

UNITED NATIONS
OFFICE FOR OUTER SPACE AFFAIRS



Space science and technologies to advance national health-related SDGs

WEDNESDAY
14 DECEMBER 2022
11.30 a.m. – 1 p.m.

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UN-SPACE SESSION / WORLD SPACE FORUM SESSION IV **SPACE IN THE UNITED NATIONS**

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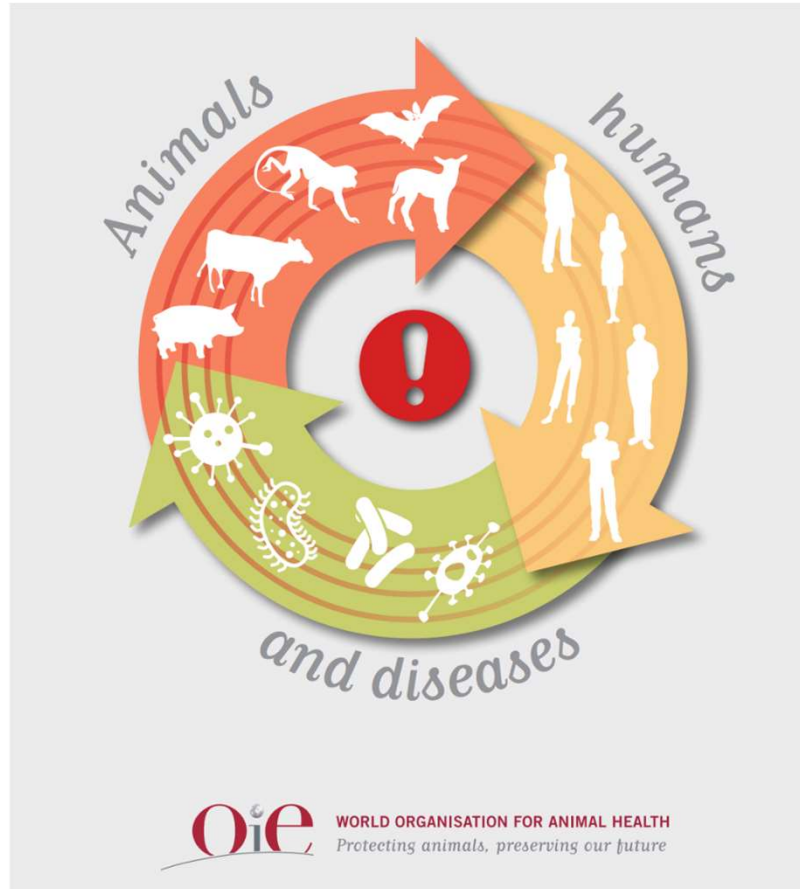
UNITED NATIONS



Contextualizing One Health

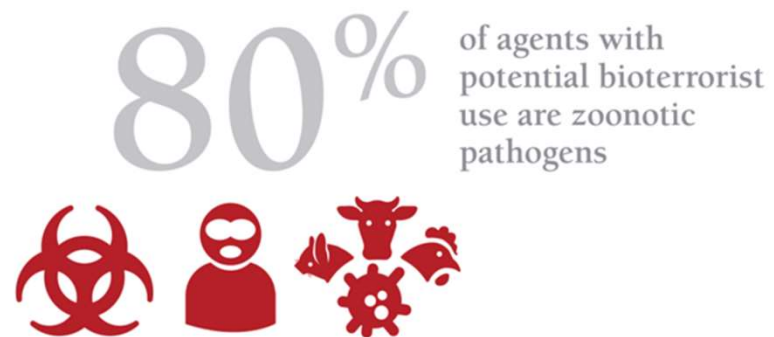
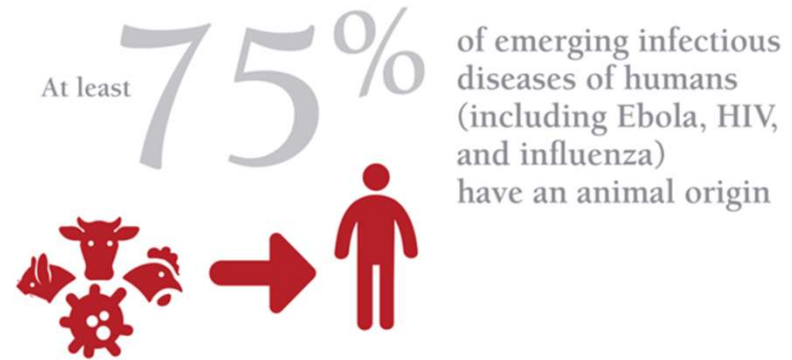
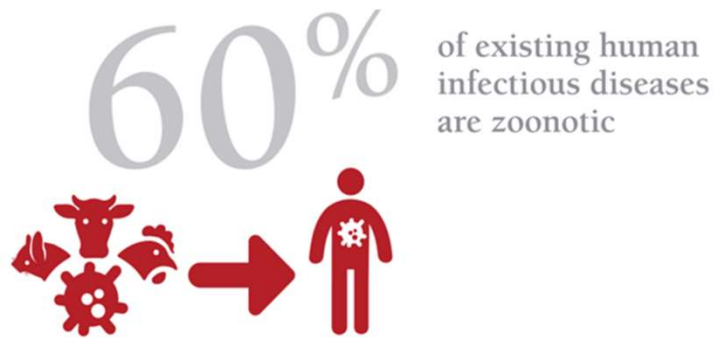
interconnectedness of
human health, animal health and
the environment

One Health



Source: OIE, 2016; <http://www.oie.int/for-the-media/onehealth/>

One Health



Source: OIE, 2016; <http://www.oie.int/for-the-media/onehealth/>

Climate change

Overview of climate-sensitive health risks, exposure pathways and vulnerability factors

Vulnerability

Vulnerability factors

- Demographic factors
- Geographic factors
- Biological factors & health status
- Sociopolitical conditions
- Socioeconomic factors

Exposure pathways

- Extreme weather events
- Heat stress
- Air quality
- Water quality and quantity
- Food security and safety
- Vector distribution & ecology

Health system capacity & resilience

- Leadership & governance
- Health workforce
- Health information systems
- Essential medical products & technologies
- Service delivery
- Financing

Climate-sensitive health risks

Health outcomes



Injury and mortality from extreme weather events



Heat-related illness



Respiratory illness



Water-borne diseases and other water-related health impacts



Zoonoses



Vector-borne diseases



Malnutrition and food-borne diseases



Noncommunicable diseases (NCDs)



Mental and psychosocial health



Impacts on healthcare facilities



Effects on health systems

HEALTH IN THE SDG ERA

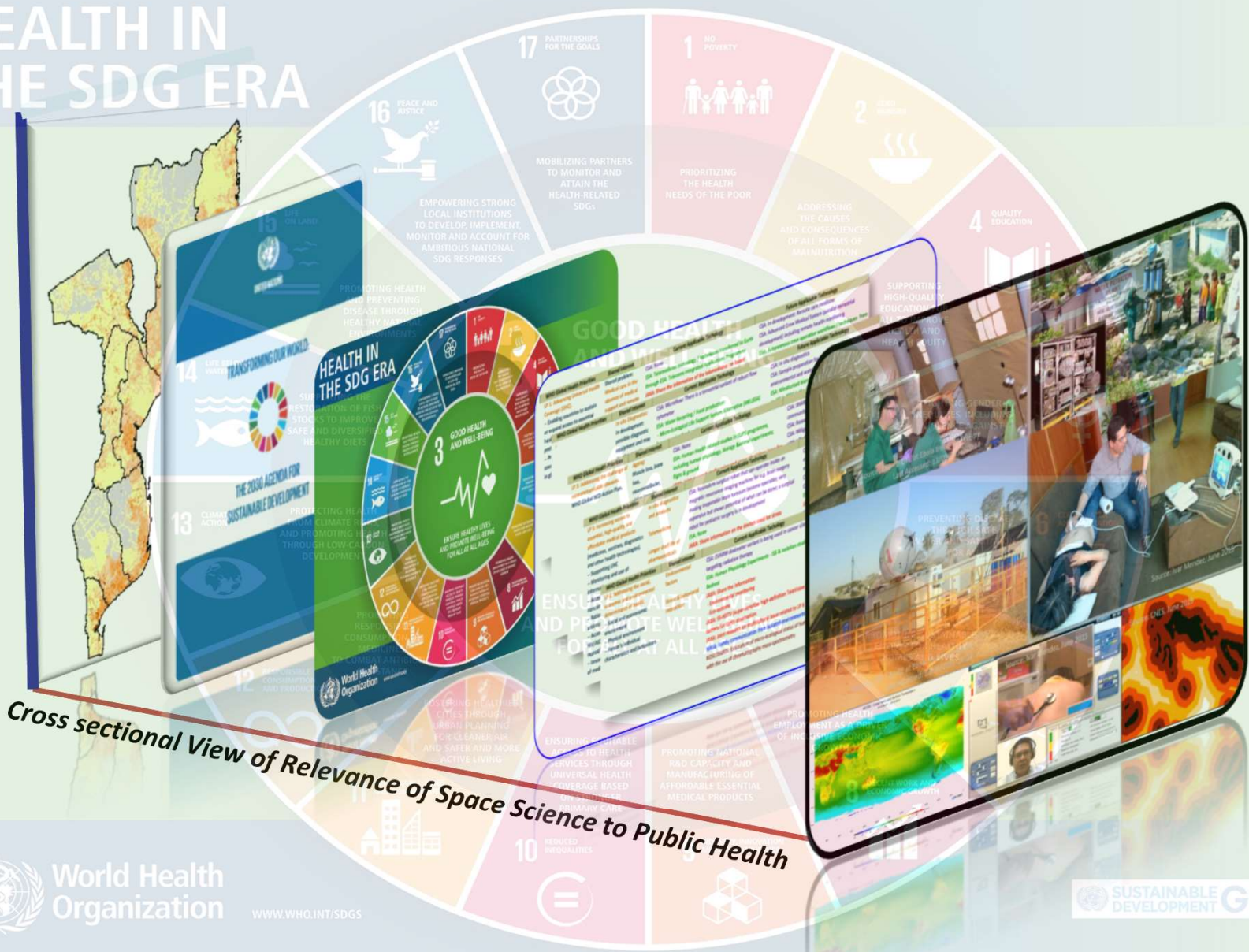


World Health Organization

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HEALTH IN THE SDG ERA



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UN-Space Session at World Space Forum
14 December 2022 - 11:30-13:00 | Vienna, Austria



World Health Organization

Matrix of Relevance

SDGs

Space Science & Technology and Health

1: No Poverty

Prioritizing the health needs of the poor

2: Zero Hunger

Addressing the causes and consequences of all forms of malnutrition

6: Clean water and sanitation

Preventing diseases through safe water and sanitation for all

10: Reduced inequalities

Ensuring equitable access to health services through Universal Health Coverage Based on stronger primary care

13 Climate Action

Protecting health from climate risks, and promoting health through low-carbon development

14: Life below water

Supporting the restoration of fish stocks to improve safe and diversified healthy diets

15: Life on land

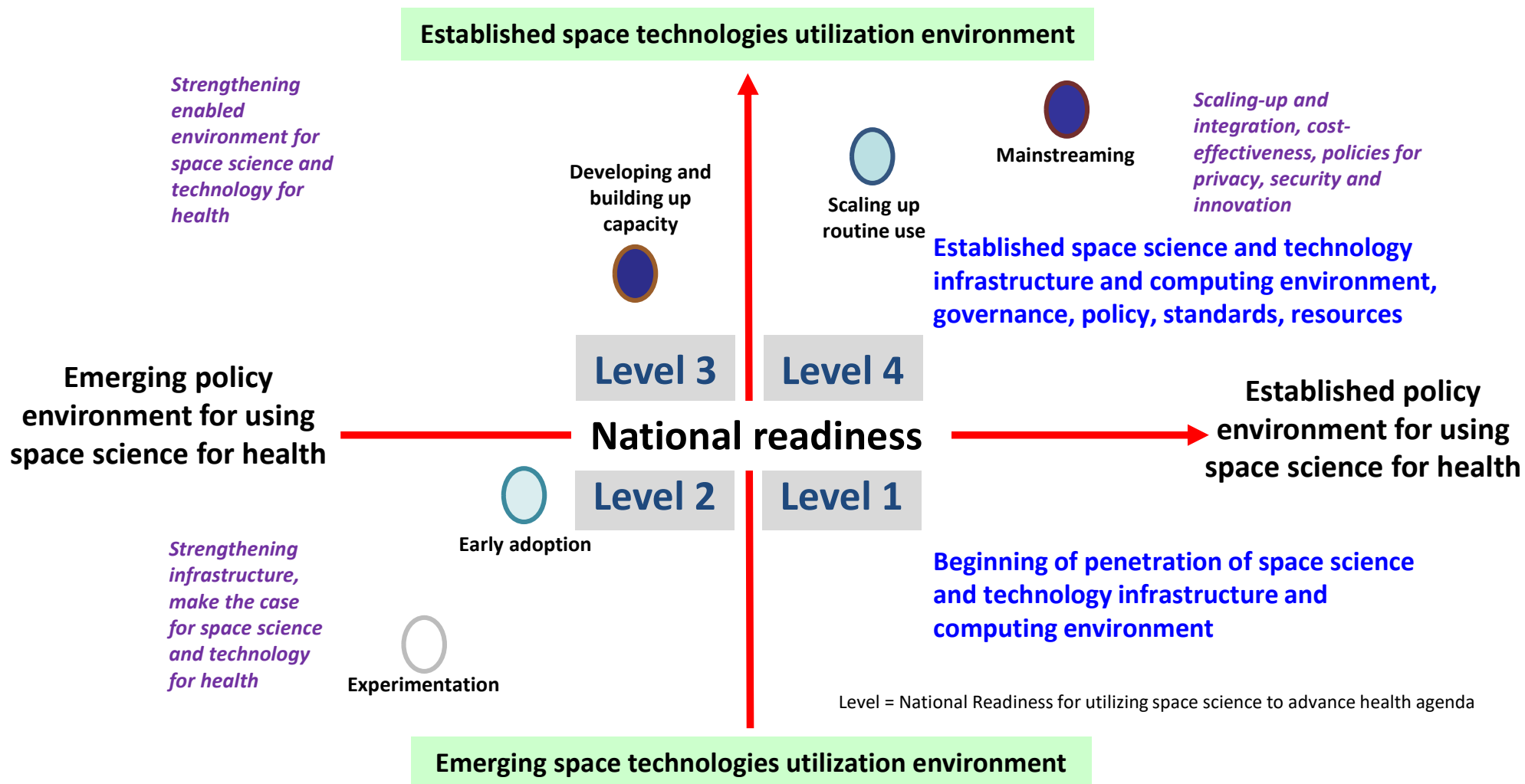
Promoting health and preventing diseases through healthy natural environments

Strengthening national capacities and the need for a Framework

- 1. National readiness** for utilizing space science and technology to advance SDGs
- 2. Multi-sectoral engagement** for better cooperation in the context of One Health
- 3. Alignment** of existing strategies, stakeholders, and efforts

Capacity Building - National Readiness Matrix

for utilizing space science and technology to advance health-related SDGs



Moving forward

- Facilitate formalized cooperation between health authorities and space authorities at national levels
- Assist Member States to establish policy-enabled environment and governance mechanisms for effective use of space-based technologies
- Promote equitable access to and application of space solutions for public health of Member States
- Promote capacity-building events in the context of One Health