Environment and health work in the WHO European Region

Matthias Braubach
WHO European Centre for Environment and Health
WHO Regional Office for Europe











Content

- The WHO work on environment and health priorities in Europe
- Biodiversity and health go together
- WHO/Euro focus
 - urban green spaces
 - climate change









THE WHO WORK ON ENVIRONMENT AND HEALTH – PRIORITIES IN EUROPE









Health 2020: addressing European challenges

Lifestyle, social, economic and environmental determinants of health

Health equity

Good governance











WHO European Centre for Environment and Health: Implementing Health2020 and the SDGs







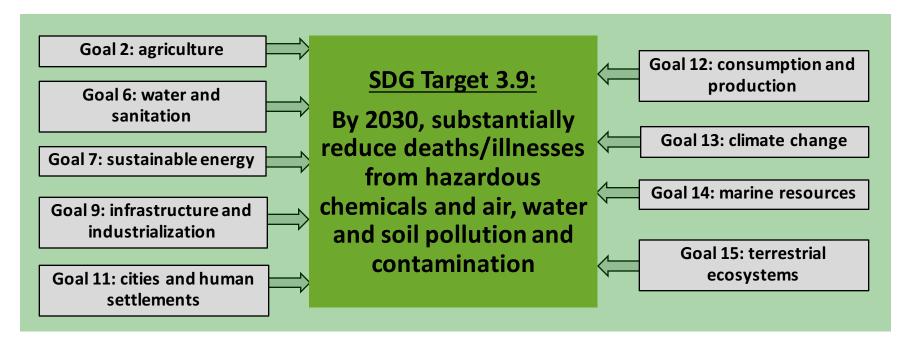








SDG target 3.9 on health improvement by environmental measures











How the environment affects health



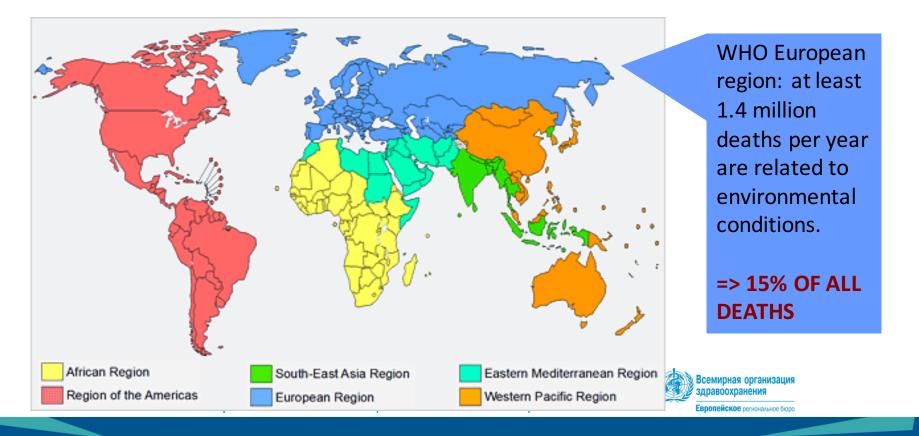




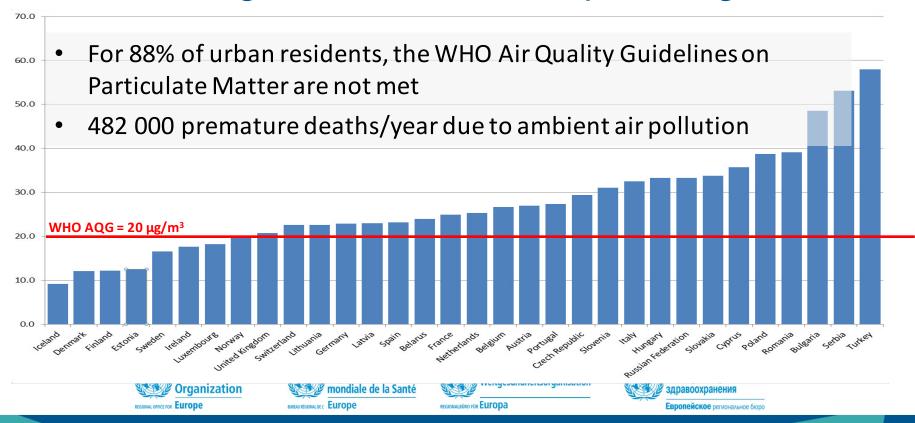




The health burden of inadequate environments



Air quality: the number one environmental health challenge in the WHO European region



Other environmental challenges in the WHO European region



Inadequate housing causes more than 100,000 deaths/year



Active mobility could prevent many of the 1,000,000 deaths/year attributable to inadequate physical activity



Inadequate water, sanitation and hygiene cause an estimated 14 diarrhoeal deaths per day in low and middle income countries









WHO tools and support

Evidence:



- WHO Guidelines and technical reports on environment conditions
 - Transport
 - Housing
 - Air pollution
 - Noise
 - Climate change
 - Water/sanitation
 - Green spaces
- Health Impact Assessments
- Economic assessments

REGIONAL OFFICE FOR Europe







- AirQ+ on health impacts of air pollution
- Health Economic Assessment Tools for cycling and walking
- Heat-Health Action Plans
- Climate change and health adaptation cost tool
- Air Quality in Cities database
- Environmental Burden of Disease quantification methods
- Environmental health indicators







BIODIVERSITY AND HEALTH GO TOGETHER









Biodiversity and health – an old topic with new relevance

On Airs, Waters and Places
Hippocrates



Published by the Library of Alexandria

Ecosystem effects of biodiversity loss could rival impacts of climate change

Date: May 2, 2012

Science Daily

Your source for the latest research nows

Tropical Mosquitoes Gain Foothold in Northern Europe

Date: May 9, 2016



Scientists warn of 'unsafe' decline in biodiversity

Date: July 15, 2016



Climate change: global reshuffle of wildlife will have huge impacts on humanity theguardian

Date: March 30, 2017

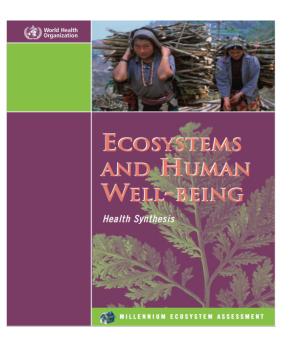








Importance of biodiversity and ecosystems to human health



"Nature's goods and services are the ultimate foundations of life and health, even though in modern societies this fundamental dependency may be (...) poorly recognized.

We now need to look at environmental health through a broader lens (...)"

(Lee Jong Wook, former DG of WHO)

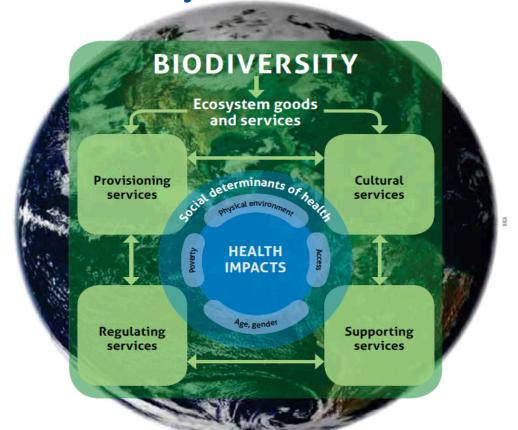








Linkages and co-dependencies at the intersection of biodiversity and human health





Ecosystem service changes – affecting us all

Ecosystem services are indispensable to the wellbeing of people everywhere.





Even wealthy populations cannot be fully protected from the impacts of degradation of ecosystem services.









OUR WORK FOCUS IN RELATION TO BIODIVERSITY:

- URBAN GREEN SPACES - CLIMATE CHANGE









Political frameworks for our work on green space and health

- WHO Parma Declaration commitments:
 By 2020: "to provide each child with access [...] to green spaces in which to play and undertake physical activity"
- SDG agenda "Leaving no-one behind" SDG 11.7:
 "provide universal access to safe, inclusive and accessible green and public spaces, in particular for women and children, older persons and persons with disabilities"





New Urban Agenda adopted at Habitat III, Quito, 2016:
 "We envisage cities and human settlements that [...] prioritize safe, inclusive, accessible, green and quality public spaces"



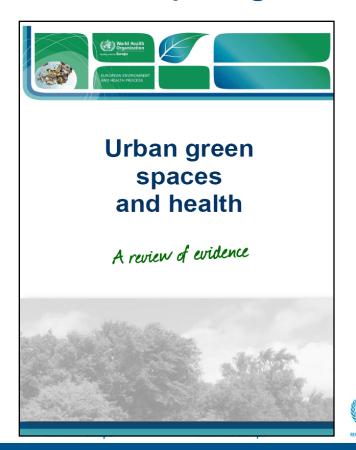


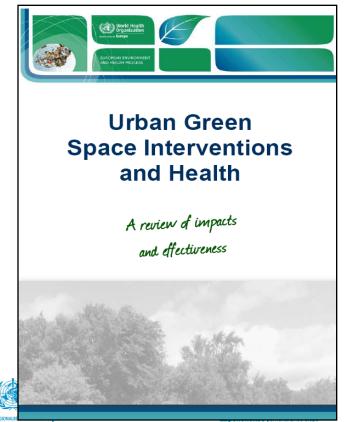






Compiling evidence for action





Green space benefits: health, equity and beyond

Green spaces benefit cities and urban quality of life because they can:

deliver positive environmental, social and health outcomes

upgrade the social and environmental quality of disadvantaged and deprived areas

make cities more liveable and enjoyable

Many urban green space interventions consider biodiversity and wildlife aspects!

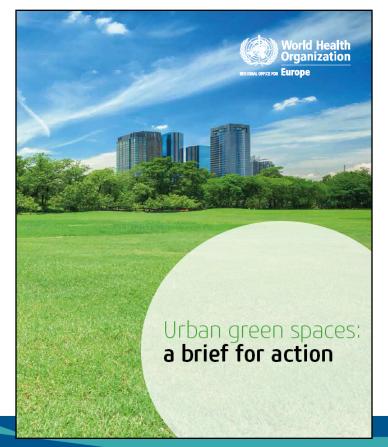








Urban green spaces: a WHO brief for action





Climate-related increases in ill-health in the European Region will occur through

- Expected further impacts of extreme weather events on health
- Disruption and stress for health services
- Changing distributions of infectious diseases
- Changes in air quality, food and water quality and security
- Consequences for health of lost work capacity and reduced labor productivity

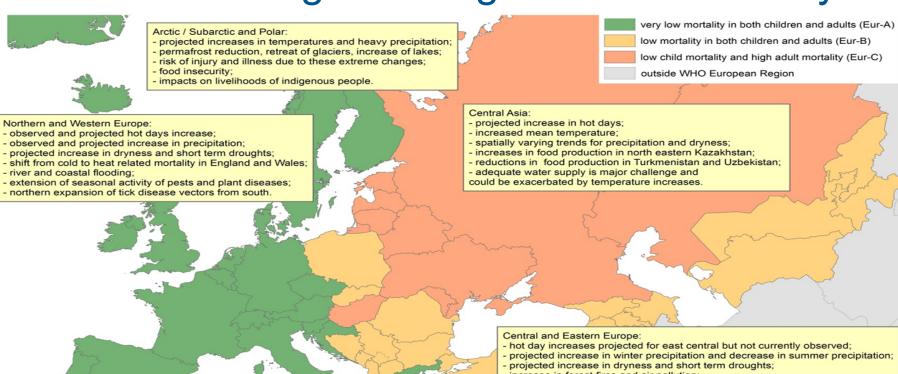








Climate change and high level of diversity



Southern Europe and Mediterranean:

- most sensitive to hot weather and highest heat wave exposure;
- increased heat wave mortality and morbidity;
- increase food born disease:
- increase in dryness and desertification;
- reductions in food production;
- increase in forest fires:
- changes in distribution of water borne and vector borne diseases.

- increase in forest fires and air pollution:
- northern expansion of tick disease vectors from south.

Examples of vector-borne diseases in the WHO European Region

Mosquito-borne

- Dengue fever
- Chikungunya
- Malaria
- West Nile fever (WNF)

Sandfly-borne

Leishmaniasis

Tick-borne

- Lyme disease
- Tick-borne encephalitis (TBE)
- Crimean—Congo haemorrhagic fever

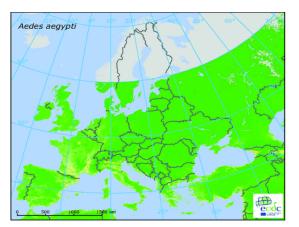


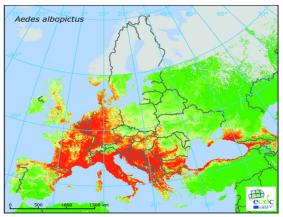


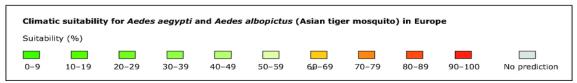




Key facts – WHO European Region







Weltgesundheitsorganisation
REGIONALBIRO FÜR EUropa

- 77 000 Europeans on average fall sick from vector-borne diseases every year.
- Mosquito species, such as Aedes aegypti, are re-emerging, and Ae. albopictus is emerging.

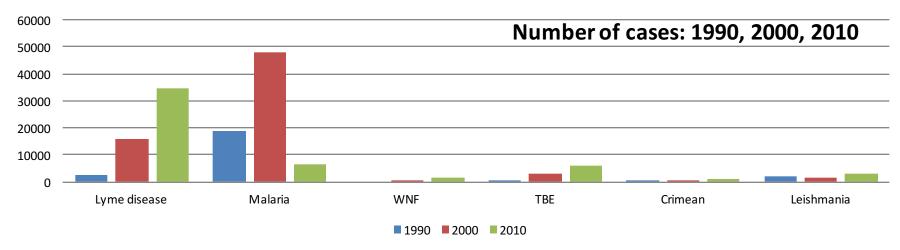






Increasing and decreasing trends

Over recent decades, many plant and animal species have shifted their geographical ranges, altered their abundance and shifted their seasonal activities in response to observed climate change (e.g. bird migration or pollen production). These shifts may increase the incidence of pollen allergies and vector-borne diseases in the European Region



Source: WHO centralized information system for infectious diseases (CISID) (http://data.euro.who.int/cisid).









Growing public health concern

A combination of factors increases the threat of vector-borne diseases in the WHO European Region:

- changing social and economic conditions;
- globalized travel and trade;
- increased urbanization;
- climate change;
- biodiversity changes.

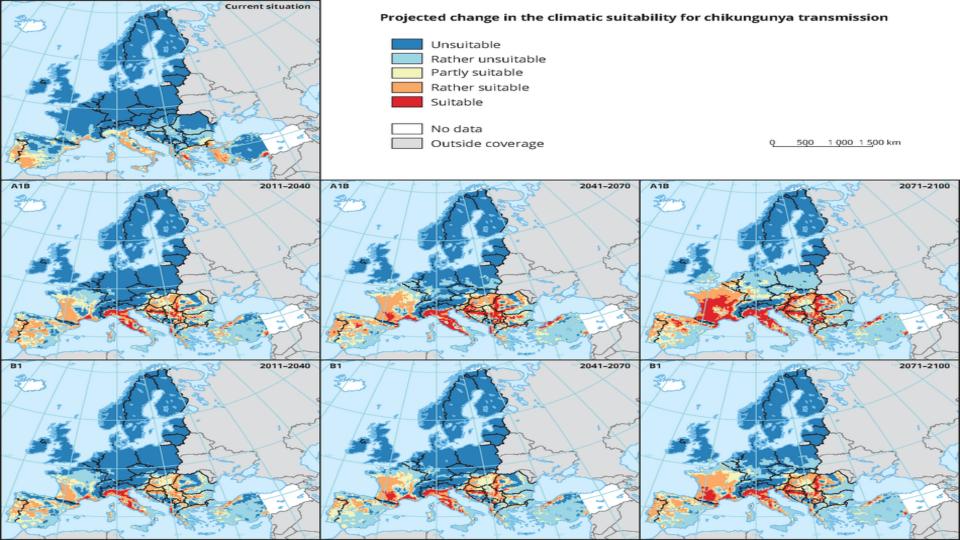












Public health action

3 phases of vector and disease prevention

and control

Control the vector

Prevent the disease

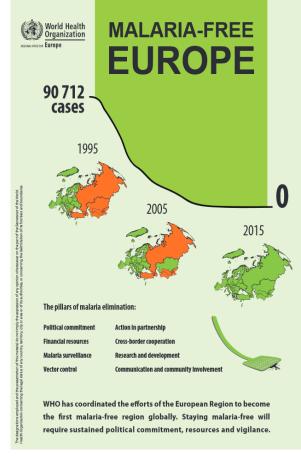
Limit the spread













Opportunity to Link Health, Biodiversity and Climate Change



Important for the climate change community to explicitly recognize that human health and well-being are influenced by the health of local plant and animal communities, and the integrity of the local ecosystems

Climate change, and all of its dire consequences for health, should be at centre-stage, right now, whenever talk turns to the future of human civilizations. After all, that's what's at stake.

















Structure and processes on environment and health

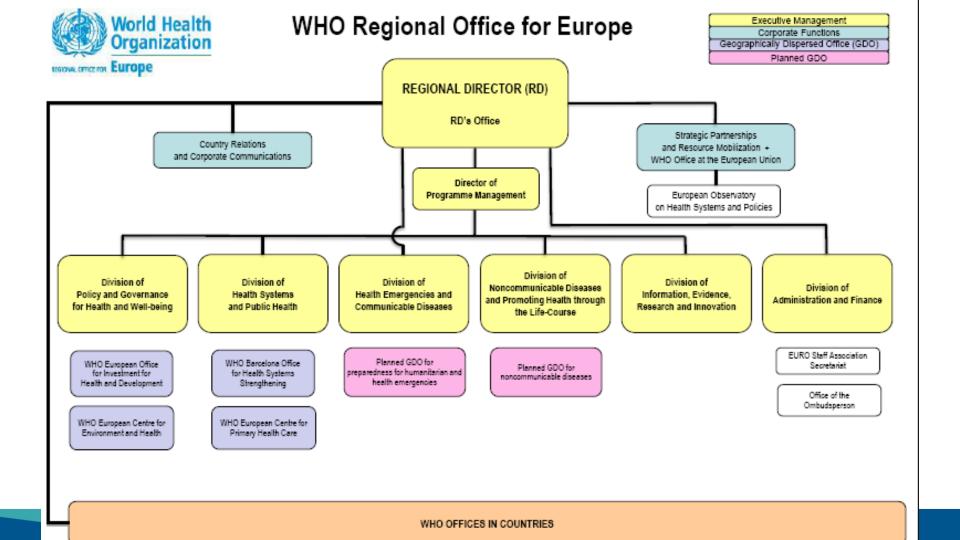






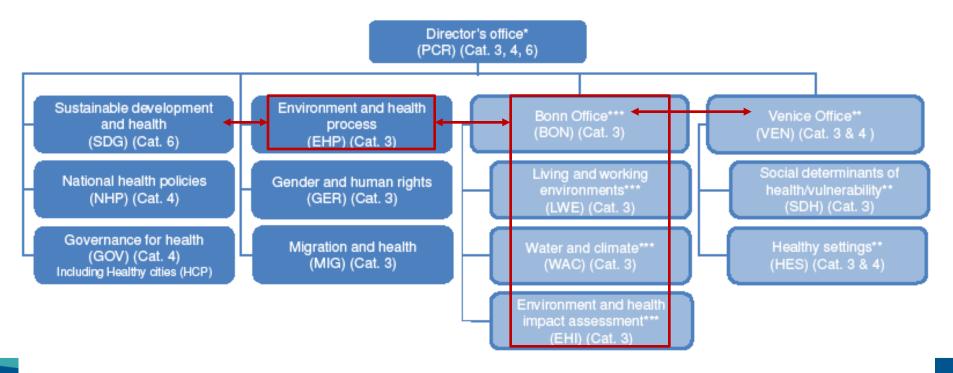








Division of Policy and Governance for Health and Well-being (PCR)



European EH Process (EHP)

An institutional framework ensures appropriate coordination between national implementation and international policies, and the proper level of monitoring and implementation.

- National mechanisms and structures are to be set up or strengthened in countries.
- The European Environment and Health Ministerial Board (EHMB) is the political face and driving force of international policies and commitments made within the EHP. The EHMB is composed of four ministers of health, four ministers of environment and four representatives of intergovernmental organizations.
- The European Environment and Health Task Force (EHTF) is the leading international body for implementation and monitoring of the EHP, meeting annually. Task Force members are leading officials from all Member States in the WHO European Region, nominated at national level as focal points for the Process.
- Secretariat: the whole institutional framework will be serviced by WHO/Europe, which will cooperate closely with UNECE and UNEP Regional Office for Europe.









Ministerial Conferences on EH

1989
Frankfurt

1994
Helsinki

1999
London

2004
Budapest

Parma

2017
Ostrava

...to gather environment and health ministries

...to achieve common commitments and promote intersectoral action

...to identify key priorities for WHO work on environment and health









Environment and Health structure

WHO Regional Office for Europe Division of Policy and Governance for Health and Well-being

European Environment and Health Process (EHP)

Copenhagen office

- Environment and health policies
- Transport and health

Bonn office

- Living / working environments
- Water and Climate
- Environment and health impact assessment









Programmatic work areas

AIR QUALITY

CHEMICAL SAFETY

CLIMATE CHANGE

ECONOMICS OF ENVIRONMENT AND HEALTH

ENVIRONMENTAL HEALTH INEQUALITIES

ENVIRONMENTAL NOISE

ENVIRONMENTALLY SUSTAINABLE HEALTH SYSTEMS

ENVIRONMENT AND HEALTH IMPACT ASSESSMENT

TRANSPORT AND HEALTH

URBAN AND BUILT ENVIRONMENTS

WASTE MANAGEMENT AND HEALTH

WATER, SANITATION AND HYGIENE

WORKERS' HEALTH







