Member State Briefing

Department of Digital Health and Innovation 5 March 2024

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Topic Overview

- 1. Global Strategy on Digital Health
- 2. Global Initiative on Digital Health
- 3. Global Digital Health Certification Network



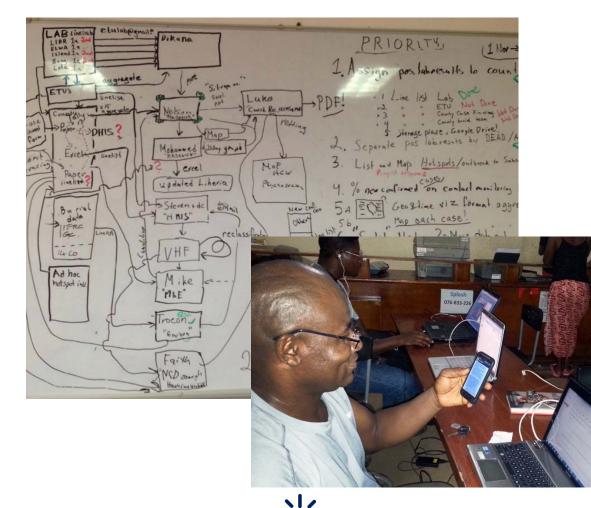
"The future of health depends on how well we power health through science, research, innovation, data, digital technologies, and partnerships."

- WHO Director-General Dr. Tedros Adhanom Ghebreyesus

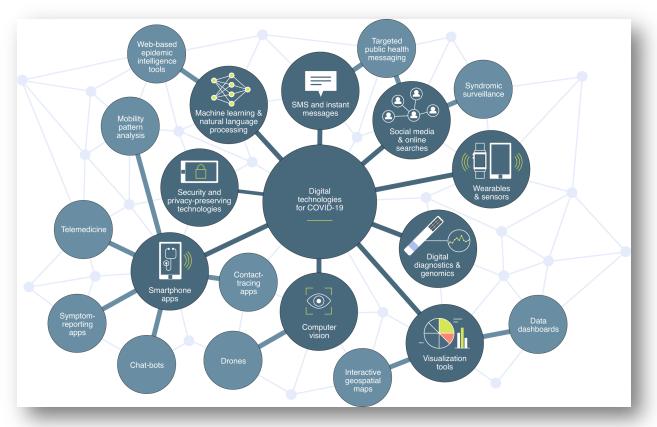




Resilient, future-proof health systems must be digital



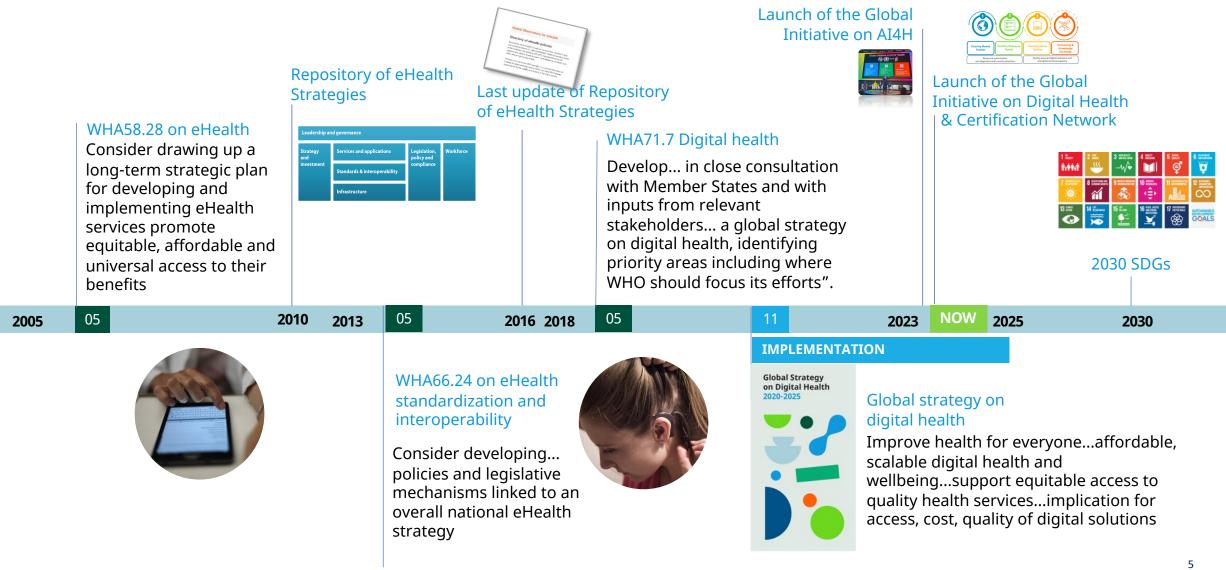
HEALTH FOR ALL Taxonomy of Digital Health Strategies applied during COVID-19





Left and Center picture: Fast, Larissa and Adele Waugaman. 2016. Fighting Ebola with Information: Learning From Data and Information Flows in the West Africa Ebola Response. Washington, DC: USAID. https://www.usaid.gov/sites/default/files/2022-05/FightingEbolaWithInformation.pdf

WHO has been supporting MS's in Digital Health for over two decades



WHO continues to provide norms, standards and technical leadership to countries on "cutting-edge" issues

Examples:

Ethics and Governance of Artificial Intelligence for Health

Ethics and Governance of Large Multi-Modal Models





The **Global Strategy on Digital Health** reflects 194 Member-States call for coordination across WHO, Partners and Countries





Global Digital Health Strategy 2020 – 2025, Strategic Objectives



Promote global collaboration & advance the transfer of knowledge on digital health



Advance the implementation of national digital health strategies



Strengthen governance for digital health at global, regional and national levels



Advocate people-centered health systems that are enabled by digital health World Health Organization **Global strategy** on digital health 2020-2025

The Global Strategy has enabled several flagship activities to support country progress



Supporting National Digital Health Strategies





Measuring Country Maturity and Enabling Environment / Progress



Digital implementation investment guide (DIIG): integrating digital interventions into health programmes ñ

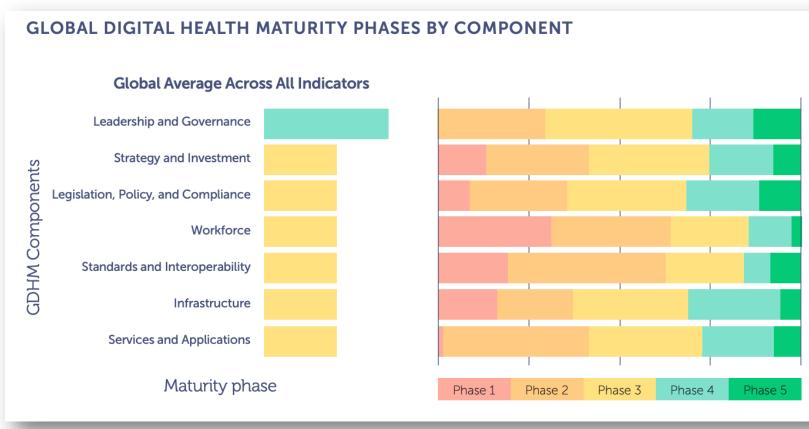
Reduced Fragmentation and Improved Knowledge Sharing



Roadmaps for Digital Transformation Planning and Costing

>120 countries have a DH Strategy, but inequitable global progress

Data available for 67 countries (as of Feb 2024)



GLOBAL DIGITAL HEALTH MONITOR

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Serie Country Pode Ison 11 unions rans Q. Ownit M. V M.	GLOBAL DIGITAL HEALTH MONITOR	World Map Regions - Countries Indicators Me	thedelogy English
Stream Stream<	State of Digital Health around the world today	The Global Digital Health Monitor (DCHW) is an interactive web-based resource that alms to thick, exciting, and assess the enabling environment for digital health throughout the world.	Phase 1.2.3.4
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The WHO Secretariat continues to advance the Global Strategy:

- Mid-term report presented at WHA May 2023.
- Initiatives launched to meet the four strategic objectives.
 - SO1: Global mechanisms on international collaboration in digital health and artificial intelligence established.
 - SO2: Regional Action Frameworks developed or in progress for 5 of 6 WHO regions.
 - SO3: A global mechanism for measuring digital health maturity identified and in transition to WHO.
 - SO4: A global digital health trust architecture established.





SO1. Promote global collaboration & advance the transfer of knowledge on digital health



SO2. Advance the implementation of national digital health strategies



SO3. Strengthen governance for digital health at global, regional and national levels



SO4. Advocate people-centered health systems that are enabled by digital health



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SO1. Promote global collaboration & advance the transfer of knowledge on digital health



SO2. Advance the implementation of national digital health strategies



SO3. Strengthen governance for digital health at global, regional and national levels



SO4. Advocate people-centered health systems that are enabled by digital health



Key Asks to Member States

- 1. Data collection for final report
- 2. Participation at the WSIS Forum
- 3. Strengthening use of the Global Digital Health Monitor
- 4. Refocused attention on the Global Strategy on Digital Health





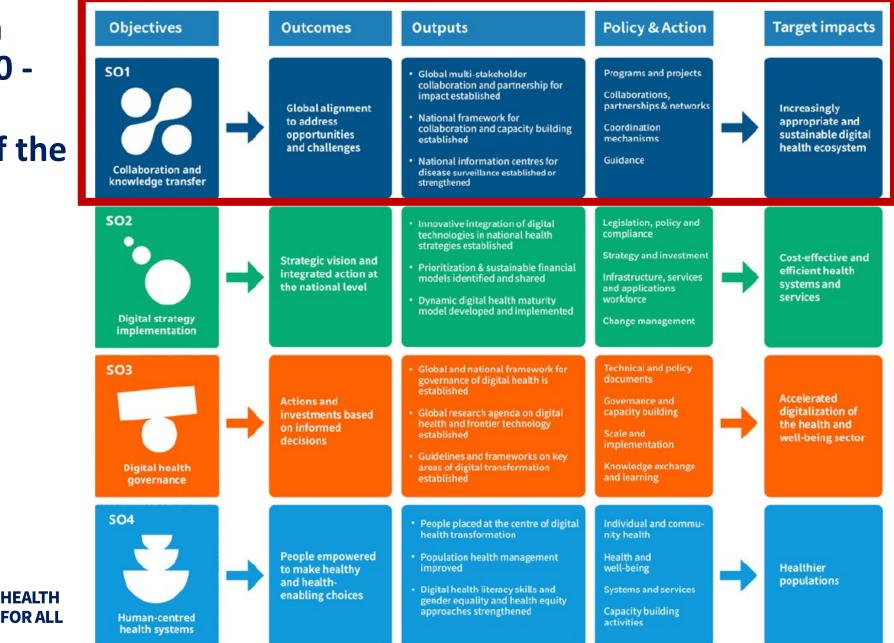
Global Initiative on Digital Health



Global Strategy on Digital Health 2020 -2025 - Summary implementation of the action plan



HEALTH



15 Global Consultations over the course of 2023

FOR ALL



Key Barriers in today's Digital Health Ecosystem

- Many strategies, few costed / action-blueprints
- Lack of governance and policy environment & institutions to shepherd transformation
- Lack of interoperability architecture & standards
- Inadequate human capacity
- Donor discordance and funding misalignment
- Inconsistent quality assurance of digital public goods (DPGs)
- Lack of platforms to engage entrepreneurs and promote LOCAL PRODUCTION





Sources:

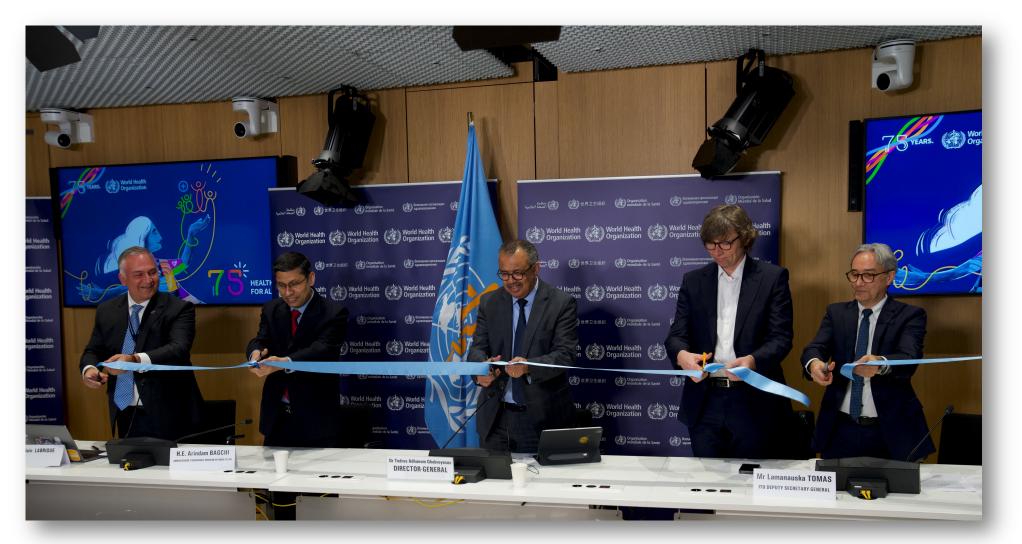
- Landscape Analysis of Digital Health Learning Networks in Africa. PATH. February 2016. https://www.path.org/resources/landscape-analysis-of-digital-health-learning-networks-in-africa/
- About Digital Health. Digital Health Hubs. February 2021. <u>https://aboutdigitalhealth.com/2021/02/04/digital-health-hubs/#:~:text=The%20top%20digital%20health%20organizations%2C%20alliances%2C%20societes%20and,for%20Telemedicine%20and%20eHealth%20%28ISFTeH%29%206%20Frontiers%20Health
 </u>

DPGA members: GDHP March 2023 G20 Coordination Work Group Meeting. Presentation by Steve Posnack GDHP Chair
 and Deputy National Coordinator, Office of the National Coordinator for Health I



One key message: Countries are asking for COORDINATED SUPPORT to strengthen foundations to facilitate the shift from digital experimentation to digital transformation.

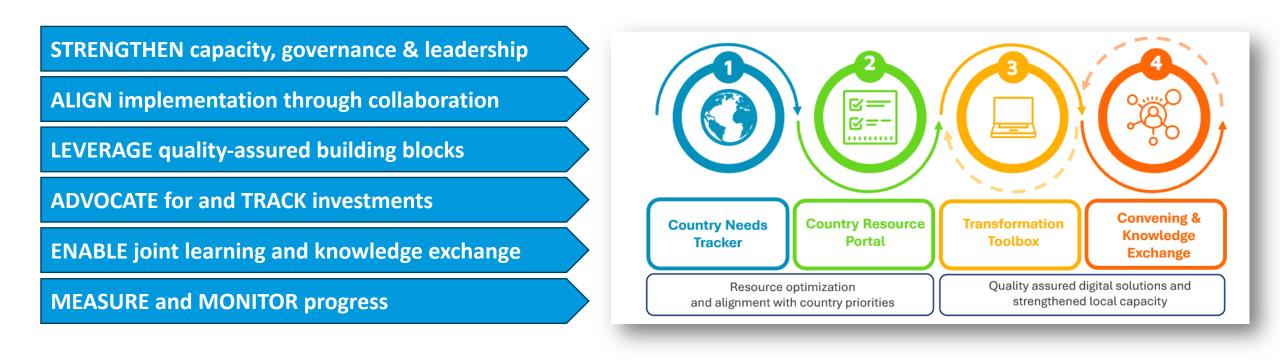
53	Leadership ar	nd governance		
	Strategy and	Services and applications	Legislation, policy and	Workforce
Z	investment	Standards & interoperability	compliance	
		Infrastructure		



Launch of the Global Initiative on Digital Health 20 February 2024



GLOBAL INITIATIVE ON DIGITAL HEALTH





GIDH Principles: A partnership for country-centred digital health transformation



GIDH Theory of Change



COUNTRIES COMMIT TO:	THROUGH WHO SUPPORT ON:	ACCELERATED BY GIDH NETWORK THROUGH:	TO ACHIEVE COUNTRY RESULTS THAT:
 LEADING national stakeholders Creating an ENABLING environment PROMOTING alignment 	 CONVENING stakeholders ADVANCING standards, guidelines, content, and quality assured tools COMPETENCIES and TRAINING 	 GLOBAL Enhanced INVESTMENT TRACKING (e.g. OECD DAK DH) CHAMPIONING country leadership ADVOCACY for resource gaps KNOWLEDGE exchange UN AGENCY coordination REGIONAL NETWORK federation 	 Increase PARTNER ALIGNMENT & INVESTMENT EMPOWER use of standards and quality assured building blocks Strengthen INTEROPERABILITY
	 REPOSITORIES of strategies, blueprints BASELINE MATURITY assessment & mapping 	 COUNTRY Jointly MAPPING & RESOURCING country needs ROADMAP development & implementation Thematic WORKING GROUPS 	 Build LOCAL CAPACITY Ensure RETURN ON INVESTMENTS Control FRAGMENTATION

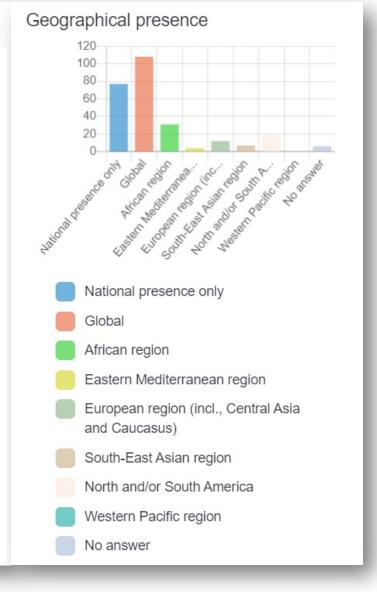
GIDH Membership

- Opened 20 Feb 2024
- 740+ applications received so far
- Institutions registered in 76 countries from all 6 WHO regions
- Institutional membership only





GIBAL INITIATIVE ON DIGITAL HEAL



Source. GIDH. Membership applications as of 29 February 2024

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GIDH Operational Highlights in 2024

- **1. G20 2nd HWG Meeting and Partner Event:** Improving Metrics for Digital Transformation Resources (with OECD, World Bank, others), April 2024.
- 2. Country Engagement Activities, March-December 2024.
- 3. Stakeholder Convenings and Priority Mapping, March December 2024.
- 4. UN Partners (ITU, Unicef, UNDP, WHO, others) Coordination Commitment: May 2024
- 5. Toolbox solutions launched for country use, April-June 2024.
- 6. First Secretariat and Steering Committee in-person meeting, 23 May 2024.
- GIDH 1st Global Digital Health Convening during WSIS+ 20 High Level event in Geneva. Exact dates to be confirmed.
- 8. Early-December: Report of the State of Digital Health 2024 published.





Key Asks for Member States

- **1. Lighthouse country application:** Updates coming on GIDH webpage in mid-2024.
- 2. Identify a representative to join the WSIS 2024 meetings in Geneva.
- **3. Support sensitization of GIDH** to Ministries of Health. Materials will be made available on GIDH webpage:
 - Promotional video
 - Recording of 20 February kick-off



The Global Initiative on Digital Health (GIDH) is a WHO managed network of stakeholders organized to facilitate the implementation of the Global Strategy on Digit 2020-2025 and other WHO norms and standards for Digital Health System Transformation. The Initiative will serve as a platform to enable a wide global ecosystem collectively to promote country capacity and strengthen international cooperation in digital health.



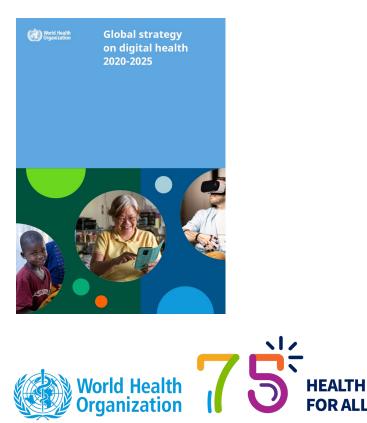
DISCUSSION (~20 min)

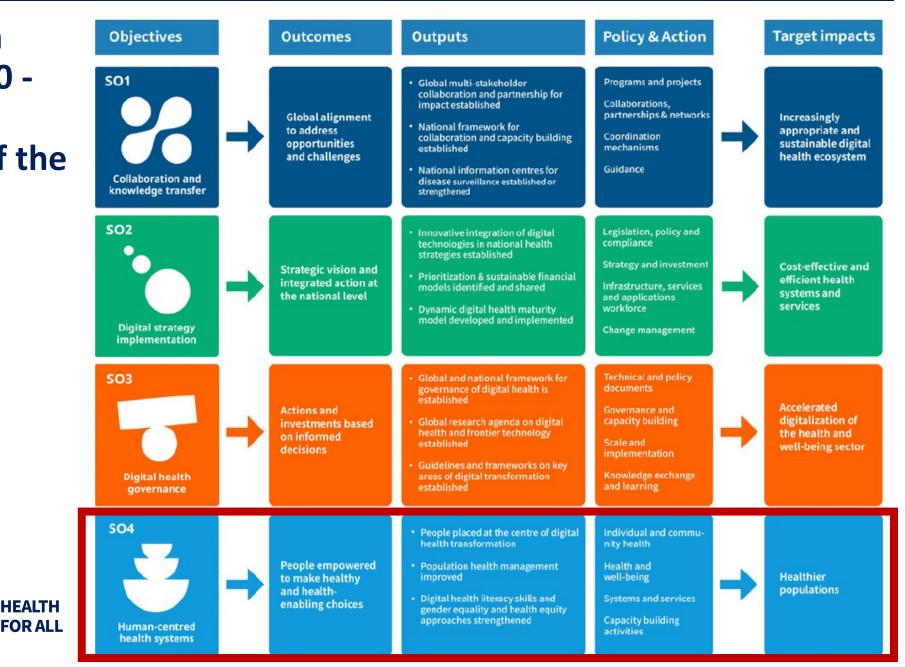


Global Digital Health Certification Network



Global Strategy on Digital Health 2020 -2025 - Summary implementation of the action plan





The Global Digital Health Certification Network (GDHCN)

- A global mechanism that supports bilateral verification of the provenance of health documents for pandemic preparedness and continuity of care.
- Digital Public Infrastructure
- Enables sharing (across/within borders) of:
 - Immunization records
 - Electronic "yellow card"
 - Patient Summary
- Other high-value use-cases
 - Cross border telemedicine, e-prescriptions
 - Health worker credentials



20, AVENUE APPIA – CH-1211 GENEVA 27 – SWITZERLAND – TEL CENTRAL +41 22 791 2111 – FAX CENTRAL +41 22 791 3111 – WWW.WHO.INT

Ref.: C.L.38.2023

Participation in the Global Digital Health Certification Network (GDHNC)

The Director-General of the World Health Organization (WHO) presents his compliments to Member States and Associate Members and has the honour to invite them to join the Global Digital Health Certification Network (GDHCN). The GDHCN is a building block of digital public health infrastructure designed to strengthen pandemic preparedness and to deliver better health for all by supporting bilateral verification of the provenance of digital health documents while preserving the privacy of individuals.

The GDHCN has been established in line with the Global strategy on digital health 2020–2025 and WHA resolutions,¹ as an enabling mechanism for the appropriate use of digital health tools to achieve global, regional, and national health goals through an open, interoperable, and standards-compliant digital infrastructure. GDHCN does not enable WHO to have access to any individual's health information as the GDHCN does not process any personal data concerning individuals.

During the COVID-19 pandemic, one of the key tools used by many Member States in reopening economies was the use of verifiable digital COVID-19 test and vaccine certificates. Building upon the guidance published by WHO as well as the experience of regional networks for COVID-19 Certificates, WHO launched the GDHCN in June 2023 for use with verifiable Digital COVID-19 Certificates.

Member States are invited to participate in the GDHCN by identifying a nominated public health authority who has the mandate to decide on behalf of the Member State and Associate Members, whether to participate in the GDHCN by 31 October 2023; and formally submit a letter of application. Further information on the application process can be obtained by contacting the GDHCN Secretariat at tng-secretariat@who.int or through the GDHCN website under Resources:

https://www.who.int/initiatives/global-digital-health-certification-network.

The Director-General of the World Health Organization takes this opportunity to renew to Member States and Associate Members the assurance of his highest consideration.

GENEVA, 27 September 2023



As of February 28, over 70 countries are participating in the network

Western Pacific Region

1	Bahamas	

Region of the Americas

- 2. Bolivia
- 3. Belize
- 4. Brazil
- 5. Canada
- 6. Chile
- 7. Ecuador
- 8. Honduras
- 9. Paraguay
- 10. Suriname
- 11. Uruguay
- 12. El Salvador
- 13. Panama
- 14. Guatemala
- 15. Argentina
- 16. Colombia
- 17. Costa Rica
- 18. Peru
- **19. British Virgin Islands**

	Af	rio	car	n R	eg	ior	

1. Benin

- 2. Zimbabwe
- 3. Madagascar
- 4. Burkina Faso
- 5. Tanzania
- 6. Burundi

Region

- 7. Togo
- Eastern Mediterranean
- 1. Morocco
 - Irag
- 3. Qatar
- . . .

2.

- **X** = In progress. Currently going through technical preparation, testing and/or pending Letter of Application
- **X** = Onboarding completed. Testing completed and Letter of Application received.

1. New Zealand
2. Singapore
3. Japan
4. Australia
5. Mongolia
6. Malaysia
South East Asia Region
1. Indonesia

2. Thailand 3. Sri Lanka

Belgium 1. 2. Croatia 3. **Czech Republic** Cyprus 4. 5. Estonia 6. Finland France 7. 8. Greece 9. Israel 10. Latvia Lithuania 11. Malta 12. Netherlands 13. San Marino 14.

European Region

- 15. Slovakia
- 16. Spain
- 17. Sweden
- 18. Ukraine
- 19. United Kingdom
- 20. Iceland
- 21. Slovenia

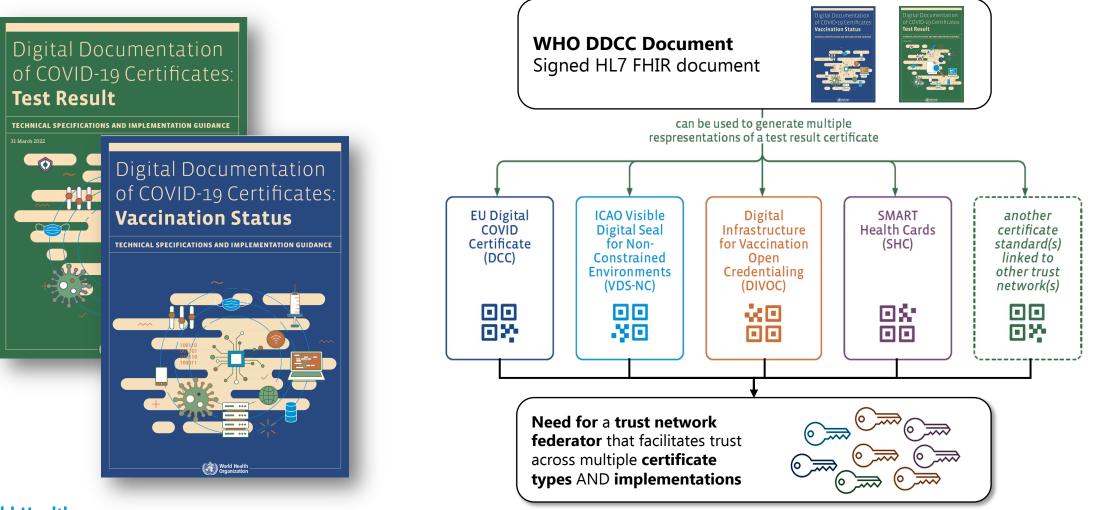
22. Portugal 23. Georgia

- 24. Poland
- 25. Kyrgyzstan
- 26. Faroe Islands
- 27. Montenegro
- 28. Ireland
- 29. Andorra
- 30. Monaco
- 31. Türkiye
- 32. North Macedonia
- 33. Moldova
- 34. Armenia
- 35. Albania



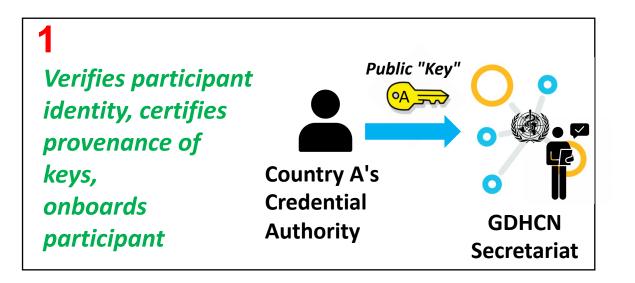


The GDHCN was developed out of necessity during the Pandemic



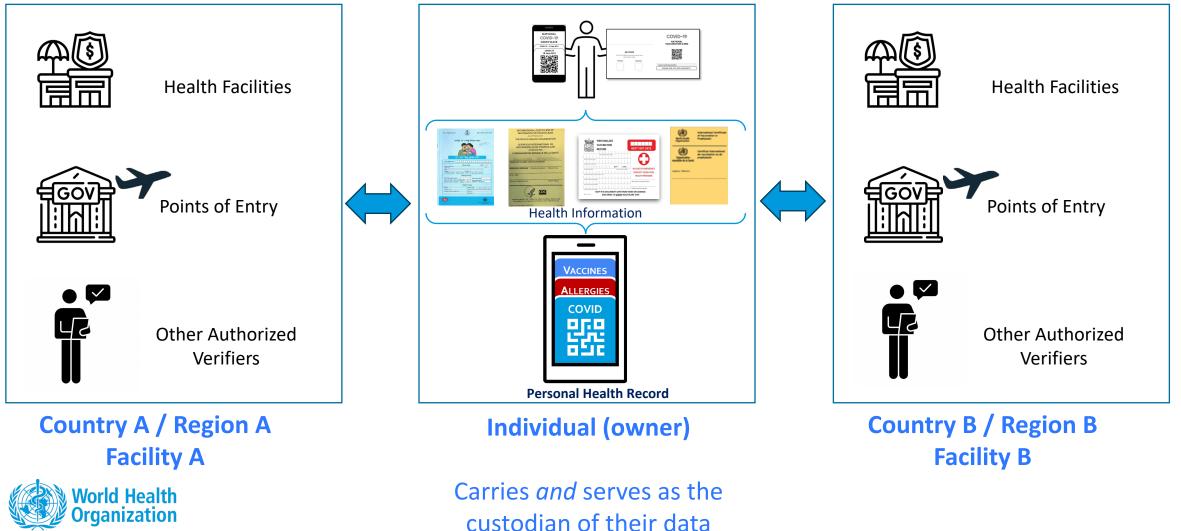


WHO's role as the GDHCN Secretariat – a "public key" directory



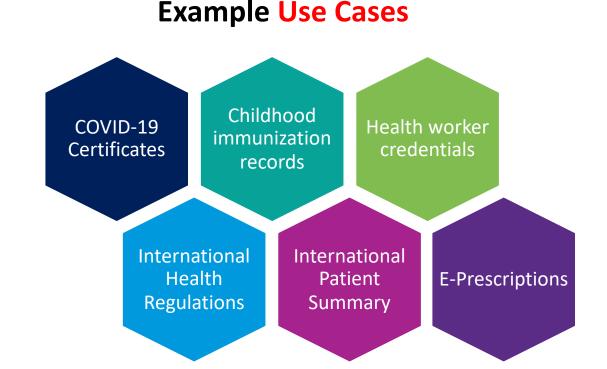


GDHCN supports person-mediated carriage of **their own health information** between members of the network.



There are multiple use-cases for the GDHCN beyond pandemic resilience that support person-centered needs.

- Each use case will be defined by:
 - Content **specifications**
 - Standardized **policies and processes**
 - Trusted services related to issuance, verification, revocation, and management of health certificates and documents related to that use case





Example use case: The International Patient Summary



- Continuity of Care for People
 - Vaccination records
 - Routine Clinical Care
- Public health security
 - COVID-19 Certificates
 - IHR Yellow book / ICVP
- Travel
 - Cross-border and domestic movement
 - Pilgrimages and mass gatherings
 - Medical tourism
- Migration
 - Forced migration due to climate change
 - Failed states & Conflict



Process to join the Global Digital Health Certification Network

Template Letter of Application for GDHCN Eligible Participants using the Full Onboarding Process

to join WHO's Global Digital Health Certification Network for the Digital Documentation of COVID-19 Certificate (DDCC) Trust Domain

WHO Global Digital Health Certification Network (GDHCN) Secretariat World Health Organization Digital Health and Innovation Avenue <u>Appia</u> 20 1211 Geneva Switzerland

Re: Application to join the WHO GDHCN [for Covid-19 Certificates]

With the recognition that:

- WHO has established a freely available global certification system for GDHCN Eligible Participants, the WHO Global Digital Health Certification Network (GDHCN);
- WHO will not store, process, transmit or otherwise have access to personal data (including COVID-19 Certificate Revocation lists) through the operation of the GDHCN.

As a duly authorized representative of the GDHCN Eligible Participant indicated below, I hereby confirm the will and intent of that GDHCN Eligible Participant to participate in and join the GDHCN for Digital Documentation of COVID-19 Certificates, and its readiness and intent to:

- comply with Ethical principles and data protection principles outlined in Section 2 of: <u>https://www.who.int/publications/i/item/WHO-2019-nCoV-Digital_certificates-vaccination-2021.1;</u>
- comply with the standards, security requirements, technological systems and process described in the FRAMEWORK FOR THE ADMINISTRATION AND OPERATIONS OF THE GLOBAL DIGITAL HEALTH CERTIFICATION NETWORK, which may be found here: https://smart.who.int/smart-trust/GDHCN Administrative_and_Operational_Framework.pdf
- follow the Full Onboarding Process, which may be found at: https://smart.who.int/smart-trust/concepts_onboarding.html;
- ensure that COVID-19 certificates issued can be verified for their authenticity, validity and integrity utilizing the WHO GDHCN; and
- provide to WHO all additional information, feedback and organizational support, as needed and requested by WHO, to ensure successful connection to and utilization of the GDHCN.

http://smart.who.int/trust



WHO SMART Trust

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This page is part of the Trust (v1.0.0: Release) based on FHIR (HL7® FHIR® Standard) R4. This is the current published version. For a full list of available versions, see the Directory of published versions

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Official URL: http://smart.who.int/trust/ImplementationGuide/smart.who.int.trust	Version: 1.0.0
Active as of 2024-01-26	<i>Computable Name</i> : trust

1.1 Introduction

1.1.1 Overview

This guide describes the specifications and on-boarding procedures for WHO's Global Digital Health Certification Network (GDHCN). The GDHCN is a mechanism to support verification of health documents and certifications that are exchanged between participants of the GDHCN. These health certifications may include COVID-19 certificates, routine immunization cards, and home-based records consistent with International Patient Summary standards. This mechanism provides means of harmonizing global health protocol standards and establishing a system for recognition of digital certificates for continuity of care at point of entry. The GDHCN is designed to leverage existing investments by jurisdictions that



were made under the COVID-19 response and provide the digital health infrastructure needed for resiliency in future epidemic and pandemic responses.

The GDHCN is a digital reflection of the trust WHO already has with Member States. The GDHCN is a digital trust network is based on proven concepts which are used to describe the specifications and mechanisms for establishing trust. Eligible participants of the trust network may apply to join by following an on-boarding process. The GDHCN is operated under the GDHCN Administrative and Operational Framework.



GDHCN Key Links & Resources

Overview of the Global Digital Health Certification Network	
https://www.who.int/initiatives/global-digital-health-certification-network	
Onboarding process	
https://smart.who.int/smart-trust/concepts_onboarding.html	
Press release announcing the launch of the GDHCN and collaboration with the European Commission	
https://www.who.int/news/item/05-06-2023-the-european-commission-and-who-launch-landmark-digita initiative-to-strengthen-global-health-security	-health-
Secretariat email for onboarding	
ing-secretariat@who.int	
Secretariat email for technical support questions	
ing-support@who.int	
Technical specifications	
https://worldhealthorganization.github.io/smart-trust/index.html	



Key Asks for Member States

- 1. Apply to onboard to the GDHCN
- 2. Support increased regional engagement GDHCN
- 3. Propose new domestic and cross-border use-cases
- 4. Participate in governance of use cases
- 5. Support with public advocacy and civil engagement to build trust in person-centered digital systems
- 6. Advocate for adequate resourcing to maintain and manage GDHCN at all levels





DISCUSSION (~20 min)



Supporting countries to amplify use of existing best practices, accelerating **ACHIEVEMENT OF NATIONAL PRIORITIES**



e Global Initiative on Digital Health (GIDH) is a WHO managed network of stakeholders organized to facilitate the implementation of the Global Strategy on Digital Health 20-2023 and other WHO norms and standards for Digital Health System Transformation. The Initiative will serve as a platform to enable a wide global ecosystem to work letrowy to gromotex country capacity and strengthen international cooperation in digital health.

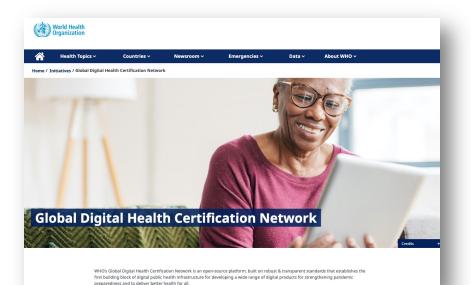
WHO GIDH WEBSITE



World Health 75



Strengthening Global Digital Public Infrastructure for **PREPAREDNESS** and to **FACILITATE CROSS-BORDER** collaboration



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WHO GDHCN WEBSITE



World Health Organization Global strategy on digital health 2020-2025

Thank you

Digital health should be an integral part of health priorities and benefit people in a way that is ethical, safe, secure, reliable, equitable and sustainable. It should be developed with principles of transparency, accessibility, scalability, replicability, interoperability, privacy, security and confidentiality.

