

Strengthening Preparedness: integration of One Health approaches

Maria Grazia Dente



PREZODE: JOINING FORCES TO ESCAPE THE ERA OF PANDEMICS -11th of February 2022



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Task Force 1
Global Health and COVID-19

Policy brief

ONE HEALTH-BASED CONCEPTUAL FRAMEWORKS FOR COMPREHENSIVE AND COORDINATED PREVENTION AND PREPAREDNESS PLANS ADDRESSING GLOBAL HEALTH THREATS

SEPTEMBER 2021

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ISS OH Policy Brief 2021

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European Public Health Week -17-21 May 2021



ISS current efforts with One Health strategies

<https://www.iss.it/en/one-health>

All for One Health DAY -20 May 2021

Istituto Superiore di Sanità confirms its effort towards One Health implementation to enhance prevention, preparedness and response to health threats

- ✓ An inter-sectoral and multidisciplinary approach to estimate and prevent climate change-related public health impacts. The First Scientific Symposium “Health and Climate Change” and its declaration to promote actions “**The Rome International Charter on Health and Climate Change (2018)**”;
- ✓ One Health 5-year **Italian National Plan on arboviruses (2020)**;
- ✓ Integrated human/animal health approach to the implementation of **the Italian Pandemic Plan (2021)**;
- ✓ Memorandum of understanding to promote and enhance **collaboration between OIE and ISS** at the international level on the One Health approach (2018);
- ✓ The **European One Health Joint Programme (OH-EJP)**, a landmark partnership between 44 partners, including acclaimed food, veterinary and medical laboratories and institutes across Europe and the Med-Vet-Net Association (2019-2022);
- ✓ The European project **SeaFoodTomorrow** a transdisciplinary action (expertise in animal health, nutrition, toxicology , microbiology and environment) in order to improve the sustainability and safety of aquaculture and seafood (H2020, 2018-21);
- ✓ **The Med-Vet-Net Association**, that includes 21 scientific partners from 14 European countries and promotes the One Health approach to combat zoonoses and antimicrobial resistance (AMR) and supports a healthy and sustainable food supply chain across Europe;
- ✓ Coordination for the drafting of the **EU One Health 2020 EFSA-ECDC Zoonoses Report (2021)**;
- ✓ Coordination of One Health public health research-actions in the framework of the **MediLabSecure Initiative**, to prevent vector-borne diseases by reinforcing an international network of laboratories and public health institutions in 22 beneficiary countries in integrated surveillance of emerging arboviruses (EU DG DEVCO 2014-2022)

Preparedness (WHO, 2016)

WHO defines emergency preparedness as “the knowledge and capacities and organizational systems developed by governments, response and recovery organizations, communities and individuals to effectively **anticipate, respond to, and recover** from the impact of likely, imminent, emerging, or current emergencies”.

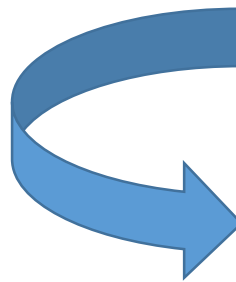
The evidence: Preparedness Gaps

- To enhance **prevention and early detection capacities** to reduce the societal costs of a pandemic
- To identify and contrast **the drivers** of potential epidemic/pandemic
- To consider the **multiplicity of the actors, stakeholders, disciplines and related interests** involved in prevention and preparedness measures
- To ensure **prompt access and sharing of technologies, information and data transparently**
- To identify strategies **to contrast exacerbation of social inequalities** due to pandemic through context-specific risk assessment



The Challenge

The **zoonotic origin** of most emerging pathogens, the crucial **role played by humans** in the over-exploitation of the **environment** and the **complexity of socio-economic drivers** involved in the emergence and spread of epidemics requires a **holistic approach**, which should be designed and implemented in order to improve the effectiveness of prevention and preparedness plans.



One Health is an integrated, unifying approach that aims to sustainably balance and optimize the **health of people, animals and ecosystems**. It recognizes that the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and inter-dependent. The approach mobilizes **multiple sectors, disciplines and communities at varying levels of society** to work together to foster well-being and tackle threats to health and ecosystems, while addressing the collective need for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development.

One Health High Level Expert Panel (OHHLEP)-2021

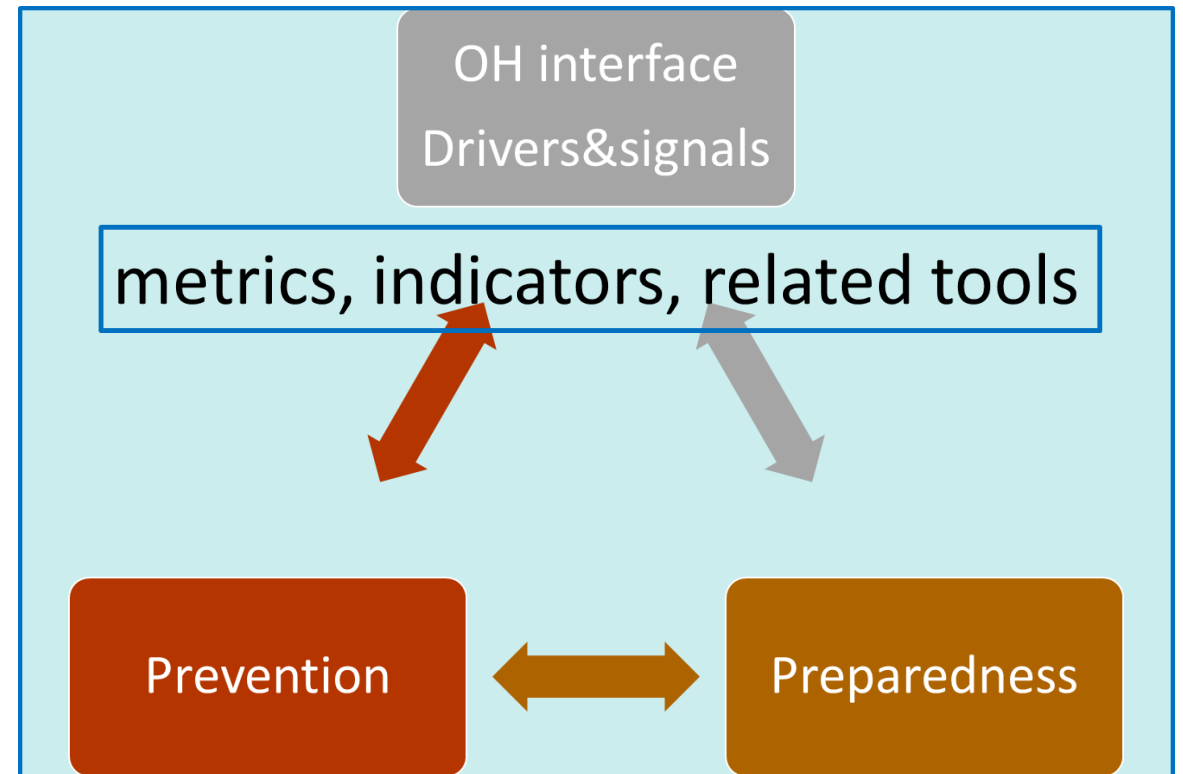
Enhancing One Health integration in Prevention and Preparedness

Mainstreaming of OH approaches in preparedness and prevention plans, making OH an integral part of the whole strategy

Enhancing accordingly



Governance, research, and capacity building



G20/T20 2021 The ISS Policy Brief

- The **G20** or Group of Twenty is an intergovernmental forum comprising 19 countries and the European Union.
- The **Think_Tank20 (T20)** is the official engagement group of the G20, bringing together leading think tanks and research centres worldwide. It serves as the ‘ideas bank’ of the G20 and aims to provide research-based policy recommendations to the G20 leaders.
- The ISS supported the T20 by developing a policy brief for the Task force: Global Health and Covid-19





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The Final Recommendations to the G20-2021 to enhance OH integration

Promote the adoption of a One Health-Based Conceptual Framework for integration of One Health in prevention and preparedness at national level.

International relevant bodies, in coordination with the governments implementing One Health Strategies, should provide guidance and related enforcement mechanisms for:

- a specific One Health governance structure across sectors and disciplines, and for integration of One Health in all relevant national and international plans;
- conducting integrated One Health risk assessment of relevant threats at national and sub-national level; and
- a harmonized cost-effectiveness evaluation framework, with modular options to tailor for local conditions, including ad hoc operational research, to assess and quantify the added value of One Health strategies in the fields of prevention and preparedness.

Promote and support with adequate resources at national level the integration of One Health strategies in relevant curricula and facilitate the development of a common culture of preparedness.

Progress towards these priorities will be discussed at the G20 2022.

Thanks for the attention



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