

EU Research Agenda for the Environment, Climate & Health

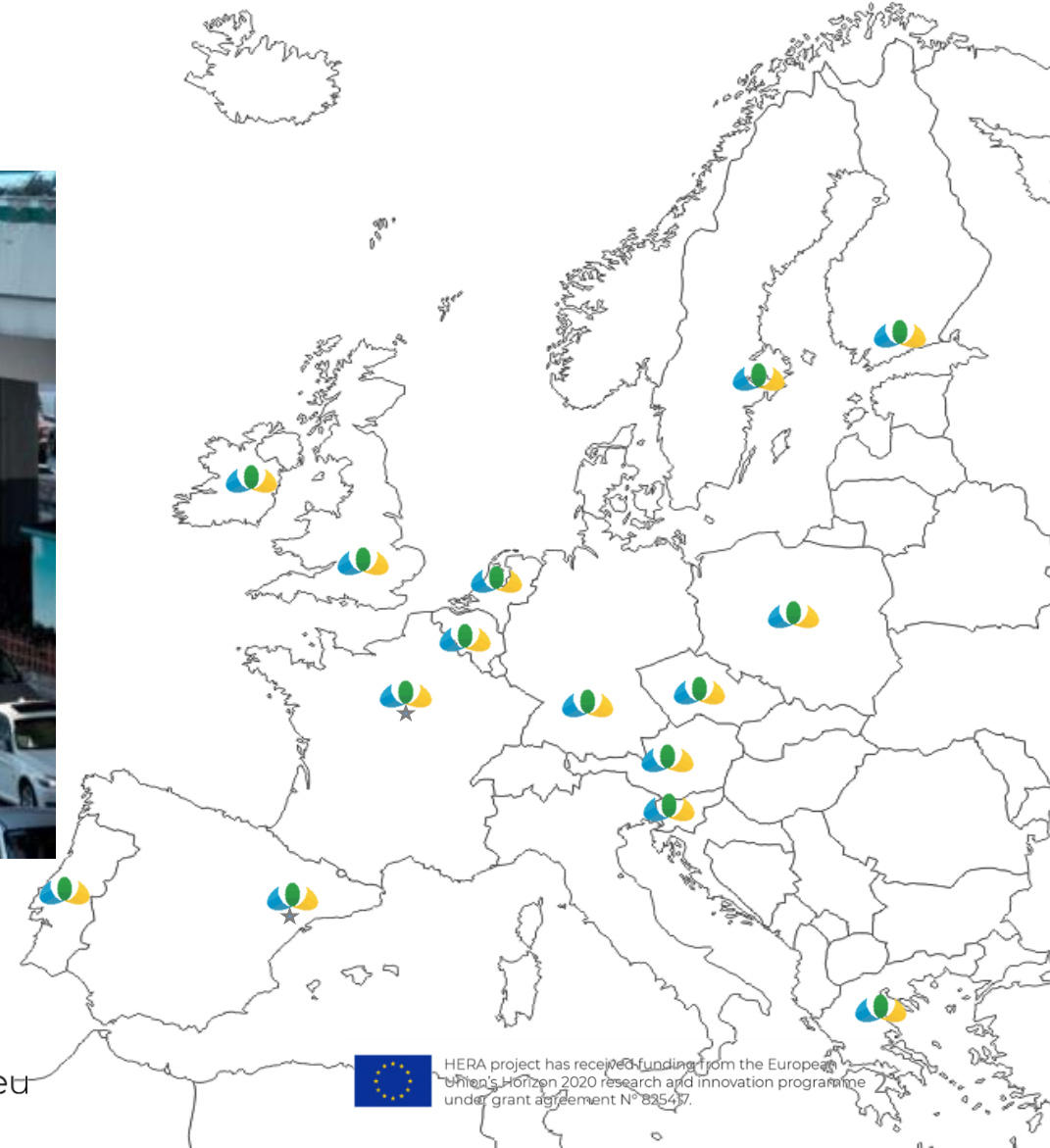
Cities and Communities: Promote healthy lives in sustainable and inclusive societies

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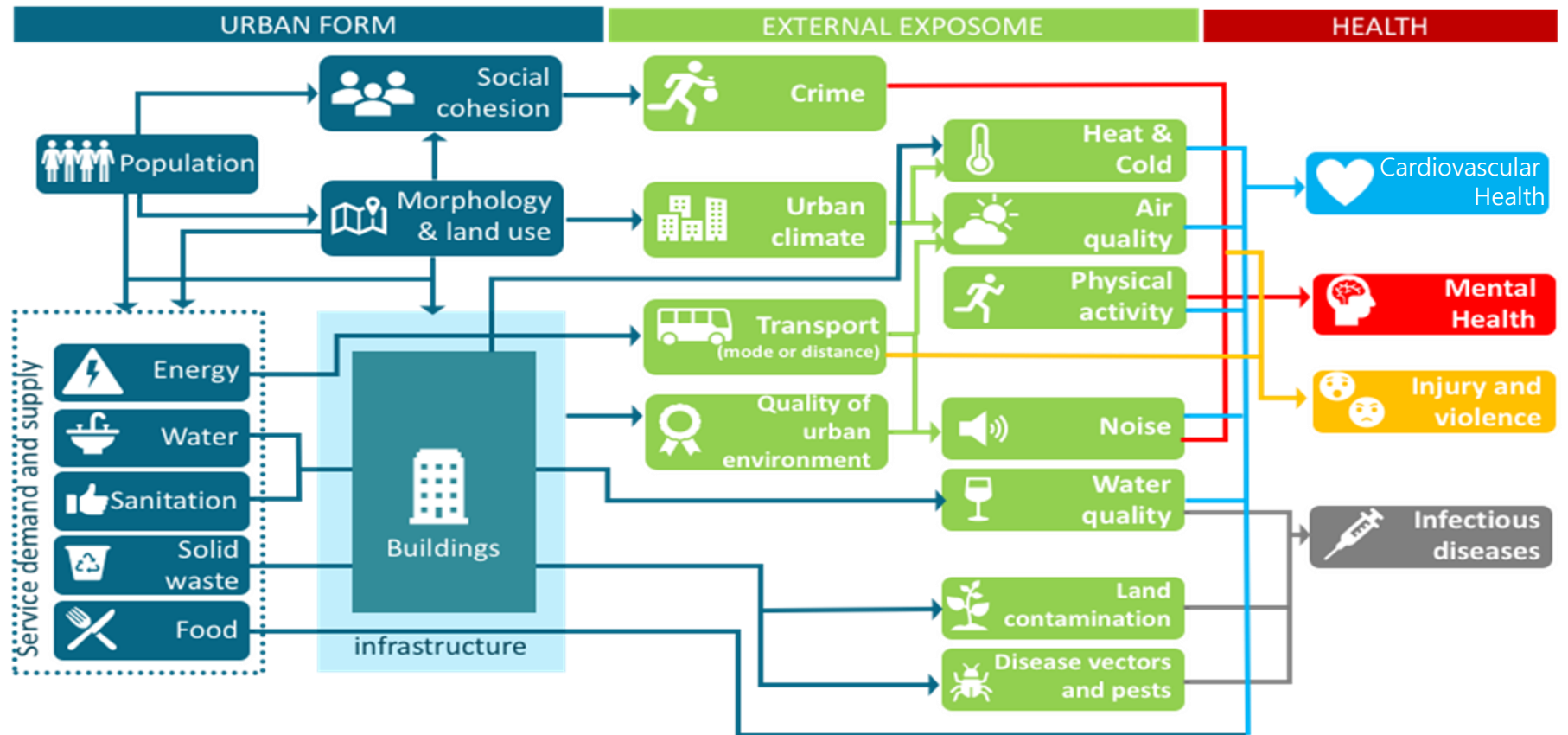
HERA CONSORTIUM

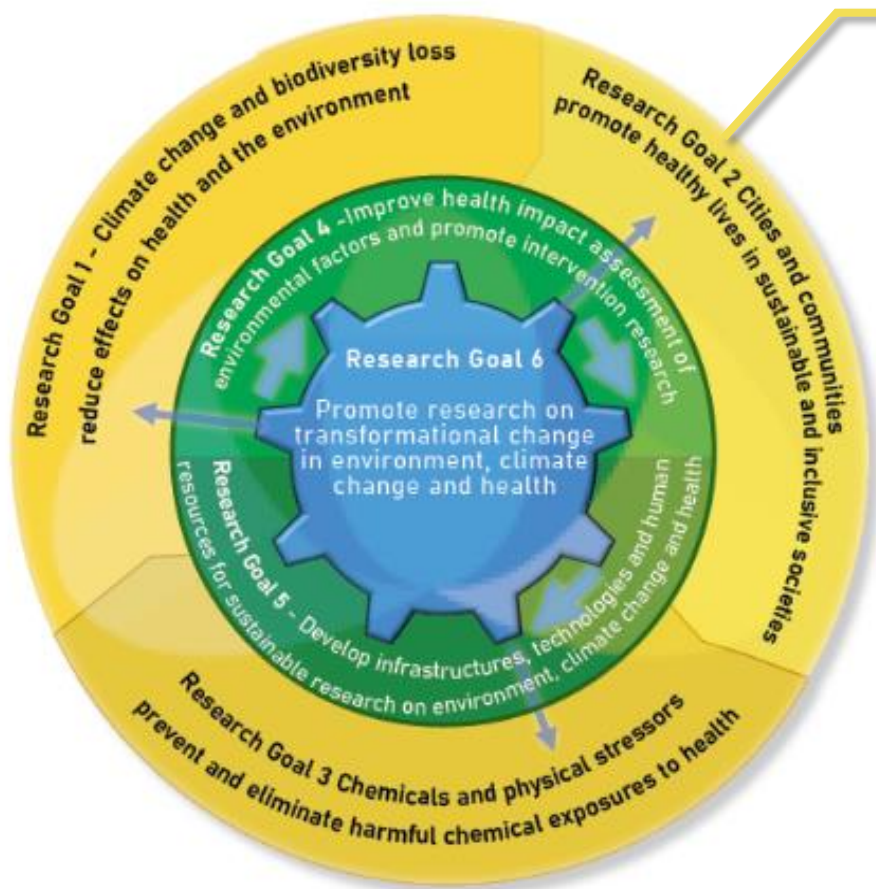
 HERA project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 825417.

Healthy Cities for all: including young and aged citizens



Urban form, urban exposure and health



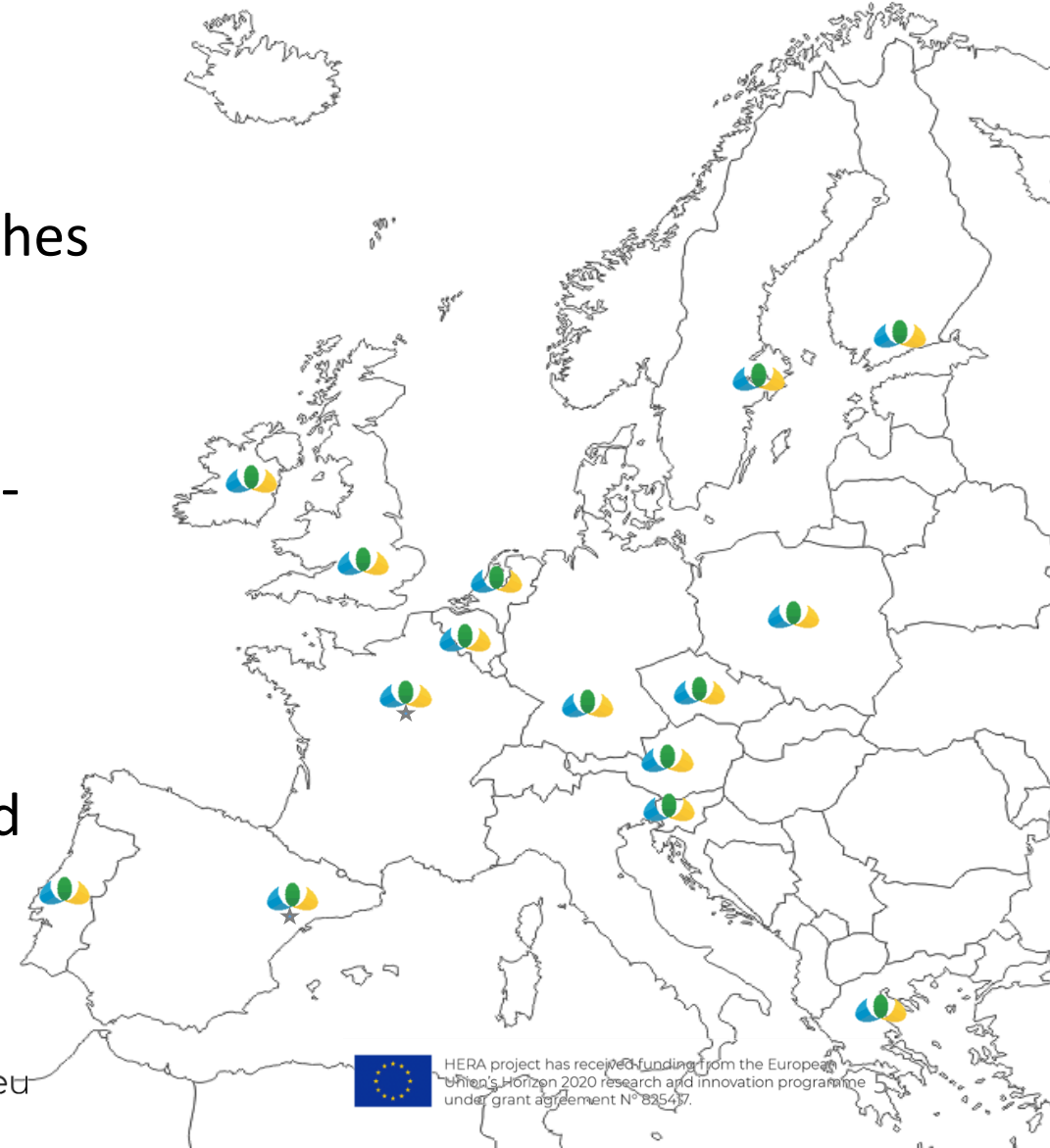


RG 2. Cities and communities - promote healthy lives in sustainable and inclusive societies

- **RG2.1** Healthy Urban Environments
- **RG2.2** Air pollutants in indoor and outdoor environments
- **RG2.3** Noise in living environments
- **RG2.4** Changing work and employment conditions
- **RG 2.5** Digitalisation, changed mobility patterns and effects on environment and health
- **RG2.6** Waste and contaminated sites

Healthy Urban Environments

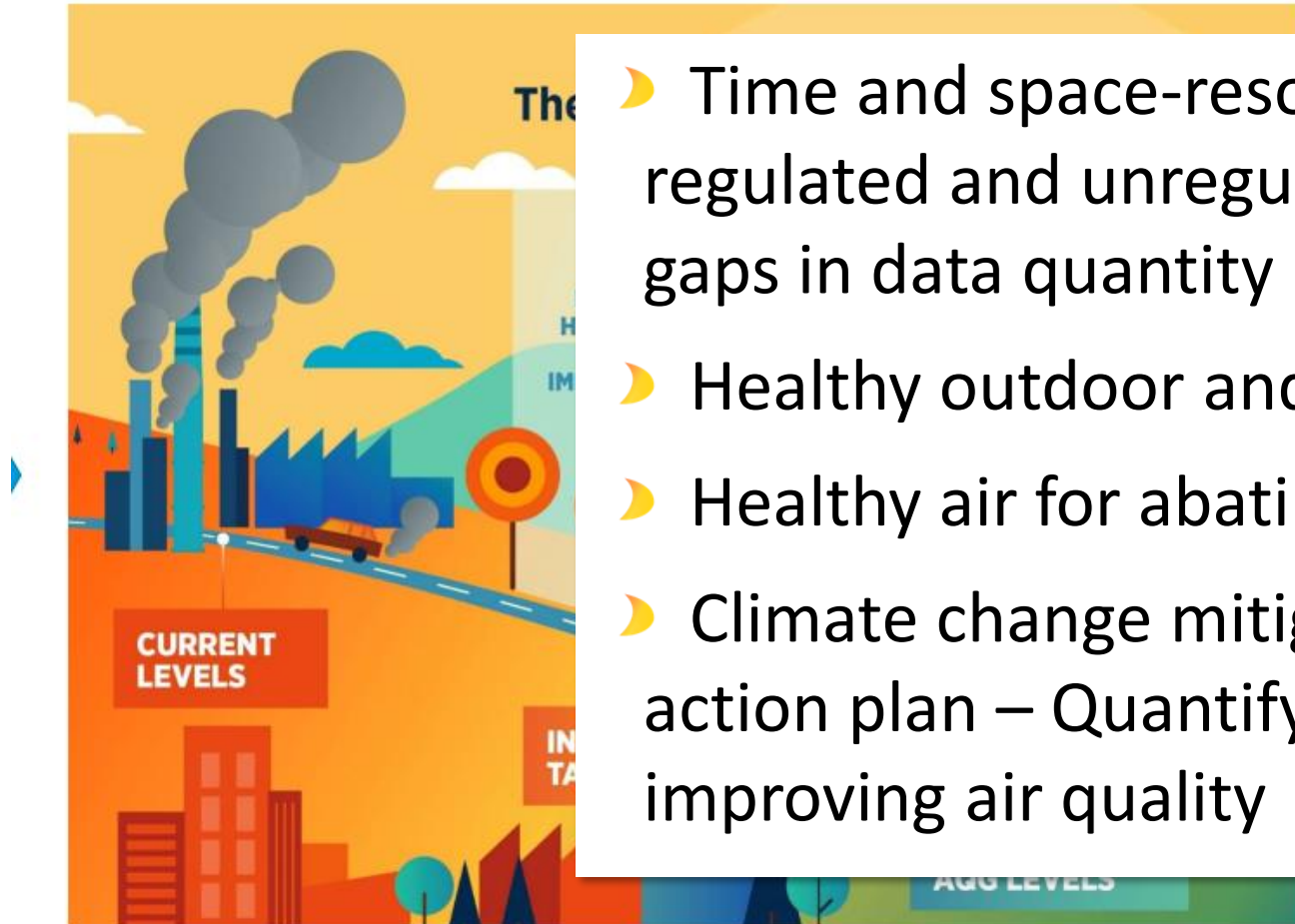
- ▶ Evaluate the effectiveness of knowledge translation of innovative methods and approaches to reduce harmful exposures in urban environments
- ▶ Promote healthy living in the urban-suburban-rural continuum
- ▶ Development of new exposome tools and methods to estimate in complex urban environments the exposures, health effects and health impact tools for decision making



New neighbourhood Utrecht, NL -> Ambition 5-yr living in good health

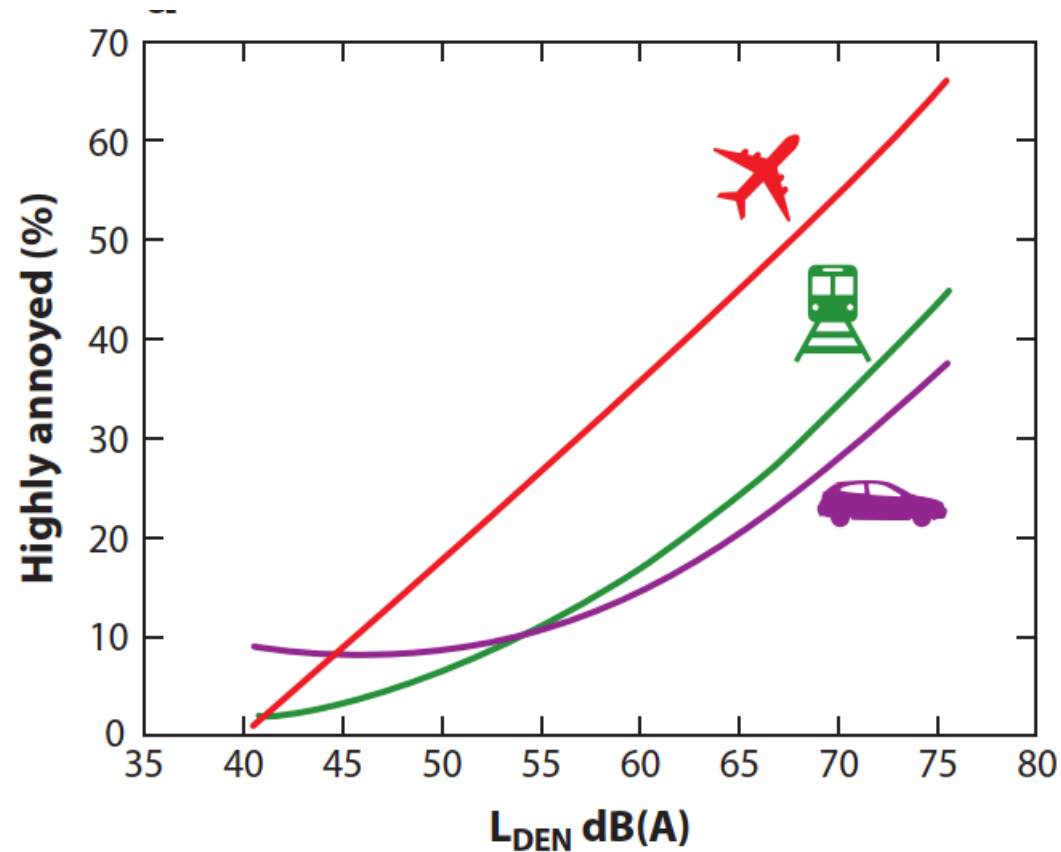


Research to promote the new WHO Air Quality Guidelines



- ▶ Time and space-resolved assessments of both regulated and unregulated air contaminants to fill gaps in data quantity and quality
- ▶ Healthy outdoor and indoor air for children
- ▶ Healthy air for abating ageing-related diseases
- ▶ Climate change mitigation and zero air pollution action plan – Quantifying the co-benefits of improving air quality

Research to mitigate the health impacts of noise

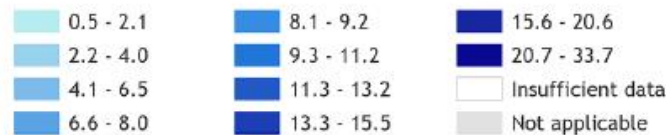


- ▶ Advancing noise exposure assessment for health research
- ▶ Health effects of environmental noise
- ▶ Biological mechanisms of noise related health effects

Changing work and employment conditions

- ▶ Climate change, key enabling technologies, the Green Deal and occupational health
- ▶ Changing and ageing workforce
- ▶ Working time and changing employment patterns
- ▶ Monitoring, electronic health records, and surveillance in occupational health

Proportion (%) of population exposed to long working hours (≥ 55 hours/week), 2016, 194 countries (*Pega et al EnvInt 2021*)

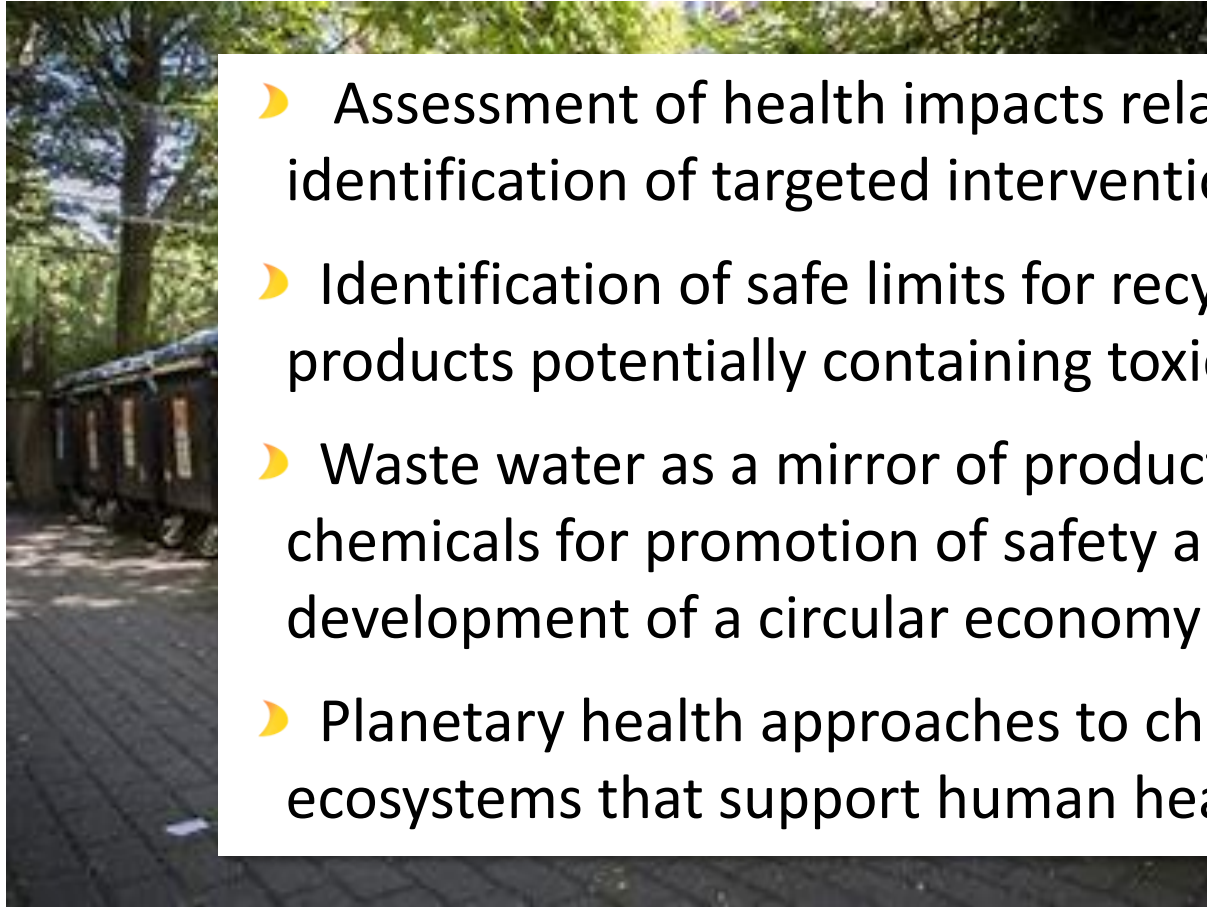


Digitalisation and changing mobility patterns

- ▶ Health consequences related to the transformational change of work-life digitalisation
- ▶ Environmental consequences of working at home and e-commerce



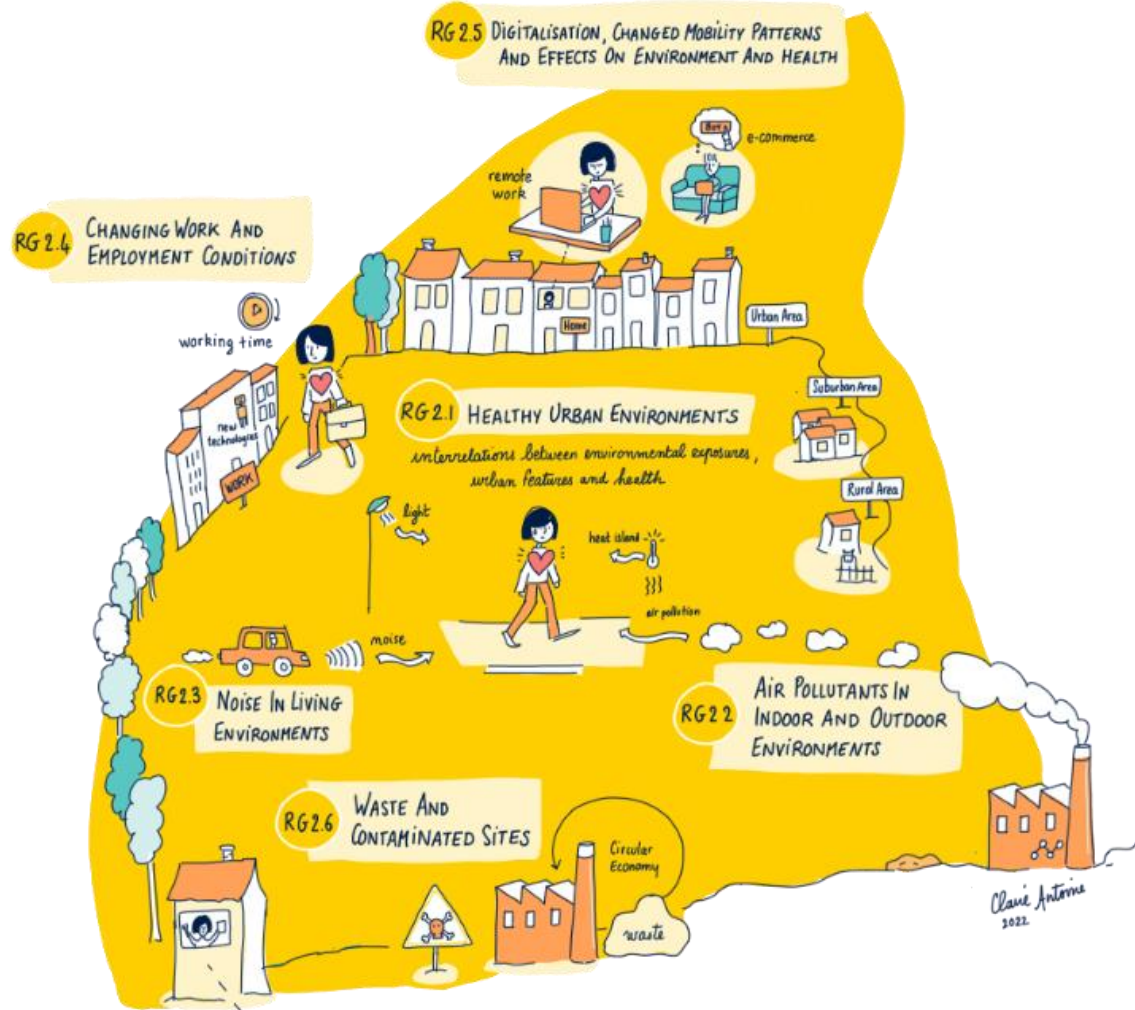
Waste and contaminated sites



- ▶ Assessment of health impacts related to contaminated sites and identification of targeted interventions and recovery
- ▶ Identification of safe limits for recycling and safe reuse of products potentially containing toxic chemicals
- ▶ Waste water as a mirror of production and consumption of chemicals for promotion of safety and sustainability by design and development of a circular economy
- ▶ Planetary health approaches to chemical risks with a focus on ecosystems that support human health

RG 2

CITIES AND COMMUNITIES PROMOTE HEALTHY LIVES IN SUSTAINABLE AND INCLUSIVE SOCIETIES



Quiz

- ▶ Go to www.menti.com and use the code 35 14 39 4

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