Minimising Pharmaceuticals in the Environment ut Harm

What's the Problem?



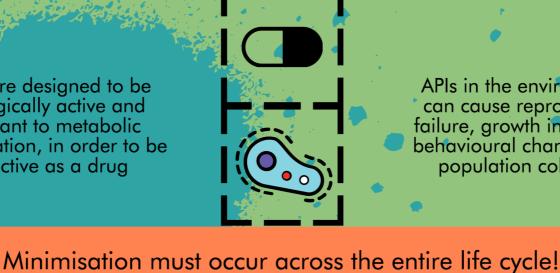
Pharmaceuticals enter the environment (water, soil, sludge, & organisms) at all stages of their life cycle

> Pharmaceuticals can end up in drinking water and accumulate in vegetables and fish

A Problem by Design: Active Pharmaceutical Ingredients (APIs)

...raising concern about the impact they can have on humans

APIs are designed to be biologically active and resistant to metabolic degradation, in order to be effective as a drug



APIs in the environment can cause reproductive failure, growth inhibition, behavioural changes and population collapse

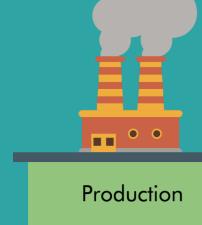




Disposal



Solutions Along the Life Cycle: Minimising Release



Health Institutions/Professionals

Use



Disposal

Health

Institutions/Professionals

Collect the urine of

specific patient groups

tor separate treatment

These patients should also do this at home

Must be held accountable

and responsible for the roducts they place on the

market

Manufacturers/Producers



Rational doses & appropriate pack

We need improved

prescription practices





Raise public awareness about the appropriate use of medication

Promote

healthy lifestyle choices!



about the harms of

pharmaceuticals in

the environment

Provide collection services

Patients

Healthy Lifestyle

Implement advanced wastewater treatment systems

Raise Awareness!



Patients

DO NOT accumulate unfinished prescriptions at home

Responsible Disposal



to disposal location



Should ensure responsible disposal

We need improved water treatment technologies for largescale agro production

DO NOT release pharmaceuticals into rivers!



Companies/Suppliers

Should comply with all

environmental réquirements

stringent:

There needs to be more

Permits

Registrations



Sustainable

Procurement

Initiatives



Companies need to know

their supply chains





Food Producers

Need to minimise use of pharmaceuticals in agriculture



Regulate pharmaceutical contaminants in fertilisers



Transnational laws are needed to ensure minimisation of pharmaceuticals in the environment!