Promote Research on Transformational Change

Transformational change to address global and environmental change and health issues – the overarching dimension
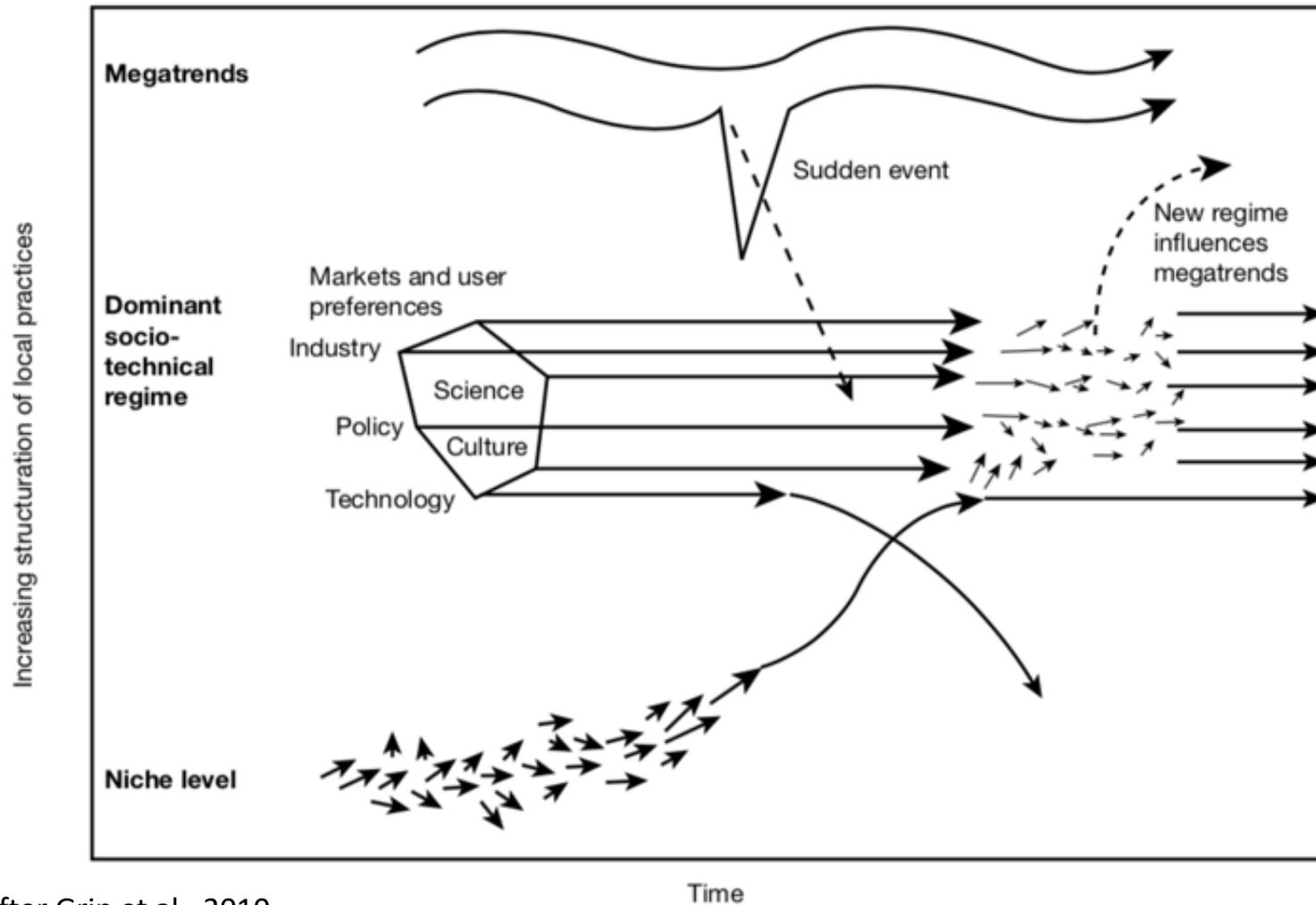
Dr Franziska Matthies-Wiesler, Helmholtz Zentrum München
Lukáš Pokorný, RECETOX, Masaryk University, Brno

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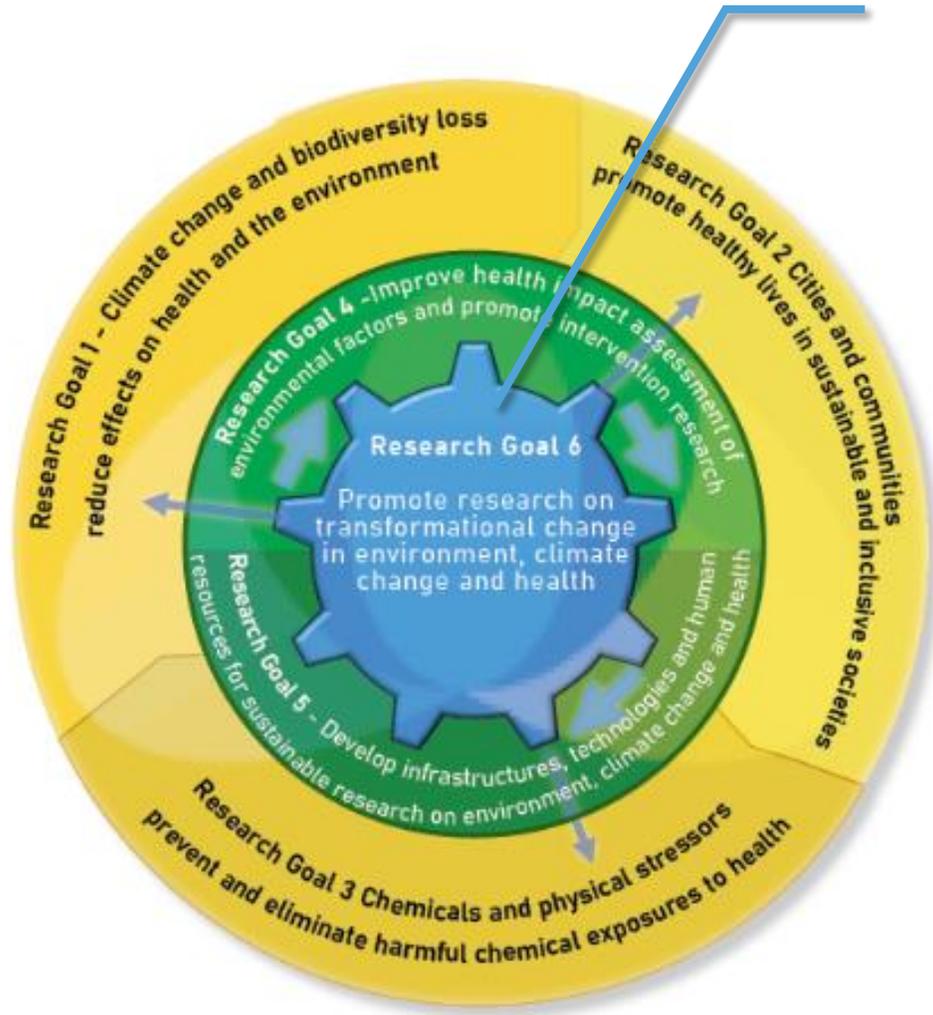
FRANCE22
FRENCH PRESIDENCY
OF THE COUNCIL OF THE
EUROPEAN UNION

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Transformational change

Mulit-level model – example substitution of an established technology with a new one

Source: after Grin et al., 2010

RG 6. Promote research on transformational change in environment, climate change and health

➤ **RG6.1** Preparedness to prevent and combat future environment and health threats/challenges

➤ **RG6.2** Transformational change

➤ **RG6.3** Socioeconomic factors and the environment, environmental injustice, equity, sustainable economic growth

➤ **RG6.4** Ethical, philosophical and political aspects

➤ **RG6.5** Science communication and science–policy-society dialogue

➤ **RG6.6** Transformational change in education, training and research

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Transformational change for health

motortipps.ch

Environmental health inequalities

WHO Regional Office for Europe

social cooperation

People matters

communication

digital transformation

future generations

Concrete transformational change

- ✓ *Epidemiological intelligence for preparedness, response and resilience*

- ✓ *How to achieve healthier and sustainable societies: drivers and barriers of transformational change, including behavioural change and cultural shifts*

- ✓ *Develop research models on the responsibility towards future generations - reviewing the relationship between humankind and nature*

- ✓ *Improving risk communication effectiveness by applying societal values*

- ✓ *Transformational change in the research and education sector: multidisciplinary, flexible and open research designs*

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The EU Green Deal
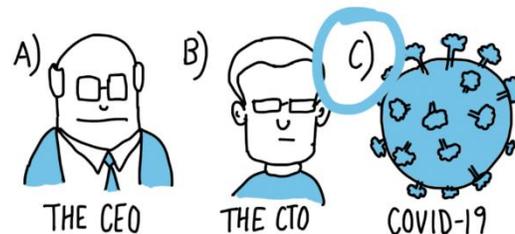
- A number of policy initiatives that are relevant for environment, climate & health and related research

- Transformational change is required for implementation

HERA Research Agenda for the environment, climate & health, 2021-2030 (2022)

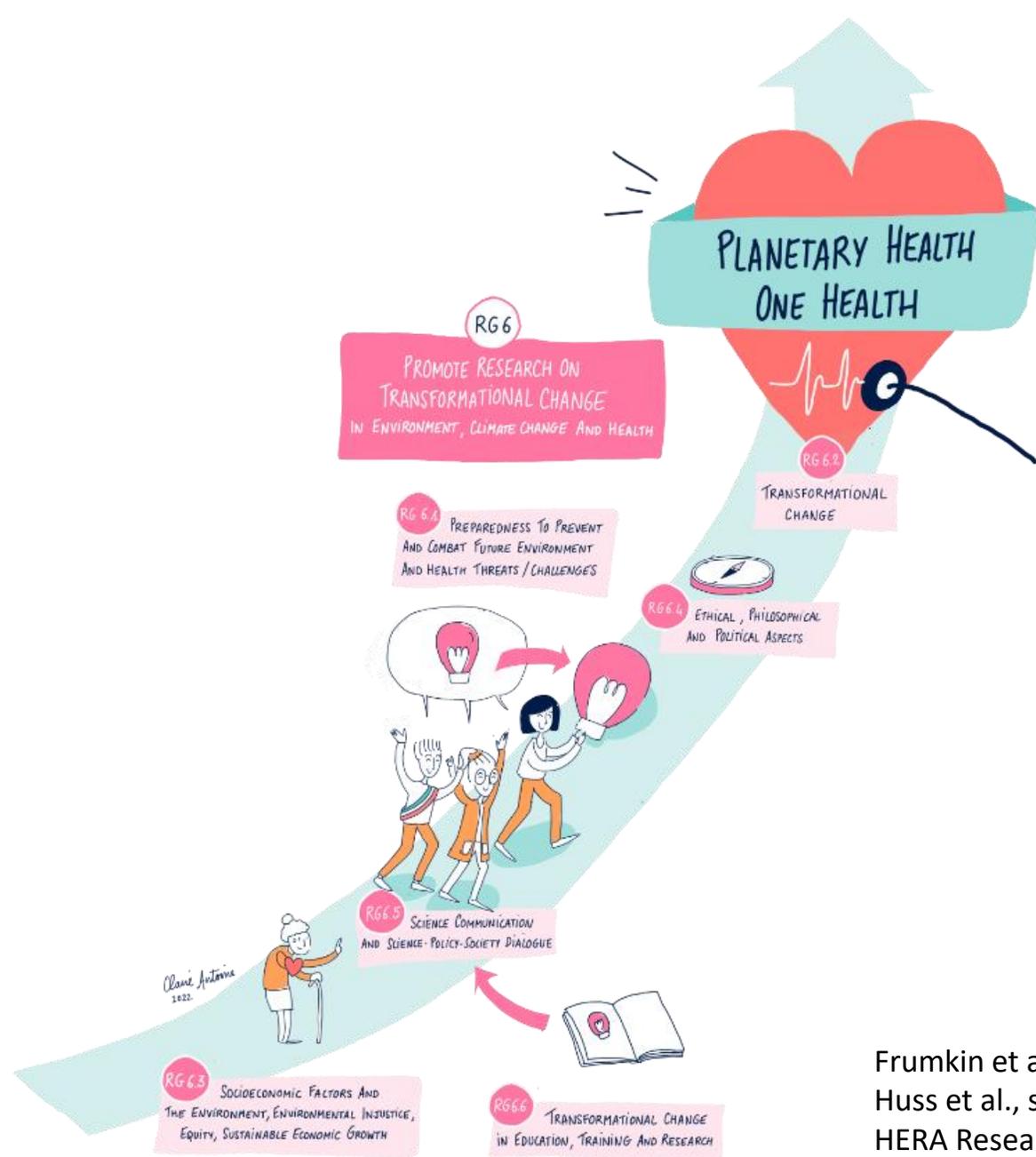# The UN Sustainable Development Goals

➤ holistic transformation would enable the **simultaneous achievement of multiple societal goals**

➤ including those related to food, water, energy, health and well-being, as well as mitigation and adaptation to climate change and the conservation and sustainable use of nature.

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- Develop holistic approaches

- Strengthen transdisciplinary and cross-sectoral research & collaboration

- Apply innovative and participatory research designs and decision making processes

- Work towards solutions that consider socio-economic and social-ecological aspects; focus on the vulnerable population groups

- Improve the science-policy-society dialogue and focus on creative science communication to the public

- Use transformational change approaches in research, education and capacity building

Frumkin et al., 2015
Huss et al., submitted
HERA Research Agenda for the environment, climate & health, 2021-2030 (2022)

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Questions to the audience

Please open menti.com and enter the code: **71326700**

We have prepared two questions for you:

- ❯ Have you ever experienced and/or triggered transformational change in your professional context?

5LINX

- ❯ Which topics would you like to see prioritized in transformational change research?

RG 2
CITIES AND COMMUNITIES
PROMOTE HEALTHY LIVES IN SUSTAINABLE AND INCLUSIVE SOCIETIES

RG 1
CLIMATE CHANGE AND BIODIVERSITY LOSS
REDUCE EFFECTS ON HEALTH AND THE ENVIRONMENT

PLANETARY HEALTH
ONE HEALTH

RG 6
PROMOTE RESEARCH ON TRANSFORMATIONAL CHANGE
IN ENVIRONMENT, CLIMATE CHANGE AND HEALTH

RG 2.5 Digitalisation, Changed Mobility Patterns And Effects On Environment And Health

RG 2.4 Changing Work And Employment Conditions

remote work
E-commerce
Urban Area
working time
Suburban Area
Rural Area

RG 2.1 Healthy Urban Environments
interrelations between environmental exposures, urban features and health

light
heat island
noise
air pollution

RG 2.3 Noise In Living Environments

RG 2.2 Air Pollutants In Indoor And Outdoor Environments

RG 2.6 Waste And Contaminated Sites
Circular Economy
waste

RG 1.1 Health And Climate Change

RG 1.2 Health Impacts Of Climate Mitigation And Adaptation Measure
risks
co-benefits
co-benefits
risks

RG 1.3 Health And Biodiversity Loss

RG 1.6 Global Pollution

RG 1.4 Biological Agents, Environment And Human Health

RG 1.5 Food, Ecosystem Services And Farming

RG 6.2 Transformational Change

RG 6.1 Preparedness To Prevent And Combat Future Environment And Health Threats / Challenges

RG 6.4 Ethical, Philosophical And Political Aspects

RG 4
IMPROVE HEALTH IMPACT ASSESSMENT
OF ENVIRONMENTAL FACTORS AND PROMOTE IMPLEMENTATION RESEARCH

RG 3.2 Health Effects Of Anthropogenic Chemicals

marine water quality

RG 3.3 Radiation
ionising and non ionising

fresh water quality

RG 3.4 Water Contamination

Technologies for water treatment

RG 6.5 Science Communication And Science - Policy - Society Dialogue

RG 3.1 Exposure To Chemicals Including Legacy Chemicals, Emerging Chemicals And Mixtures

Chemosphere
metals
plastics (micro, nano)
polymers
organic chemicals

RG 3.5 Food And Soil Contamination

RG 6.3 Socioeconomic Factors And The Environment, Environmental Injustice, Equity, Sustainable Economic Growth

RG 6.6 Transformational Change in Education, Training And Research

RG 5
DEVELOP INFRASTRUCTURES, TECHNOLOGIES AND HUMAN RESSOURCES
FOR SUSTAINABLE RESEARCH ON ENVIRONMENT, CLIMATE CHANGE AND HEALTH

RG 3
CHEMICAL AND PHYSICAL STRESSORS
PREVENT AND ELIMINATE HARMFUL EXPOSURES TO HEALTH

Claire Antoine 2022

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