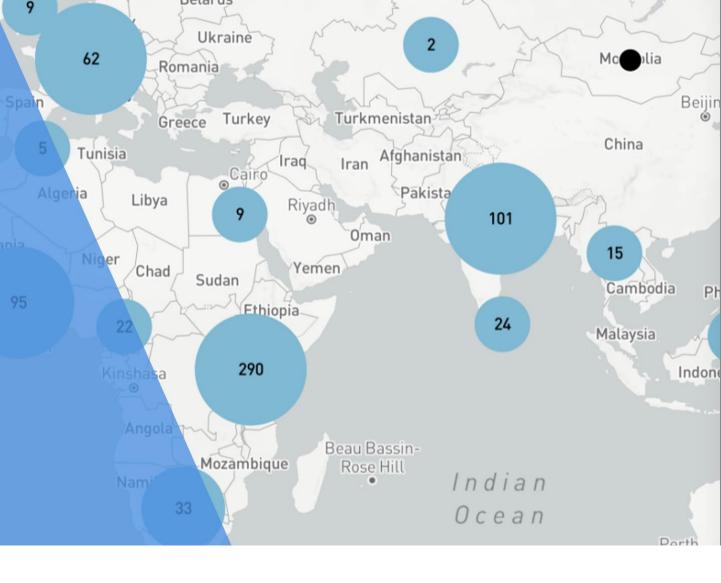
IMPLEMENTOME

Une plateforme de gestion de connaissance pour l'implémentation de solutions de santé numérique

Mirana Randriambelonoro

Paraguay

Rio de Janeiro





Geneva Digital Health Hub









Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Swiss Agency for Development and Cooperation SDC

Outline

- Context and background
- 2 Promises and challenges of digital health
- 3 gdhub (Geneva Digital Health Hub)
- 4 Implementome

Smartphone



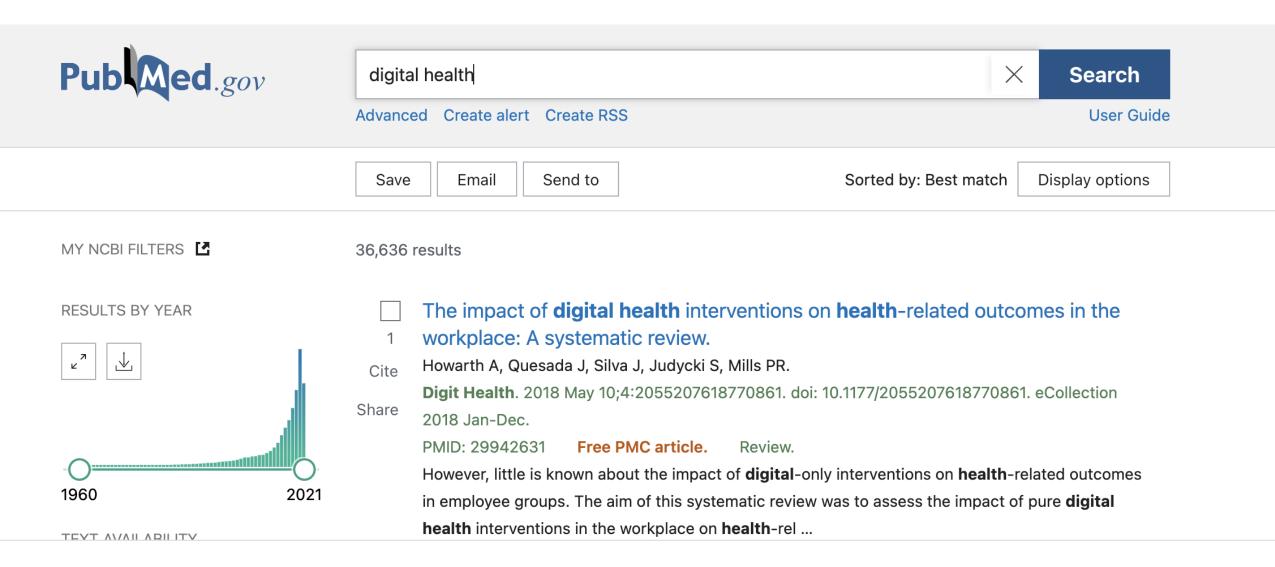
88%

of the time next to us





Digital health



Innovation in health is an imperative

new processes



new professions in the digital age



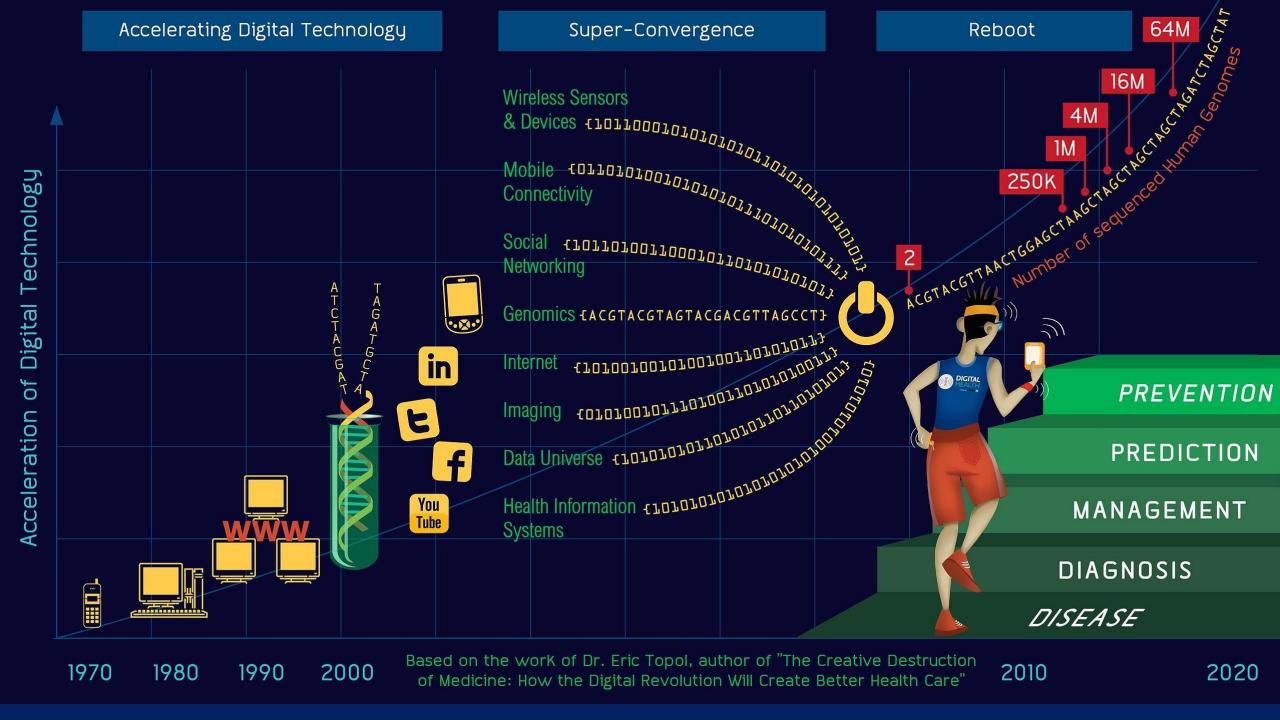


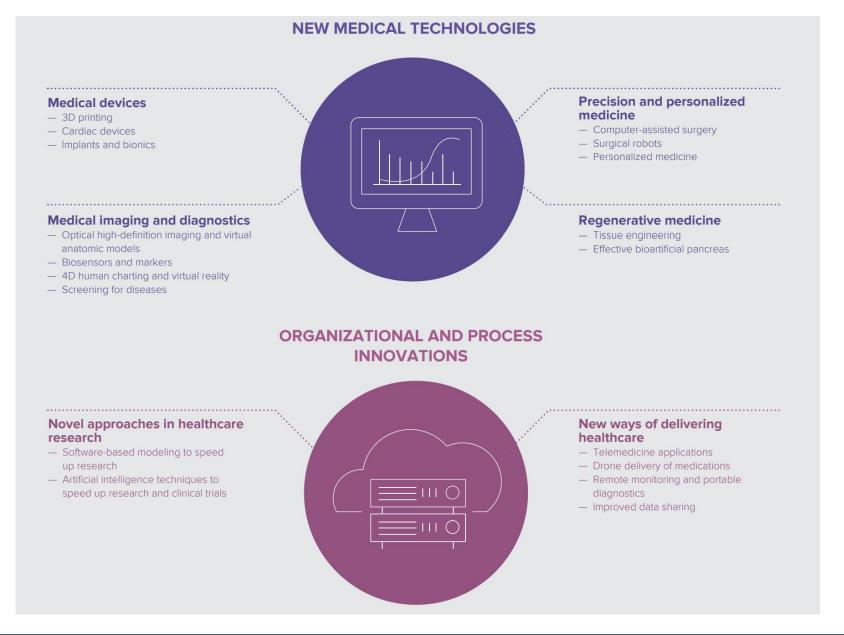


PATIENT PATIENT VOY

new expectations from patients and their families







Promising fields for medical innovation and technologies



The Promise of Digital Health: transform healthcare



Empowerment

Patients

Health providers

Governments



Access

Greater access to care



Cost

Reduced cost



Quality

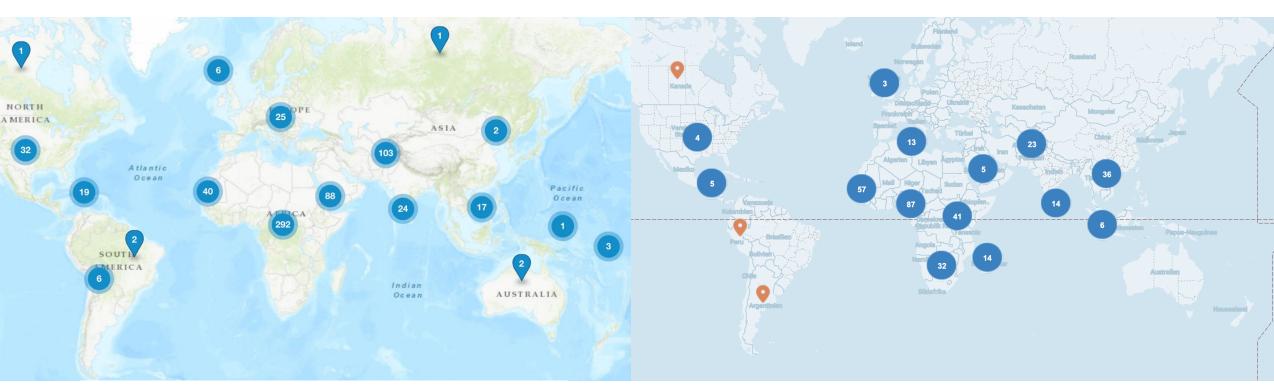
Better quality care



Outcomes

Improved outcomes through better diagnosis and treatment

What is the status of global digital health?





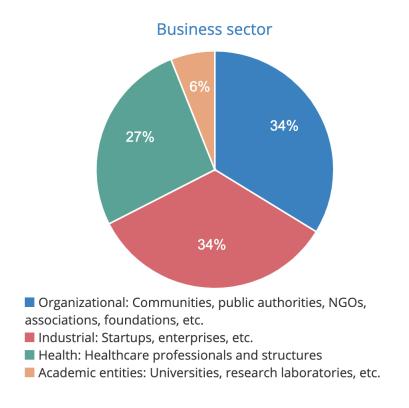




Ecosystem & Stakeholders

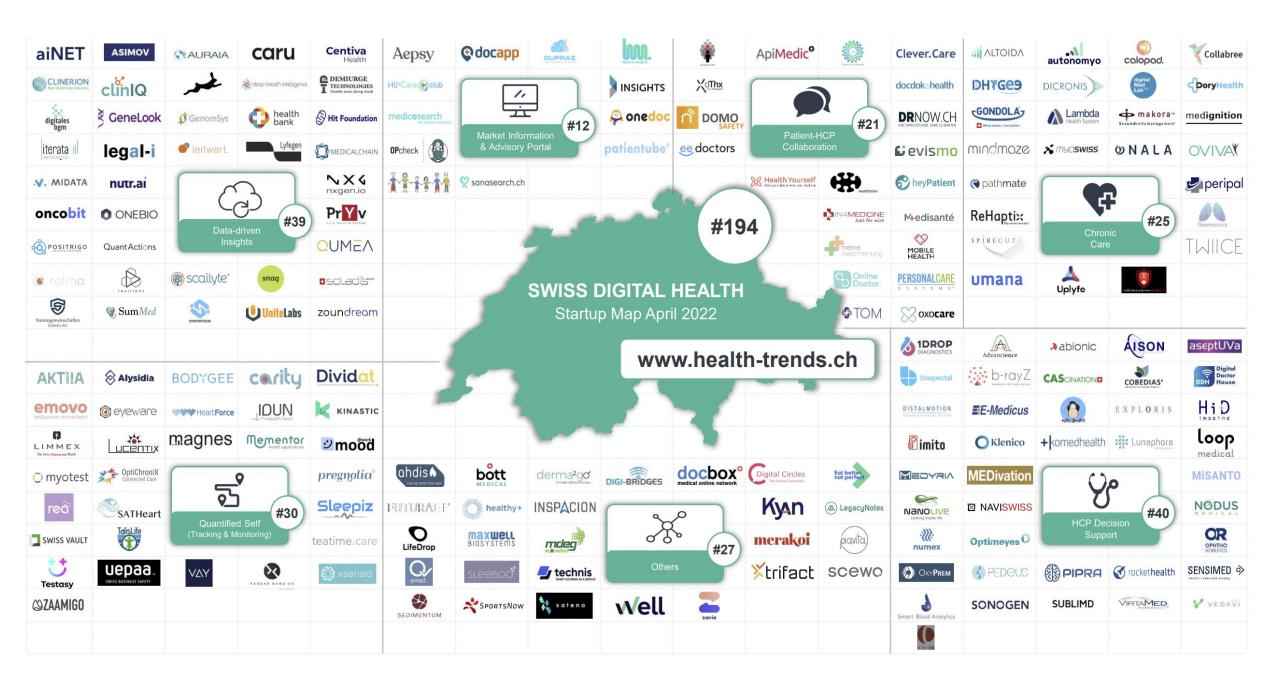


The private sector is playing a major role in the digital health space in LMIC countries





Start-ups are using mobile and frontier technologies to profoundly transform health systems



Digital transformation in Healthcare is complex and very challenging!

Fragmentation

and a Landscape defined by pilotitis

Lack of best practices

and access to up-to-date data on past and recent implementations

High failure rate

in digital health projects

Scarcity

of qualified resources that understand both healthcare and IT Domains

Cybersecurity, Data privacy, Trust

concerns and issues

Ethics and Equity

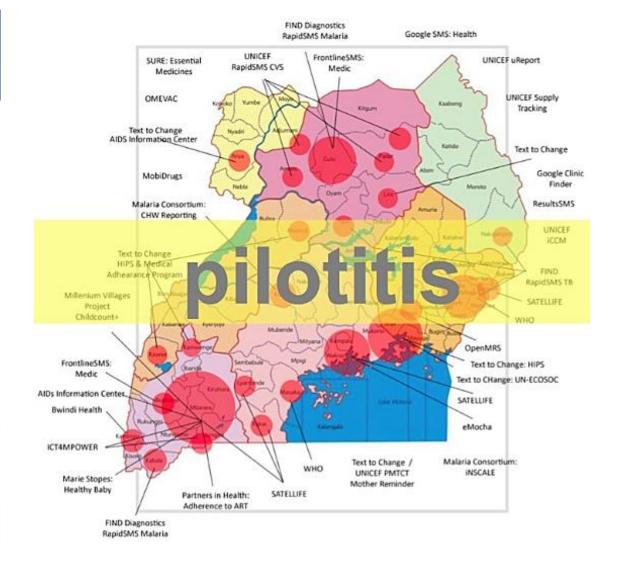
concerns and issues

Pilots always work and never scale

Uganda pilots in 2012

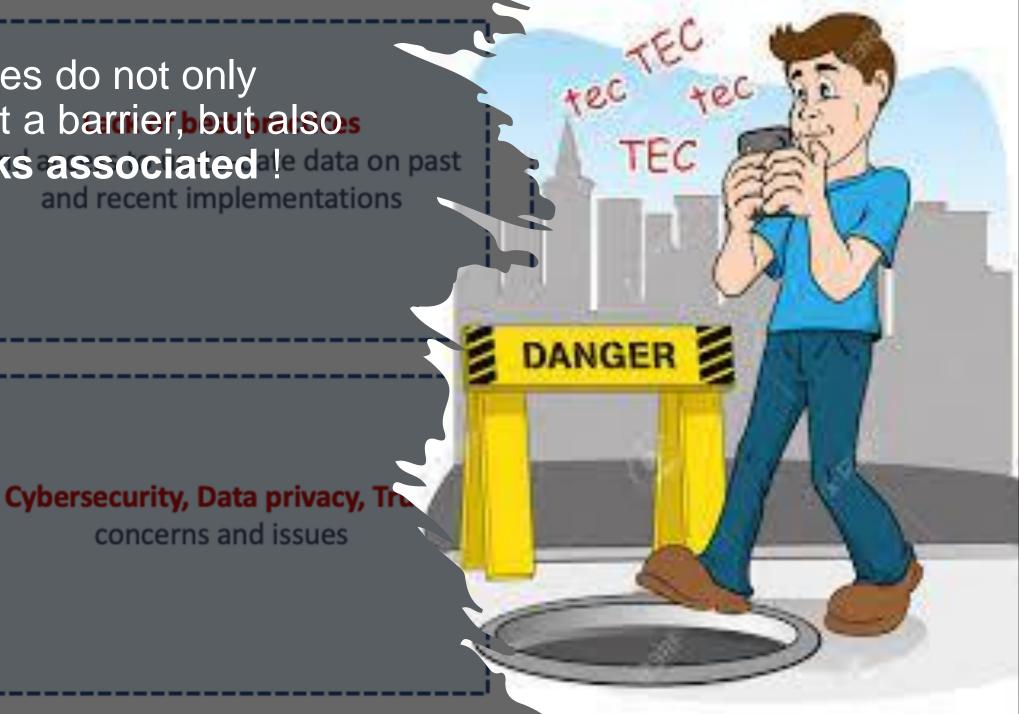
https://www.ictworks.org/ugandanmhealth-moratorium-good-thing

Huang, F., Blaschke, S. & Lucas, H. Beyond pilotitis: taking digital health interventions to the national level in China and Uganda. *Global Health* **13**, 49 (2017). https://doi.org/10.1186/s12992-017-0275-z



Challenges do not only represent a barrier, but also by pilothave risks associated le data on past and recent implementations

understand Domains



gdhub

Geneva Digital Health Hub

Partners





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Connecting the dots

Digital Health has the potential to significantly improve population health globally but faces challenges in achieving scale. Leveraging on the international Geneva, and assisted by advanced data analytics and knowledge management tools, the **gdhub** aims at translating guidelines and policies into actionable insights, and to document and federate knowledge and stakeholders active in global digital health to connect the dots for effective coordination, governance, collaboration and ultimately impact.



Lessons learnt from COVID



The Lancet Regional Health - Europe

1

Volume 9, October 2021, 100221

Series Health Policy

Multi-country collaboration in responding to global infectious disease threats: lessons for Europe from the COVID-19 pandemic

Mark Jit ^{a, b} △ ☑, Aparna Ananthakrishnan ^{c*}, Martin McKee ^{d*}, Olivier J. Wouters ^{e, *}, Philippe Beutels ^{f, g*}, Yot Teerawattananon ^{c, h*}

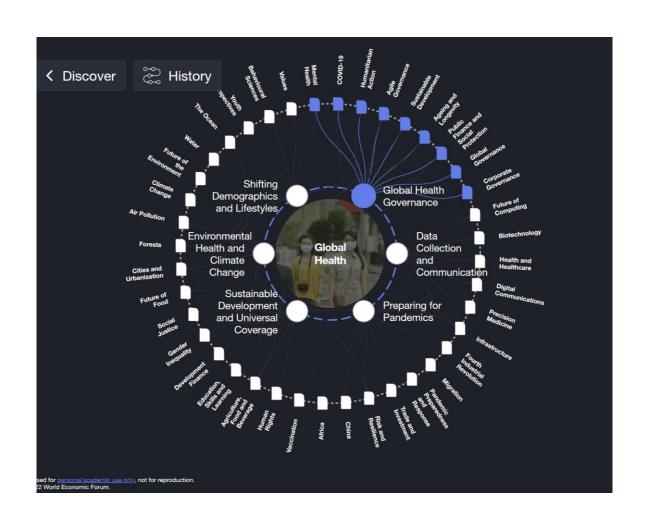
Show more V

+ Add to Mendeley & Share 55 Cite

Table 1. Scorecard showing global successes and shortcomings in the multilateral response to the COVID-19 pandemic.

Domain	Successes	Shortcomings
Research collaboration and information sharing	 Sharing of information by researchers International research collaborations Public data repositories 	slow to learn policy lessons from elsewhere
		 Lack of systemic global research governance Duplication of research studies

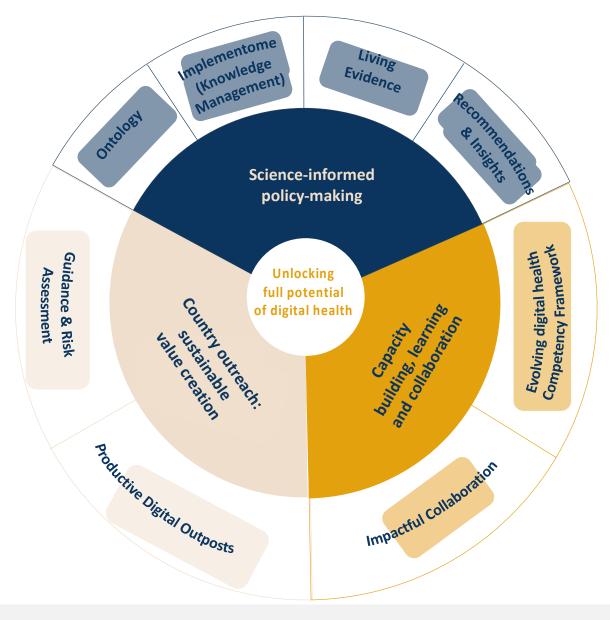
Importance of collaboration



New ways of improving global health are emerging thanks to partnerships and sharing of data and knowledge

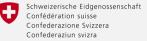
e.g: HUG











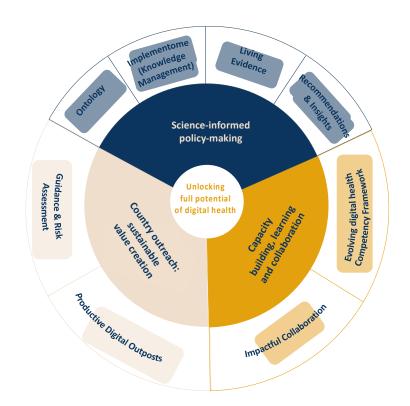
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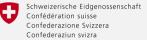




Science-informed policymaking

Enabling science-based policy and decision making that facilitates the development of global policies and norms for responsible digital health implementations based on advanced knowledge management approaches.



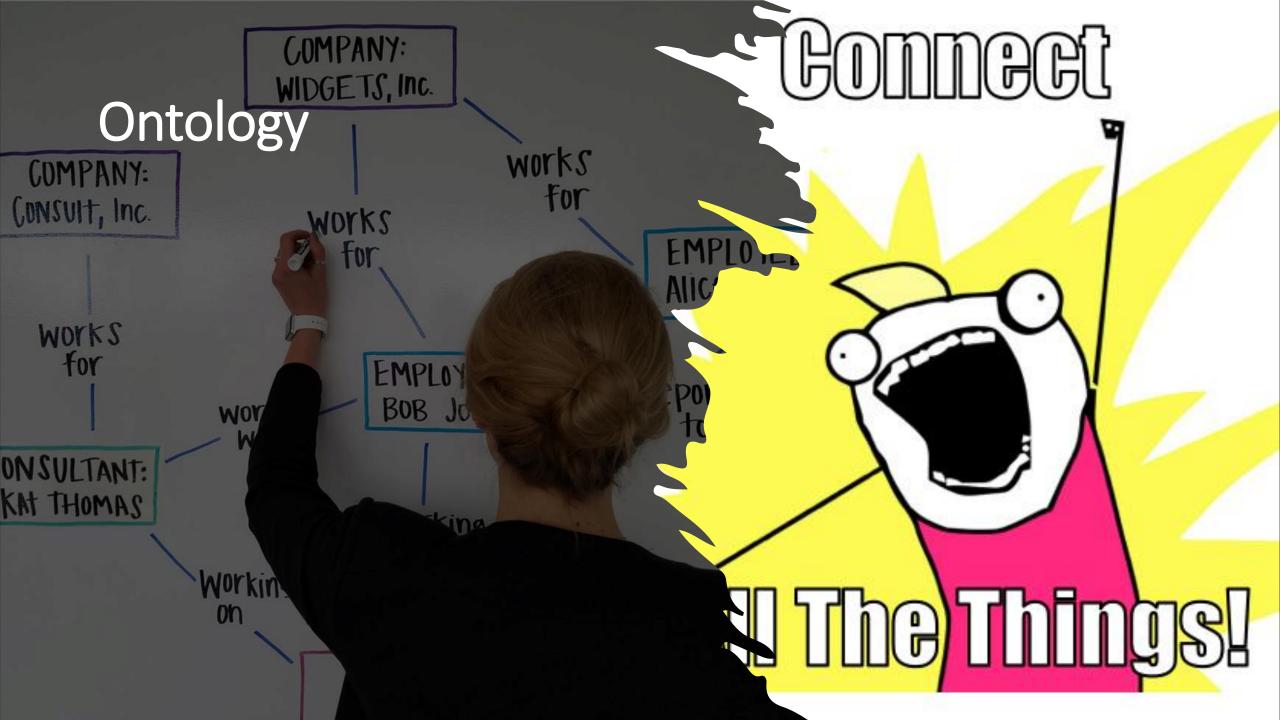


and Cooperation SDC

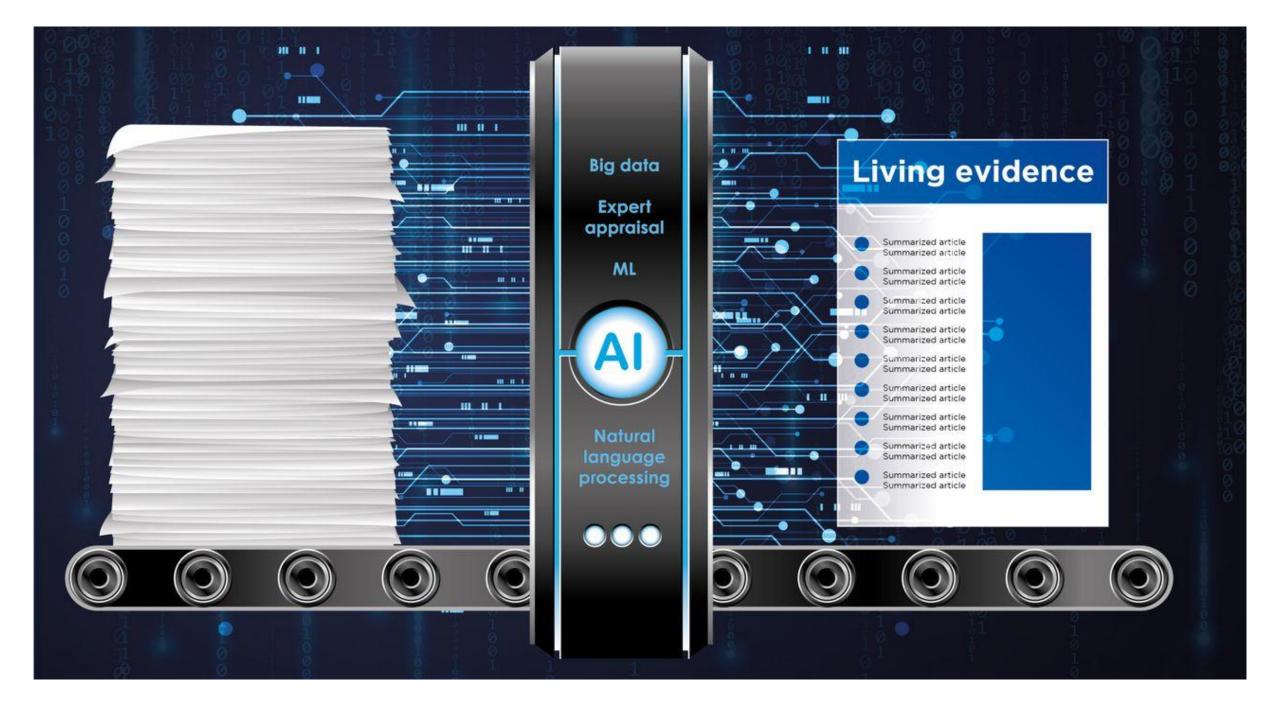


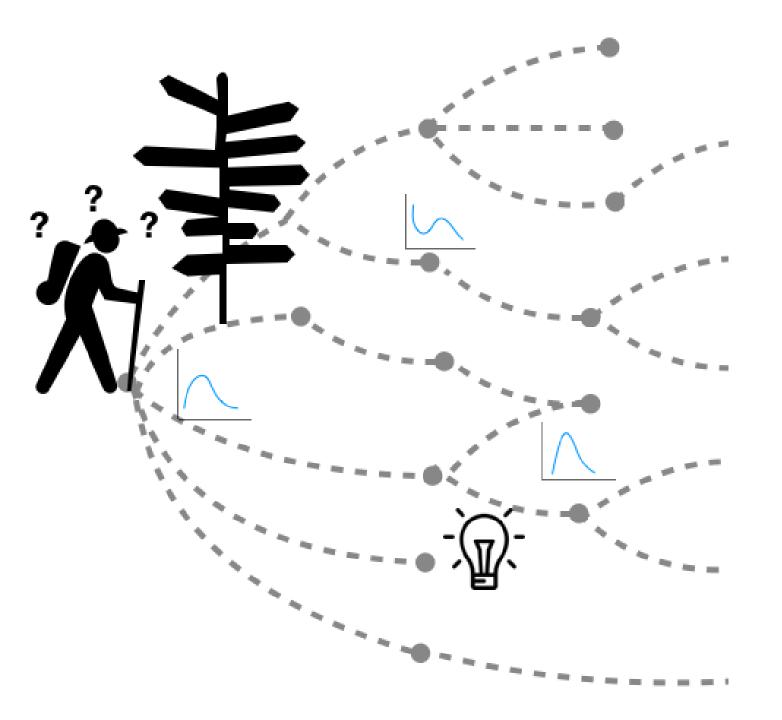








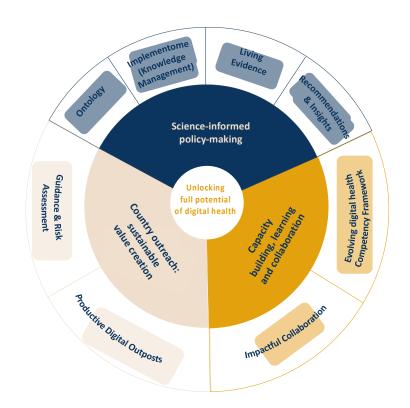




Recommendations & Insights

- Implementation Reporting
- Assessing the Role of Telemedicine in providing equitable access to care
- Responsible Digital Health (sustainable and environmental)



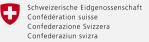




Capacity building, learning and collaboration

Fostering active learning and collaboration to improve institutional capacities and cooperation to support responsible digital health development and implementation and reduce fragmentation of efforts.





and Cooperation SDC

























Knowledge Exchange Promoter











Communities of practice

Communities of Practice connect people in meaningful ways,

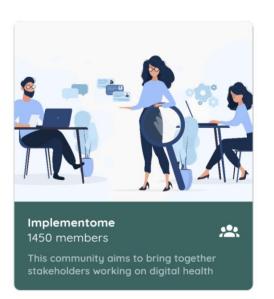
to learn and share

in a particular domain area,

to build everyone's knowledge and capabilities, so that

Individually, we are better at what we do, Collectively we achieve much greater impact

Communities of practice







E-decision support



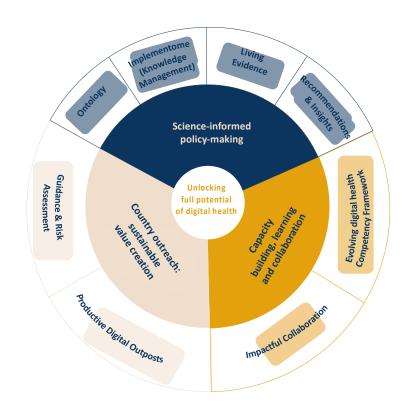
Telemedicine



Space and global health

. .



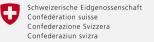




Country outreach: sustainable value creation

Advancing sustainable value creation through strengthened national and subnational digital health ecosystems that embed global norms and best practices.

















Digital Outposts

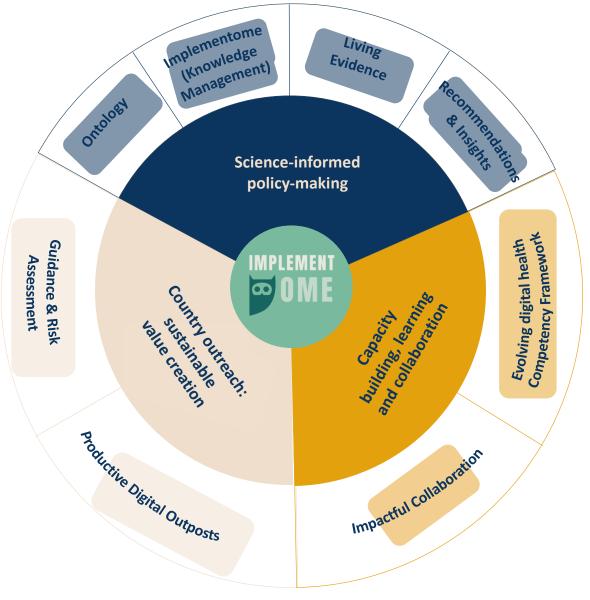






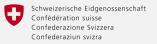












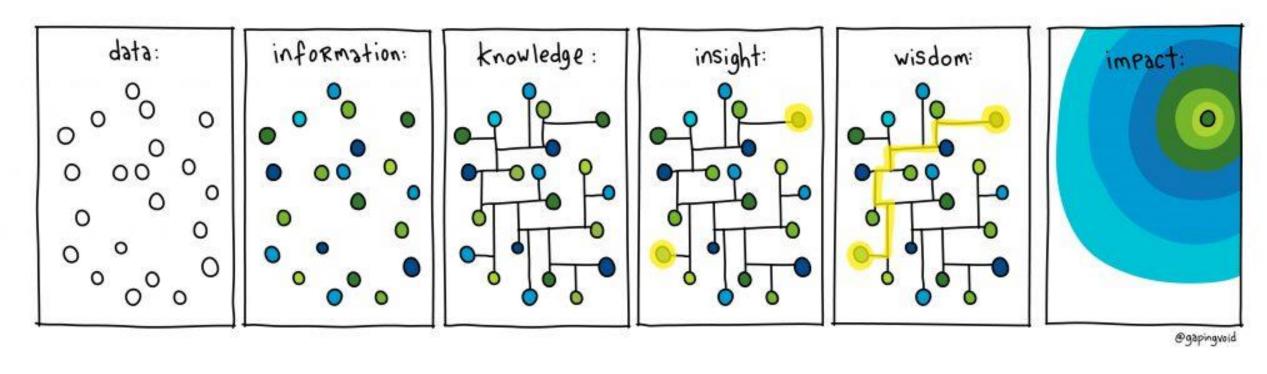




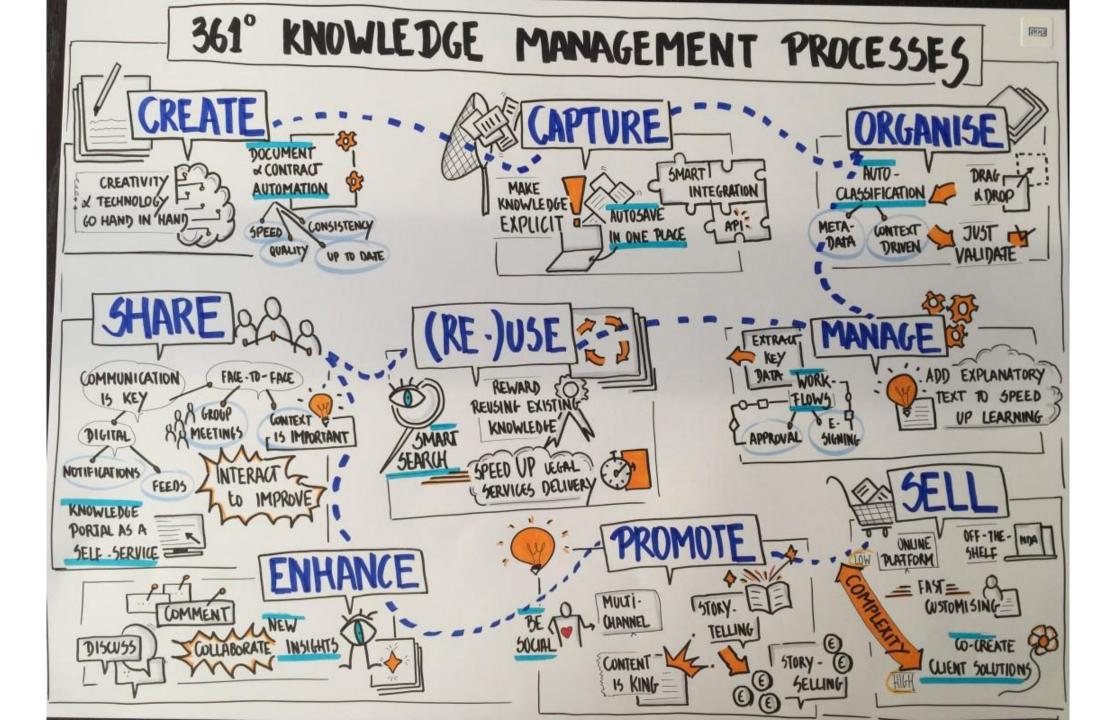




Implementomics



"Implementomics," the ability to capture, organize and exploit the multidimensional knowledge related to implementation issues.



The **Implementome** accompanies digital health transformation for impact and sustainability.

Raising awareness Managing knowledge Improving decision-making on stakeholders and solutions by of global and local digital health Through a database of digital visualizing digital health best practices, and lessons learnt health case studies with detailed (do's & don'ts) ecosystems up-to-date insights **Enabling match-making** Promoting policies & guidelines Advocating for collaboration and creation of awareness and uptake amongst and accelerating discussions implementers of digital health communities of practices that towards more inclusive, help each other in designing & solutions responsible & sustainable digital e.g. privacy by design health implementations implementing digital health

Digital transformation in healthcare is challenging, but knowledge management might be the key to sustainable solutions. The Implementome aims at closing the implementation science gap and enabling science-based decision-making.

For more information:

www.gdhub.org

Background

Digital health is not just a buzzword. It is a movement that has been transforming the way people have access to healthcare and how they manage their health.

Despite its potential, the use of digital health in LMICs to overcome barriers to health service delivery has faced challenges in achieving scale and is characterized by fragmentation.

Implementome

Implementome is a knowledge management plateform which aims at documenting knowledge and facilitating the identification of determinants for the success or failure of digital health implementations.

The Implementome provides a multidimensional and evolutive digital health knowledge base of people, projects, publications, evaluations, lessons learned, and evidence. Based on a formal ontology and structured terminologies, the tool can be explored and enriched both by humans and Alenabled automated processes.

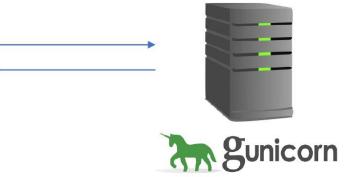
Implementome

Share Learn Connect Exchange

Evidence-based Initiate & support collaboration







py2neo

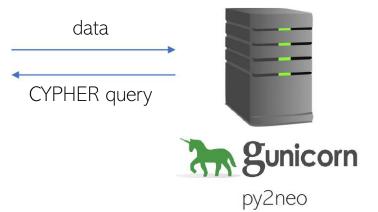






















Digital Health Atlas



Mapping: Nepal - Mali - Kenya



Communities of practice

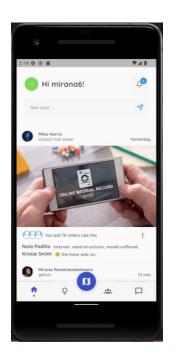


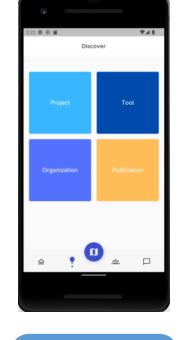
Validation process

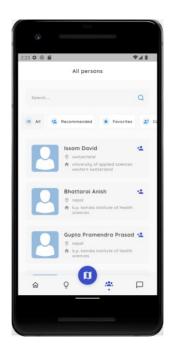


Users

Implementome











Home

Discover

People & Communities

Trends

Maps

Use case



Use case



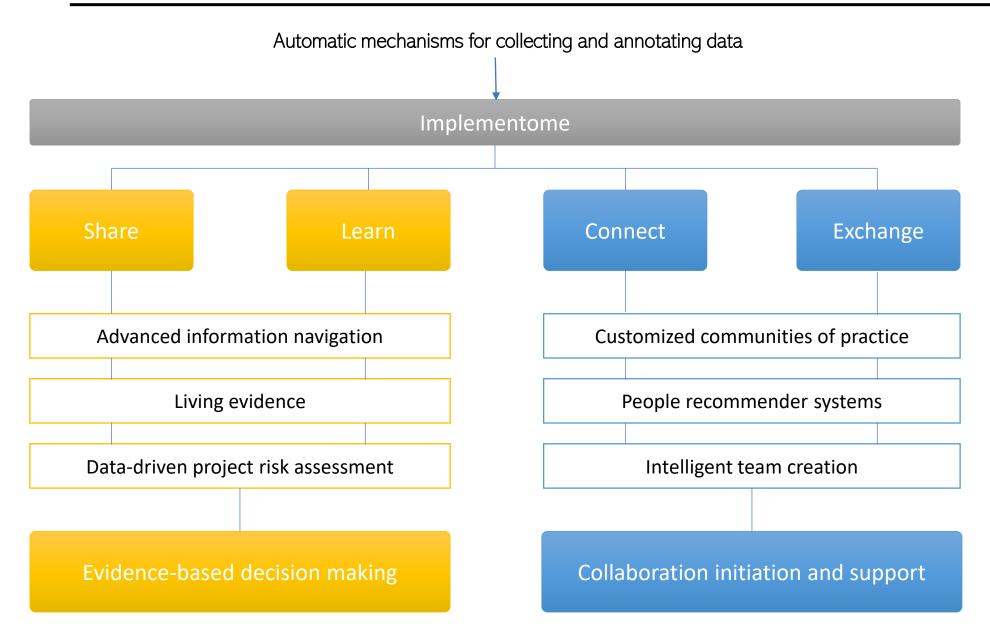
Implementor

I'm the director of a district hospital in rural Nigeria. I plan to implement a tele-expertise service in cardiology:

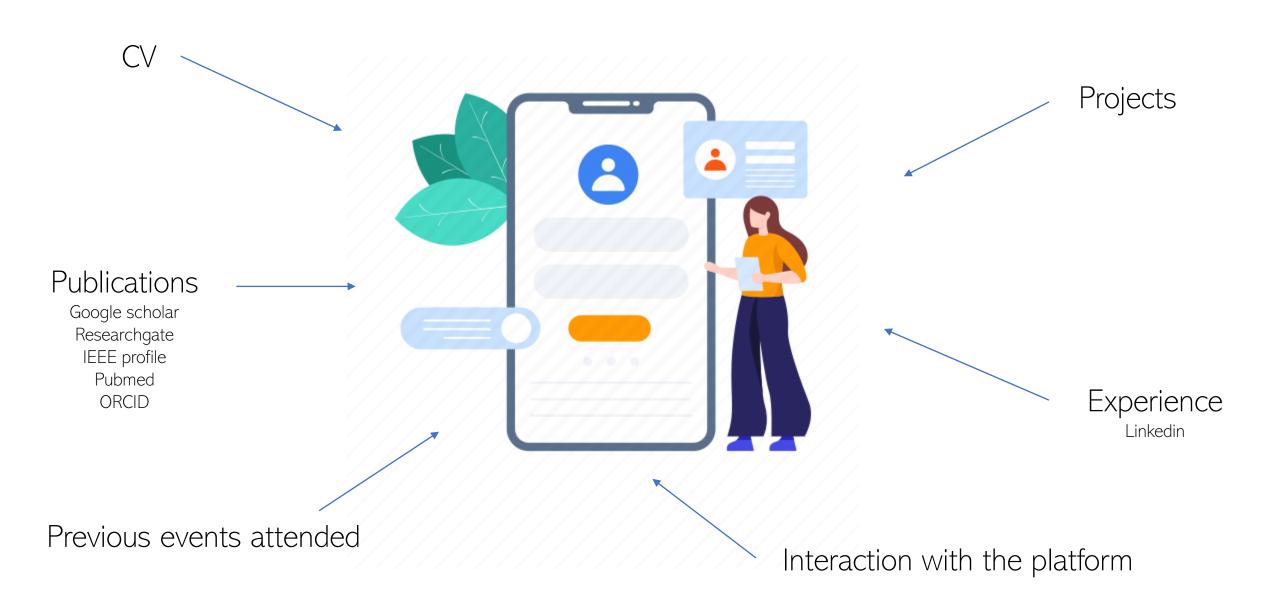
- What tools could I use?
- Whom could I learn from and collaborate with? Whom should I contact?
- What are the challenges and best practices regarding sustainable business models for this activity?
- How do I demonstrate impact?
- Is there an appropriate community of practice I could join?
- I want to hear about the experience of colleagues who have done the same work before. How other projects face similar challenges to mine?

Demo

Implementome: long-term vision



Enriching user profile





Thank you



SCAN ME

More information: https://gdhub.org/

Contact us:

caroline.perrin@unige.ch mirana.randriambelonoro@uniqe.ch

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