

# Climate adaptation in Norrköping, -strategies and practical examples

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### Strategies for Climate Adaptation

#### **Principles for planning**

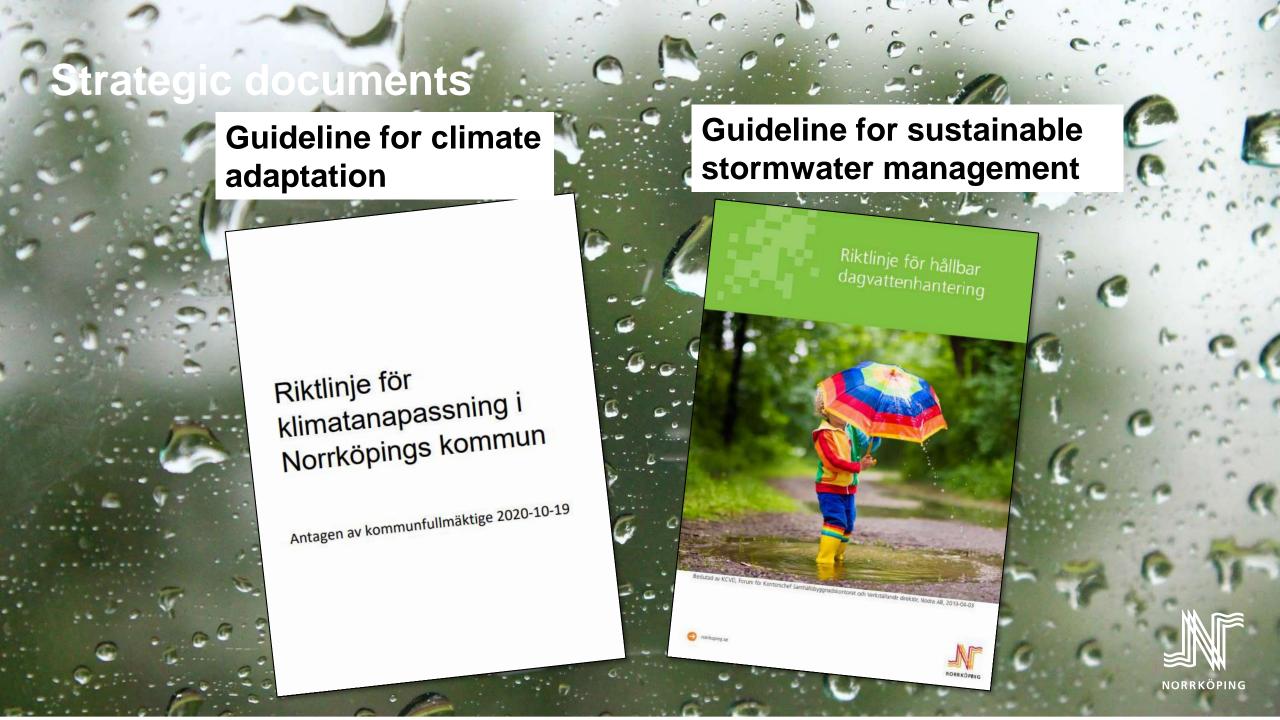
- Sea: 100 year return year 2100,
- Sea: no buildings < 2.5 meters above sea level
- Lakes and streams: 100 year return
- Rain: 100 year return year 2100
- The municipality is responsible for rain larger that the pipes can handle

#### Models for flooding:

- Sea, largest lakes: 2009
- Stormwater: 2022 (2012, 2017)

- Current comprehensive plan: reserved surfaces for flooding
- New comprehensive plan: Risks for existing buildings and strategies for reducing their risks described
- Detailed plans: Show how the principle for planning is securedrequirement for allowing new buildings





## **Practical examples**



Two projects to reduce the risk for flooding

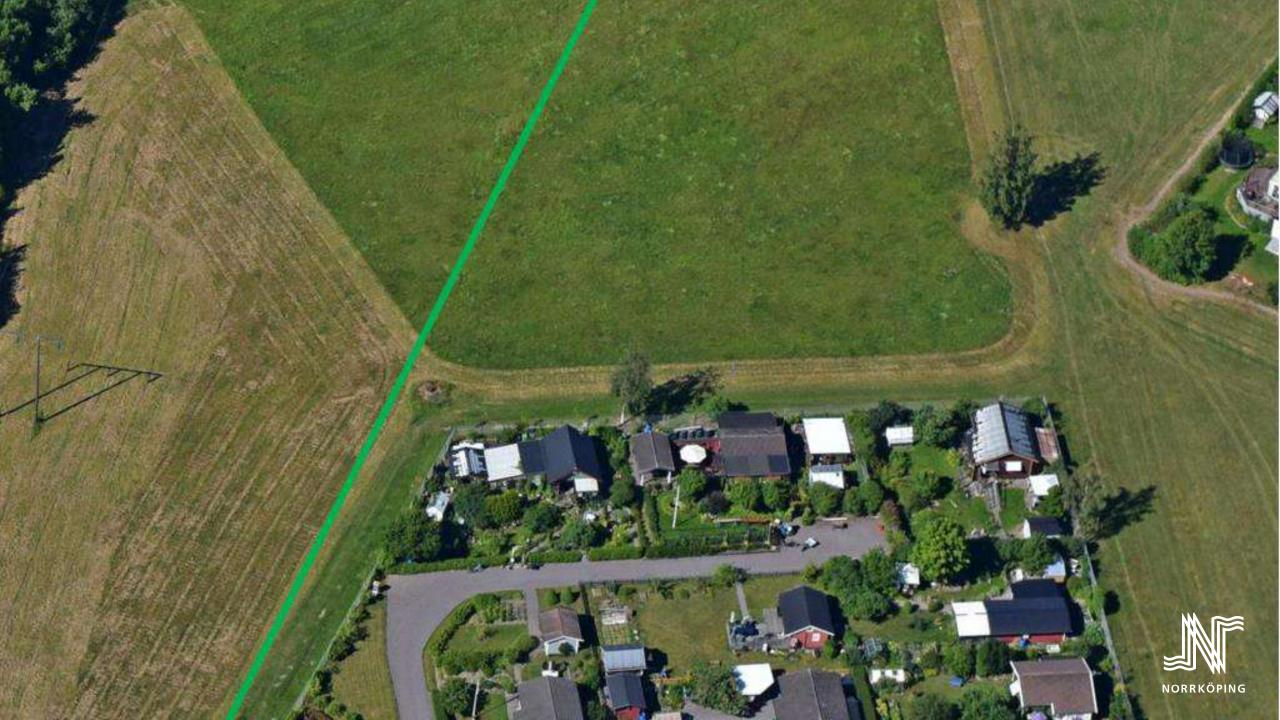




# Pryssgårdsparken

Reduce the risk of flooding when it rains







### **Cost allocation**

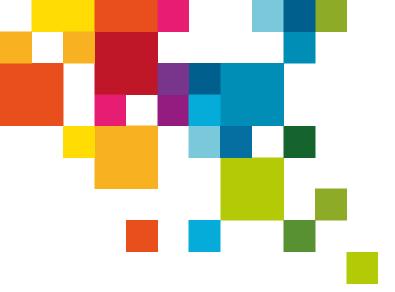
- Cost was shared between the water company and the municipality
- Planning phase: 50 % each
- Building phase: Your own part:
  - Volume for stormwater: water company (40%)
  - Volume for flooding: municipality (60%)
- Operation and maintenance
  - Surfaces for grass and plants: municipality
  - Technical parts: water company







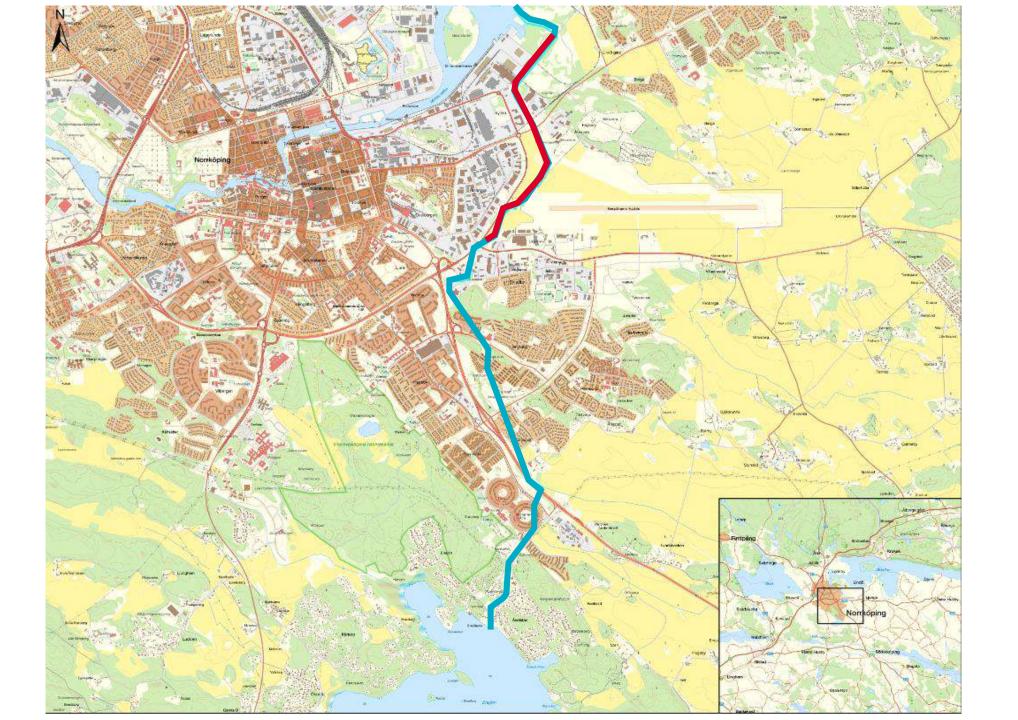




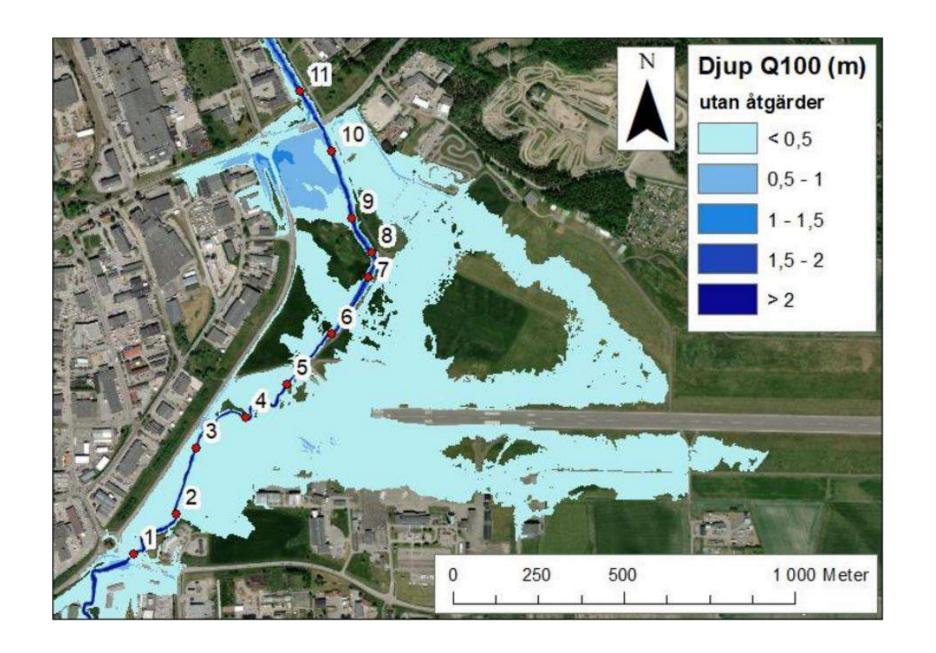
# Ljura bäck

Reduce the risk of flooding around a natural stream















# Thank you!

