

PlanED Prescribing

Planetary Health Education in Prescribing

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Disclosure Statement

(Potential) conflicts of interest	None
Possibly relevant relationships with companies for the meeting	None
<ul style="list-style-type: none">• Sponsorship or research money• Honorarium or other (financial) compensation• Shareholder• Another relationship, namely...	Coördinator project PlanED Prescribing (2023-1-NL01-KA220-HED-000166537) with Erasmus+ funding



Planetary Health



Connection between changes in the global environment and our health
+ finding ways to protect our health from these global threats



Environmental crisis

World Health Organization:

Climate change is the greatest threat to (human) health

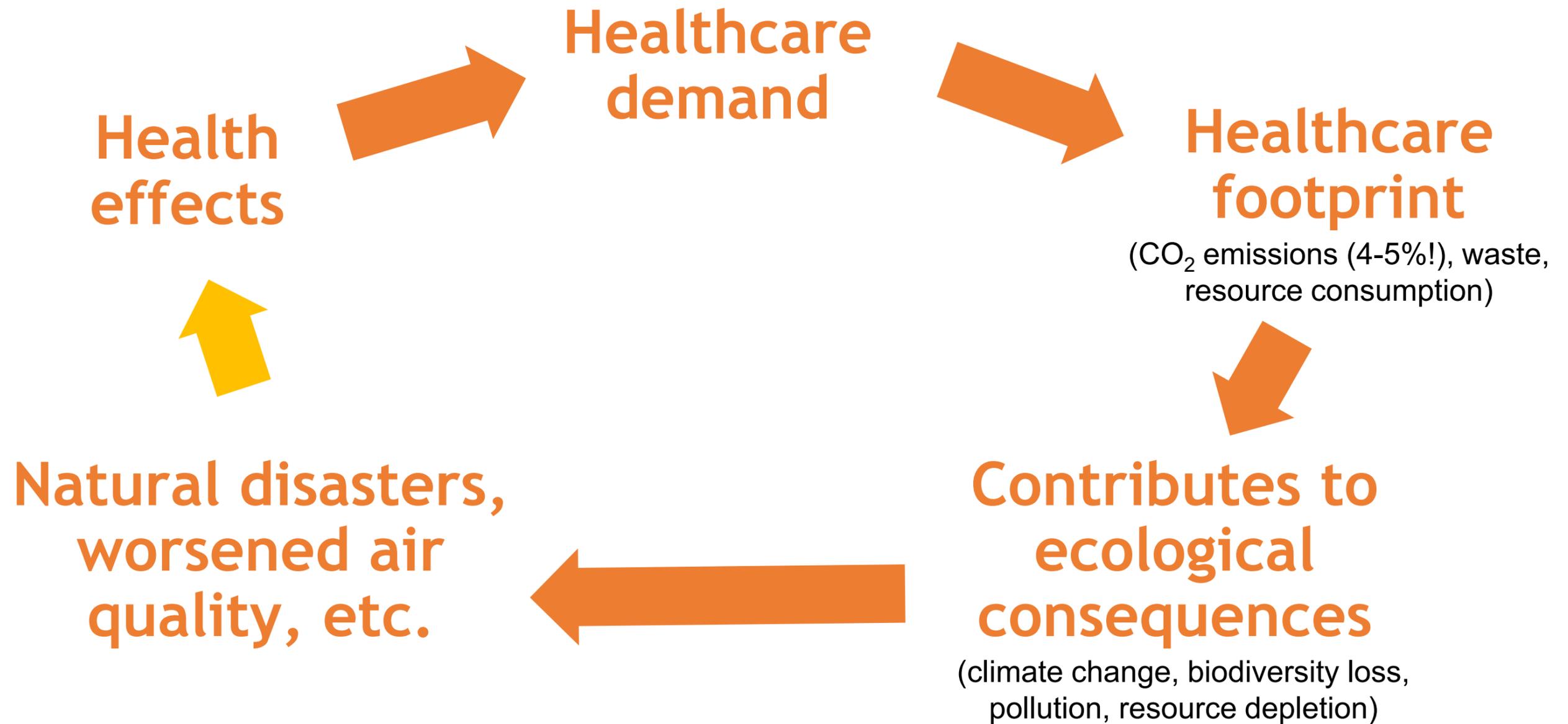
Threat to the essential ingredients of health

- Clean air
- Safe drinking water
- Food supply
- Safe shelter



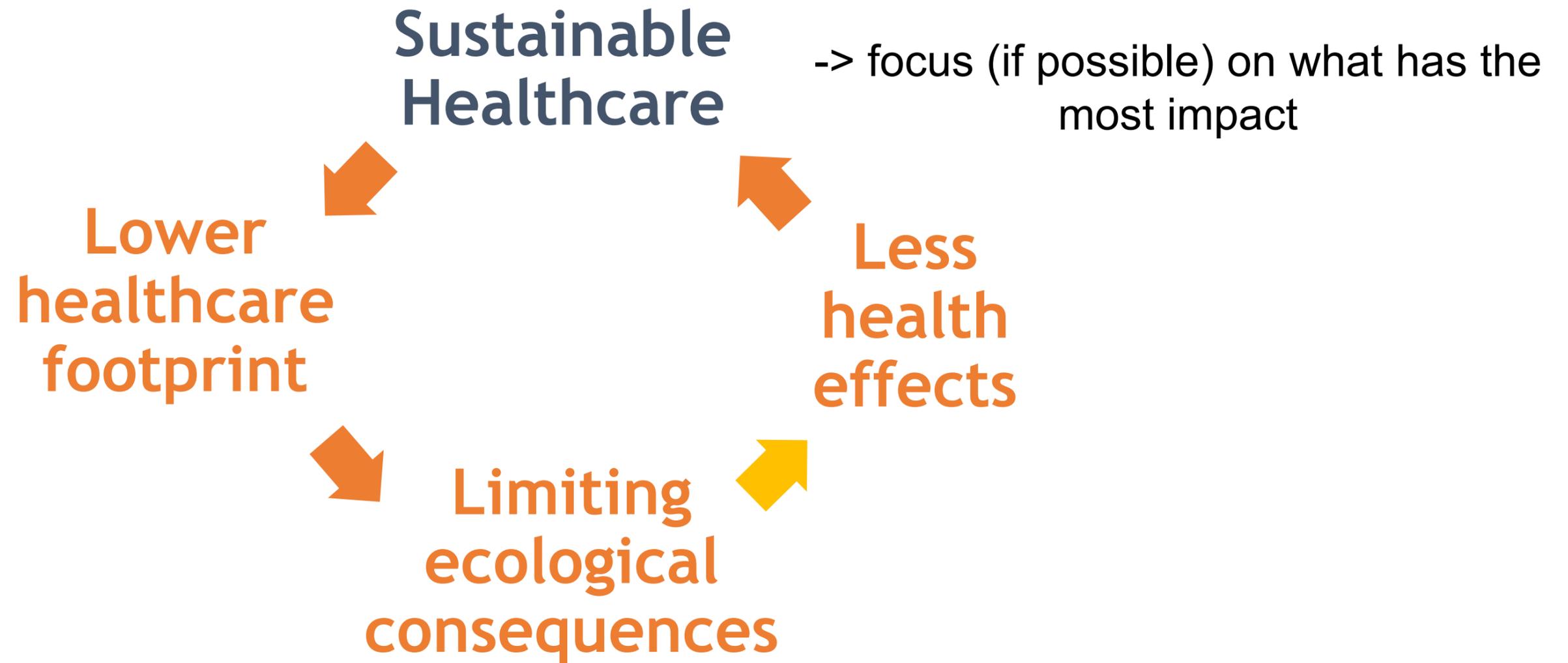


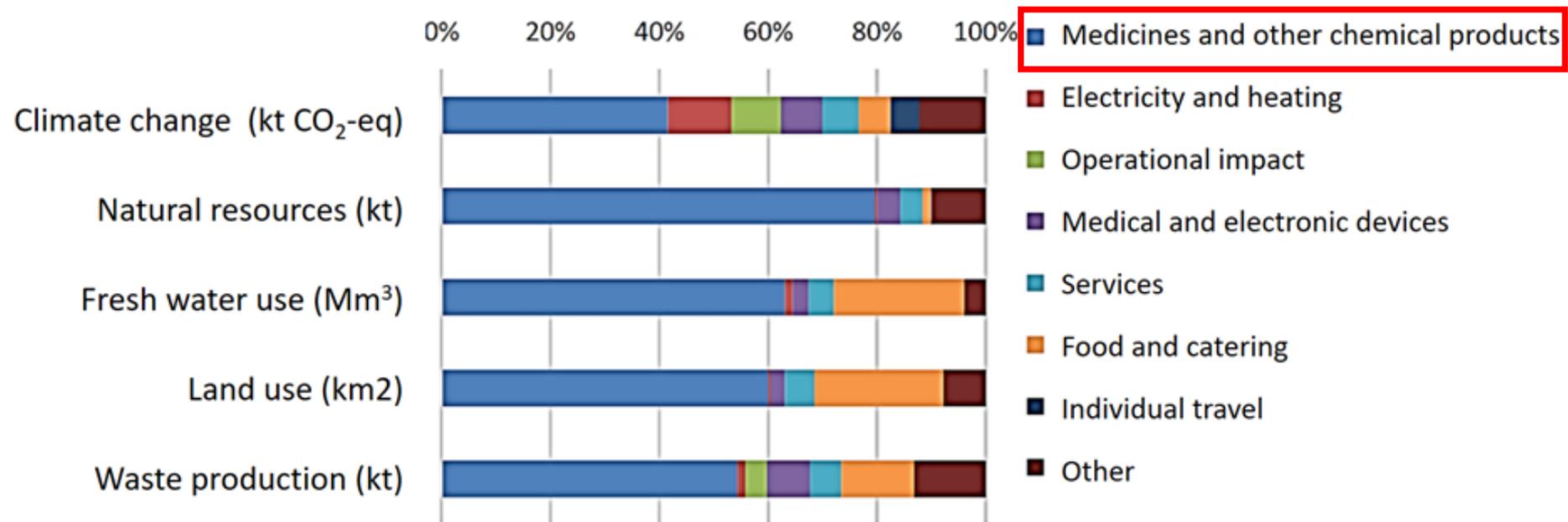
Health paradox





To reverse the paradox positively





M.A. Steenmeijer et al. (2023); Verduurzaming van de zorgsector - Het effect van de zorgsector op het milieu, Rijksinstituut voor Volksgezondheid en Milieu; Ministerie van Volksgezondheid, Welzijn en Sport; beschikbaar via: [De impact van de zorgsector op het milieu.pdf](#)

Productgroep	Klimaatimpact kton CO ₂ -eq.	Uitgaven mln euro
Geneesmiddelen	41	120
Energie	36	6
Implantaten	12	26
Mobiliteit	11	3
Disposables	11	31
Diagnostiek	10	41
ICT	7	17
Huisvesting	6	34
Medische apparatuur	5	34
Voeding	4	6
Afvalverwerking	0,7	1
Reusables	0,6	4
Kantoor	0,5	9
Textiel	0,4	3

Medisch Faciitaal

CE Delft (september 2018): Impactanalyse MVI UMC Utrecht





Medication in environment

- How many kilograms minimally end up in Dutch surface water annually?
 - At least 190.000 kg (38  !)
 - Globally (258 rivers; 104 countries) > 25% of samples with risks
- Impact on plants and animals in the water



Planetary Health and prescribing

- How can the environmental impact of medication be reduced?
- General advice
- Including sustainability in argumentation for therapy choices
In addition to effectiveness, safety, costs, etc.



General advice

- No unnecessary medication
- Reduce waste
- Reduce environmental effects

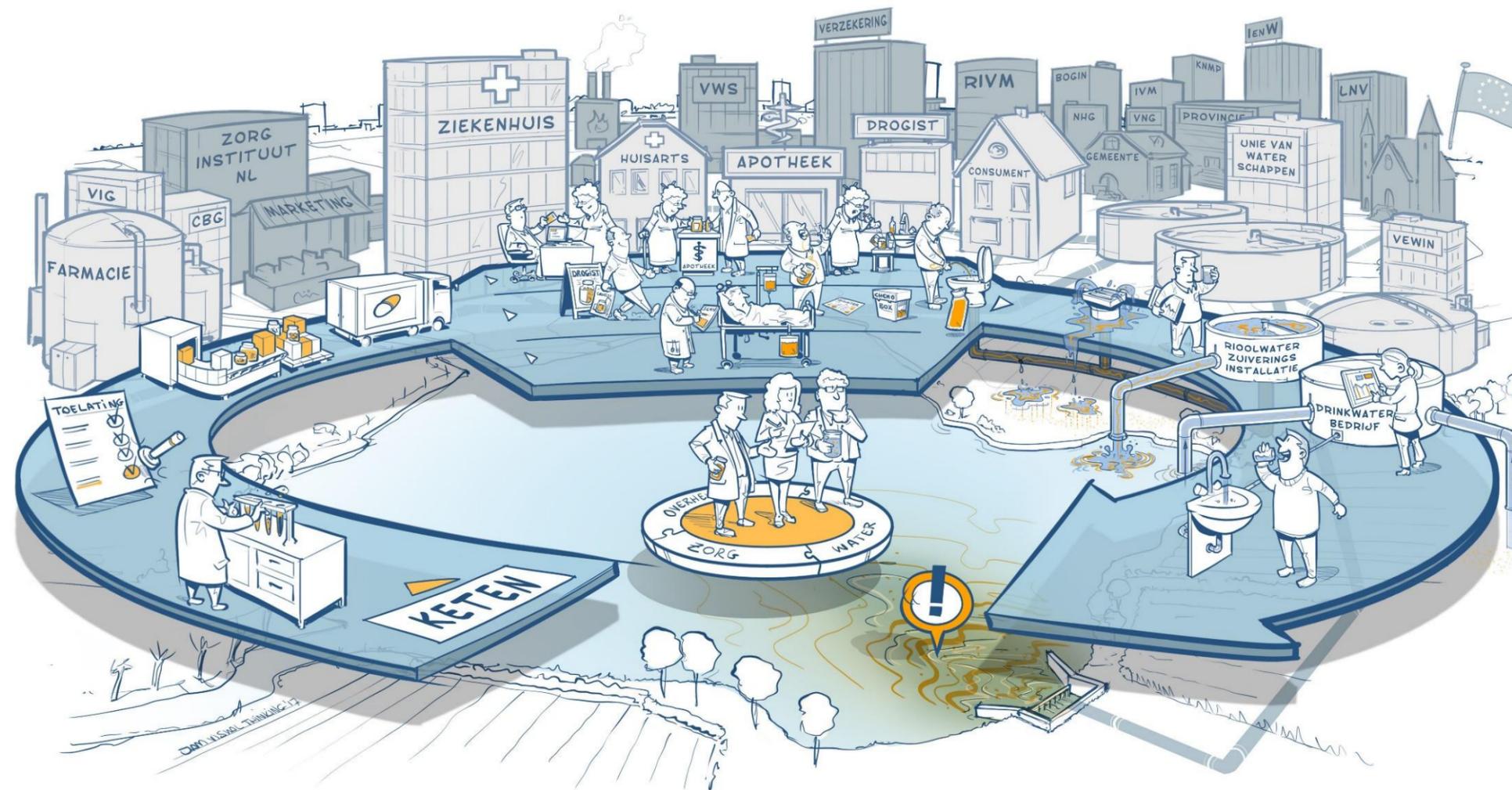


Planetary Health and prescribing

- How can the environmental impact of medication be reduced?
- General advice
- Including sustainability in argumentation for therapy choices
In addition to effectiveness, safety, costs, etc.



Total environmental impact of medicines



Medicijnresten uit water. (2020, 26 oktober). Jam Visual Thinking.

www.jamvisualthinking.com





Essential steps for implementation in practice

- **Consensus Building:** Essential criteria of total impact
- **Information Assessment:** Evaluate existing data and ensure missing information becomes accessible
- **Resource Compilation:** Compile available information to create educational resources





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PlanED Prescribing

- Taking essential steps for adequate integration of Planetary Health into pharmacotherapy education
- Creating new methods, materials and approaches to integrate this into education





Partners and associate partners

- Amsterdam University Medical Center
- Dutch National Institute for Public Health and the Environment (RIVM)
- Inholland University of Applied Sciences
- Maastricht University
- Radboud University Medical Center
- Transilvania University of Braşov
- University Medical Center Groningen
- University of Bologna
- University of Lisbon
- University of Zagreb
- WHO Europe
- University of Oxford
- University Hospital of Limoges
- Dutch Society for Clinical Pharmacology
- EACPT
- ESMO - Climate Change Task Force
- NFU - working group Green Deal Sustainable Healthcare 3.0 'Medication'
- CO2-assistant
- RECIPE
- Northwest Academy Alkmaar



Essential steps for implementation in practice

- **Fundament Building:** Essential criteria of total impact
- **Information Assessment:** Evaluate existing data and ensure missing information becomes accessible
- **Resource Compilation:** Create educational resources and ‘Teach Teachers’





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From the PlanED Prescribing Consortium
May 30, 2024

To the European Commission

CC: European Medicines Agency

Recommendations to improve environmental sustainability in EU pharmaceutical legislation

Dear European Commission,

I am writing on behalf of the Consortium of the Erasmus+ project 'Planetary Health Education in Prescribing' (PlanED Prescribing; a collaboration between eight European medical schools and the Dutch National Institute for Public Health and the Environment (RIVM), with advisory support from, among others, the European Association for Clinical Pharmacology and Therapeutics) to express our concern about the way in which environmental sustainability is included in the ongoing reform of the EU pharmaceutical legislation.



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Take home

- Medicines have a significant impact on the environment
- Prescribers can reduce this impact
- PlanED Prescribing takes essential steps to equip prescribers with the knowledge and tools to consider planetary health in prescribing choices





Questions or ideas?



PlanED Prescribing

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https://www.prescribingeducation.eu/planed_prescribing/

