

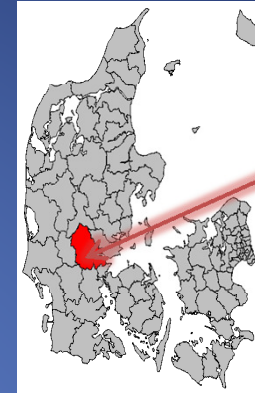
VEJLE
– morgendagens
resiliente by

PIONEERED BY THE
ROCKEFELLER FOUNDATION

100 RESILIENT CITIES

Vejle
...med vilje



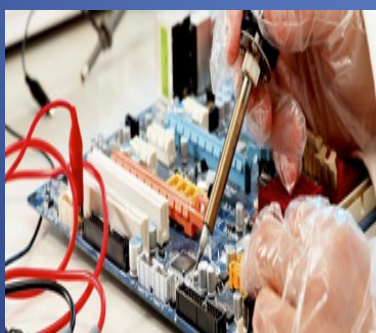


Vejle

Vejle is medium sized Danish city, and with its 110,000 citizens it is the 6th largest municipality in Denmark.

We expect to be around 100,000 in Vejle City by 2050

Part of a larger cluster of cities (1 mill. citizens)



MELBOURNE, AUSTRALIA
100 RESILIENT CITIES

MEXICO CITY, MEXICO

ABOUT US

NEW ORLEANS, UNITED STATES

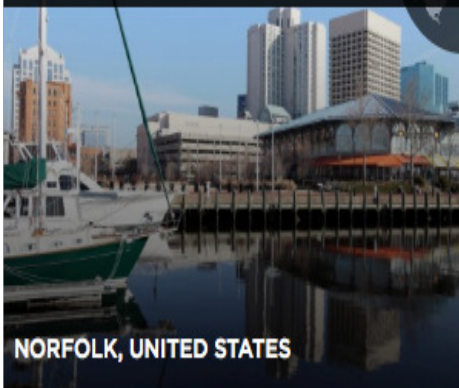
THE CHALLENGE

BLOG

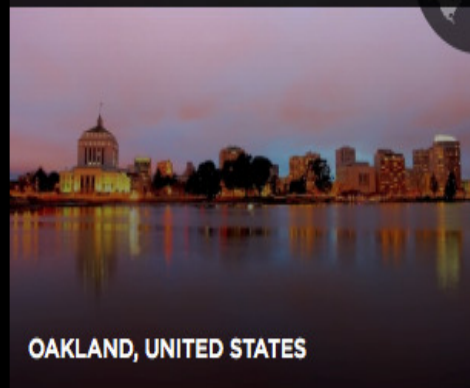
NEW YORK CITY, UNITED STATES

CITIES

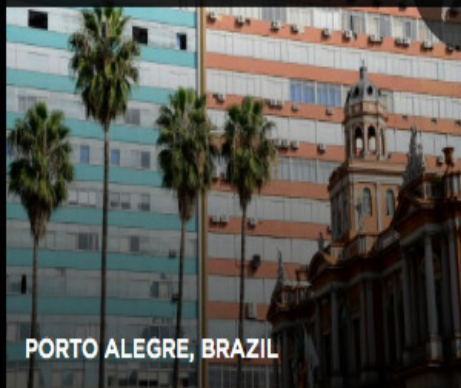
WHAT IS RESILIENCE?



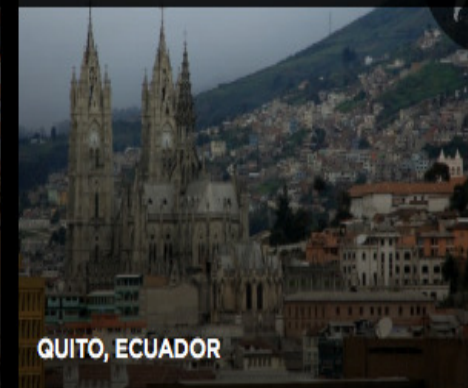
NORFOLK, UNITED STATES



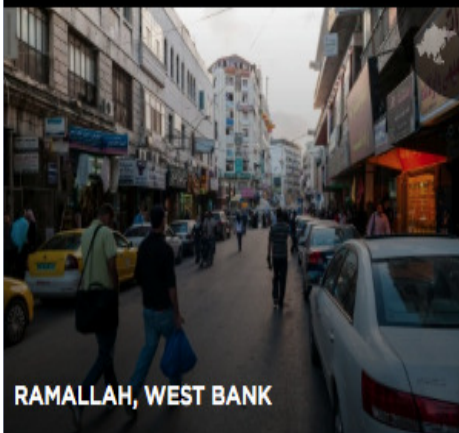
OAKLAND, UNITED STATES



PORTO ALEGRE, BRAZIL



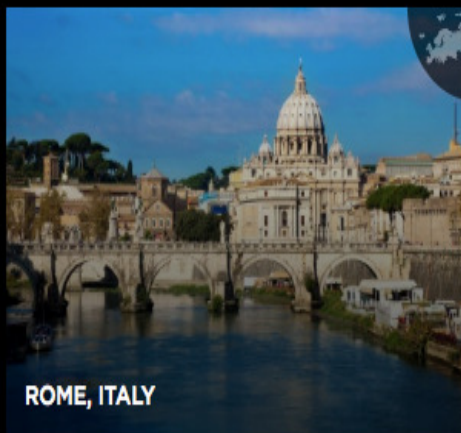
QUITO, ECUADOR



RAMALLAH, WEST BANK



RIO DE JANEIRO, BRAZIL



ROME, ITALY



ROTTERDAM, THE NETHERLANDS



SAN FRANCISCO, UNITED STATES



SEMARANG, INDONESIA



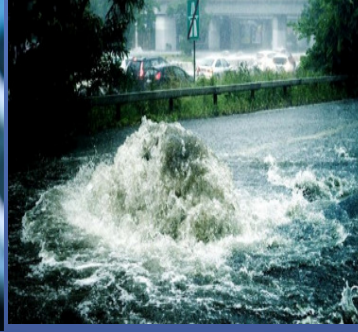
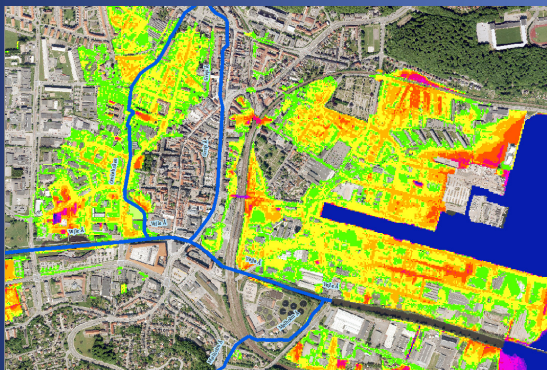
SURAT, INDIA



VEJLE, DENMARK

Challenges:

1. Rising sea levels, increasing rainfall and flooding
2. Population growth. Geography demands condensed urbanization in low lying areas
3. Resilient utilities? Supply of water, heat, electricity based on smart, IoT-based systems → new vulnerabilities
4. Demographic changes and immigration pressures → need to supply more/better service for less funding



Our ambitions:

- The city will develop an ambitious strategy that will aim for a dynamic and innovative approach to resilience
 - Create a robust city and strong communities through long-term and sustainable effort to build resilience capacity
 - Support Vejle businesses in innovation through partnerships
 - Turn Vejle into a innovation laboratory for resilience. A national and international lighthouse – Resilience Lab Denmark
 - Develop the leadership and organization for progressive, collaborative and innovative urban governance and co-creation
 - Reinvent the provincial cities as the agile 'front runners'



Actions:

1. Risk management plans, dams, sluices and pumps, retaining water upstream. Introducing new ways of living with water by integration, absorption, learning and interaction
2. Focus on transportation, renewable energy, air pollution
3. Supply security of vital utilities– baseline and future scenario – co-creation with private suppliers. Identify threats and weaknesses

Resilient Vejle

Vision –projects

Low energy consumption

Green Energy
production and use

Waste as green energy

Waste as new resources

Flexible housing

Green transportation

A B C



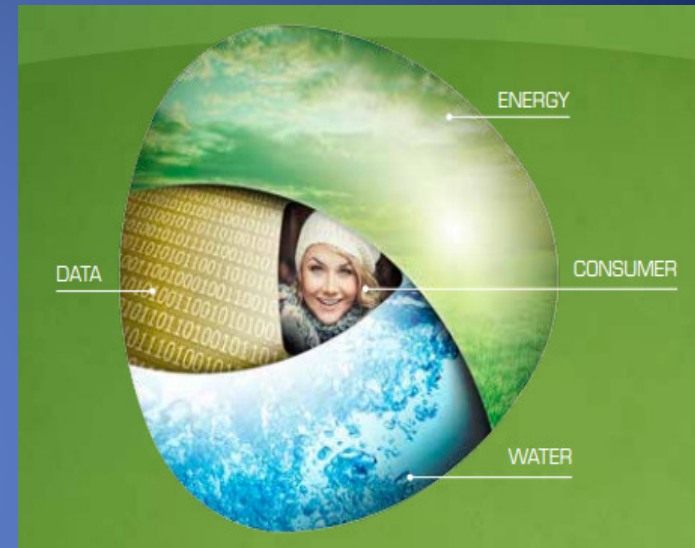
Energy and environmental
protection and social
housing


*New city area in the city
"Resilient Rosborg"*



Resilience Lab Denmark

- Triple-Helix cooperation
- Ambition: To work with researchers, utilities and private sector partners in creating the resilient utilities of tomorrow
- Create a common understanding of current and future vulnerabilities:
 - Smart Grid/Sensors → What is the default setting?
 - IoT → cybersecurity?
 - New opportunities to share data and create shared solutions



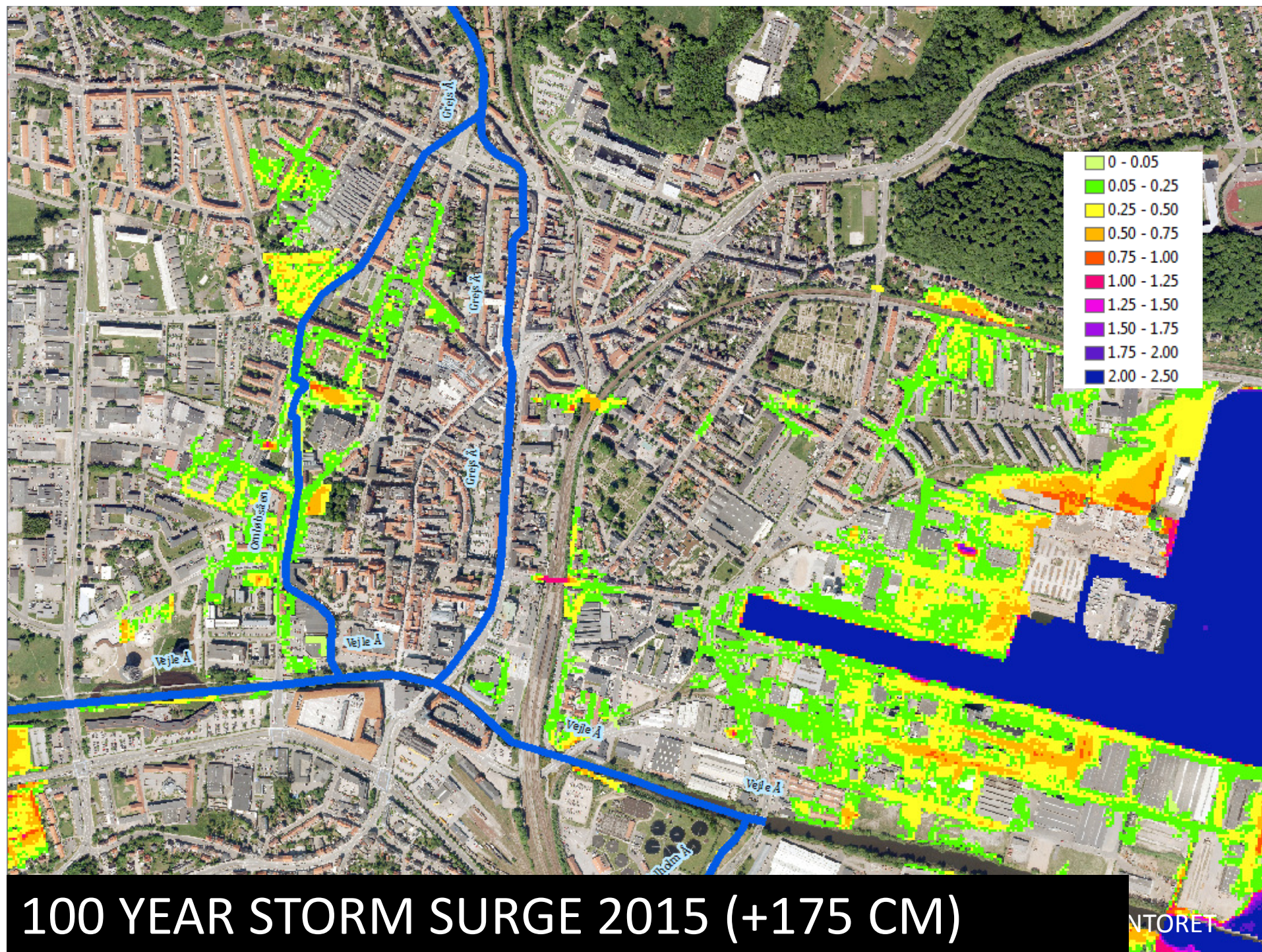
An aerial night photograph of a waterfront urban development. The scene features a large body of water in the foreground and middle ground. On the left, a marina is filled with numerous small boats. In the center, a cluster of modern, illuminated buildings is visible, including a prominent white, curved structure. To the right, a long, low building with a series of white, curved roofs extends along the water's edge. A multi-lane highway with light trails from traffic runs along the right side of the image. In the background, a city skyline is visible with various buildings and a large, illuminated dome structure. The overall atmosphere is vibrant and modern.

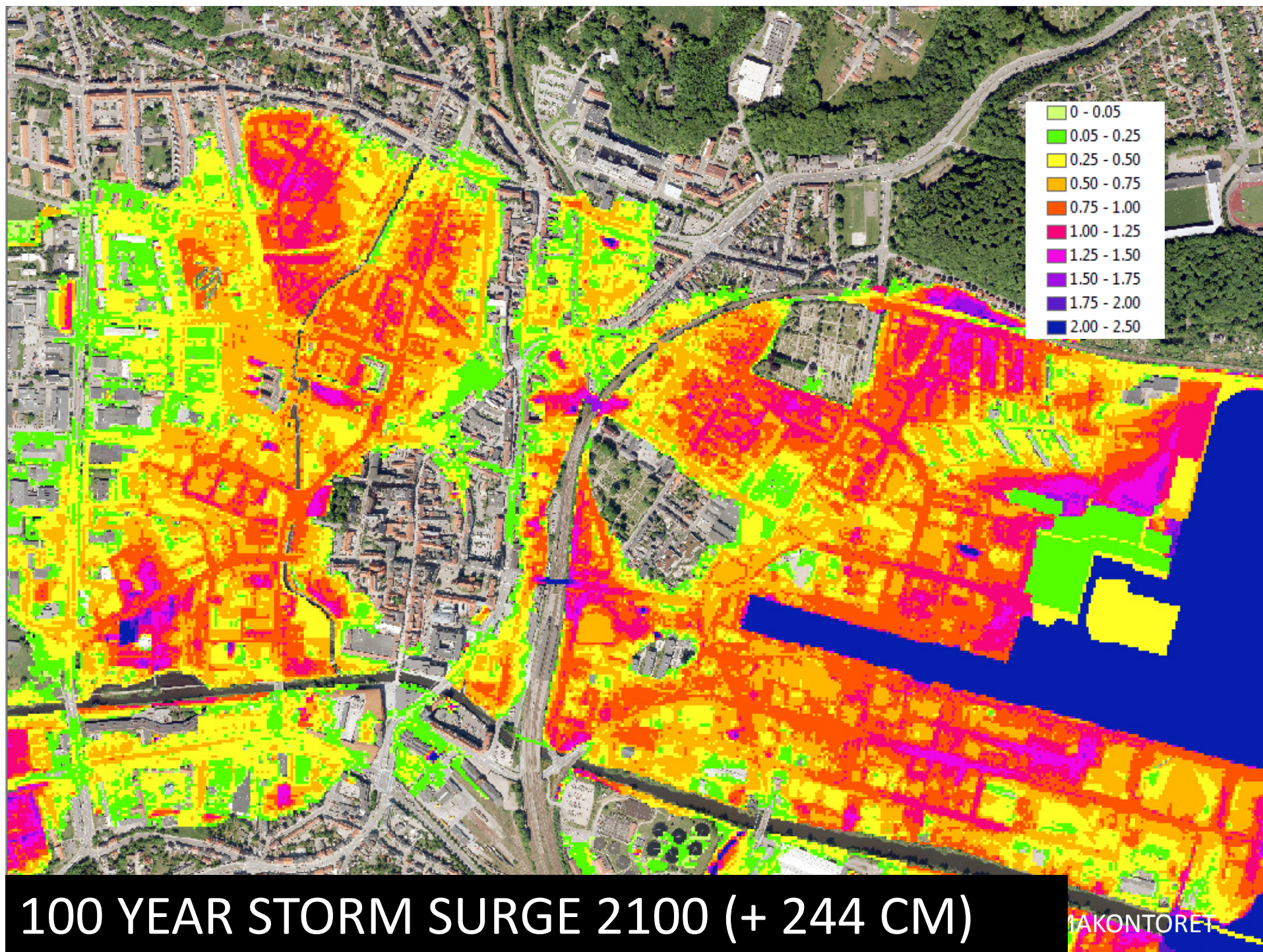
Thank you for your attention

City of Vejle

Water from the slopes and flooding

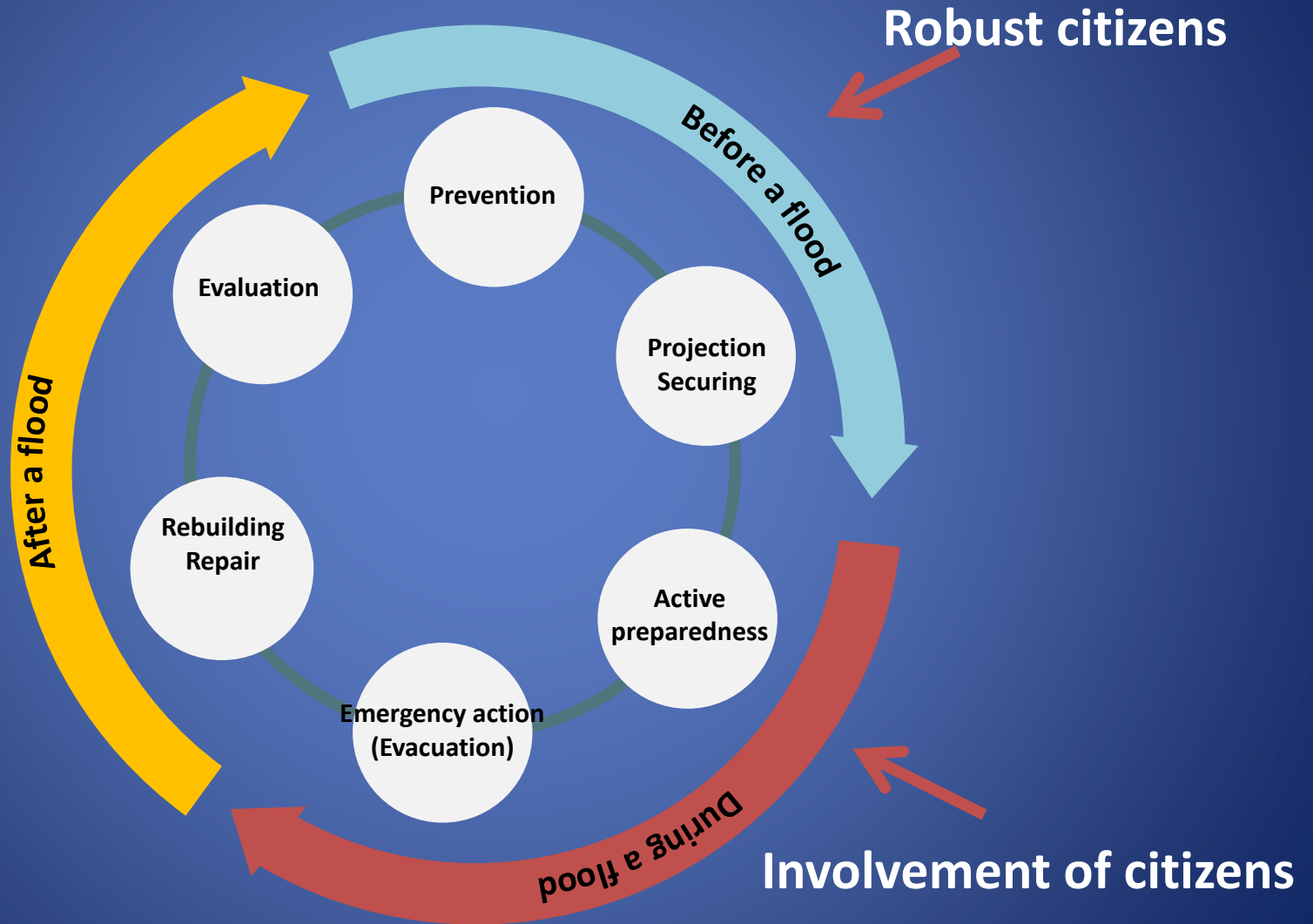








Risk Management



Strategic focus areas



**Climate
adaptation
& Flooding**



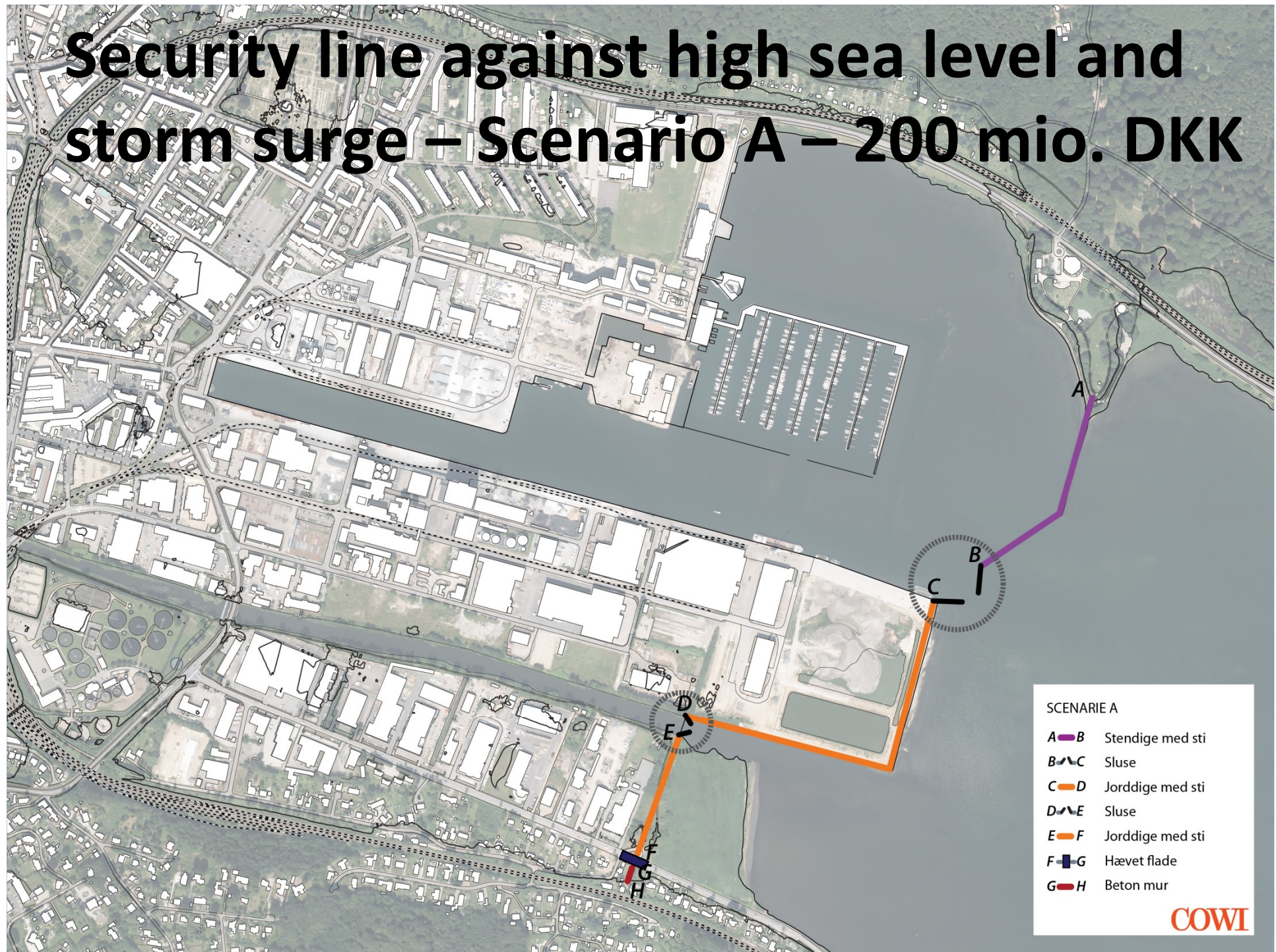
**Social
Resilience**



Smart City

City Council Vision - The co-creating city

Security line against high sea level and storm surge – Scenario A – 200 mio. DKK



Before



After

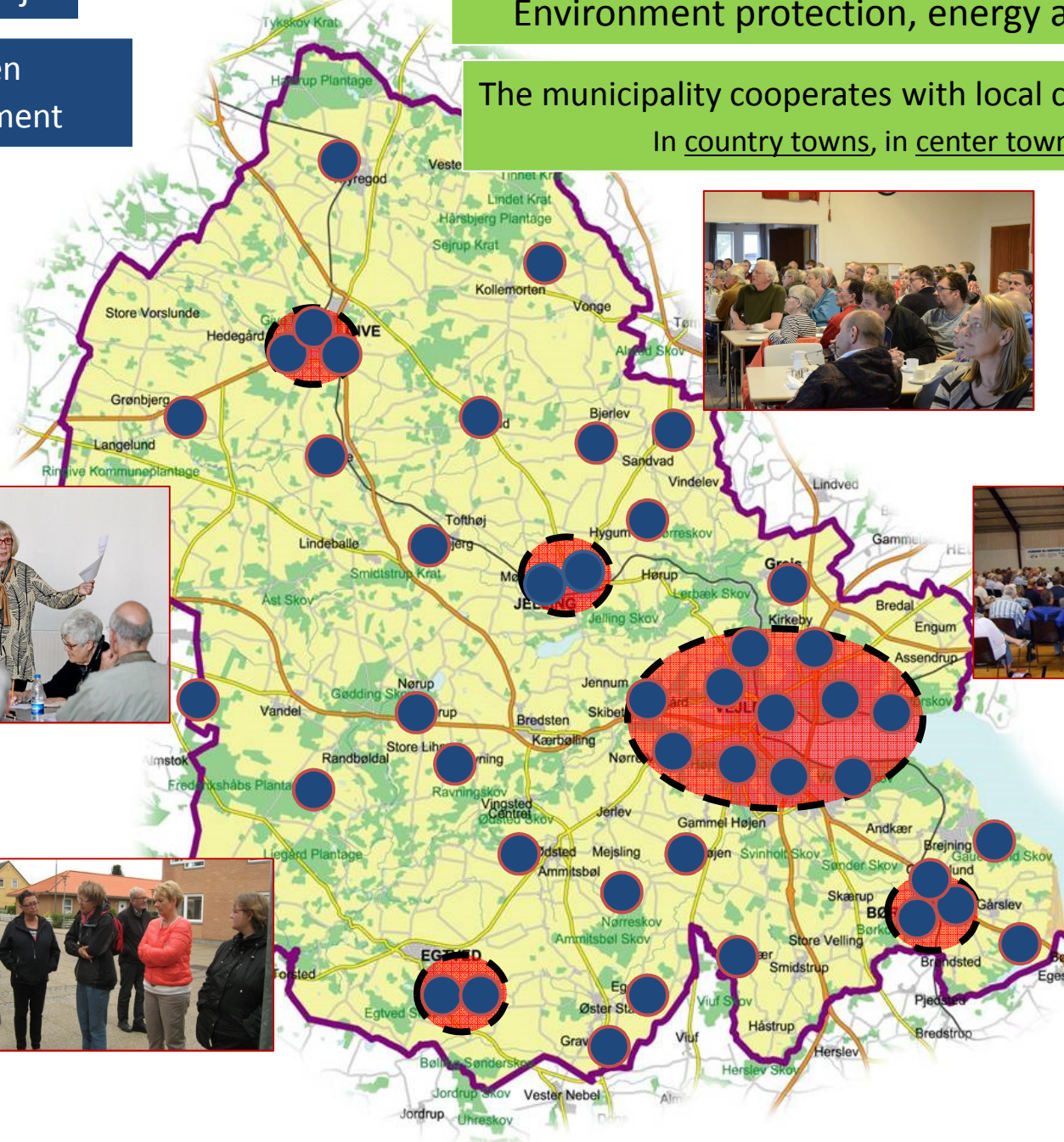


Resilient Vejle

Citizen involvement

Environment protection, energy and climate change

The municipality cooperates with local citizen committees
In country towns, in center towns and in Vejle



Resilient Vejle

Current projects



Energy conservation
measures in
municipal buildings



Green transport



Wind turbine plan



Energy optimisation of mechanical
equipment



ECM's in private
buildings



LED in street lighting

The use of energy

Energy and CO2-action Plan Vejle



Tribble Helix
Green Tech Center



Resilience Lab
Denmark



Green district heating

