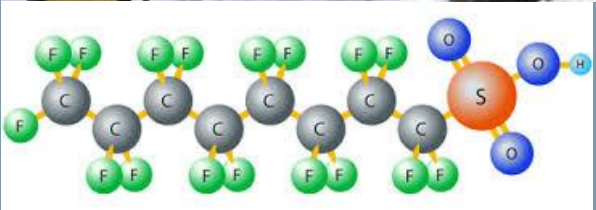




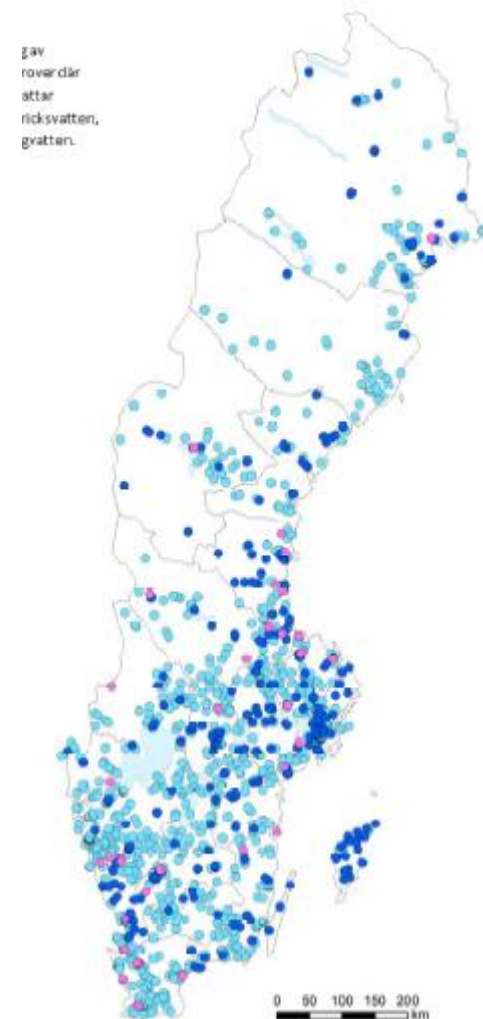
HIGHLY FLUORINATED SUBSTANCES (PFAS)



Jenny Hedman
HELCOM Pressure-5

Screening of PFAS in the environment

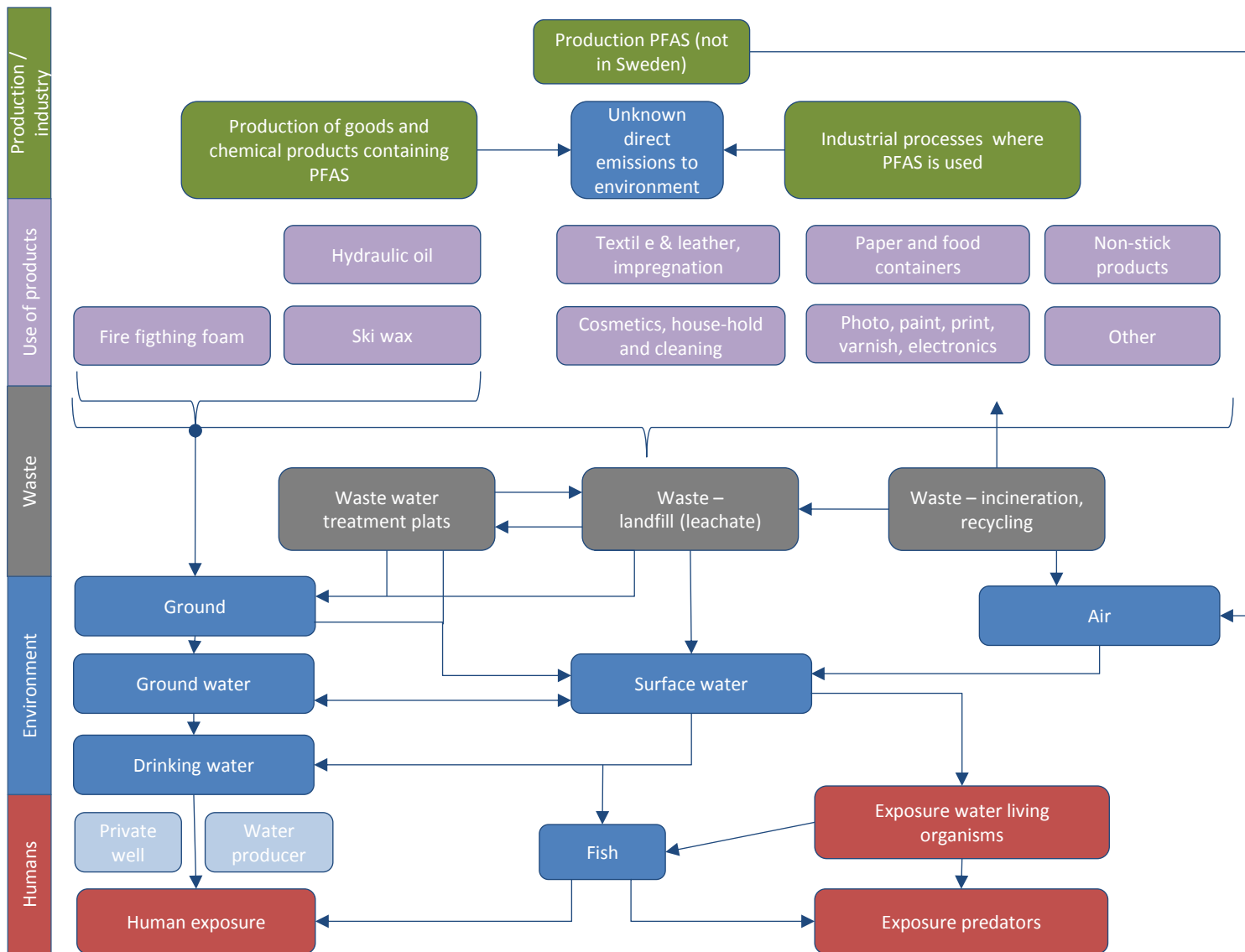
- Gov. commission 2015
- Screening in surface and ground water
- Compilation of existing and new data
 - Water surface/ground
 - Biota
 - Sediment/soil
 - Air
- 6,000 samples (500 new)



Per- and polyfluoroalkyl substances

- Used since 1950s
- Industrial processes and consumer products
- Unique combination of properties:
 - Water, dirt and oil repellent
 - Resistant to heat
 - Film forming properties
 - Extremely persistent
 - Bioaccumulate, toxic
 - Relatively water soluble and mobile
- Ca 3,000 different substances





Need for more knowledge

- Amounts and sources
- Concentrations in drinking water supplies
- Only <40 out of ca 3,000 PFAS measured
- Shift in use of types of PFAS, more short-chained
- Risk for human health and environment based on sum7-PFAS - underestimation



List of measures...

- Use of PFAS-containing fire fighting foams at sea
- Regional mapping of awareness and measures related to PFAS (PA Hazards)



