

LEGISLATION SUPPORTING WATER SMART SOLUTIONS

Water at Risk Symposium
21.3. - 22.3.2017

voda
NORDIC Oy

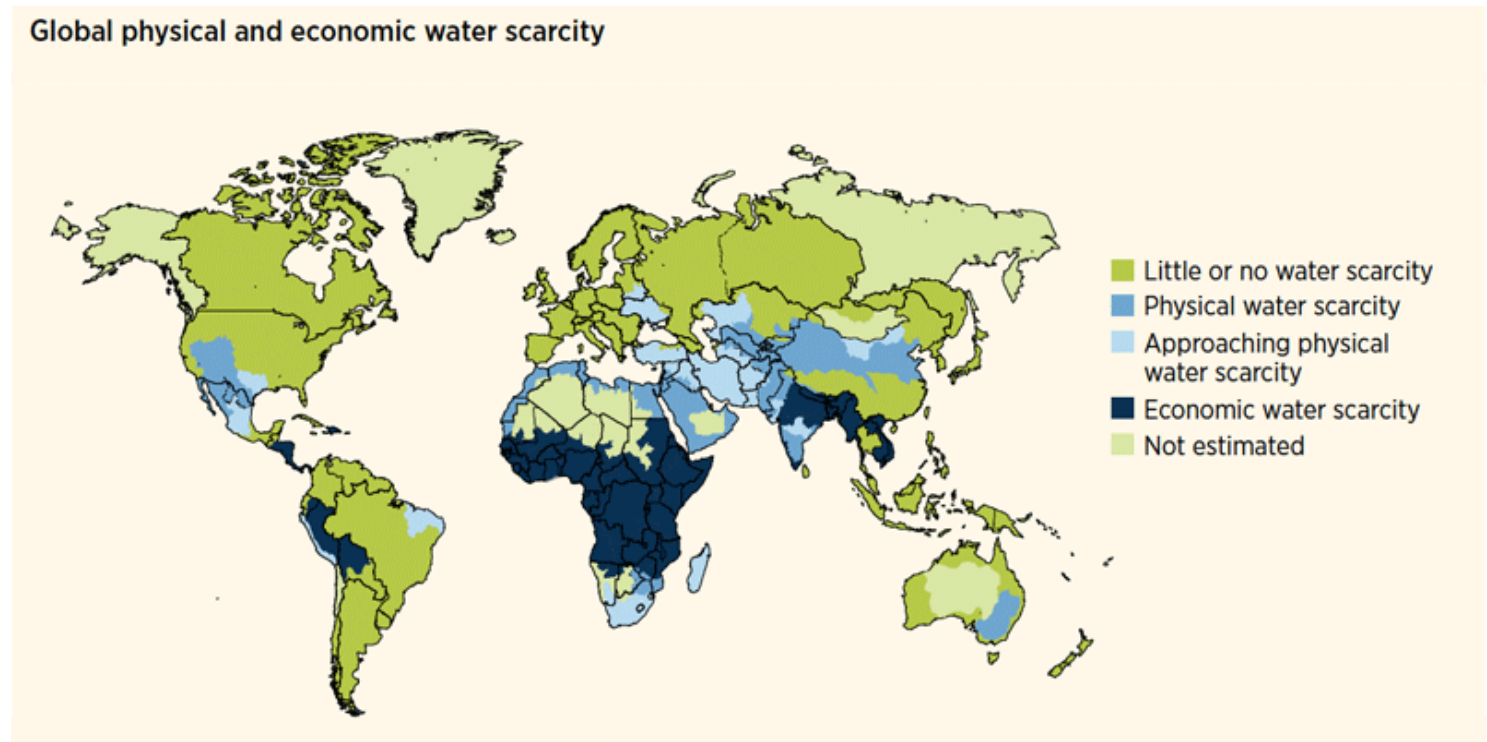
LEGISLATION SUPPORTING WATER SMART SOLUTIONS

Think globally - act locally

Local challenges

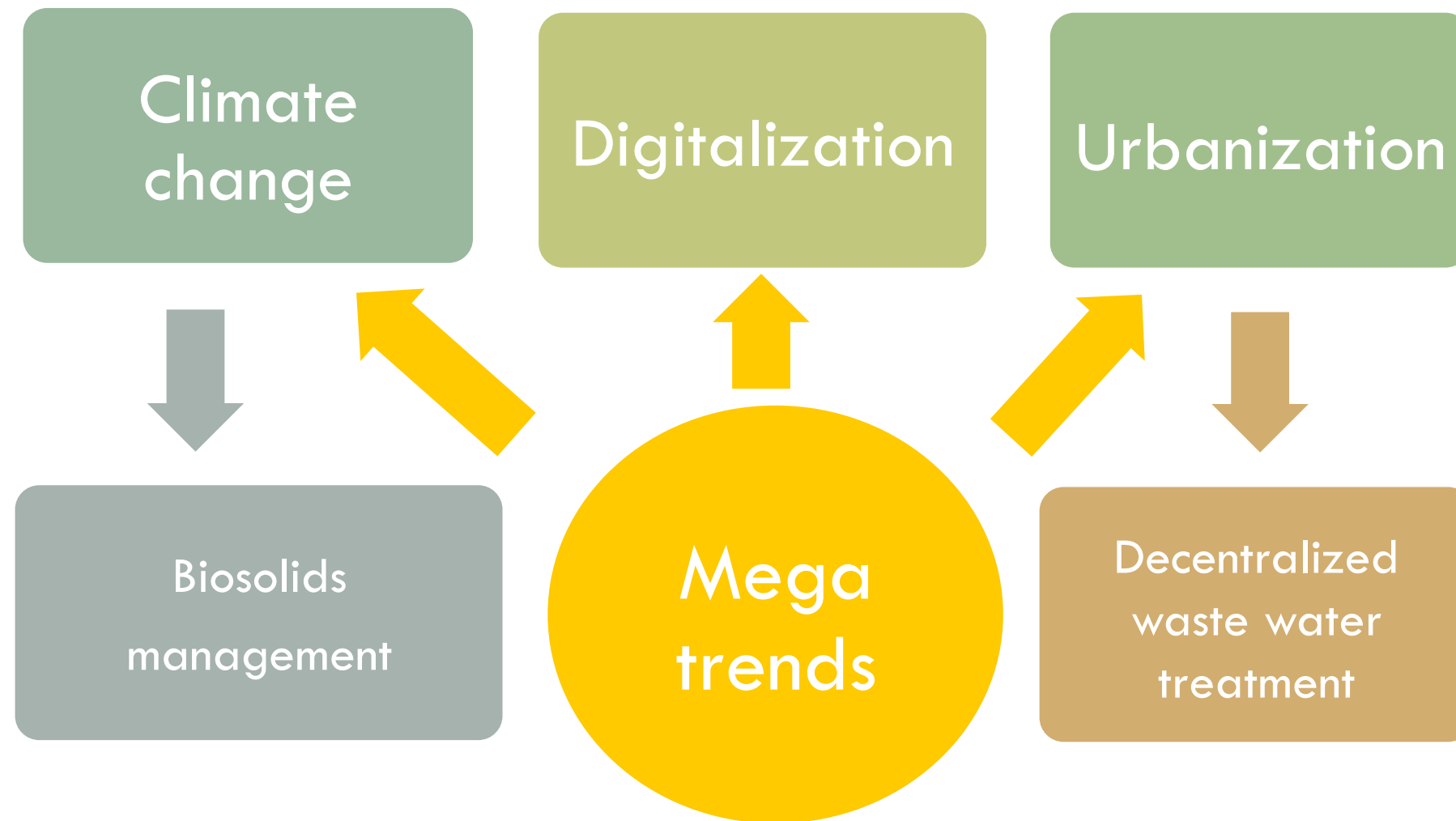
- ✓ Water scarcity and recycling in Finland ?
- ✓ Mitigation climate change, yes
- ✓ Urbanization, yes
- ✓ Resource efficiency, yes

Getting early stage commercial references from home market is necessary for a successful global market introduction with novel technology.



Source: [World Water Development Report 4](#). World Water Assessment Programme (WWAP), March 2012.

GLOBAL CHALLENGES – LOCAL OPPORTUNITIES



Forerunner sets a) strict regulation locally b) to issues that are relevant globally.

Switzerland: regulation for removing micropollutants, Sweden: 60 % of phosphorus from waste water to be recycled,
Denmark 100 % renewable energy by 2050.

MARKET EXPANSION FOR ONLINE MONITORING AND ICT EXPERTISE

Finland today

- Small villages
- Long distances
- Strict waste water regulation
- ICT expertise

- Transparency
- Open data
- Predictive, preventive maintenance (IOT)
- Online monitoring
- Reliable operations

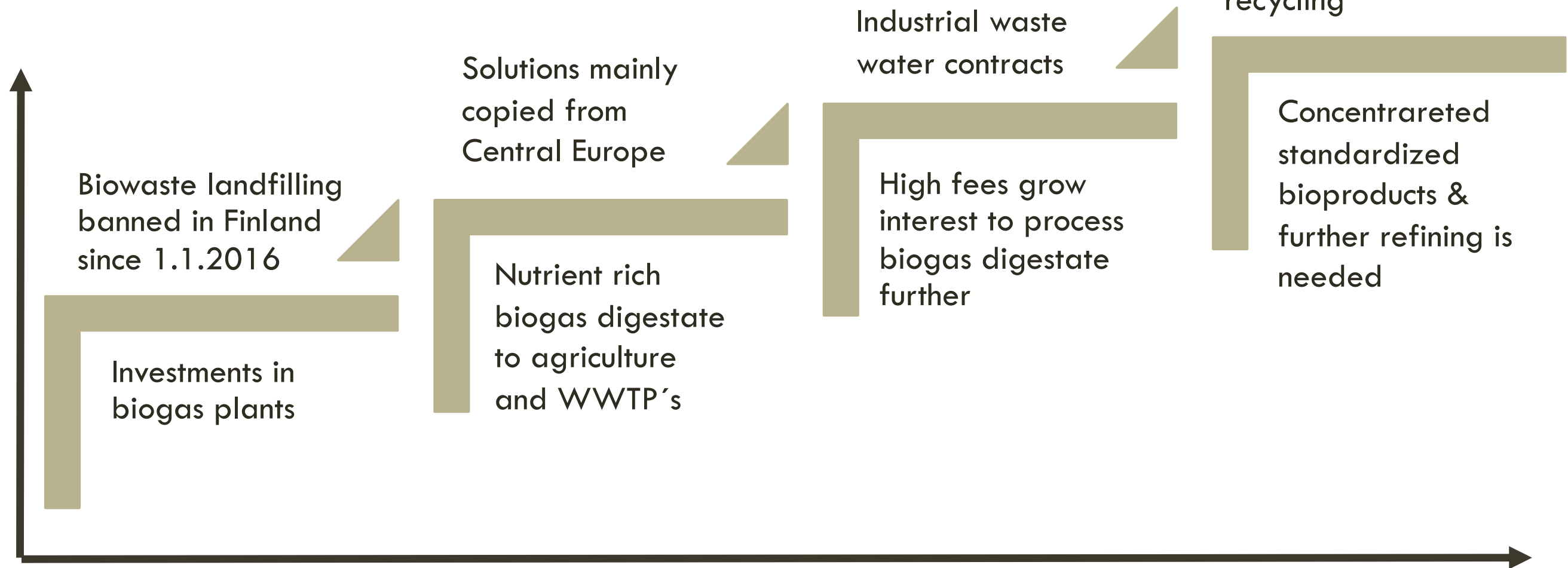
Needs in Mega cities

- Decentralized waste water treatment
- Unmanned treatment plants
- Resource and cost efficiency

- **Monthly environmental tests and reporting do not support operational excellence.**
- **Transparency and information available online will focus efforts to avoid unacceptable discharges.**

BIOSOLIDS MANAGEMENT

Push to develop sustainable nutrient recovery and recycling



Regulation is needed to promote truly sustainable nutrients recycling: capturing carbon and utilizing biogas.

WATER SMART SOLUTIONS: DEMAND AND SUPPLY

1. Excellence
2. Impact
3. Implementation
4. Market Size



Market insight, local needs and commercial references will enhance Finnish water smart solutions and technologies to be stronger in global competition.