

DHC hand-in-hand with building development

District heating and cooling activities in
relation to refurbishment and PEB/PEDs

Ingo Wagner

Policy Manager

Euroheat & Power

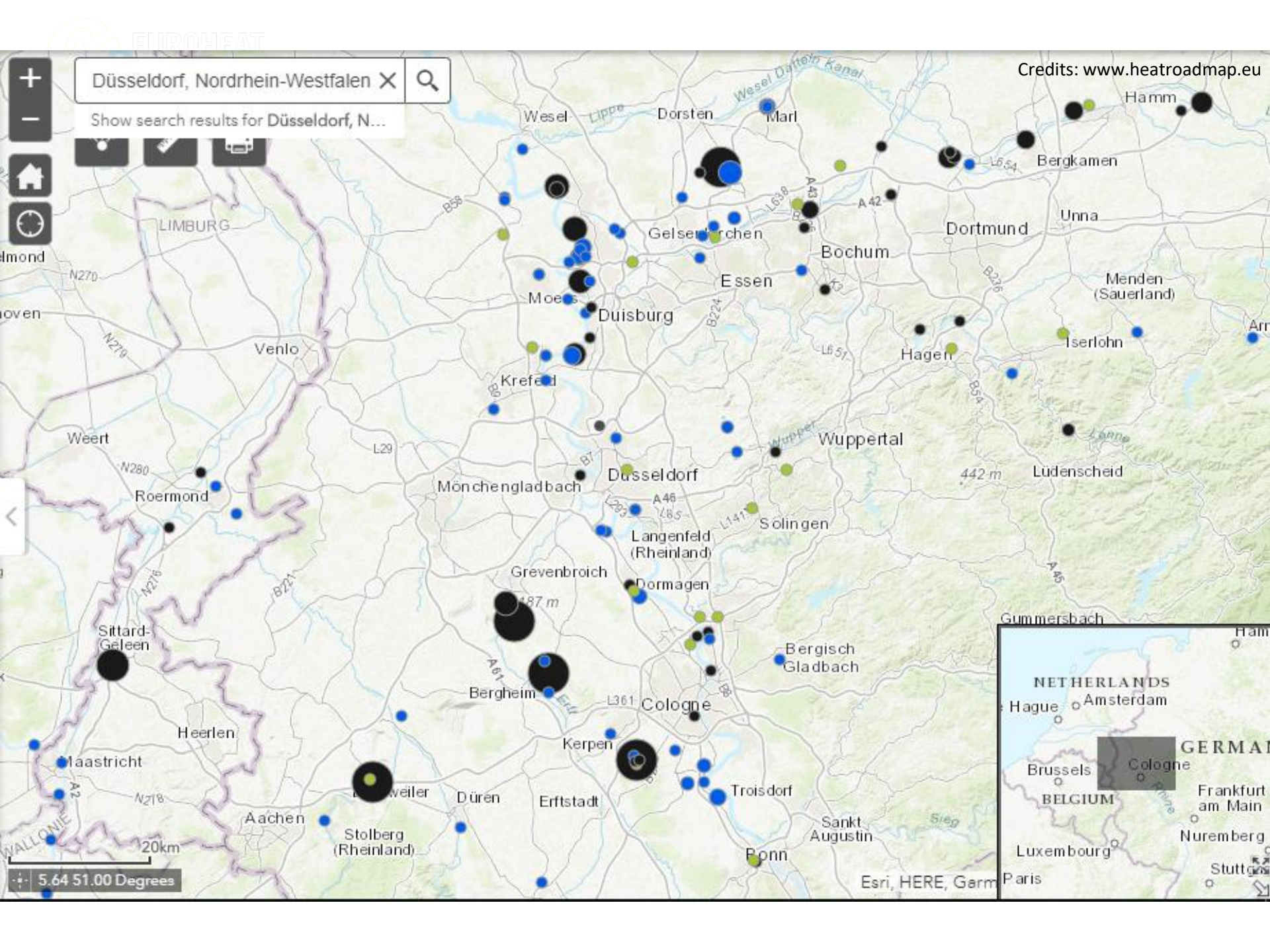


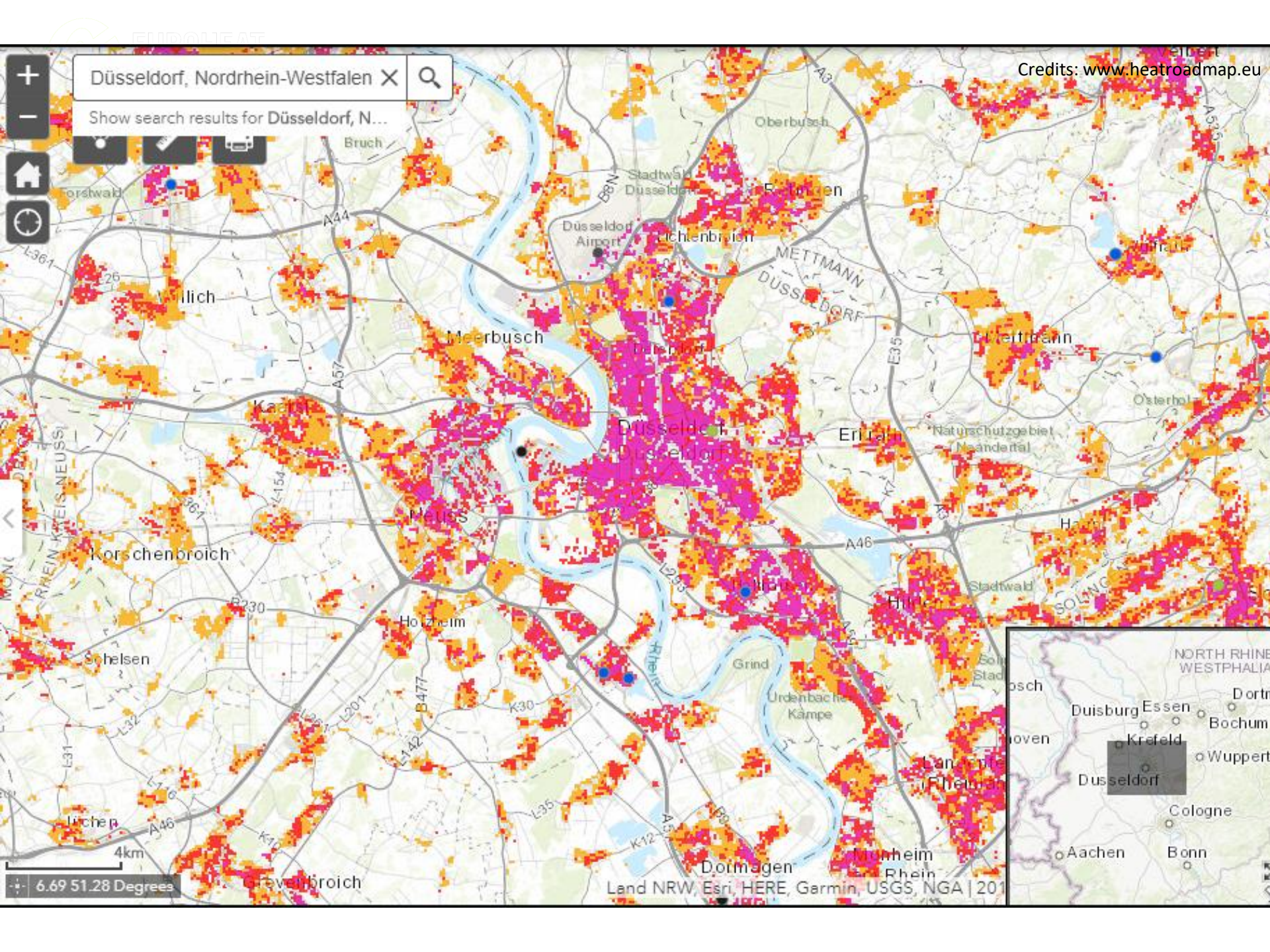


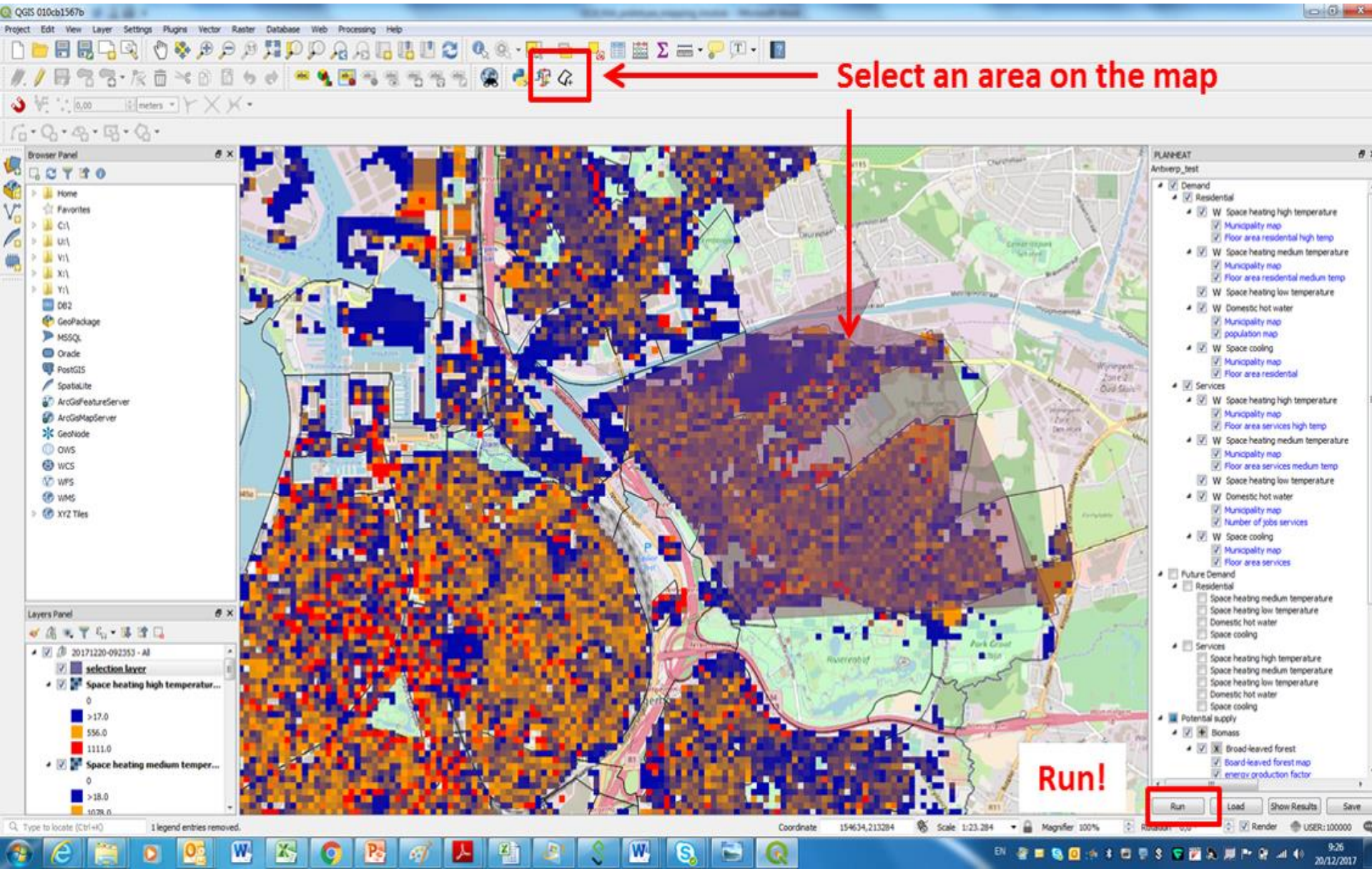
Credits: Ingo Wagner











QGIS 010cb1567b

Project Edit View Layer Settings Plugins Vector Raster Database Web Processing Help

0.00 meters

Browser Panel

- Home
- Favorites
- Layers
- DB2
- GeoPackage
- MSQL
- Oracle
- PostGIS
- Spatialite
- ArcGISFeatureServer
- ArcGISMapServer
- Geonode
- OWS
- WCS
- WFS
- WMS
- XYZ Tiles

Layers Panel

- 20171220-092353 - All
 - selection layer
 - Space heating high temperature
 - >17.0
 - 556.0
 - 1111.0
 - Space heating medium temperature
 - >18.0
 - 1078.0

PLANHEAT

Antwerp_test

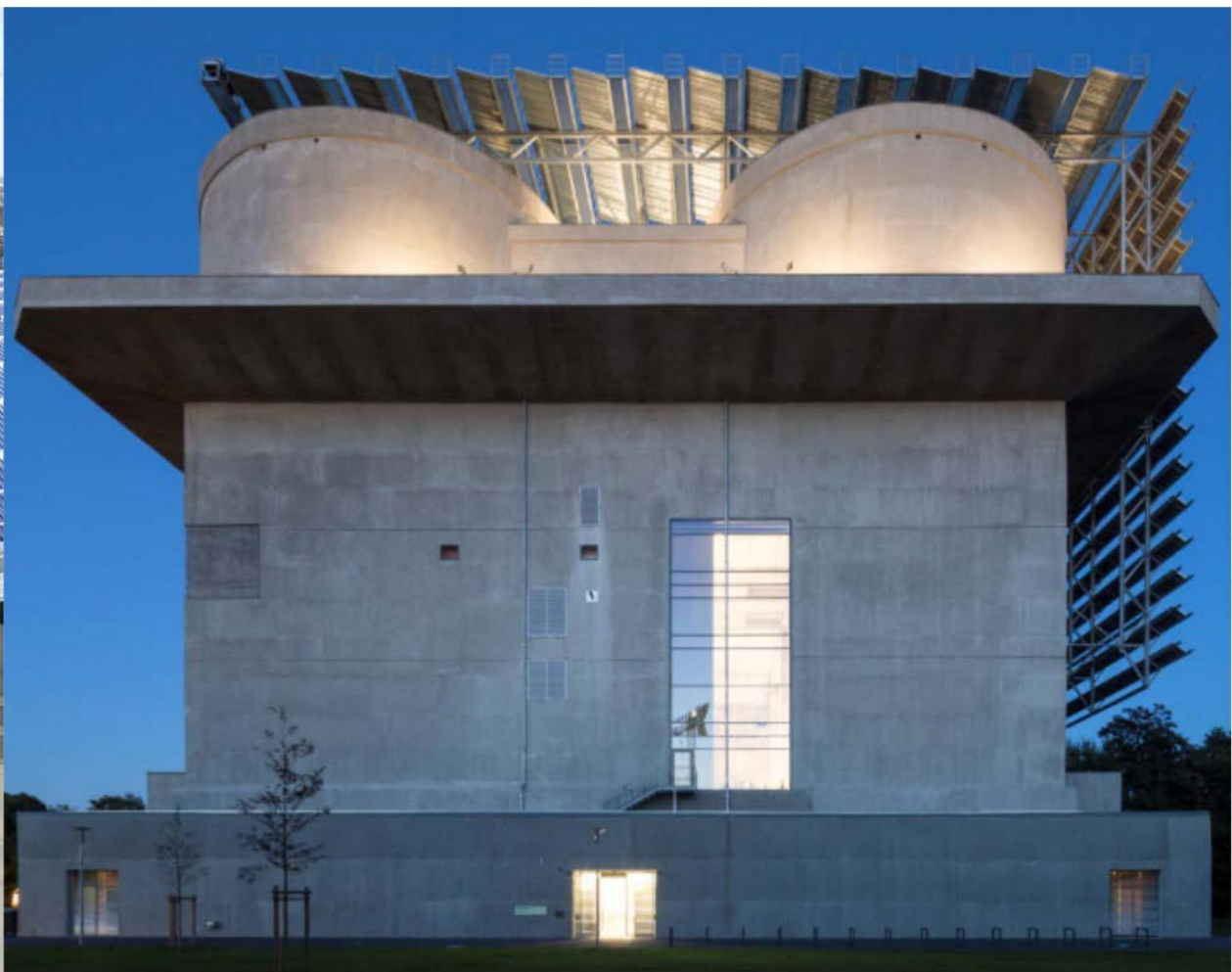
- Demand
 - Residential
 - W Space heating high temperature
 - Municipality map
 - Floor area residential high temp
 - W Space heating medium temperature
 - Municipality map
 - Floor area residential medium temp
 - W Space heating low temperature
 - Municipality map
 - Floor area residential
 - W Domestic hot water
 - Municipality map
 - population map
 - W Space cooling
 - Municipality map
 - Floor area residential
 - Services
 - W Space heating high temperature
 - Municipality map
 - Floor area services high temp
 - W Space heating medium temperature
 - Municipality map
 - Floor area services medium temp
 - W Space heating low temperature
 - Municipality map
 - Number of jobs services
 - W Domestic hot water
 - Municipality map
 - Number of jobs services
 - W Space cooling
 - Municipality map
 - Floor area services
- Future Demand
 - Residential
 - Space heating medium temperature
 - Space heating low temperature
 - Domestic hot water
 - Space cooling
 - Services
 - Space heating high temperature
 - Space heating medium temperature
 - Space heating low temperature
 - Domestic hot water
 - Space cooling
- Potential supply
 - Biomass
 - Broad-leaved forest
 - Board-leaved forest map
 - energy production factor

Run! Run Load Show Results Save

Coordinate: 154634,213284 Scale: 1:23,284 Magnifier: 100% Random USER: 100000

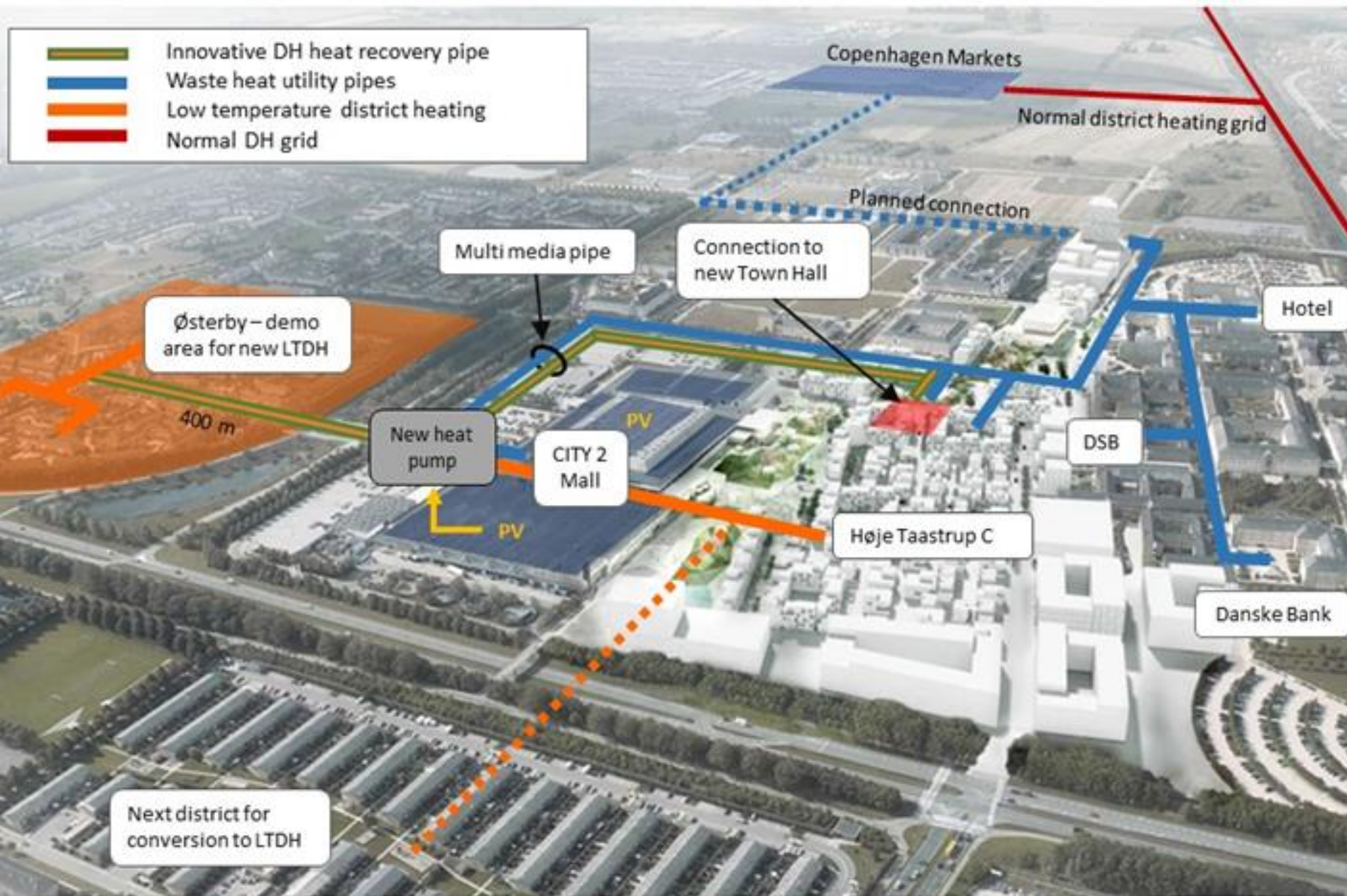
9:26 20/12/2017





Credits: www.solar-district-heating.eu







Upgrade DH: Upgrading the Performance of District Heating Networks in Europe

Demo cases



News & Events

Tuzla

Baseline 2015

HRE 2050

Primary energy supply - reduction through energy savings and improved efficiency

Electrification - larger share of variable renewables

New heating supply with thermal grids



PES: 16,3 PWh

Electricity production: 2,71 PWh

PES: 15,5 PWh

Electricity production: 9,11 PWh

50 % share of district heating in buildings

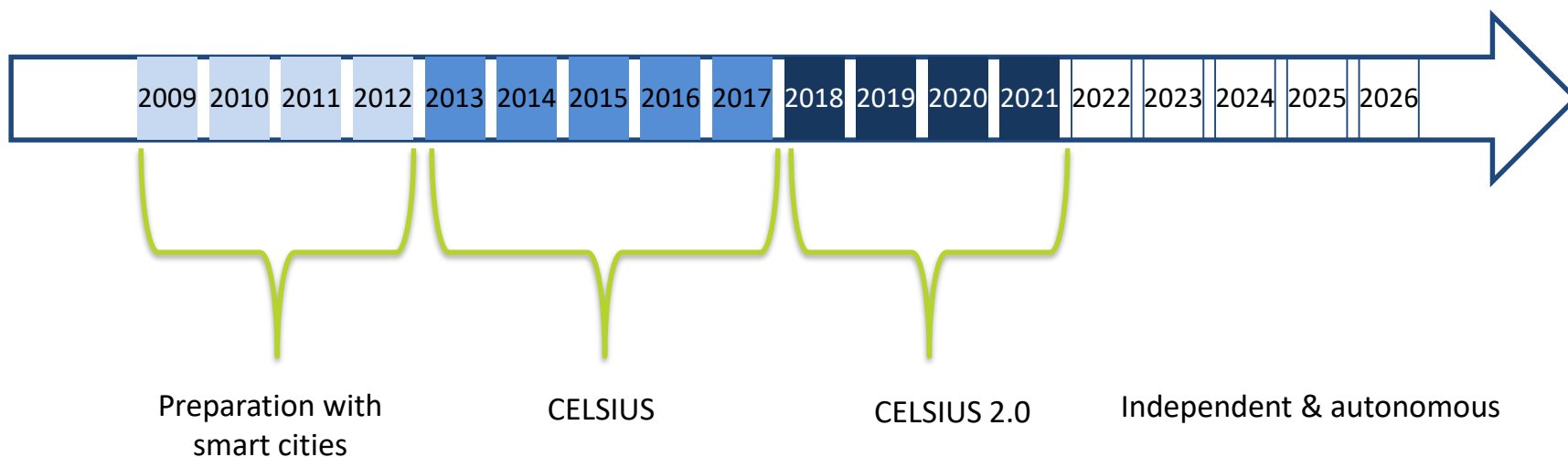
Primary
Energy
Supply

Electricity
Supply

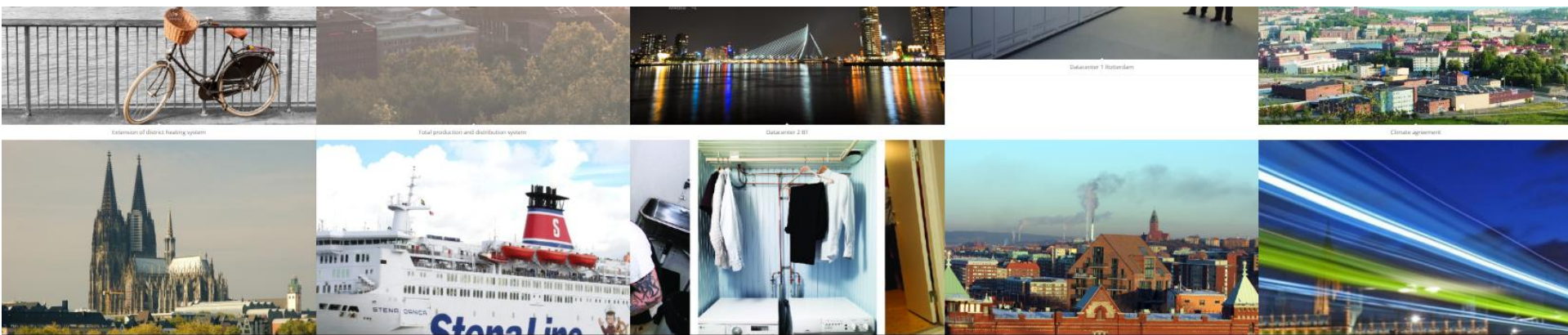
- Power plants & CHP
- Variable renewables &
- Other

DH
Supply

CELSIUS Timeline







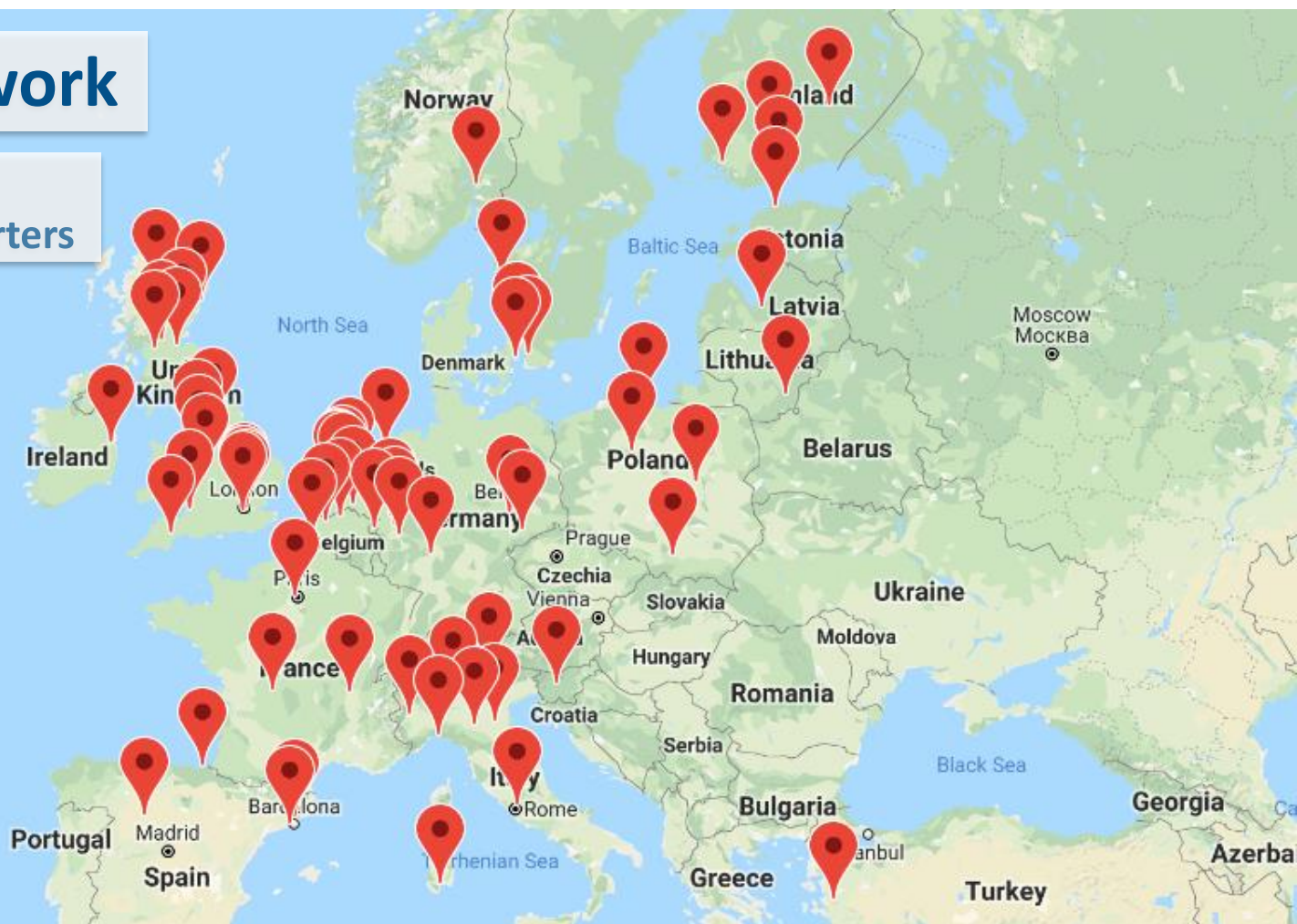
30 CELSIUS Demonstrators



CELSIUS Network

72 member cities

68 CELSIUS City Supporters



CELSIUS 2.0 Tangibles



Cities



Wiki



Policies



Demos



Experts





In case of
questions:

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