

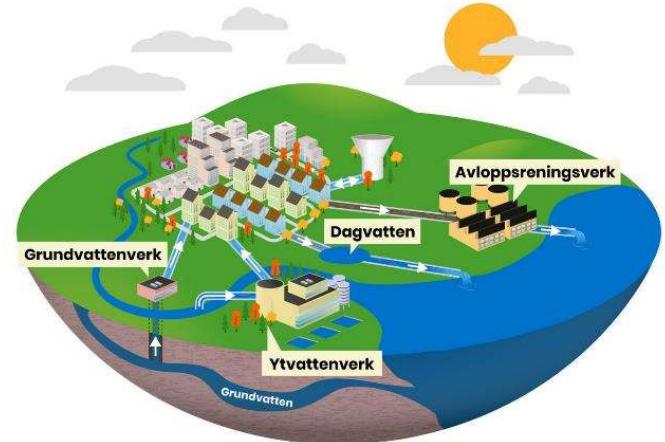


Preparedness and civil defence for drinking water resilience

Paulina Eriksson – Unit for drinking water and chemical substances

Production of drinking water

- 2000 water works – produce 85 % of the total drinking water supply in Sweden
- About 90 % of the households are connected to municipal drinking water distribution system
- 1.4 million people get water from their own well
- Cost - from 0,2 to 0,9 Euro/100 litre



Befolkingen ansluten till det kommunala nätet efter år. vatten.

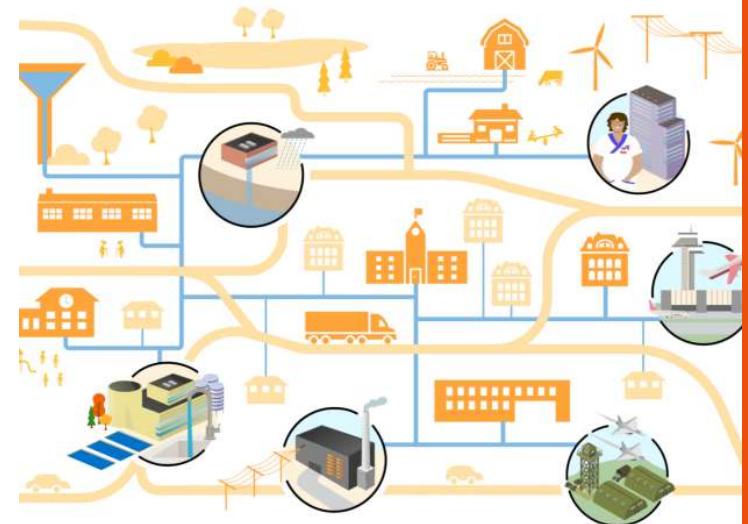


Increased capacity for resilience

- [Handbook in crisis preparedness and civil defense for drinking water](#)
- Exercise: Emergency water in a regional context

Handbok i krisberedskap och civilt försvar för dricksvatten

Modul 1. Krisberedskap och totalförsvarsplanering



 Livsmedelsverket

Water and its dependencies

The production of drinking water has many critical dependencies.



Water and its dependencies – Chemicals for water treatment

- The same chemicals are used in production of drinking water as treatment of waste water
- Challenges for producers of chemicals
- Dependency of import and robust supply chains



Management of shortage of chemicals – Agreed guideline

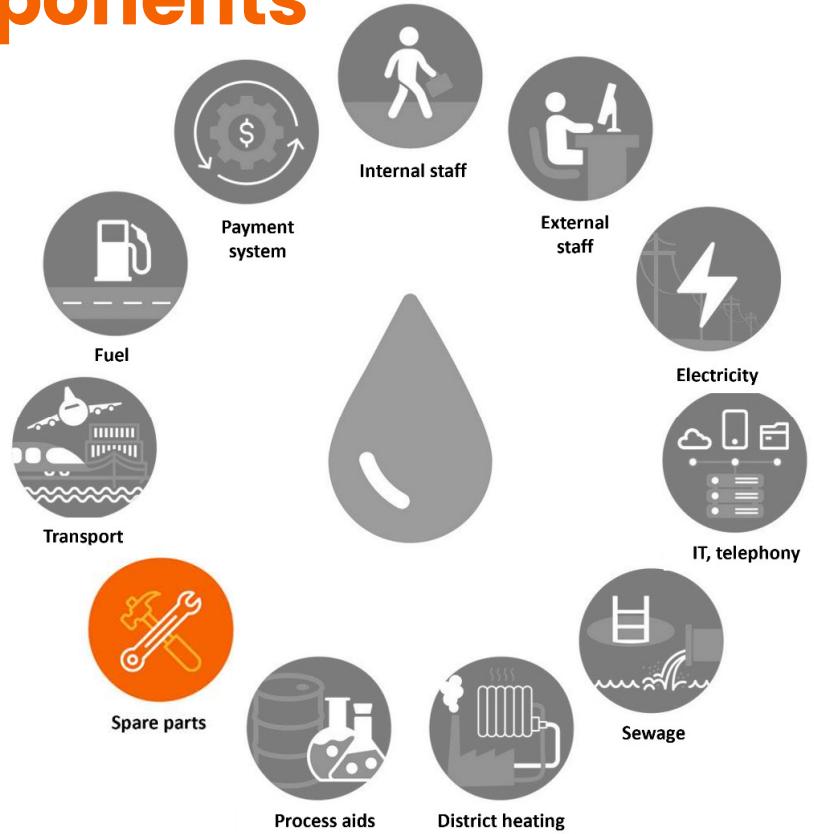
The agreed **prioritisation** in case of a shortage of chemicals:

1. Drinking water producers
2. Wastewater treatment plant (sewage) with raw water source as recipient and where there is a suspicion of an increased risk of impact on the drinking water producer
3. Wastewater treatment plants with particularly sensitive recipients
4. Other sewage treatment plants



Water and its dependencies – Spare parts / critical components

- No large supplies
- Dependency of import and robust supply chains
- Cooperation for seeking /offering spare parts
- 3D-printing?



Examples of spare part that might be 3D-printable



Swedish National Water Emergency Response Team – VAKA

- Provides expert support and lends equipment for emergency drinking water supply
- Led by the Swedish Food Agency and is staffed with 25 experts from municipalities and other authorities/organizations
- Participates in training and exercises

VAKA will never take over someone else's responsibility and makes no decisions



Emergency equipment for drinking water

- Emergency water tanks can be borrowed as a supplement to the municipality's own equipment
- Depots all over the country
- More equipment is being purchased right now





Livsmedelsverket
Swedish Food Agency