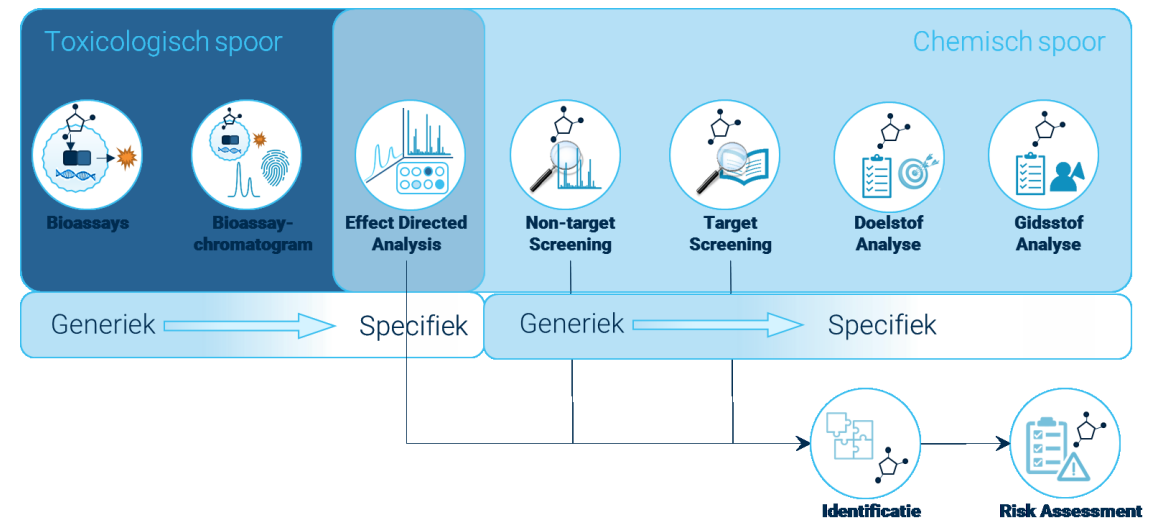
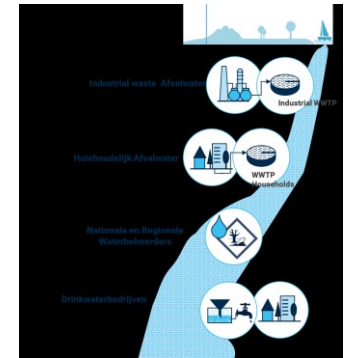


# The Water Laboratory: bioassays & policy

- Central laboratory for 3 Dutch Drinking Water companies
  - Use surface water from rivers Rhine, Meuse and Lake Yssel to prepare drinking water
- Monitoring and Research on presence and toxicology of chemical contaminants in the water cycle
- Using:
  - Bioassays
  - Chemical target compound analyses
  - Screening
  - Combination: Effect Directed Analysis
  - => *toolkit integral water quality*



## Bioassay Policy:

- DW Legislation: Risk Based Monitoring
- => prioritization of compounds, bioassays, screening
- Source protection!

## Bioassay Research:

- Applicability (new) bioassays in WQ research
- Presence of bioactive compounds in the water cycle
- Fate in water treatment processes
- Coupling new bioassays to Effect-directed Analysis platform

## Bioassays in routine monitoring:

- Surface waters (13x/y)
- Drinking water (4x/y)
  - compare concentrations with Effect based Trigger Values
  - 2 consecutive exceedances & unknown cause? => start EDA => characterize / identify active compounds

