



Da One Health a Salute Circolare: una evoluzione necessaria.

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History teaches that certain pandemics are transformational events and Covid 19 is one of them



- There will be a **before** and an **after**
- Multiple **systems** are **shaken** and some may collapse
- Pandemics carry **teachings** which cannot be ignored

Pandemics are transformational events

16.5trn\$

- 8 times Italy's annual GDP
- 213 times Ghana's annual GDP

Source IMF, Jan 2022

Number of people affected and vaccine doses administered

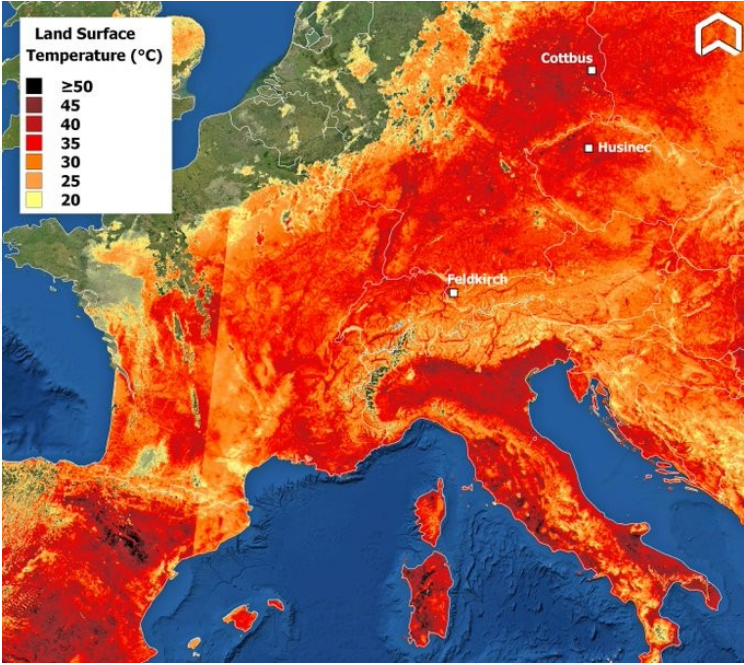
Globally, as of **6 September 2023**, there have been **770,437,327 confirmed cases** of COVID-19, including **6,956,900 deaths**, reported to WHO.

As of **1 September 2023**, a total of **13,500,122,024 vaccine doses** have been administered.

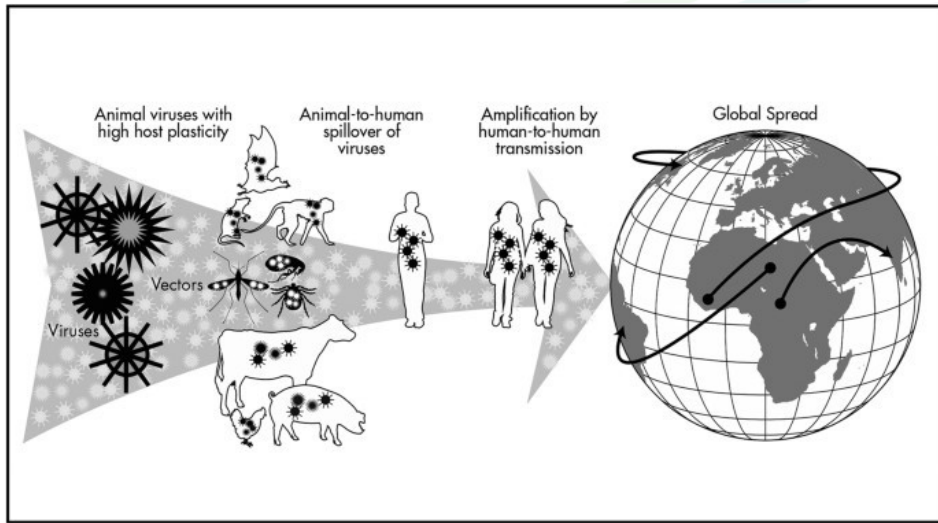
Source: WHO dashboard

Convergence of crises

Fonte Copernicus.eu



Fonte Nature (2015)



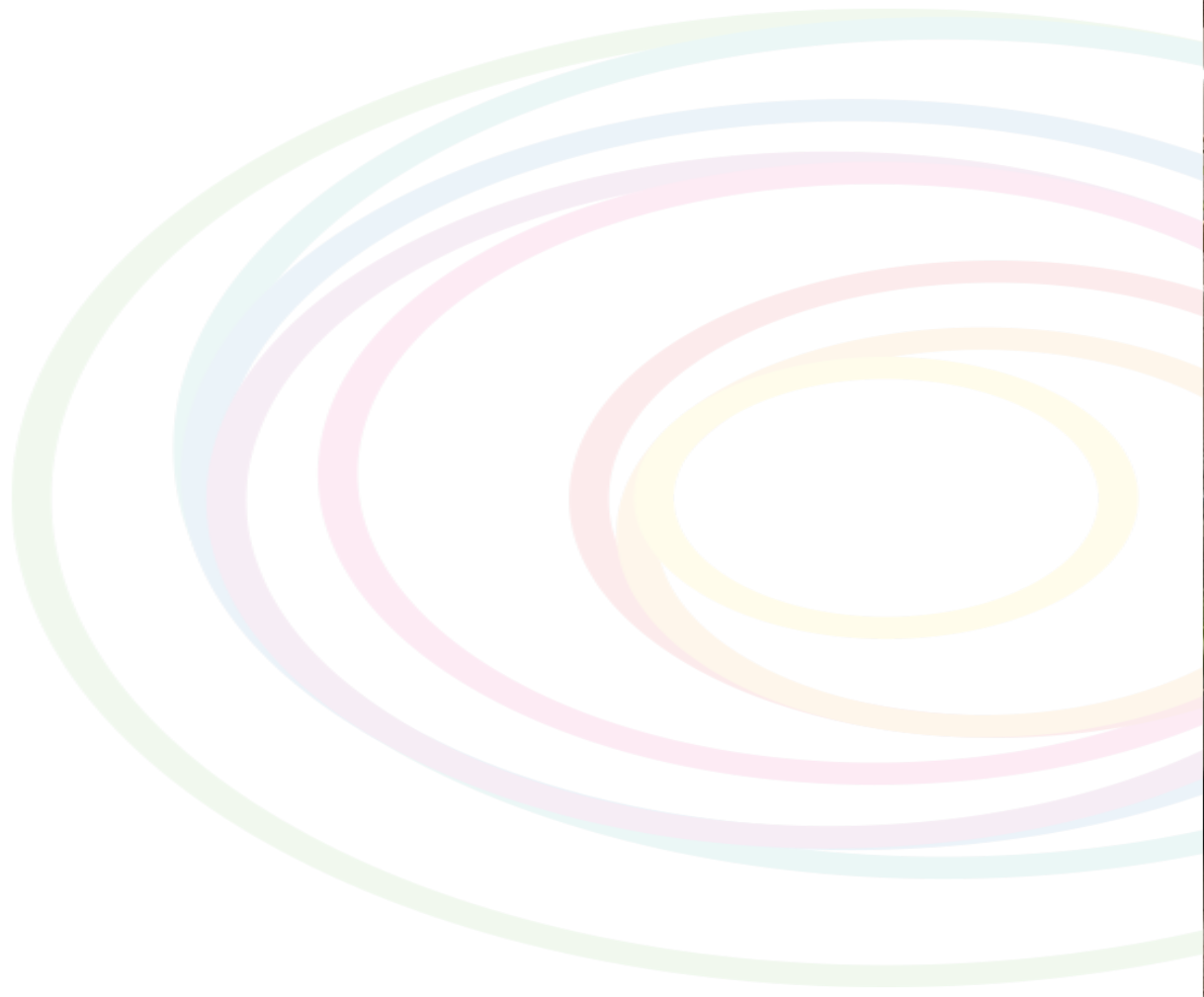
Fonte Sky News



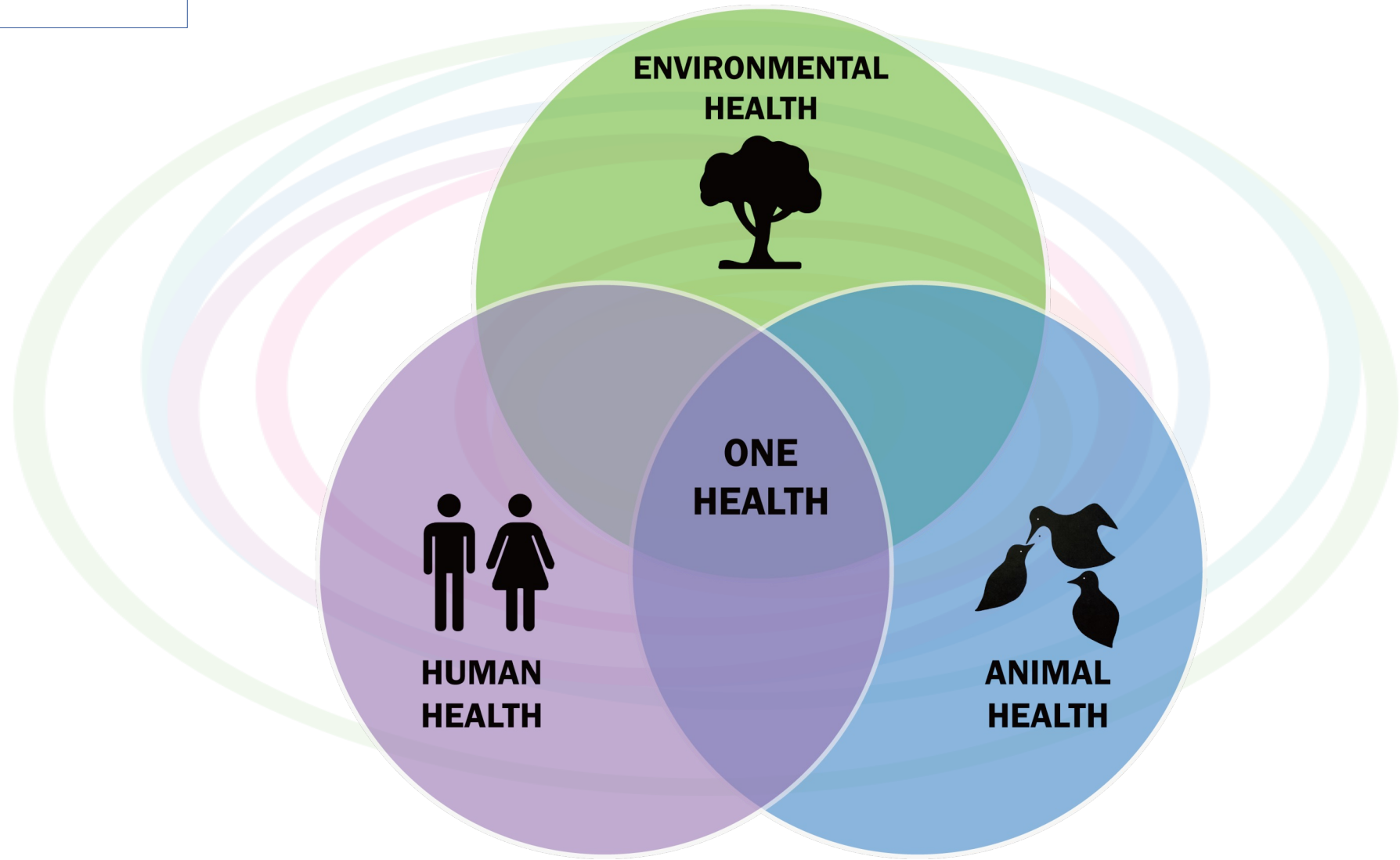
Fonte Rai News

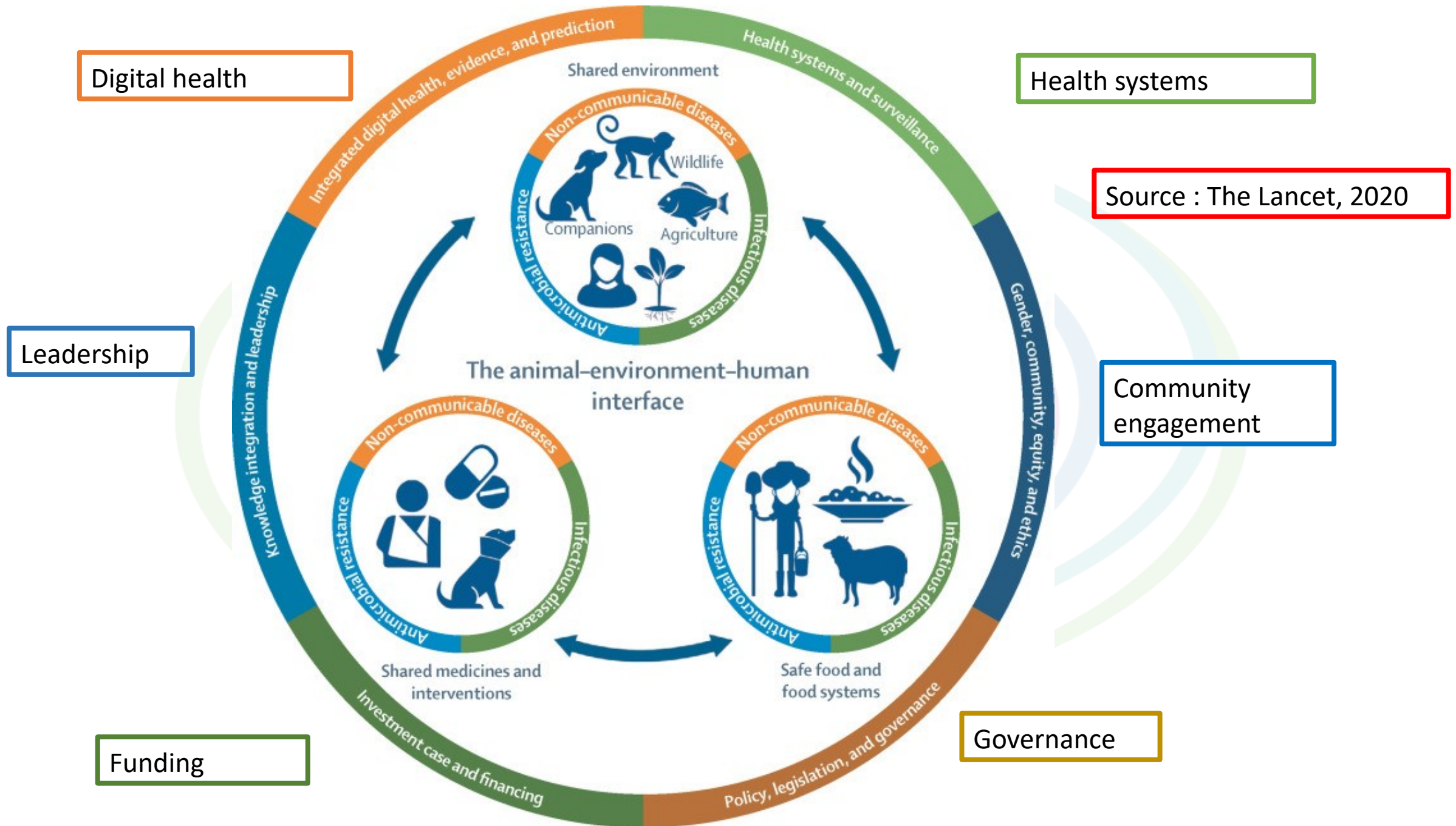


Fonte Rabobank



Concept of One Health
1960's







Additional areas which are to be included in the “expanded One Health” topic map:

- Role of Denialism
- Role of Misinformation
- Role of Gain of Function experiments

- Human –animal bond
- Mental health
- Working animals
- Societal role of pets
- Bioterrorism

Salute Circolare è un approccio **sistemico** alla salute che si basa sul paradigma One Health.

Riconosce la necessità di uno **sforzo di convergenza multidisciplinare** al di là della dimensione biomedica della salute.

Utilizza gli **obiettivi di sviluppo sostenibile** come strumenti di implementazione ed i **Big data** come fonte di nuove informazioni.

EGO



ECO





Implementation and reinforcement of Circular Health:

Advancing health as a system using the SDG roadmap



CAUSES OF ANTIBIOTIC RESISTANCE



Antibiotic resistance happens when bacteria change and become resistant to the antibiotics used to treat the infections they cause.



Over-prescribing of antibiotics



Patients not finishing their treatment



Over-use of antibiotics in livestock and fish farming



Poor infection control in hospitals and clinics



Lack of hygiene and poor sanitation



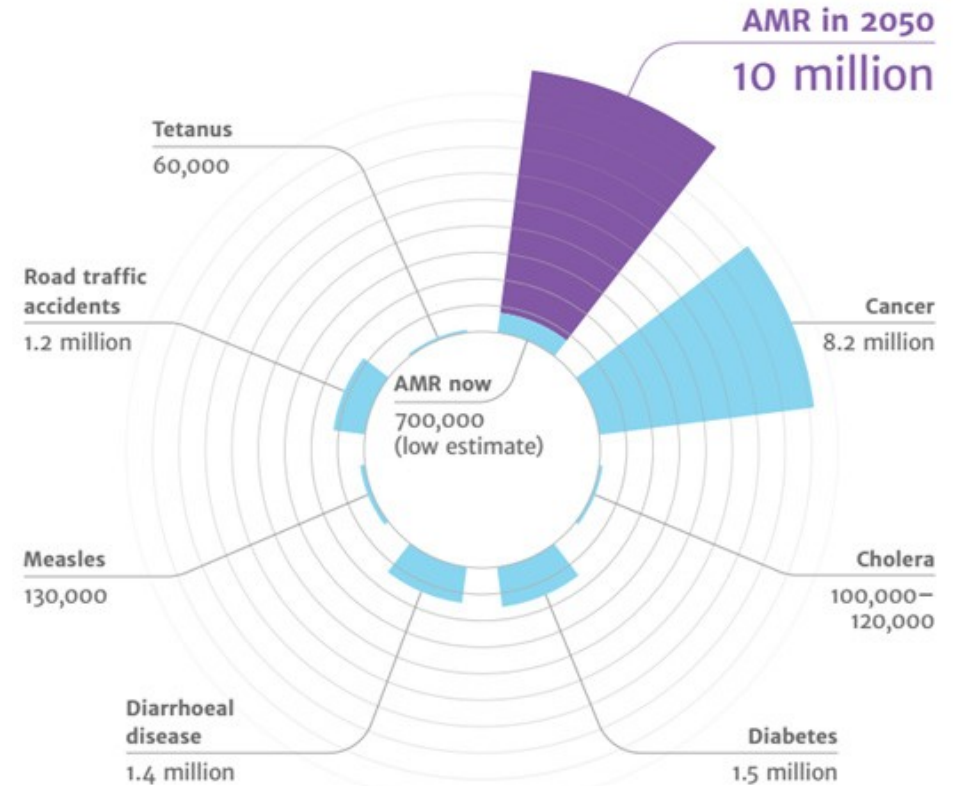
Lack of new antibiotics being developed

www.who.int/drugresistance

#AntibioticResistance



World Health Organization



Source WHO, 2015



Ten Recommendations

1. A massive global public **awareness** campaign
2. **Improve hygiene** and prevent the spread of infection
3. Reduce **unnecessary use** of antimicrobials in agriculture and their dissemination into the environment
4. Improve **global surveillance** of drug resistance and antimicrobial consumption in humans and animals
5. Promote new, **rapid diagnostics** to cut unnecessary use of antibiotics
6. **Promote development and use of vaccines and alternatives**
7. Improve the numbers, pay and **recognition of people** working in infectious disease
8. Establish a **Global Innovation Fund** for early-stage and non-commercial research
9. Better incentives to promote **investment for new drugs** and improving existing ones
10. Build a global **coalition for real action** – via the G20 and the UN

Review on Antimicrobial Resistance

Tackling drug-resistant infections globally



-  Antibiotics in agriculture and the environment
-  International coalition for action
-  Surveillance
-  Vaccines and alternatives
-  Public awareness
-  Sanitation and hygiene
-  Rapid diagnostics
-  Human capital
-  Global Innovation Fund



OPEN ACCESS

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Circular Health: exploiting the SDG roadmap to fight AMR

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Circular Health is a novel approach to address complex health issues that is based on the expansion of the One Health Paradigm. Circular health recognizes the need for a multidisciplinary convergence effort to complement the biomedical dimension of health. Antimicrobial resistance (AMR) is one of the greatest global concerns for public health that is likely on the rise, given the extensive use of

Regione Emilia-Romagna
SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Agenzia
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ANTIBIOTICI

EFFICACI SE NECESSARI,
DANNOSI SE NE ABUSI.

Il tuo medico sa
come e quando usarli.

Scopri tutti i contenuti su
salute.regione.emilia-romagna.it/antibiotici

È UN
PECCATO
USARLI MALE



Vaccine
accessibility

EQUITY

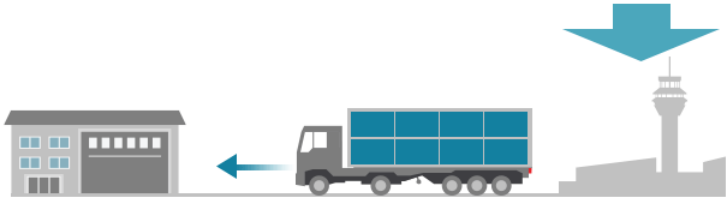
The world can't afford a bidding war over future COVID-19 vaccines. Let's commit to equitable distribution for everyone.

How the vaccine cold chain works

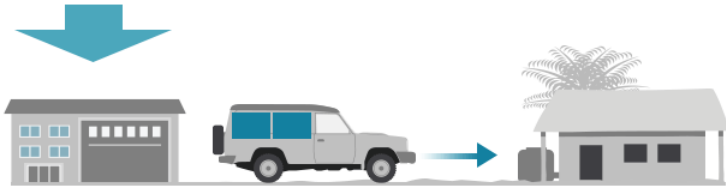
1 Vaccines sent to destination country



2 Refrigerated lorry to cold room



3 Distribution in portable ice boxes to regional centres



4 Stored in electric fridges between 2C and 8C



5 Carried in portable ice boxes to local venues for vaccination campaign



In 2023 we still need
the cold-chain
to ship and store
vaccines



Disponibilità di vaccini termostabili

Benefici per la salute dell'uomo

Benefici alla salute degli altri animali

Contribuirebbe a ridurre la resistenza antimicrobica

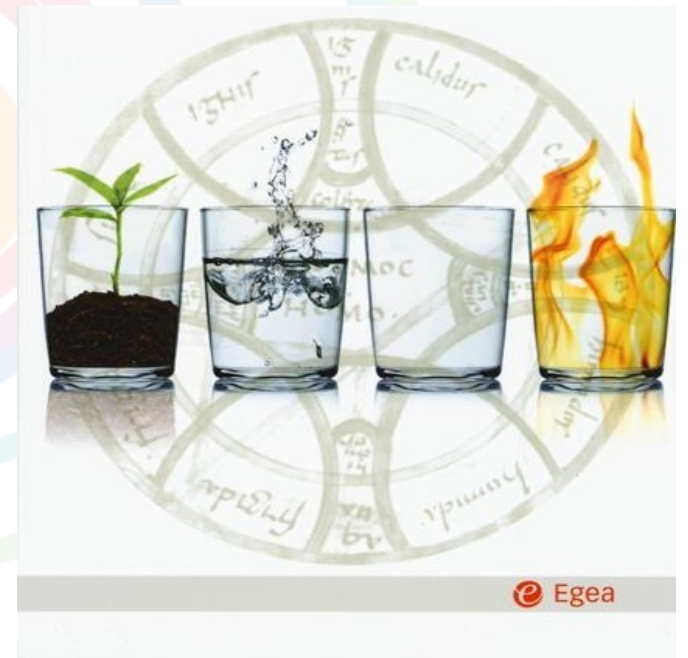
Ridurrebbe l'impatto delle malattie prevenibili a livello globale

Ridurrebbe l'attuale impronta di carbonio delle campagne di vaccinazione

- Affrontare le difficoltà in termini di accessibilità ai vaccini



Narrativa della Salute Circolare





Earth

Water



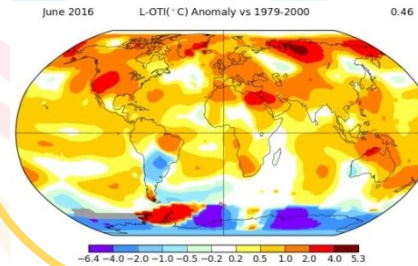
CHOLERA
AND
WATER.
BOARD OF WORKS
FOR THE LIMEHOUSE DISTRICT,
Comprising Limehouse, Ratcliff, Shadwell,
and Wapping.

The INHABITANTS of the District within
which CHOLERA is PREVALENT, are
earnestly advised

NOT TO DRINK ANY WATER
WHICH HAS NOT
PREVIOUSLY BEEN BOILED.

Fresh Water ought to be Boiled every
Morning for the day's use, and what
remains of it ought to be thrown away
at night. The Water ought not to stand
where any kind of dirt can get into it,
and great care ought to be given to see
that Water Butts and Cisterns are free
from dirt.

BY ORDER,
THOS. W. RATCLIFF,
Clerk.



FIRE



Air



Modello di convergenza



ILARIA
CAPUA

LE ANTONELLA
ATTILI

PAROLE
DELLA

4 NOVEMBRE
ORE 20.30

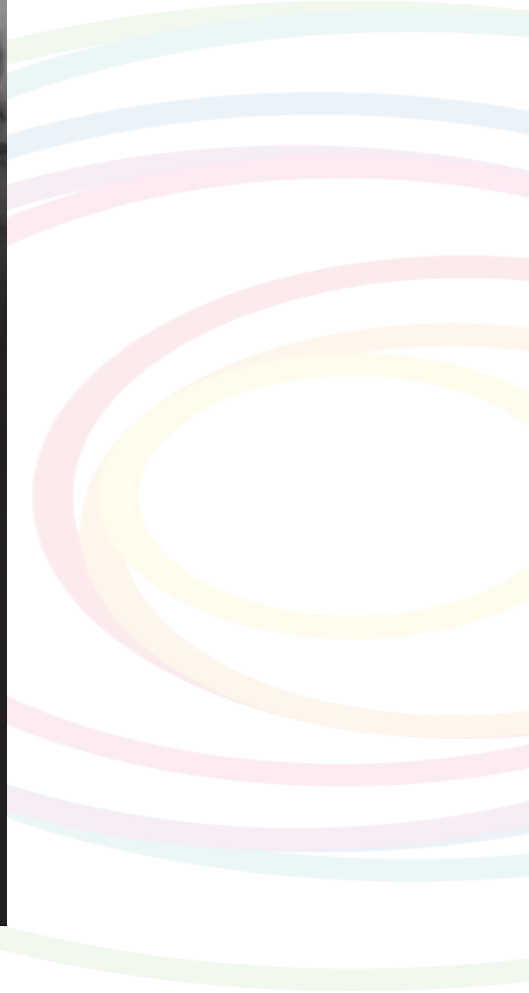
SALUTE MILANO
CIRCOLARE MUSEO NAZIONALE SCIENZA E
TECNOLOGIA LEONARDO DA VINCI

INGRESSO GRATUITO
Pad Aeronavale: ingresso da via Olona 6

*Siamo terra, siamo aria, siamo acqua, siamo fuoco. Siamo natura.
Ilaria Capua e Antonella Attili ci accompagnano in un viaggio
nel tempo e nelle parole, per ricordarci che siamo noi i responsabili
della salute del pianeta. E della nostra.*

SALUTE
CIRCOLARE

ORGANIZZAZIONE E ADATTAMENTO TEATRALE A CURA DI:
ELASTICA



Ilaria
Capua

Le parole della
salute circolare

Aboca



“Non sempre **cambiare** equivale a **migliorare**, ma per **migliorare** bisogna **cambiare**.”

SIR WINSTON CHURCHILL.”



CIRCULAR
HEALTH