

European Health Forum, Bad Gastein, 5 October 2017
Ybele Hoogeveen, European Environment Agency, Copenhagen

Environment, health and well-being

Improving the evidence base



Environment, health & well-being



Environment, health & well-being



- Air
- Water
- Noise
- Ultraviolet radiation
- Radon

*Relatively
well-known*

Environment, health & well-being



- Air
- Water
- Noise
- Ultraviolet radiation
- Radon
- **Chemicals**
- Nanotechnology
- Electromagnetic fields

Emerging

Environment, health & well-being



- Air
- Water
- Noise
- Ultraviolet radiation
- Radon
- Chemicals
- Nanotechnology
- Electromagnetic fields
- Climate change
- Biodiversity loss / Ecosystem services

Systemic

Environment, health & well-being

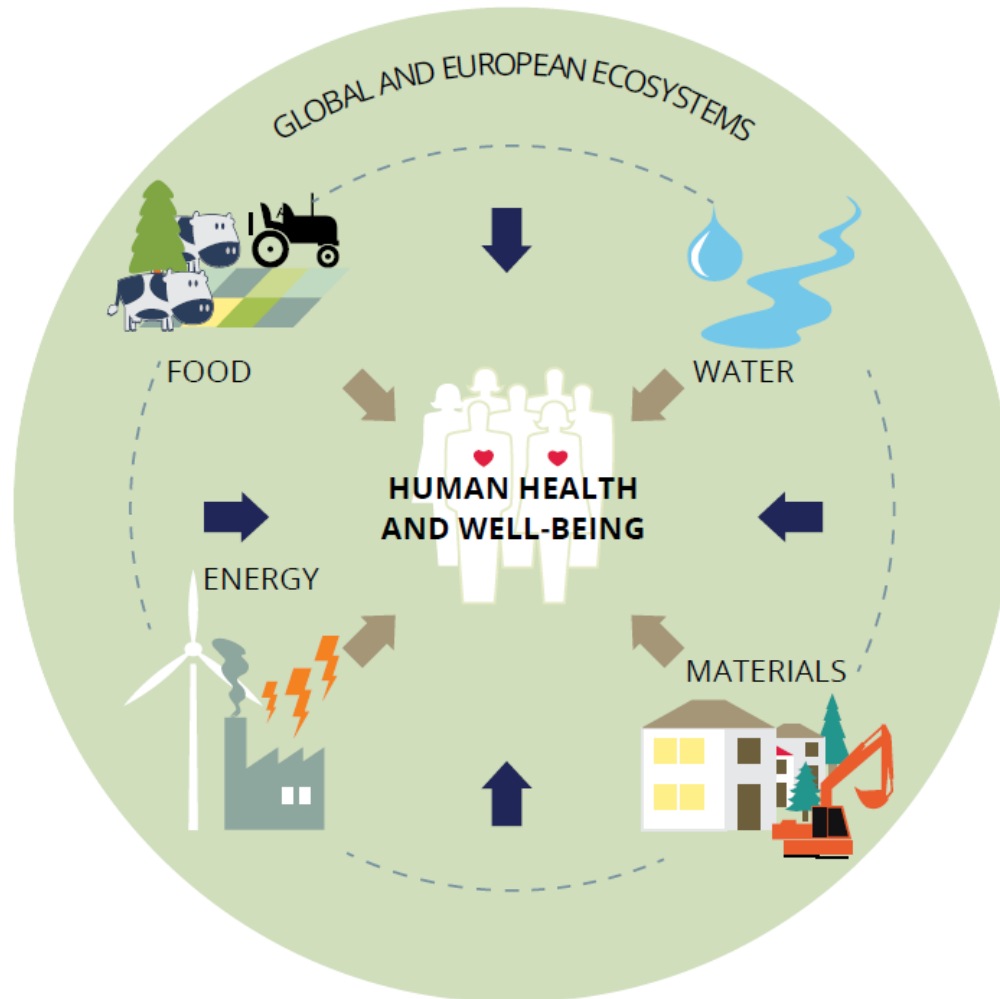


To reduce multiple exposure and optimise health & well-being outcomes of natural resource use, there is a need to move away from compartmentalised hazard-based approaches towards an **integrated (ecosystem) perspective**.

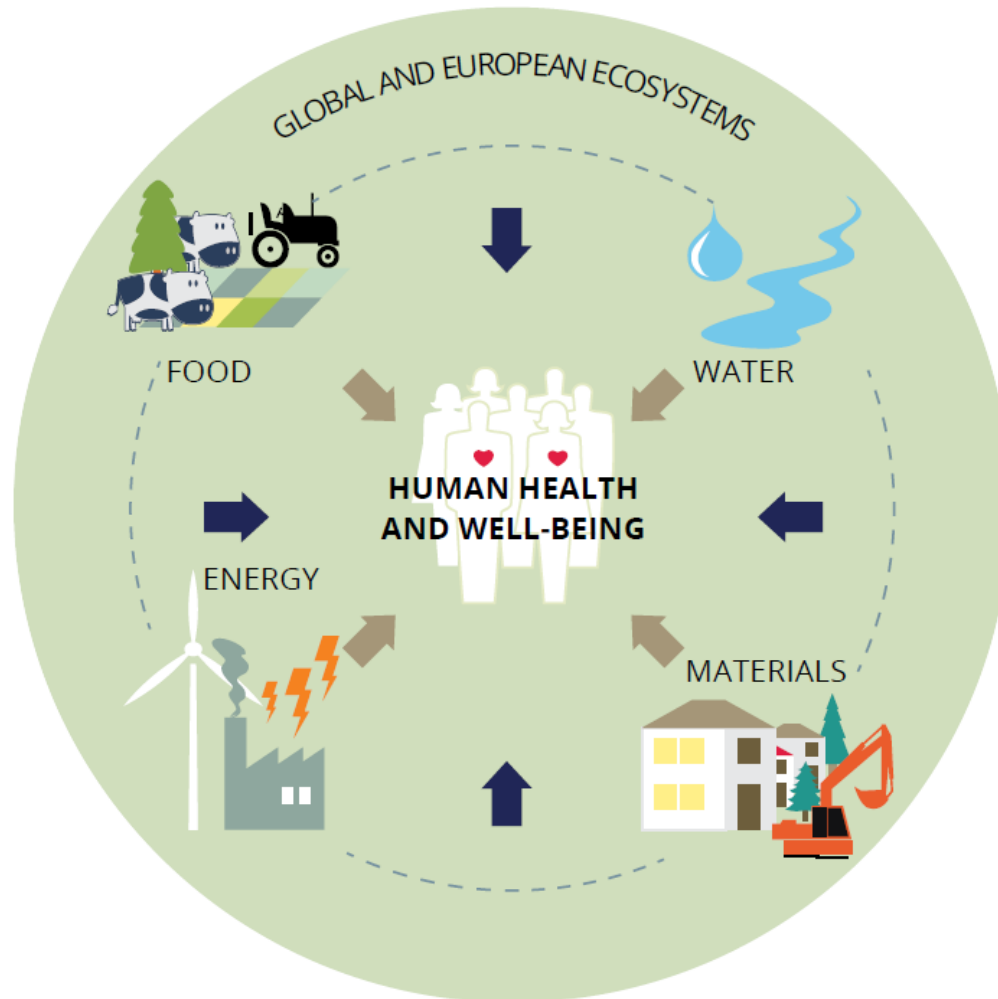
This will also have to address:

Positive environmental health impacts
Multiple exposure
Inequalities (spatial, socio-economical)
Uncertainty (precaution)

Resource nexus



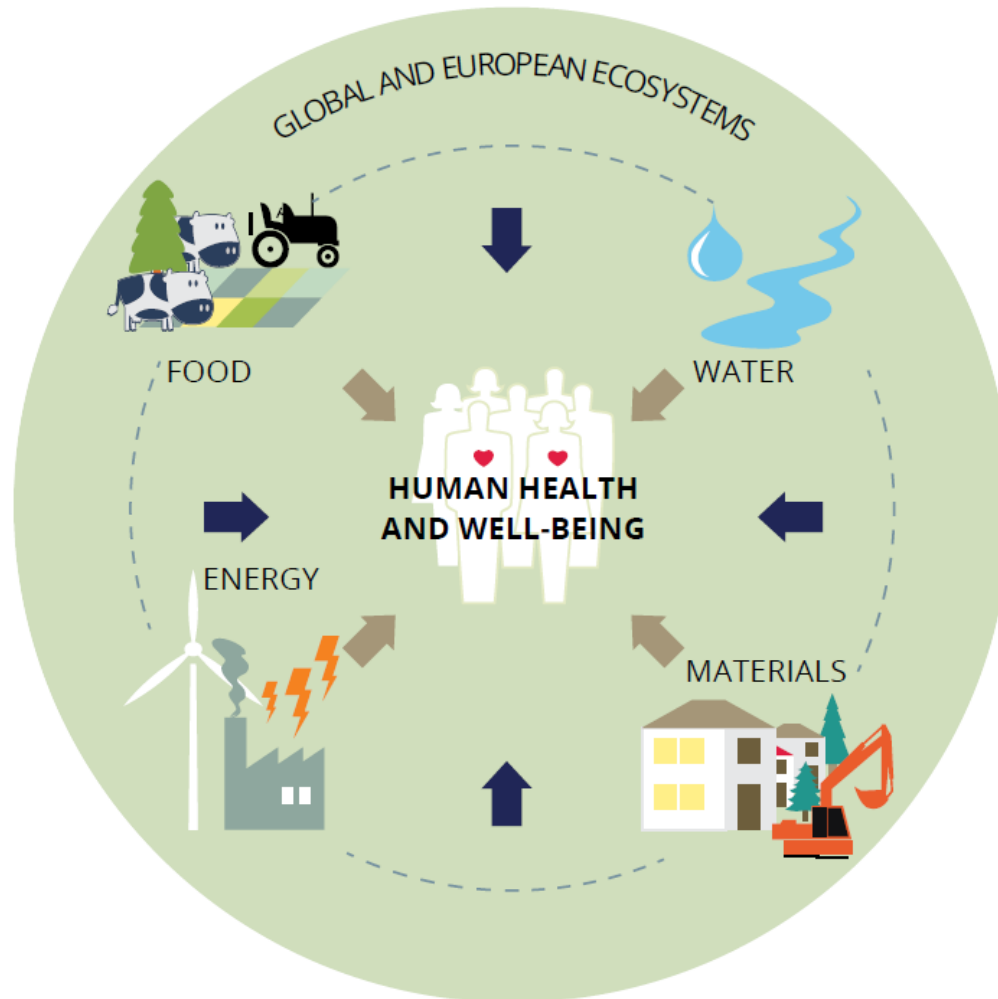
Resource nexus



- **Megatrends**

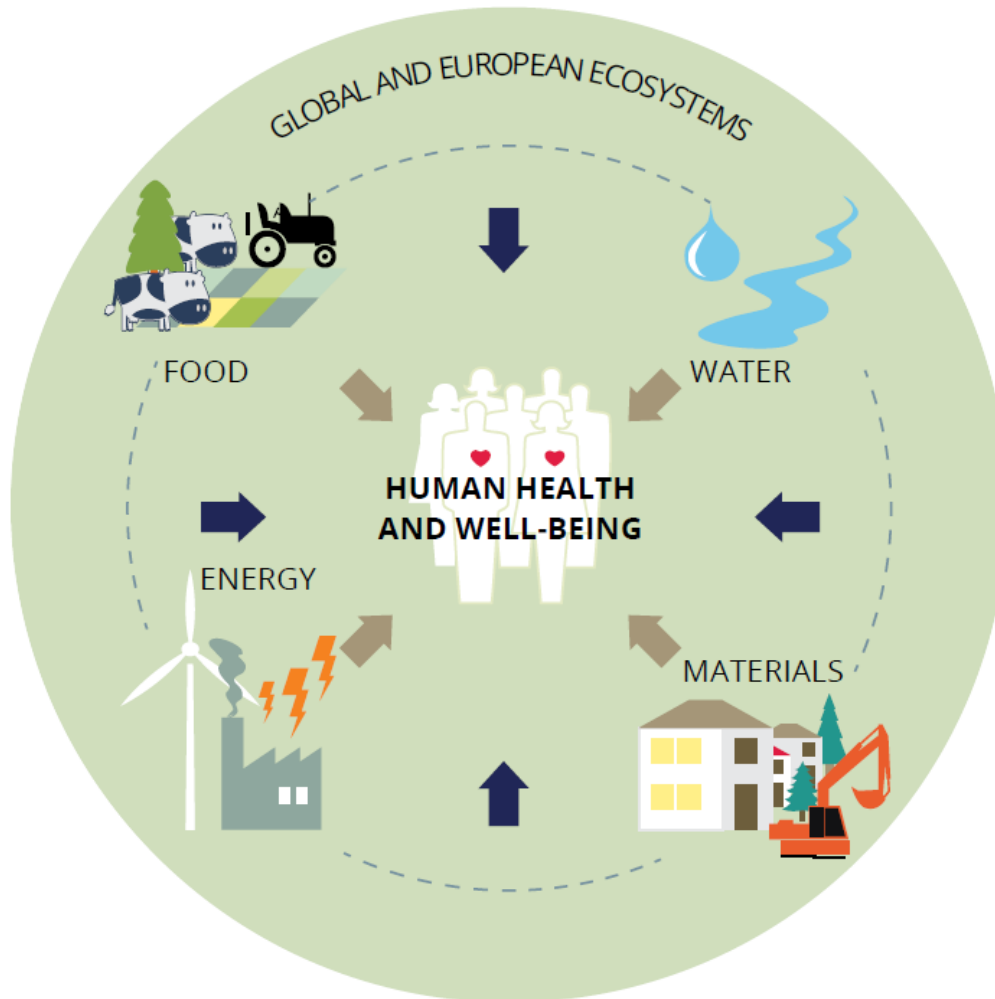
- Resource use
- Ageing
- Urbanisation
- Climate change
- Biodiversity loss

Resource nexus



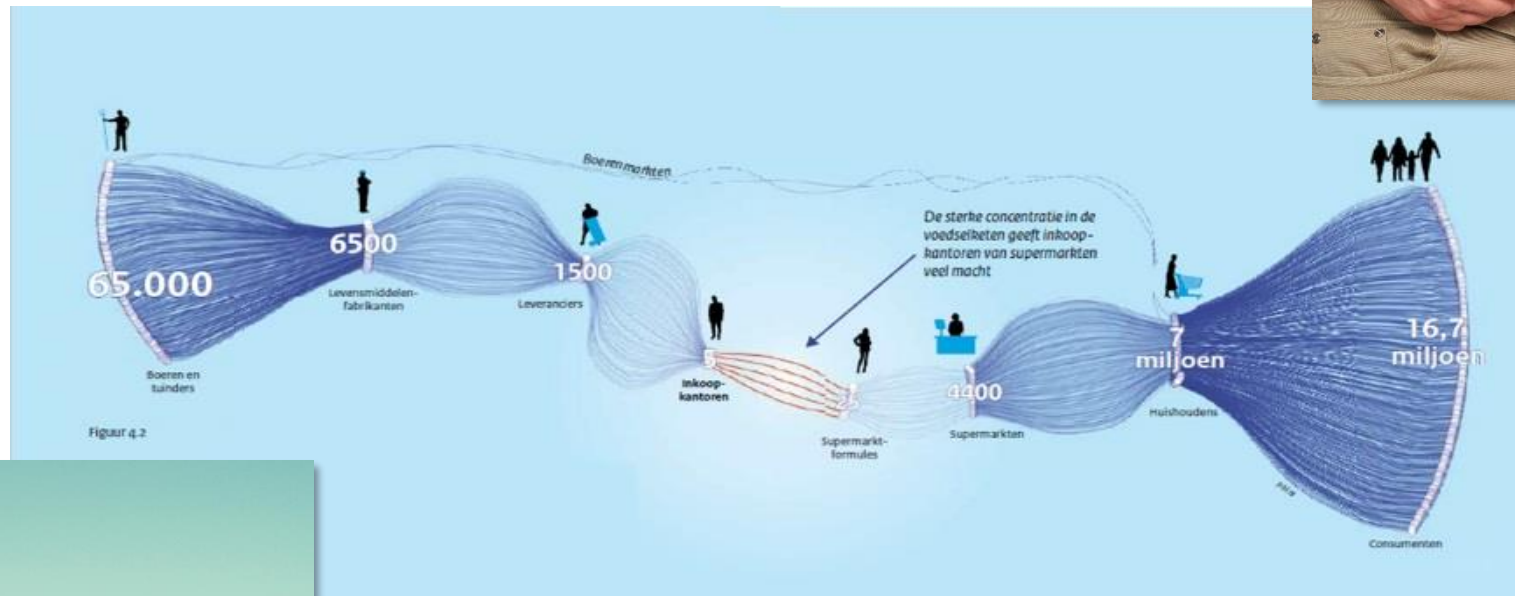
- Megatrends
 - Resource use
 - Ageing
 - Urbanisation
 - Climate change
 - Biodiversity loss
- **Environmental stressors**
 - Single stressors
 - Multiple exposure
 - Vulnerability
 - (Human) bio-monitoring

Resource nexus



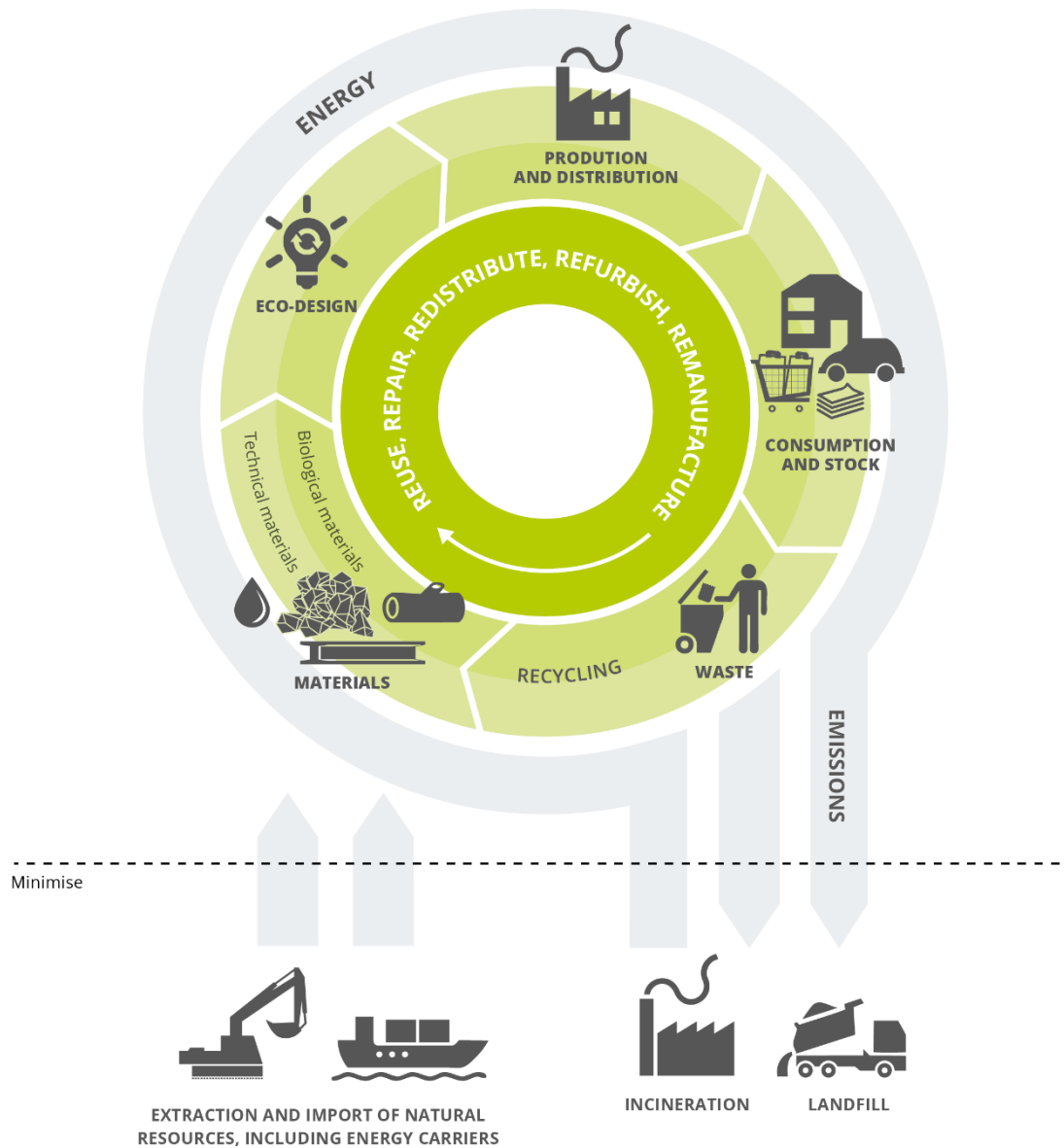
- **Megatrends**
 - Resource use
 - Ageing
 - Urbanisation
 - Climate change
 - Biodiversity loss
- **Environmental stressors**
 - Single stressors
 - Multiple exposure
 - Vulnerability
 - (Human) bio-monitoring
- **System analysis**
 - Food
 - Energy
 - Transport
 - Housing

Food system



Source: PBL, 2012

Circular economy



The evidence base - EEA contributions



Data

- IPCheM Information Platform on chemicals Monitoring
- HBM4EU European biomonitoring project

Assessments

- SOER2020
- Food system analysis 2017
- Environment & Health Report 2019