

PED Experience Amsterdam

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AmsTERdam BiLbao citizen drivEN smaRT cities



atelier
Positive Energy Districts



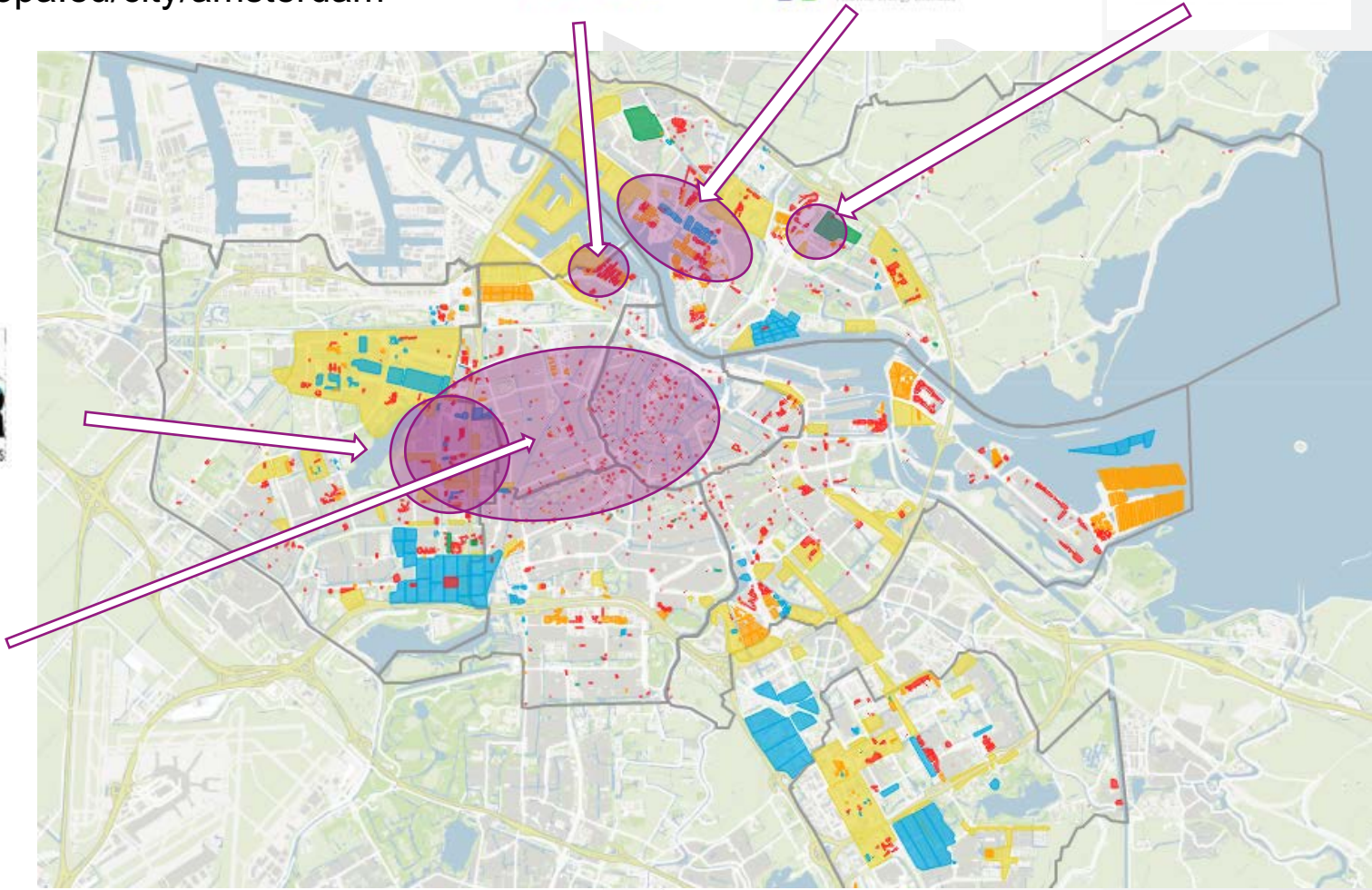
Amsterdam's ambition

- Amsterdam roadmap 2050 for a low-carbon economy
- Strategy Amsterdam Circular towards 2050
- Green and Healthy city
- Amsterdam Doughnut Economy: City portrait

www.amsterdam.nl/en/policy/sustainability/policy-climate-neutrality

Continuous journey of pilots

<https://smart-cities-marketplace.ec.europa.eu/city/amsterdam>



<https://maps.amsterdam.nl/woningbouwplannen/?LANG=nl>



Pilots - ambition levels rising

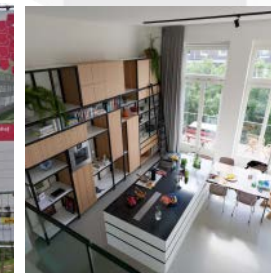
- Ecostiler and Staccato: Eco refurbishment with 30% reduction in energy use



- NEXT-Buildings: Energy neutral new buildings



- City-zen: Refurbishment to new build energy performance, integration with mobility and ICT

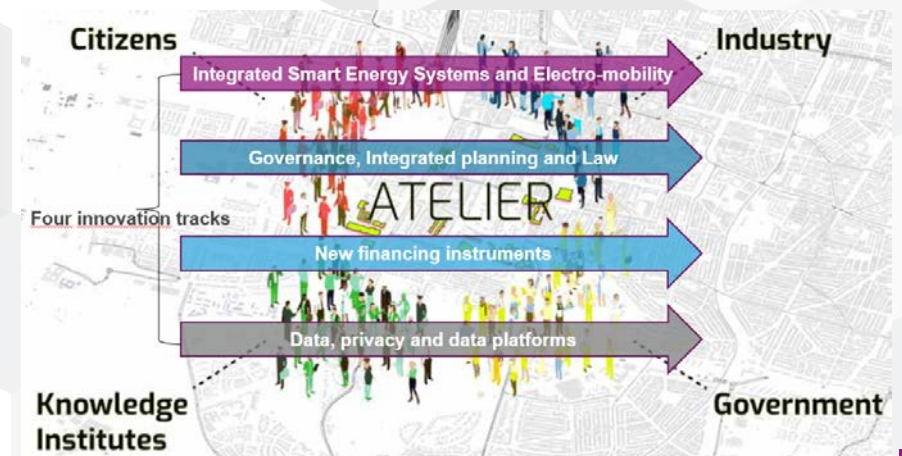
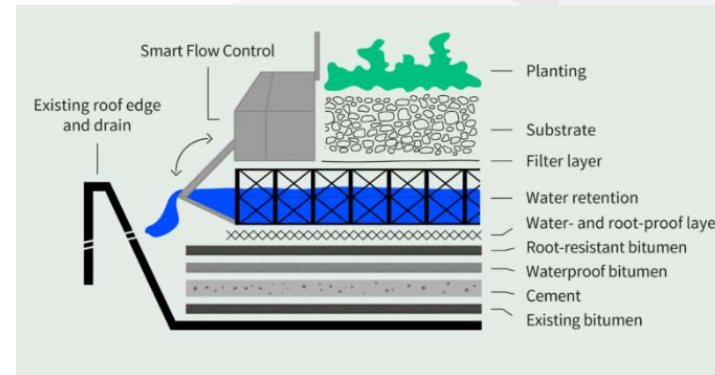
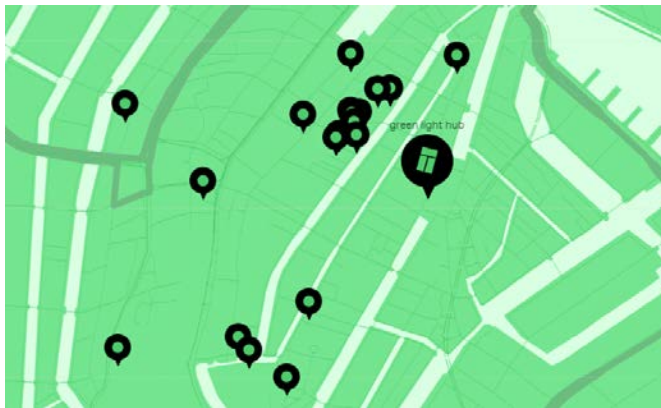


- ATELIER: Positive energy district



Variety ongoing projects

- Green / Blue Roofs and Green Light District projects: Focus on participative approach
- ATELIER: Positive energy district: Focus on Innovation and Replication

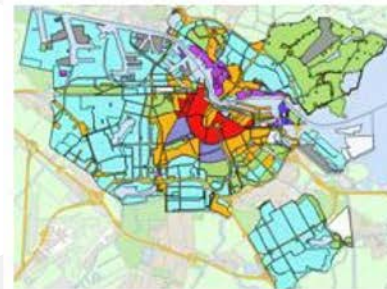


Available data in Amsterdam

- What is the zoning plan around my property?
- Which buildings were constructed after 2000, and what is the energy consumption expressed in CO2 per block?
- Where can I find green roofs in the city, and is my roof suitable for solar panels?

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www.maps.amsterdam.nl



Soil quality



Energy - Use of Gas and Electricity



Energy from waste incineration and waste heat



Energy from soil and water



Energy from sun and wind



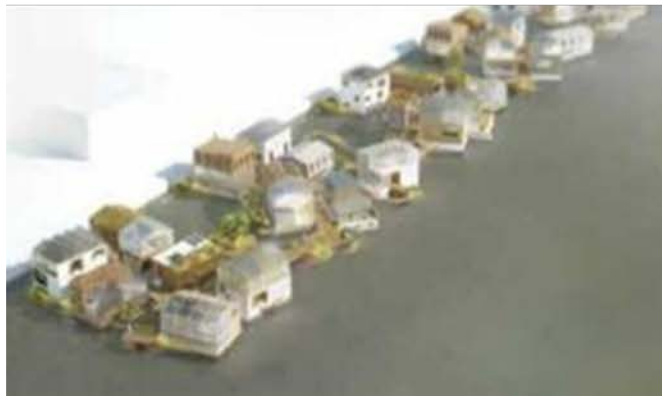
Noise map

Selection process PED pilot

- Multiple ambitious development areas (Amsterdam South-East, Bajeskwartier, Strandeiland, Sluisbuurt, Buiksloterham, Haven-Stad)
- Criteria:
 - Ambition level
 - Commitment of stakeholders
 - Development stage (timing with respect to project period)
- A discussion with involved people led to the Buiksloterham choice

Amsterdam PED ingredients

- Positive energy buildings
- PV plant
- Smart mobility
- Smart micro-grids
- Local energy communities
- Sewage energy recovery



Amsterdam's challenges

- Delays as a result of COVID (economic uncertainty, delay of apartment sales, financial hurdles)
- Creating additional renewable energy in the district
- Applicability of technical solutions in case of limited interest
- Effective engagement of all relevant stakeholders
- Spreading ATELIER knowledge in all municipal departments and over the city

Contact



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