ensure ongoing research.

6. TRANSFORM will deliver recommendations to the EU Smart City Agenda 2014+.

This project is co-financed by the EU under the Resarch Framework Programme