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| BACKGROUND

Many low- and middle-income countries are experiencing youth surges. Young populations are not only digital natives but innovation drivers—Al is emmeshed in and influences their life and life decisions. Yet, they often face unequal access to the digital tools, training, and platforms that could power health and climate solutions from the ground up. At the same time, aging societies face growing gaps in long-term care, chronic disease management, and labour force participation. Al-enabled elder care, home health monitoring, and robotic support offer potential solutions—but raise questions about data ethics, human dignity, and intergenerational workforce displacement.

Digital health, surveillance technologies, and planetary monitoring systems are increasingly critical to anticipating and managing climate-health risks. But inequities in digital infrastructure, data sovereignty, and AI governance can are are deepening the divide between high- and low-capacity health systems and between generations. Key questions remain. Who governs how health data are collected and used? How do we ensure older adults, marginalized groups, and future generations are not digitally excluded or exploited? How do we ensure technologies serve social and planetary goals, not just commercial ones?

In this session, we'll explore the dynamic interplay between rapid Al evolution and demographic transitions, and how differentiated demand and use of Al and digital tools across the generations are shaping the design and deployment of digital technologies for health and climate.

| OBJECTIVES

- 1. Map and debate current and potential future use cases for Al for health and climate across the generational divide critically assess the role of Al, robotics, and digital tools in transforming health care access and delivery, health care worker labour markets, and public health systems—across ages, rural/urban, poor/rich, genders, ethinic groups and more.
- 2. **Examine equity concerns** around algorithmic bias, digital exclusion, and data colonialism in the Global South, and propose governance solutions rooted in transparency and justice.
- 3. **Highlight examples of youth-led and intergenerational innovations** that use digital tools for planetary health, health equity, and social protection.
- 4. **Identify scalable strategies for building digital and data infrastructure in LMICs** that support inclusive, adaptive, and rights-based approaches to technological governance.





Panelist

Poruan Temu

Country Representative for PNG / Digital Technology Advisor FHI360 Papua New Guinea

Dr. Poruan Temu is the Country Representative for FHI 360 in Papua New Guinea and the FHI360's Digital Technology Advisor for Strategy & Resource Mobilization, where he leads global efforts to integrate digital innovation into health and development programs. Formerly FHI 360's Sub-Regional Director for the Pacific, he has over a decade of experience leading complex, multi-country programs across the Pacific and Southeast Asia. His work focuses on strengthening primary healthcare, surveillance, and laboratory systems, and advancing the integration of climate and health strategies and Al into resilient, people-centered health systems.

Dr. Temu played a foundational role in developing Papua New Guinea's National Digital Health Strategies and serves as a key advisor to government and regional partners on digital transformation and governance. He also currently serves as a Subject Matter Expert in Digital Health under the UK-FCDO-funded ASEAN Health Security Partnership and represents Papua New Guinea as Vice Chair of the Global Fund Country Coordinating Mechanism and member of the Western Pacific Regional Constituency. Alongside his public sector leadership, Dr. Temu has also driven digital innovation in the private sector—introducing 3D printing and IoT infrastructure for smart health, agriculture, and city solutions. A trained physician with a Master's in Information Technology (eHealth), he has published on disease modeling and health systems design and is widely recognized for advancing sustainable, locally led, and technology-enabled approaches to health and development across the region.