ONE HEALTH INTELLIGENCE FOR GLOBAL HEALTH SECURITY

Global health security is under increasing threat from emerging infectious diseases and the impacts of environmental change. Intelligence systems must be able to predict, prevent and reduce the risk of ongoing and emerging threats by using an integrated "One Health" (OH) approach to optimize the health of humans, animals, plants and ecosystems. Strengthening global OH intelligence will support the identification and mitigation of risks to global health security. In June 2021, the Group of Seven requested that the Quadripartite alliance of FAO, UNEP, WHO and WOAH (founded as the Office International des Epizooties [OIE]) conduct a One Health Intelligence Scoping Study (OHISS) "to identify potential opportunities for improved technical harmonization of their and other prioritized systems to strengthen One Health intelligence". The OHISS was coordinated by FAO, as the lead agency for the project.

WHAT DID THE PROJECT DO?

The aim of the project was to reduce the risks and harms at the human-animal-ecosystems interface posed by OH threats. The outcome was to strengthen Member States' capacities to detect and react in a timely manner to related events. To achieve this, the project implemented the following activities. An extensive literature review was carried out, which highlighted the broad scope of OH and the need for an OH intelligence system (OHIS) able to adapt to multiple user needs. The project engaged with international experts and stakeholders through advisory group meetings, and individual meetings with relevant OH initiatives and expert groups to collect feedback. A review was conducted of national critical competencies and 'best practice' case studies, incorporating expert workshops, international networks and a survey. An assessment was made of Quadripartite activities and prioritized information systems were selected according to their potential to contribute to OH intelligence. Finally, a hazard identification exercise with the Quadripartite was held to define OH scope and priorities. For the hazards identified, workshops were conducted with international experts to assess the 'risk landscape', identifying and prioritizing multiple potential monitoring points, and highlighting needs for collaboration and risk communication.

KEY FACTS

Latest Approved Budget
USD 1 254 534

Duration
November 2021-October 2022

Resource Partners
Government of the United Kingdom of Great Britain and Northern Ireland, Department of Health and Social Care

Partners
World Organisation for Animal Health (WOAH), World Health Organization (WHO), United Nations Environment Programme (UNEP) World Conservation Monitoring Centre

Beneficiaries
Partners that contribute data and information to global health intelligence and health security; those directly involved in the production of health intelligence, and those who can benefit from the data and applications connected through the global One Health intelligence system

IMPACT

Strengthening global OH intelligence is fundamental to enhancing the ability to identify and mitigate emerging diseases, reducing the impact of endemic and epidemic diseases, and addressing threats to environmental health and food security. The global OHIS will establish a framework to link, strengthen and further develop OH intelligence activities, and will be led by the Quadripartite organizations.

ACTIVITIES

- A systematic literature review screened 2 157 references, with a final full-text retrieval of 349 references.
- Consultation workshops were held to utilize global expertise and experience, and to serve as an external review and validation to planned outputs.
- Two surveys were conducted, involving 25 countries and 28 countries, respectively, to gather information on OH intelligence systems in place, document best practices and compile relevant information.
- An assessment was made of Quadripartite and other OH activities contributing to OH intelligence.
- Hazard categories were identified and workshops held to prioritize data and assess critical monitoring points.
- Requirements for an operational OHIS were defined and the architecture for a global OHIS was developed, along with a roadmap for its implementation.

SUSTAINABLE DEVELOPMENT GOALS

Working together

Happening now

Happening now

Happening today

Project Title
One Health Intelligence Scoping Study

Project Code
FAO: GCP/GLO/1023/UK

Contact
Keith Sumption (Budget Holder)
NSA-Director@fao.org

Partnerships and Outreach
For more information, please contact: Reporting@fao.org

Food and Agriculture Organization of the United Nations
Viale delle Terme di Caracalla
00153 Rome, Italy

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