

Questions to guide thinking: How can environment influence health? Are the SDGs interconnected within each other?

Hidden treasure game with post-its [LO1]

Question

Do you
consider that
environment
has an
influence in
your health?

Question

Do you consider that environment has an influence in animals' health?

Question

Do you know diseases that affect both humans and animals? Refersome diseases.

Icebreaker moment

Question

Which compartments of the environment may affect your health?

Question

Does the climate change affect humans' health?





Environmental determinants of health [DER1]

Climateric conditions

Water, air, food quality

Residential Charatheriscs Environmental Determinants of Health

Biodiversity and Landscape

Noise







Smart and green cities

[DER2]











SDG 6 — Clean water and sanitation

SDG 11 — Sustainable cities and communities

SDG 12 — Responsible consumption and production

SDG 15 — Life on land

















Distal factors

- diversity









13 CLIMATE ACTION



6 CLEAN WATER AND SANITATION









16 PEACE, JUSTICE AND STRONG INSTITUTIONS















recession

- - Food security
 - Assent

• Income

Financial strais



• Trauma Violence

- Safety and security
- Housing structure
- Recreation
- Infrastructure
- Setting

- Age
- Ethinicity
- Sex

Proximal factors



- Individual social capital
- Social participation
- Education

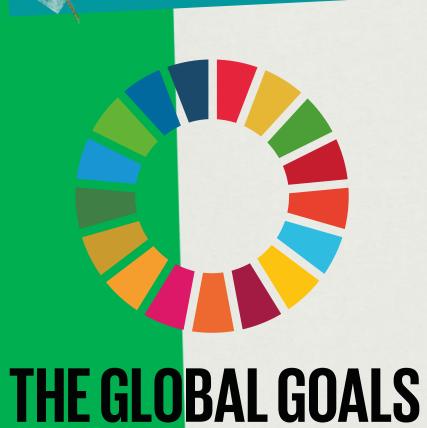








SDG 3, SD7 and SDG 13
[DER4]



3 GOOD HEALTH AND WELL-BEING



7 AFFORDABLE AND CLEAN ENERGY



13 CLIMATE ACTION







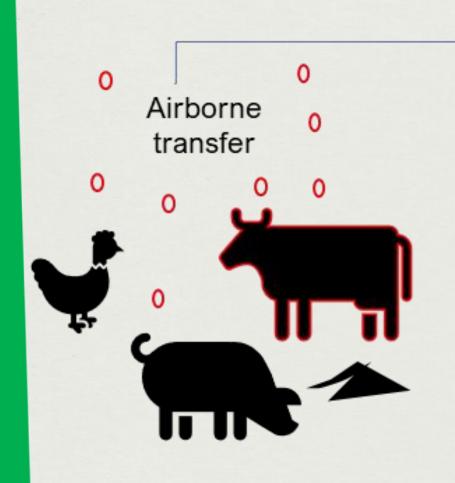




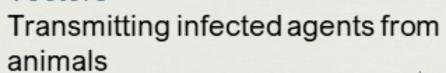




How zoonotic diseases are transmited?



Vectors









Close proximity to animals

Faecal oral transfer Animal body fluids in cuts



Direct contact with animals Bites from an infected

Food-borne

animal

Consumption of contaminated food and/or water

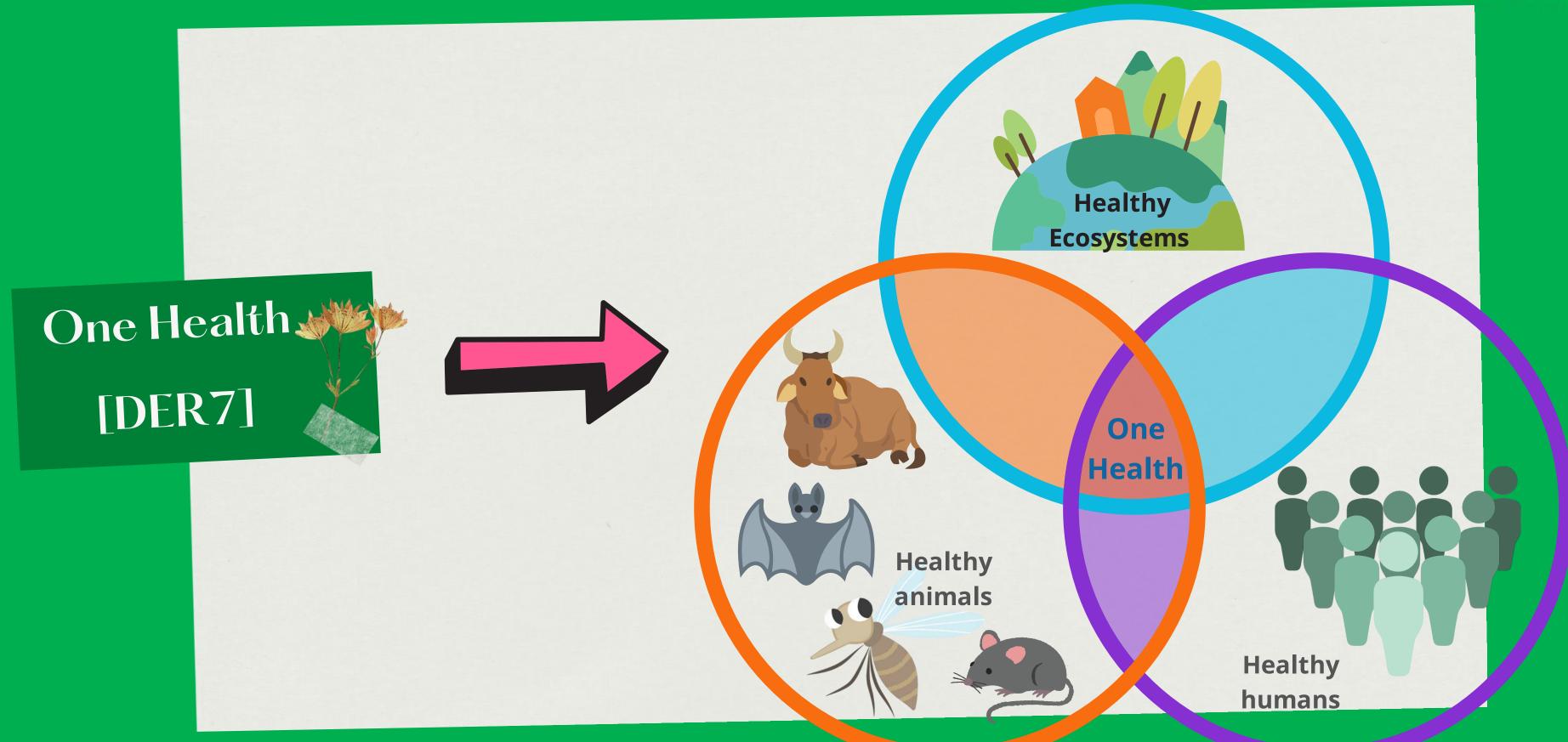
















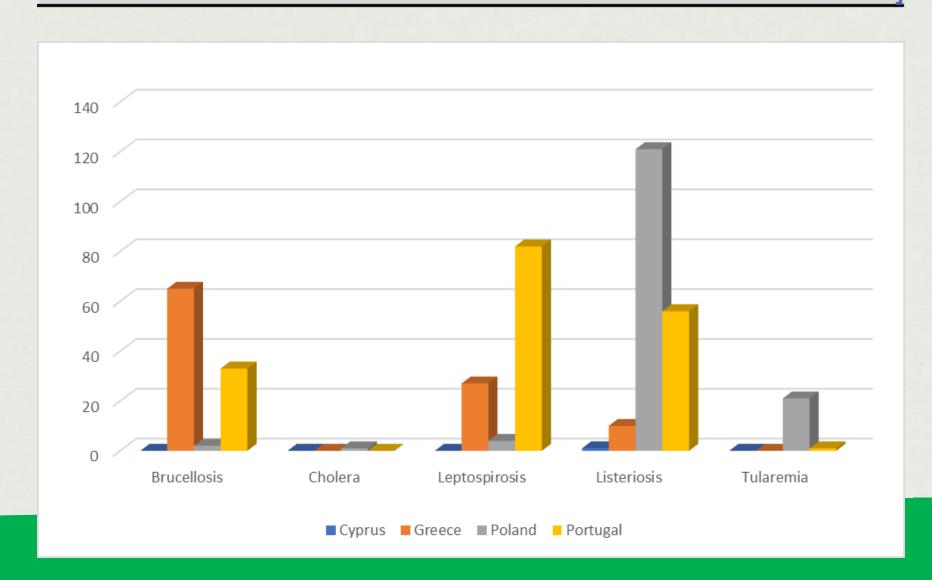


Number of reported cases in 2019

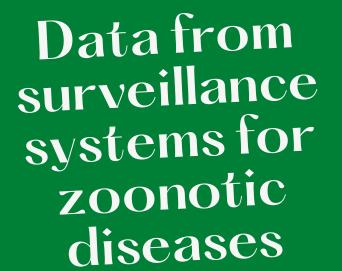




Zoonose	European Union	Cyprus	Greece	Poland	Portugal
Brucellosis	310	0	65	2	33
Cholera	26	0	0	1	0
Leptospirosis	1049	0	27	4	82
Listeriosis	2621	1	10	121	56
Tularemia	1280	0	0	21	1
Campylobacteriosis	220639	21	366	715	887
Salmonellosis	89050	62	643	8373	432







[DER8]





Concepts related with climate change (cards game)

[LO2]

Group 1

climate change

Group 3

extreme weather conditions

Group 2

greenhouse gases

Group 4

sustainable development goal





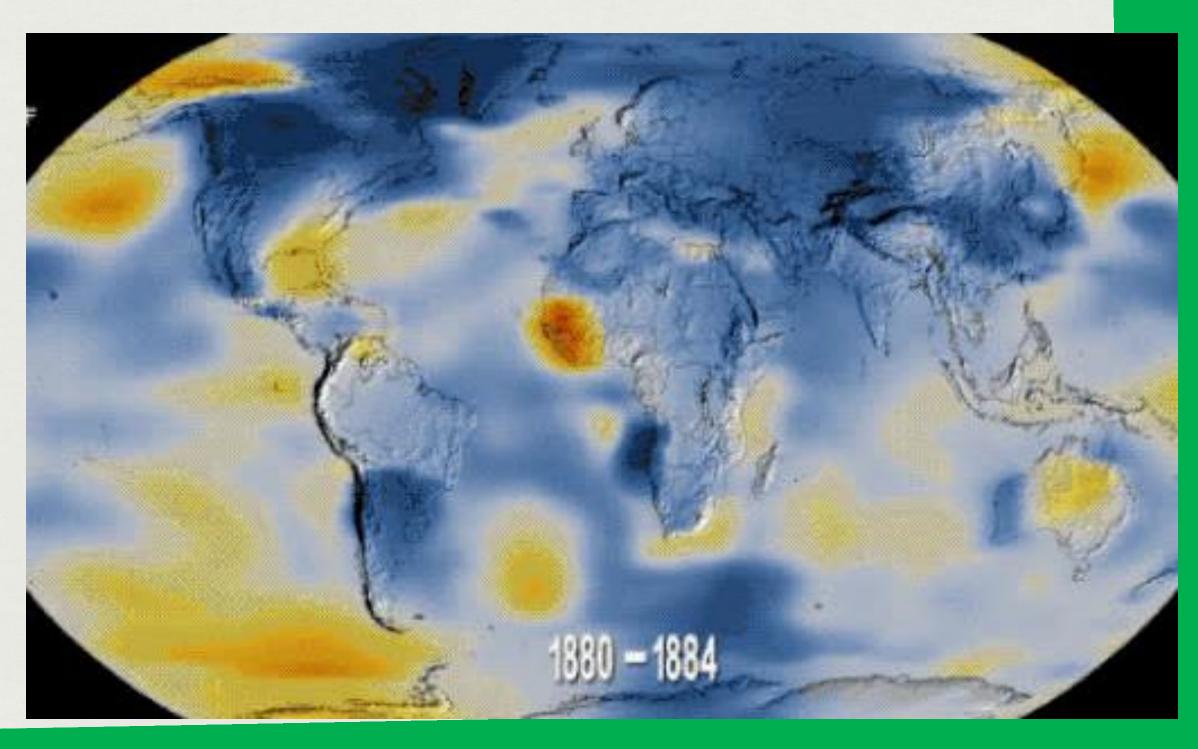


Atmospheric Temperature Rise

What is climate change?













How does climate change impact health?

[DER10]

Climate change is causing variety of impacts to our health, ecosystems and economy.

These impacts are likely to become more serious in the coming decades. If not addressed, these impacts could prove very costly, in terms of ill health, adverse effects on ecosystems, and damaged property and infrastructure.

Climate-sensitive health risks

Health outcomes



Injury and mortality from extreme weather events



Heatrelated illness



Respiratory illness



Malnutrition and foodborne diseases



on Vector-borne - diseases



Water-borne diseases



Zoonoses



Noncommunicable diseases



Mental and psychosocial health

Health systems & facilities outcomes





Impacts on healthcare facilities and health systems







[DER11]





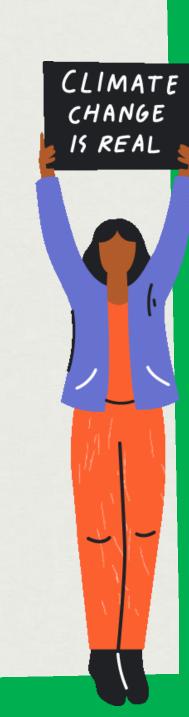
Decarbonization



Reduced impact on climate



Reduced impact on health

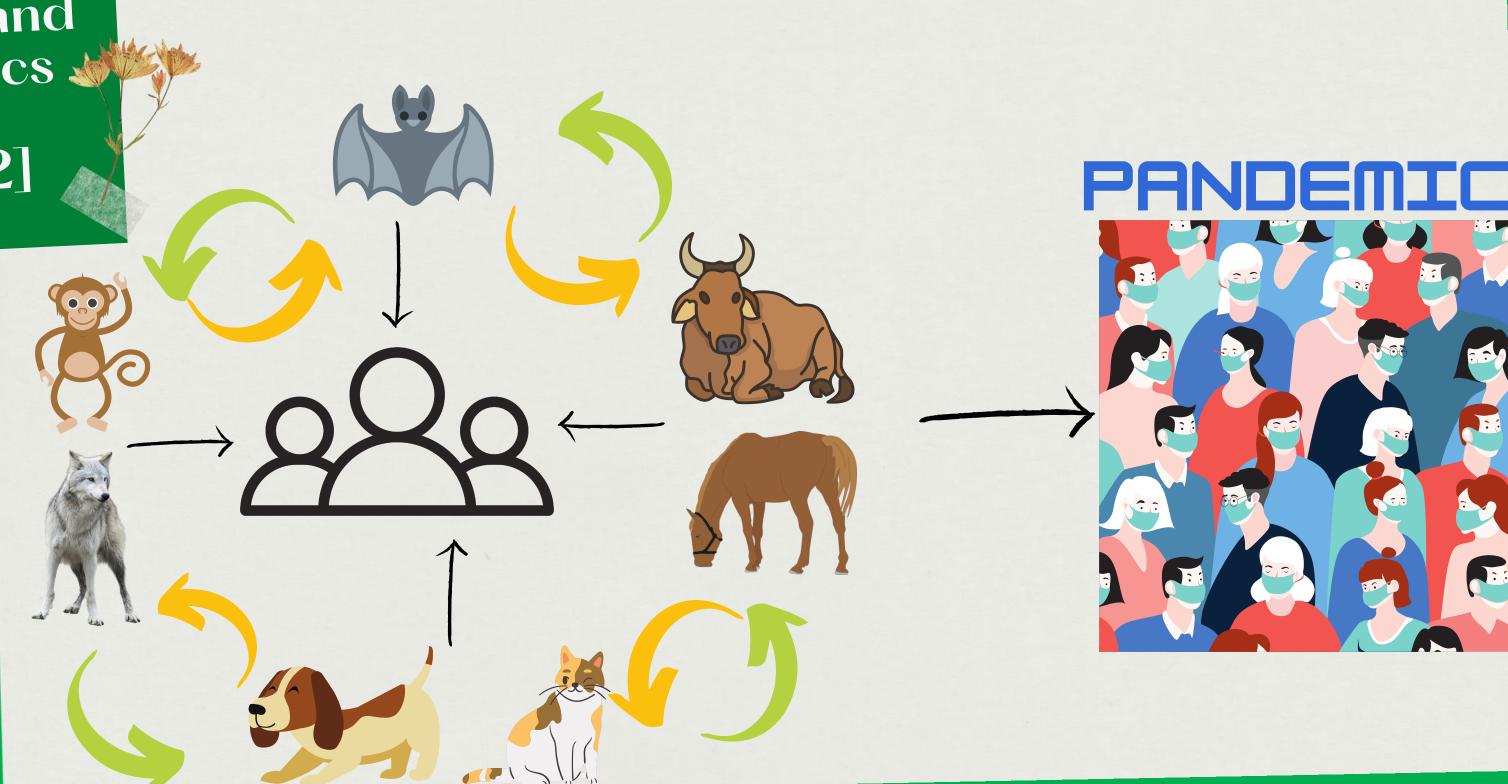






Zoonotic diseases and pandemics

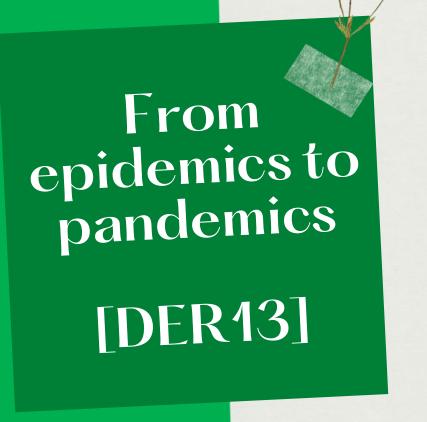
[DER12]











Epidemic



VS.

- Event in which a disease is actively spreading
- Often used to describe problem that has grown of control

Pandemic



- Relates to geographic spread
- Describes disease that affects a whole country
 OR the entire world

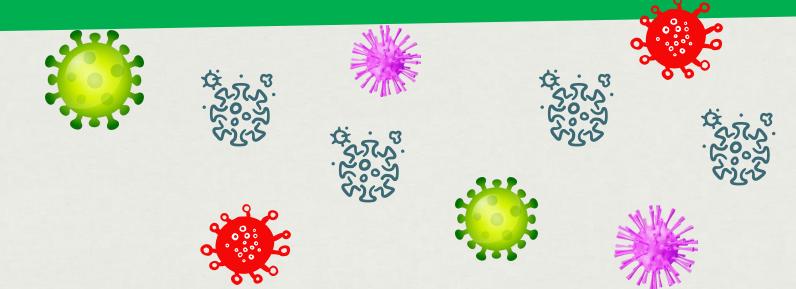






Anthropogenic activities and pandemics





Microbes are a key part of wildlife diversity & often drive population dynamics



Anthropogenic environmental changes



Habitat loss

Increased interaction among animals & species, including humans



Deforestation
Pollution
Industrialization
Urbanization

Spillover among wildlife, livestock and people



Source: IPBES



Cards with mortality data from pandemics

[LO3]

Pandemics – Mortality data

Name Antonine Plague

Time 165-180

Agent Smallpox or measles viruses Unknown!

Mortality 5 000 000

Pandemics – Mortality data

Name Japanese smallpox epidemic

Time 735-737

Agent Smallpox virus

Mortality 1 000 000







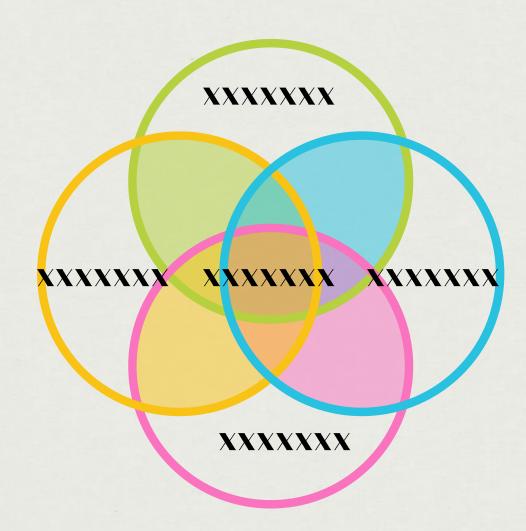
Template for infographics [DER16]

Control and Prevention (One Health)

Zoonoses

- XXXXXXXX
- XXXXXXX

Transmission









Template to brainstorm about climate change action in the community [DER17]

What can we do to change?

What people said about these issues?



Future actions in community





