First Lessons from TOPSOIL Groundwater Flooding

Anja Melvej – Central Denmark Region





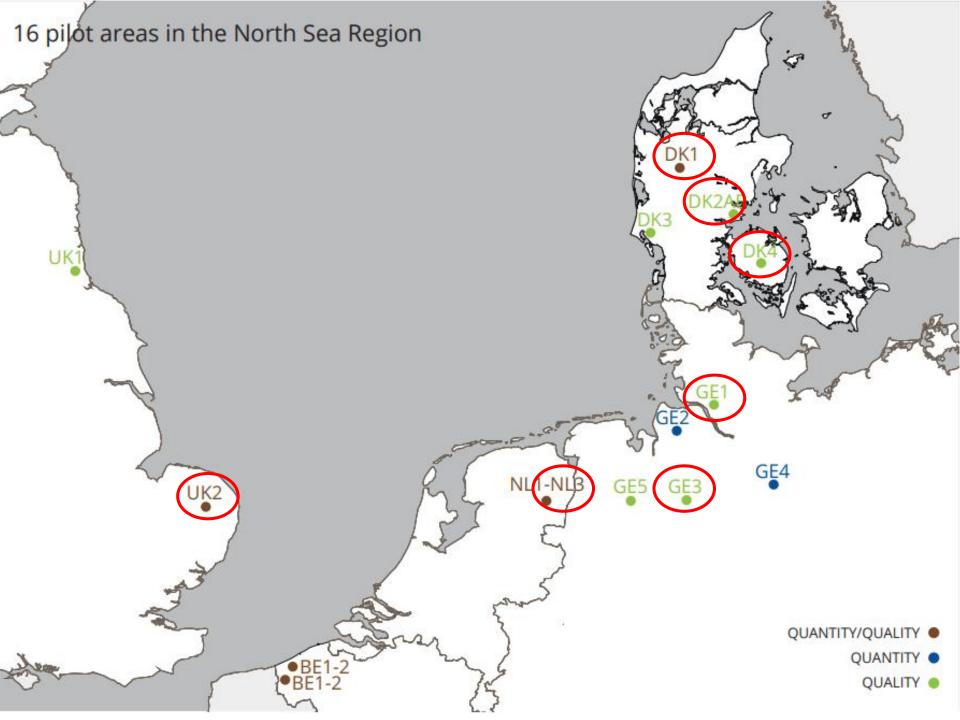
What is the challenge?

Climate change will affect groundwater levels, especially in the uppermost aquifers.

- The effects are caused by changed precipitation climate
- Human behavior
 - change in usage of groundwater change of abstraction
 - renewal of sewage systems

Groundwater flooding will be investigated in 7 of the 16 pilots: <u>DK-1</u>, <u>DK-2</u>, <u>DK-4</u>, <u>GE-1</u>, <u>GE-3</u>, <u>NL-3</u>, <u>UK-2</u>



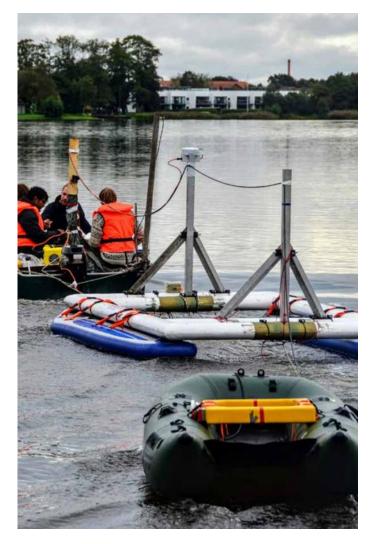


What is the impact?

- Private homes water in cellars
- Affect on public assets buildings, roads ect.
- Public alert for flooding



What is the added benefit of TOPSOIL?



- Innovated investigation methods
 - FloaTEM measurements
- Knowledge exchange
 - Scientific approach
 - Management
 - Responsibility
 - Legislation



Key recommendations

- Holistic approach to problem solving
- Mutual reliant (stakeholder involvement)
- Data sharing
- Public / private partnership
- Involvement of decision makers
 - In Denmark our legislation in managing the challenge of raising groundwater are in some areas counteracting with obvious solutions

