

# GOTLAND SWEDEN



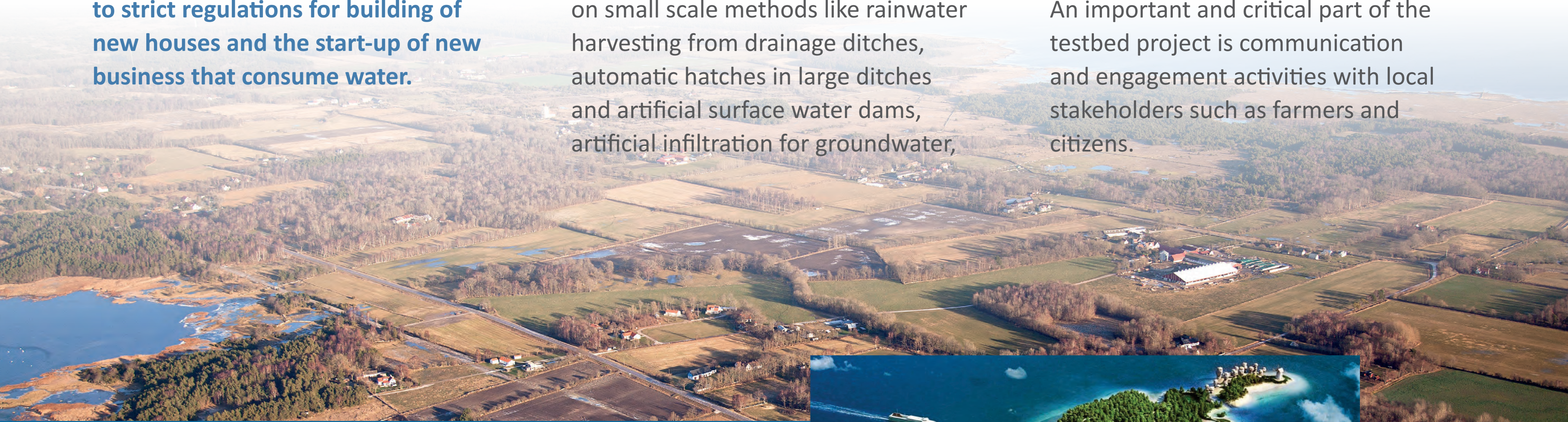
## Circular solutions for : Water

In recent years, the island of Gotland has experienced a severe water crisis, negatively affecting tourism and small-scale industries. Water shortages hinder economic development due to strict regulations for building of new houses and the start-up of new business that consume water.

A national funded testbed (2M€ investment + 1,5M€ for evaluation) in the water sector is currently under development in southern Gotland. It consists of an integrated system based on small scale methods like rainwater harvesting from drainage ditches, automatic hatches in large ditches and artificial surface water dams, artificial infiltration for groundwater,

construction of groundwater dams for subsurface water storage, wastewater reuse and climate neutral desalination based on solar energy.

An important and critical part of the testbed project is communication and engagement activities with local stakeholders such as farmers and citizens.



### Relevant Data

14 000 ha

Area of Storsudret

900 

full year residents

2 100 

summer residents

300 000 m<sup>3</sup>/year

consumption of water

5 000

Cattles on Storsudret



DEMO SITE:  
Gotland

### Relevant sectors



Tourist industry



Municipal sector



Water sector

### Key innovations & actions

- **Rainwater harvesting** using automatic floodgates to **replenish aquifers** and monitoring of aquifer levels
- **Decentralised membrane treatment of raw wastewater for reuse** to reduce volumes treated at the central WWTP
- **Climate neutral desalination** powered by solar energy to overcome the carbon footprint drawbacks