

# People Centered Health Data Collaboratives: How they work and how they can be improved for global use

Moderator: Mei Lin Fung, Co-Chair, People Centered Internet

How do we harness responsibly the vast amount of health information that has been created and stored by devices but too often is siloed and inaccessible to the scientific community? This session focused on the use of health data collaboratives to make this information accessible to scientists and practitioners, the regulatory issues that need to be considered and/or changed and discusses the promise and pitfalls of the use of personal data.

The initial event on this topic took place as part of the event of the UN Science Summit Sessions on “Key Challenges and Objectives for Digital Cooperation, Governance and Regulation” ([Link to recording](#)). The 9th edition of the Science Summit around the 78th United Nations General Assembly (SSUNGA78) took place from 12-29 September 2023. The People Centered Internet (PCI) organized nine sessions in conjunction with the International Science Council from Sept 20-22 to discuss the future of digital in achieving the SDGs. The sessions took a people centered approach; this means to discuss how scientific and digital collaboration can only be advanced through human feedback loops. The People Centered Internet sessions explored the parameters of this approach focusing on specific use cases where this is needed to achieve the SDGs and discussing the recommended enabling policy, regulatory, and financial environments, that are required to support genuinely global scientific collaborations across continents, nations, and themes. Speakers from each panel summarized the most important results in a stocktaking ([Link](#)).

## Speakers

- Märt Aro, Digital Innovation Advisor to United Nations, European Commission, Estonia, and Lithuania
- Bertrand de la Chapelle, Chief Vision Officer, Datasphere Initiative
- Paul Murphy, Research Fellow, TELUS Corporation, [Presentation Slides](#)
- Tamara Singh, Sherpa, Sustainable Finance Development Network
- Kate Wilson, Senior Fellow, People Centered Internet

## Further Contributions

[Integral Healthcare: combining the local and the global processes in the digital age](#)

- Alessia Maccaro, School of Engineering - University of Warwick – UK
- Maria Laura Ilardo, Research Unit of Philosophy of Science and Human Development – University Campus Bio-Medico – Rome
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## Summary of People Centered Health Data Cooperatives

*Prepared by Christine Asjoma, Convenor of the Panel Series “Key Challenges and Objectives for Digital Cooperation, Governance and Regulation”*

We need to know that people are doing well, that we are doing well. And how will we know that? That was the topic of this first session. The panel looked at people-centered health data collaborations.

Historical revolutions such as language, writing and printing have each significantly reshaped society. Health is at the heart of the current transformation of our society. Because, as Bertrand de la Chapelle mentioned, health data makes up a significant part of our data landscape. Every single MRI scan generates huge amounts of data. This data needs to be used and still be protected.

A regulatory framework is needed that - like international governmental organizations - can reconcile conflicting objectives and yet - similar to the organizations of the Internet - approach problem-solving efficiently once the objectives are set. This requires a dynamic, iterative regulatory process that adapts to the pace of the Internet. Bertrand de la Chapelle also advocated a move from opt-in to opt-out models for medical data sharing to facilitate research.

Building trust around health data is paramount, added Kate Wilson. She shared her practical experience working in countries such as Ghana, Malawi, and Tanzania. For example, she found that patients were more willing to share their data when the researchers demonstrated their professionalism using tablets.

Märt Aro added examples from the digital pioneer country Estonia. 99% of government services in Estonia are available online. Märt also addressed the role of trust in digital systems, which has been achieved through strict regulations on data access. Estonia was in a difficult situation after the collapse of the USSR. So, there was a great need to implement innovation at that time.

But a concept from one country cannot simply be transferred to another. There are different expectations of data protection in different regions of the world. Building on this argument, Tamara Singh emphasized the importance of hyperlocal context in data management.

Paul Murphy articulated our cross-regional goals: Digital health systems must be holistic, i.e., include the virtual as well as the physical world. They must be ecological, i.e., minimize the digital footprint. And they must be bottom-up, i.e., allow the community to participate in shaping digital policy.

## **Integral Healthcare: combining the local and the global processes in the digital age**

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The digital transformation is radically revolutionizing multiple sectors, although its impact on human health and global well-being and effectiveness can vary significantly depending on the specific context in which it is deployed. This context includes social, cultural, economic, political, and environmental factors. The interaction and adaptation of the digital technology to the environment plays a pivotal role in shaping the outcomes and consequences of technological innovations. Recognizing and navigating this dynamic interplay is crucial for harnessing the full potential of digital technology while mitigating unintended consequences to gather a relational epistemology (Bertolaso, Capone and Rodriguez-Lluesma, 2022).



that can intervene also in the risk analysis and risk mitigation practices where the individual and cultural perspective (i.e., historical narratives, personal stories, societal dynamics) are welcomed in a risk assessment together with new technologies and digital solutions.

Intervention strategies involve understanding systemic dynamics by identifying complex interactions (Bertolaso, 2022b) through modeling and simulation to predict risk situations.

Addressing potential risk thus requires an integrated approach that combines the power of digital devices with human experience and judgment. In this regard, we emphasize the need to rethink decisional algorithms for risk assessment at both individual and collective levels.

Such algorithms, considered in this way (collective and individual), could help in supporting the technological sustainability and healthcare policies development at a global level.

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