



Svenskt Vatten



# An interactive visualization platform for sustainable urban storm water planning

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# Aim

- Develop an open-access visualization platform to support municipalities to more holistically plan and collaborate around sustainable storm water management
  - Highlight and widen the issue internally
  - Facilitate planning – legal aspects, collaboration, dialogue, alternative measures
  - Support joint analyses
- Gather information in ONE place
- Target green-blue measures



## Supporting municipal:

- Sub-basin analysis
- Collaborative planning
- External dialogues



<http://visual.itn.liu.se/vt2/>

Under titeln **Tidigare erfarenheter** finns ett exempel på hur Göteborgs stad har organiserat arbetet kring dagvattenlagring i detaljplaneringsprocessen och under titeln **Övrig information/teknik** finns bl.a. information från Erievast kring lagar som reglerar dagvatten med såväl teknisk lagring som detaljplaneringsprocessen.



# Developed together with:

## Reference group

- Svensk Försäkring
- Svenskt Vatten
- SMHI – Kunskapscentrum för klimatanpassning
- Skanska
- Tyréns, WSP
- Municipalities

## User panel

- Water utilities (Tekniska verken, Göteborg kretslopp och vatten)
- SMHI
- Länsstyrelser
- Municipalities (Norrköping, Linköping, Göteborg, Malmö, Skövde)

+ Tekniska kontoret och Norrköping Vatten och Avfall



# Build on previous work – e.g. VisAdapt™

**VisAdapt** nord-star™

### 1. LOCATION

Find Location  
Vastgötegatan 23, Norrköping

House Builder

**ROOF**

Roofing felt  
 Tiles / Tin roof

**FAÇADE**

**FOUNDATION**

Basement  
 Suspended foundation  
 Slab foundation

**GARDEN**

**TOPOGRAPHY**

### 2a. CLIMATE SCENARIOS

### 2b. RISK MAPS

### 2c. EXPOSURE INDICES

Set Map Layer: Precipitation Selected area: Norrköping (Östergötland, SWE)

**TEMPERATURE**  
from 4.9 to 7.5 °C

**PRECIPITATION**  
from 420 to 460 mm

**HEAT WAVES**  
from 2 to 12 events

**CLOUDBURST**  
from 2 to 3 events

### 3. ADAPTATION MEASURES

Information and Recommendation

**HEAT WAVES**

**ROOF**

- Roofing felt

Inner temperatures can be decreased by changing to a white roof

**FAÇADE**

- Stone / Metal / Fiber / Cement

Inner temperatures can be decreased by screening off sunlight from windows through installing temporal or permanent sun blockers or install air-condition systems

**FOUNDATION**

**TEMPERATURE**

**ROOF**

- Roofing felt

Repair cracks on roofing felt (especially joints around chimneys, skylights, etc.)  
Roofing felt is dried out faster and should be replaced more often

**FAÇADE**

- Stone / Metal / Fiber / Cement

Windows should be repainted more often

**FOUNDATION**

Thanks!

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