

UPS

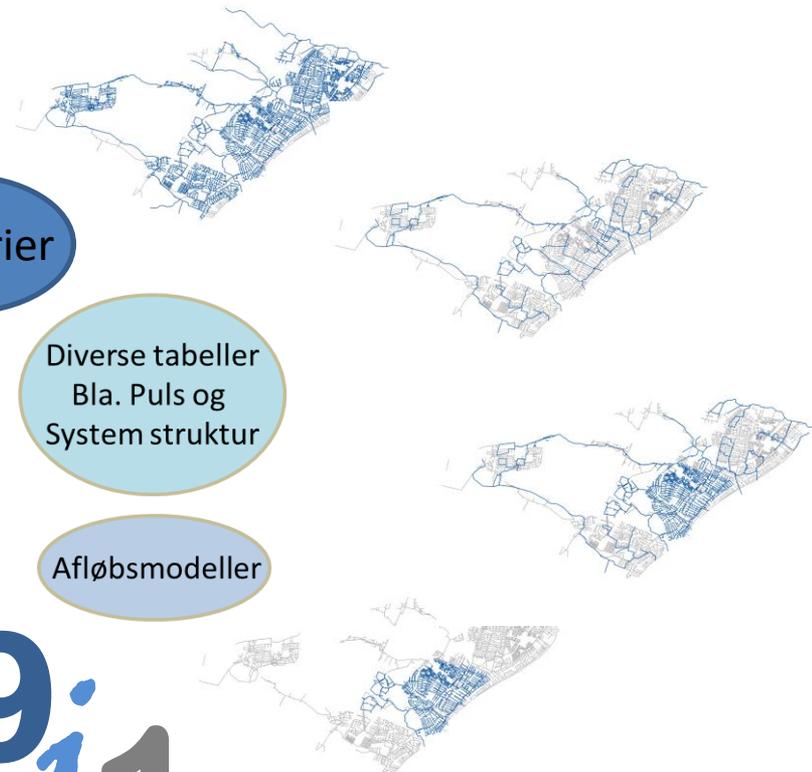
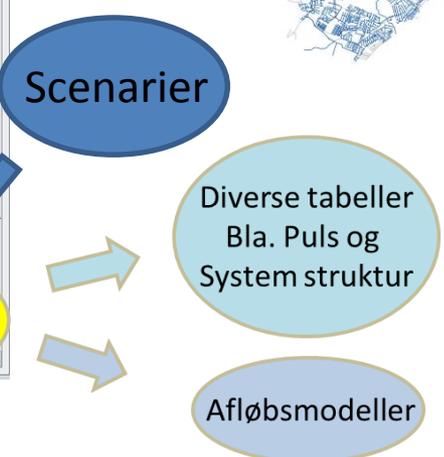
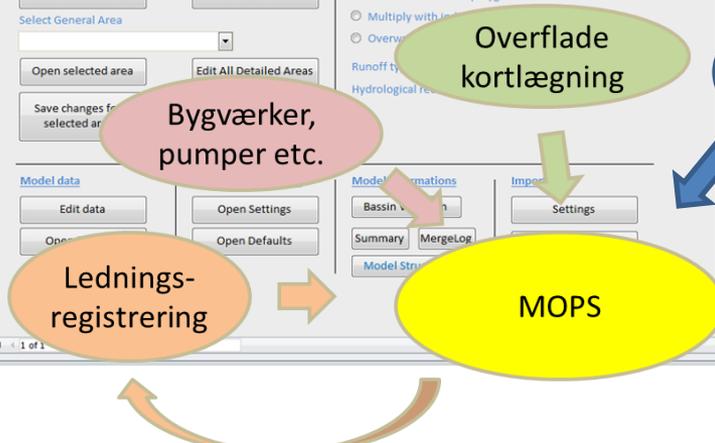
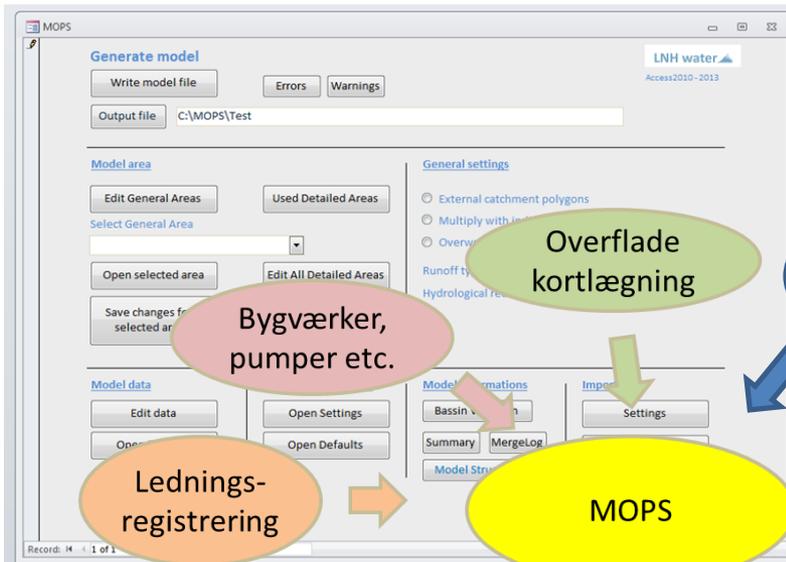
Udvikling af Planlægningsværktøj til prioritering af klimatilpasning og Skybrudsløsninger indenfor urban afstrømning

1/9-2016 to 1/4-2017

LNH water

- Established in 2008
- Consultants in Urban drainage
- Software Development:
 - 1d/1d modelling of urban flooding
 - Administration tool for sewer data and modelling
 - Hydraulic modelling tools

MOPS - ModelOPbygningsSystem



UPS

- DTU Environment, DTU Management and LNH water – total of 1600 hours
- Development of modules compatible with MOPS:
 - Mapping of Urban Areas using high resolution ariel data
 - Implementation of climate adaptation measures in SWMM
 - Initial Conditions for Urban Rainfall-Runoff Models Using the Modified Horton's Infiltration Model and Historical Rainfall Data
 - Interface and tools for QGIS

Application process

- Contact already established
- Meetings with DTU Management and DTU Environment
 - What was needed?
 - Who could do what?
 - When could we do it?
- Joint collaboration writing the application and DTU Management was coordinating
- Meeting with VIS on formalities in the application
- Easy and fast process

Project process

- Standard for registration of hours and tasks
- Several meetings discussing progress and results
- Testing of modules
- Short report on the results

Results

- Paper to be presented at ICUD 2017 in Prague on infiltration and use of historic rain data
- MOPS optimized for handling large amounts of data and climate adaption measures are implemented
- MOPS compatible with SWMM
- MOPS compatible with QGIS
- Several plugins developed for QGIS
 - Surface mapping
 - Interface for editing the hydraulic models and presenting adaption measures
 - Flood mapping and risk assessment (existing plugin)