



## **PS 1.1**

### **TECH-DRIVEN SOLUTIONS FOR SMART SPENDING**

## | BACKGROUND

Health financing is one of the building blocks of health systems and digital health technologies are changing the way it operates. The functions of health financing are typically characterised as revenue raising (sources of funds, including government budgets, compulsory or voluntary prepaid insurance schemes, direct out-of-pocket payments by users, and external aid), pooling of funds (the accumulation of prepaid funds on behalf of some or all of the population), and purchasing of services (the payment or allocation of resources to health service providers).

Digital technologies can change the nature of business processes and interactions between actors. They offer efficiencies to streamline processes and reduce fraud, increase revenue collections through mobile wallet applications, for example and can potentially enhance equity by extending access to care through telehealth, for example, if covered by public insurance schemes. Strategic purchasing can utilise health technology assessment (HTA) and availability of data can enable evidence informed decisions. At the individual level, digital technologies for health allows households to better manage their money using technologies. However, there are also risks such as potentially increasing inequities, requirements for large up-front investments, and potential fragmentation. Further data security and interoperability of systems are key concerns. These challenges require innovative solutions that can pave the way for use of digital health technologies for health financing and ensure that financing for health can be sustainable, adequate, fair and efficient.

The key issues will revolve around application of digital health technologies across the functions of health financing (collection, pooling and purchasing). These are:

- Use of AI for audits or fraud, waste and abuse detection in health financing
- Health Technology Assessment (HTA) of innovative health technologies
- Smart payment solutions for health financing for payers and providers
- Efficiencies related to digitalisation of processes

## | OBJECTIVES

The overarching objective is to identify how digital health technologies can enhance the effectiveness and sustainability of health financing.

- To demonstrate the potential of digital health technologies for health financing through case studies;
- To identify challenges and devise potential solutions to harness these technologies effectively to achieve Universal Health Coverage and the Sustainable Development Goals;
- To identify areas for collaboration across and outside the health sector.

Expected outcomes

- Increased understanding of key issues on the role of health technologies on financing
- Enhanced networks to collaborate on key issues



Panelist

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Mark Jit is professor and chair of the Department of Global and Environmental Health at New York University. He previously worked as a professor at the London School of Hygiene & Tropical Medicine (LSHTM), where he was head of the Department of Infectious Disease Epidemiology & Dynamics and co-director of the Global Health Economics Centre (GHECO). He holds honorary appointments at LSHTM, the University of Hong Kong (HKU) and the National University of Singapore (NUS). His research focuses on epidemiological and economic modelling of vaccines to support evidence-based public health decision making. Mark has published papers covering a range of vaccine-preventable or potentially vaccine-preventable diseases including COVID-19, measles, HPV, pneumococcus, rotavirus, influenza, Group B Streptococcus, dengue, EV71 and RSV as well as methodological papers advancing the ways vaccines are evaluated. This work has influenced many of the major changes to immunisation policy in the UK and globally. He also organises or contributes to academic and professional courses on vaccine modelling, economics and decision science around the world.