

HIGHLY FLUORINATED SUBSTANCES (PFAS) IN THE BALTIC SEA ENVIRONMENT

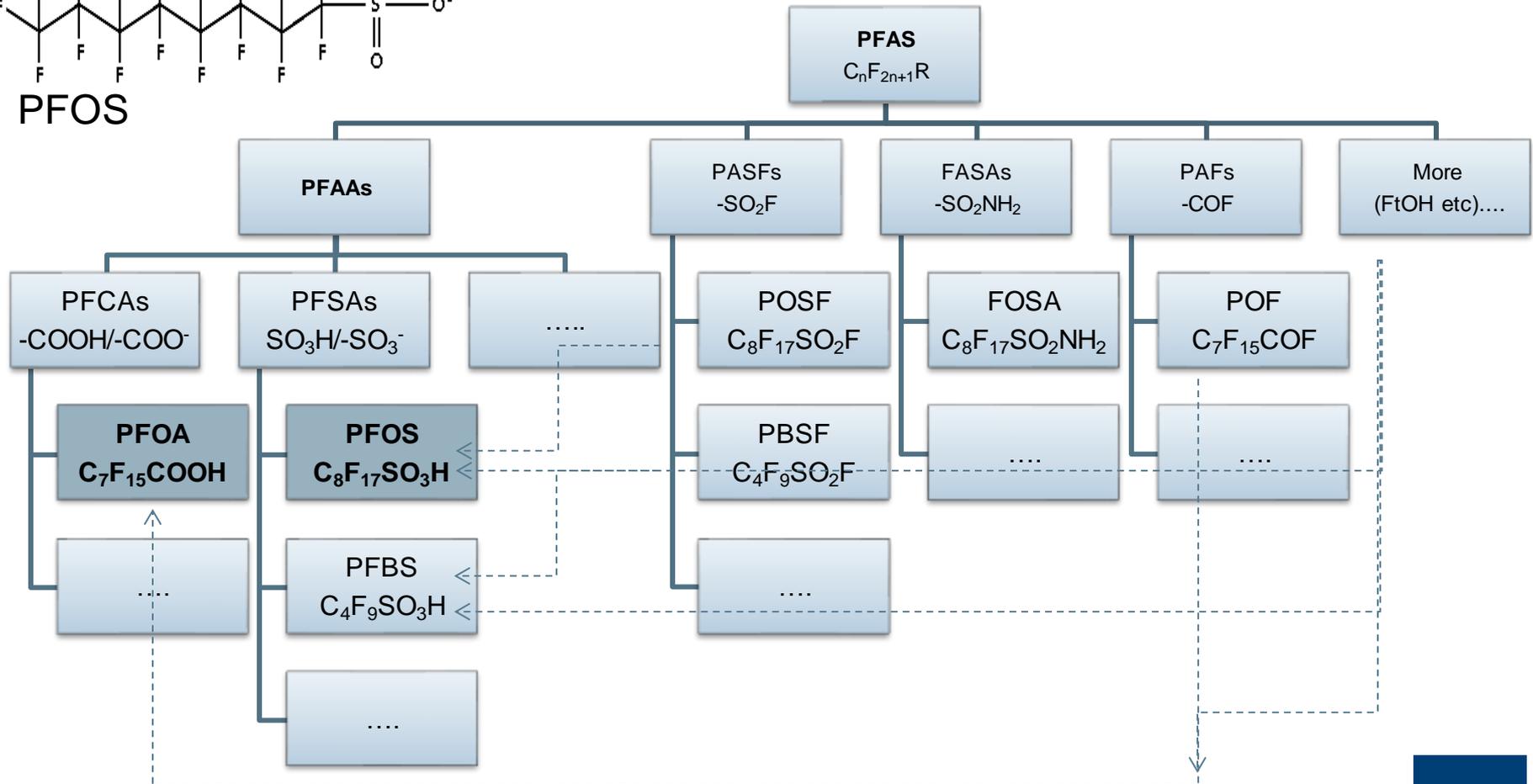
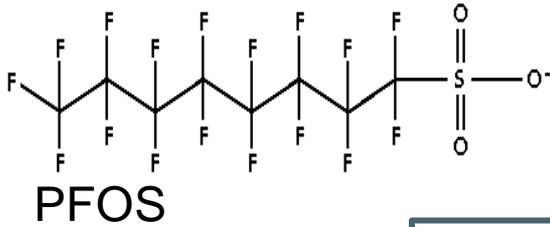
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PFAS – thousands of substances



PFAS

properties and usage

- Temperature resistant
- Surfactant
- Water and lipid repellent

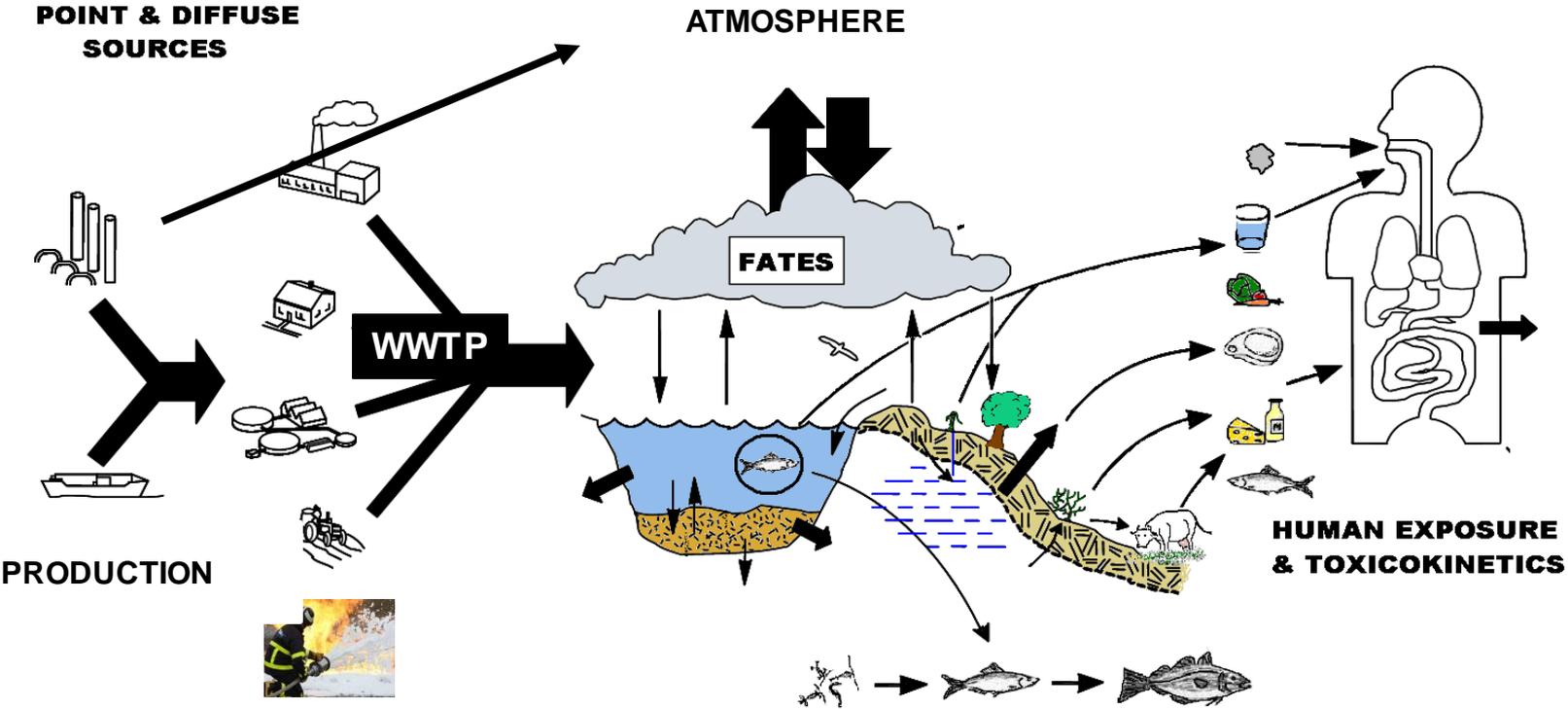
- Fire fighting foam
- Ski waxes
- Impregnation of textiles and paper
- Cosmetics
- Detergents

No degradation in soil and water!

- Contaminate ground water, surface water and drinking water
- Accumulate in the food chain

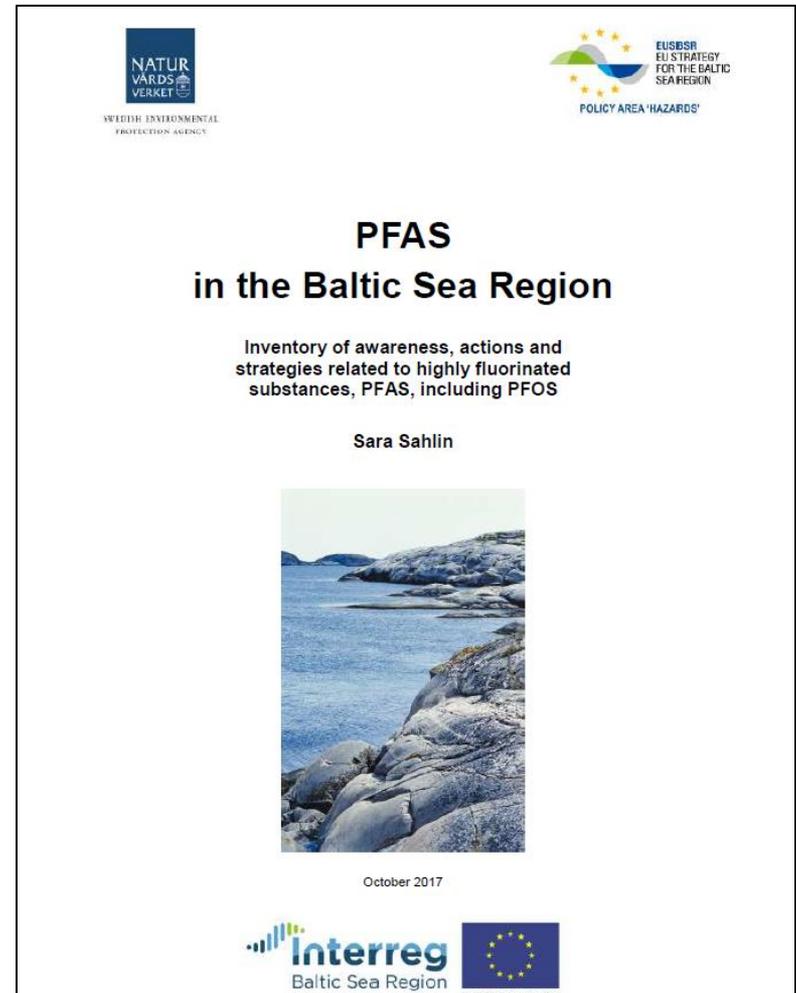


PFAS - Fate and exposure



PFAS – Challenges

- Differences in knowledge and awareness within the Baltic Sea region
 - Lack of data
- Many different actors
- Measures
 - How to regulate PFAS?
 - Remediation techniques?



PFAS – work in progress in Sweden

National

- Governmental commission to the Swedish EPA – risk assessment of all sites in Sweden which are contaminated from the use of fire fighting foams
- Swedish EPA - Regulatory guidance
 - Environmental and human biomonitoring programmes
- A proposal from the Chemicals Agency to ban the use of fluorinated fire fighting foams for training purposes in Sweden is processed by the Government
- The Swedish National Food Agency has developed national action limit for PFAS₁₁ in drinking water

EU

- A proposal from Sweden and Germany to ban the use of long-chain PFCAs (C9-C14) is now being processed by the ECHA
- Sweden has also proposed to the EU Commission and the EU Member States that we need an EU strategy aiming at reducing the use of PFAS

PFAS – Expectations

- A European strategy on non-toxic environment (NTES) one of the commitments under the 7th European environment action plan – due by the end 2018
- NTES would make EU leader in SAICM discussions
- Inspire progress in safe chemicals management
- Provide significant environmental health wins
- Improved knowledge and awareness on PFAS, improve, harmonise monitoring & pilot technical solutions