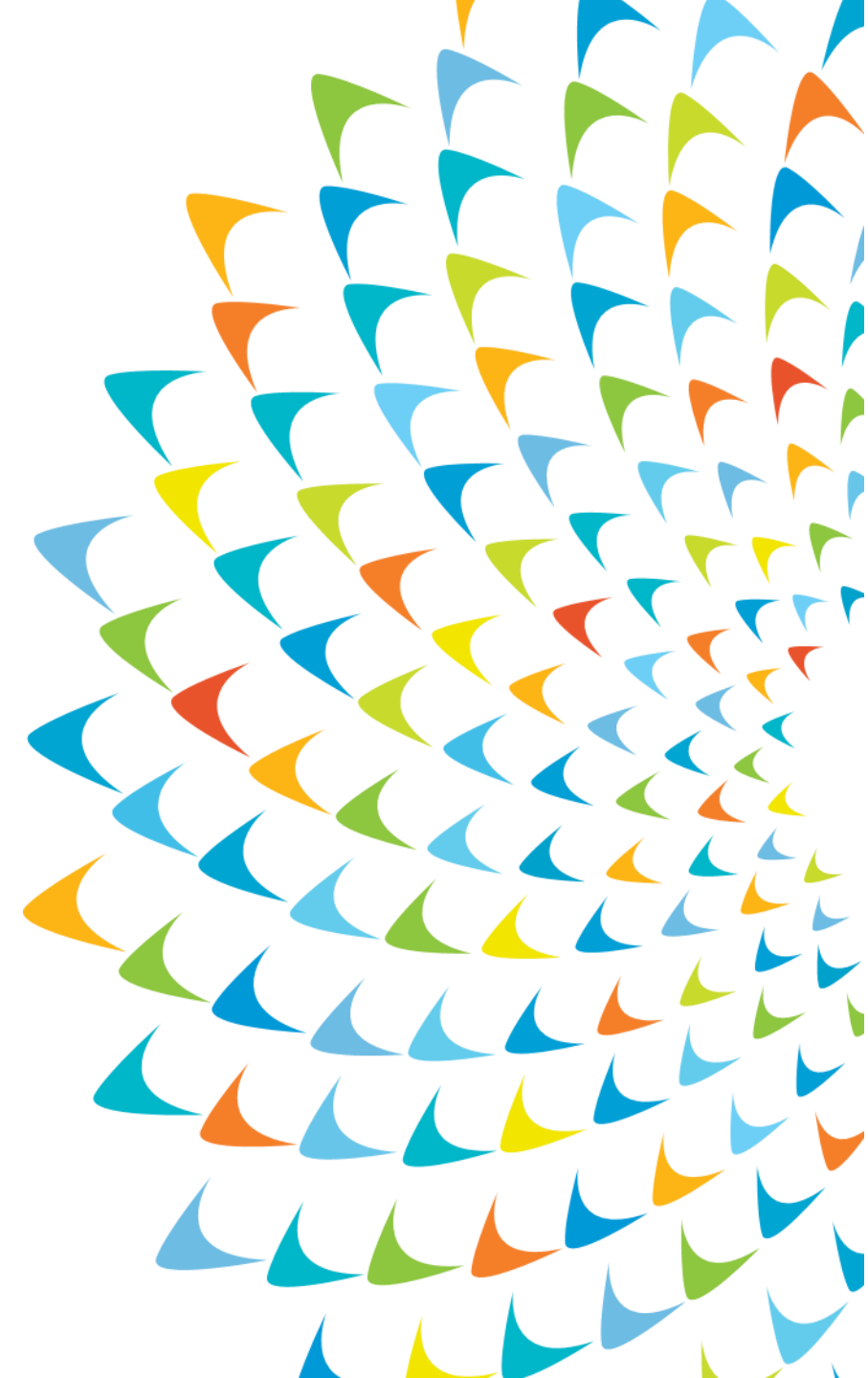


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AI in Healthcare: Innovations, Challenges, and Future Directions

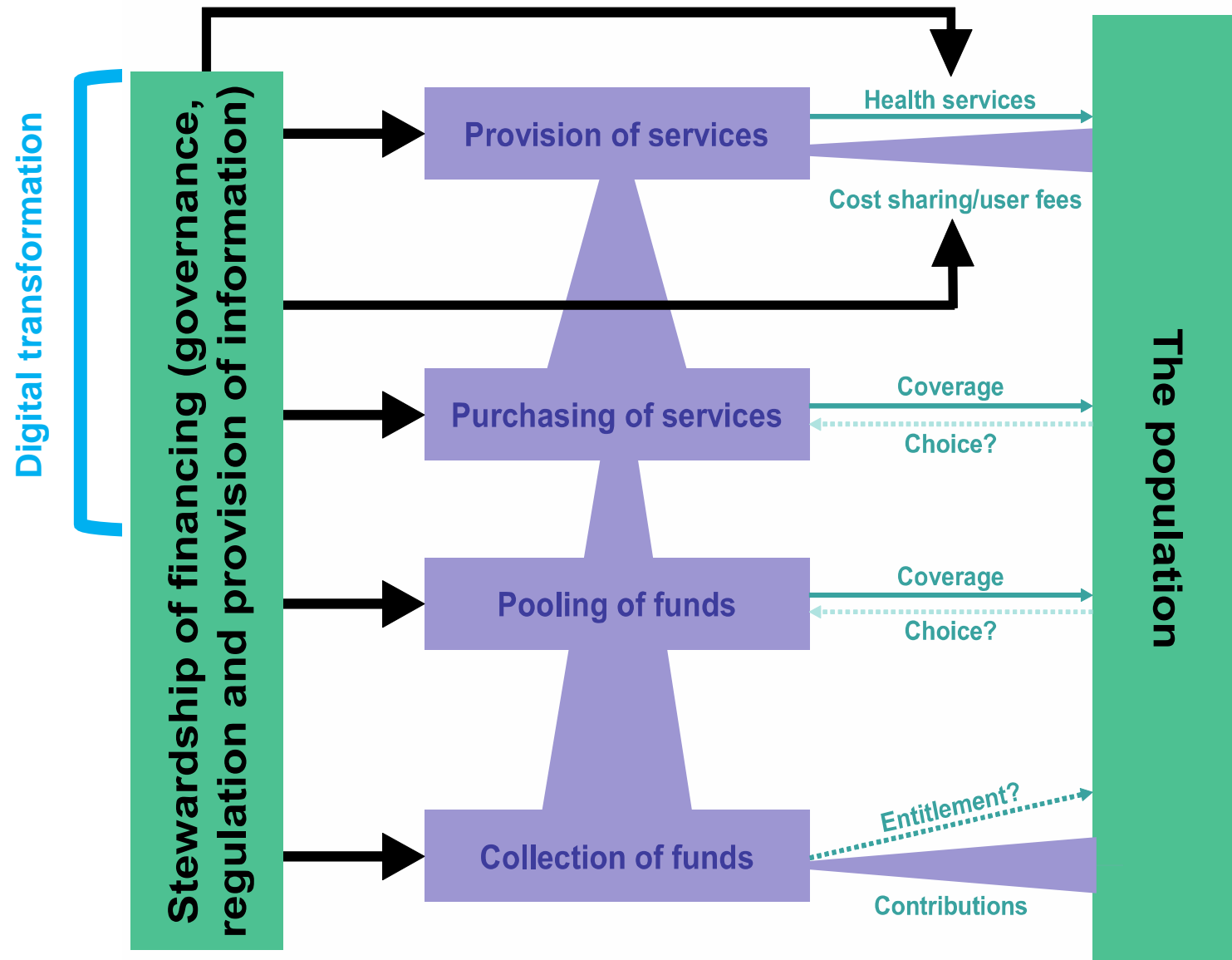
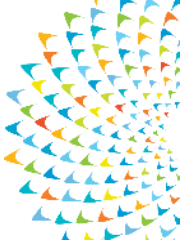
Dr. Akihito WATABE, MD, PhD, MSc, EMC
Health Specialist, Human and Social Development Office, Sectors Group,
Asian Development Bank



Improving inefficiencies in health systems through digitization



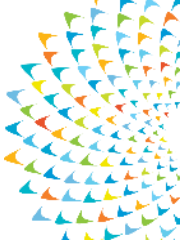
Digital transformation for health financing arrangement



Opportunities for digitalizing health financing value chain



Integration of data sources for more sophisticated decision-making



3rd party data & provider contracting data
(e.g. pricing & performance)



Claims & utilization data



Data from adjacent government services
(e.g. national ID, social security etc.)



Policyholder generated data, actuarial data &
risk models



App/ website data

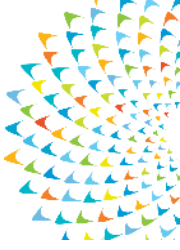


Descriptive
What has happened?

Predictive
What is going to happen?

Prescriptive
Suggesting the best course of action

ADB Focus on Digital Health Innovations



TA9967: Using Digital Technology to Improve National Health Financing in Asia and Pacific



Nepal:



Bangladesh



Mongolia



Philippines



Armenia



Palao



India

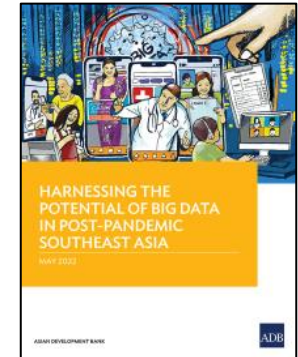
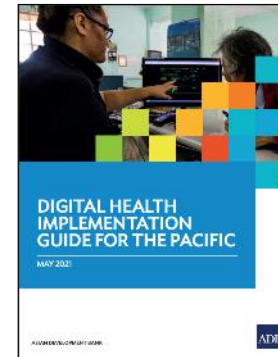


Indonesia

Innovation Challenge: Support for start-up companies in digital health financing



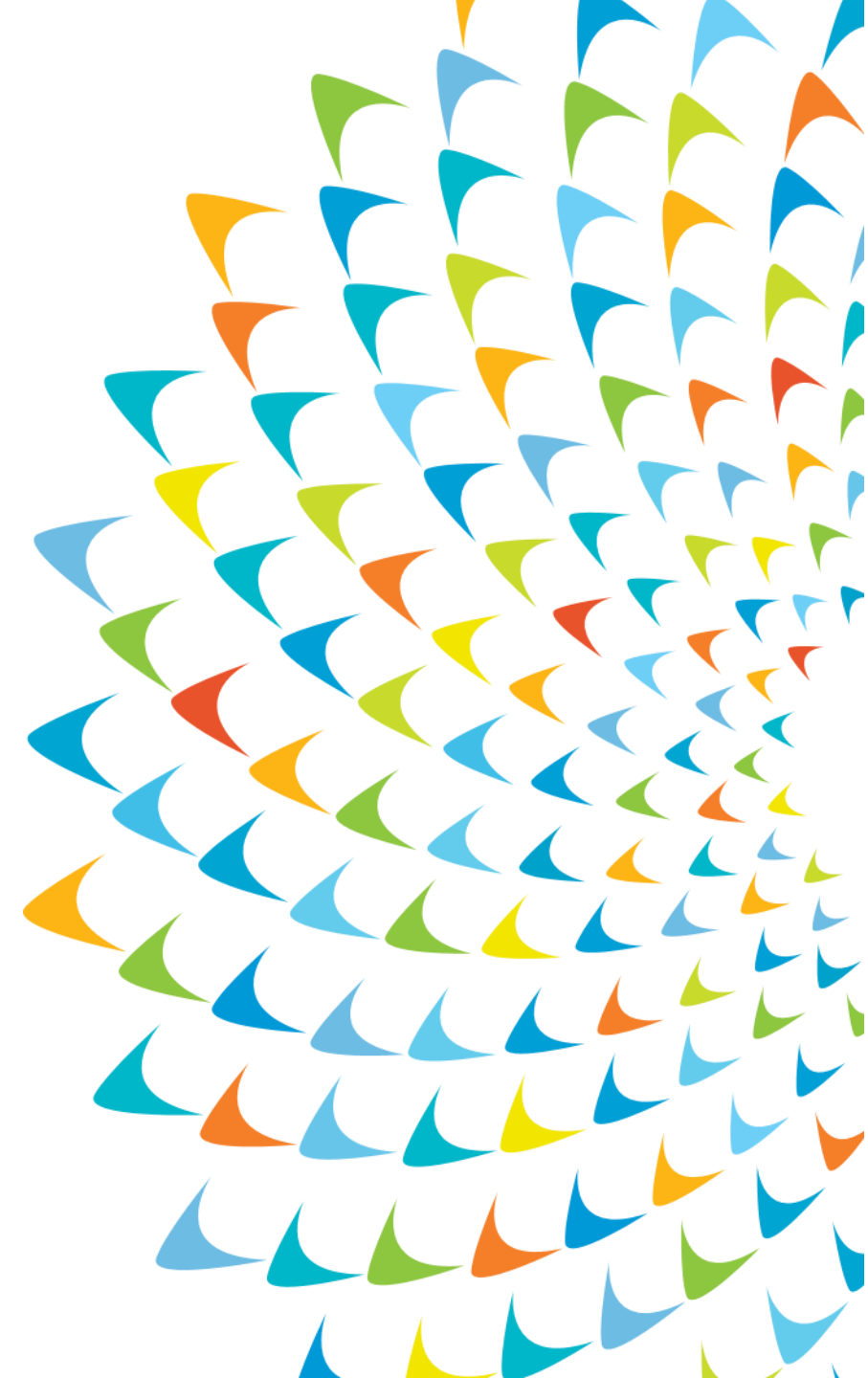
Knowledge generation



Collaborating with regional organizations/networks



AI for Healthcare: Advantages & Risks



The landscape of AI in healthcare - Advantages



Predictive Analytics

Remote Monitoring

Automated Claims



Enhanced Diagnostics

Operational Efficiency

Consumer Insights

The landscape of AI in healthcare – Potential challenges



Potential Risk

Data Privacy & Security

Data Quality & Standardization

Data Management Risk

Regulatory Compliance & Ethical Consideration

Bias and Fairness

Regulatory & Ethical Risk

Cost & Investment

Integration, Interoperability & Scalability

Operational Risk

Capacity building

Patient acceptance & Trust

Capacity & Trust Risk

The landscape of AI in healthcare – Risk mitigation strategies



Robust Encryption, Access Controls & Regular Audits

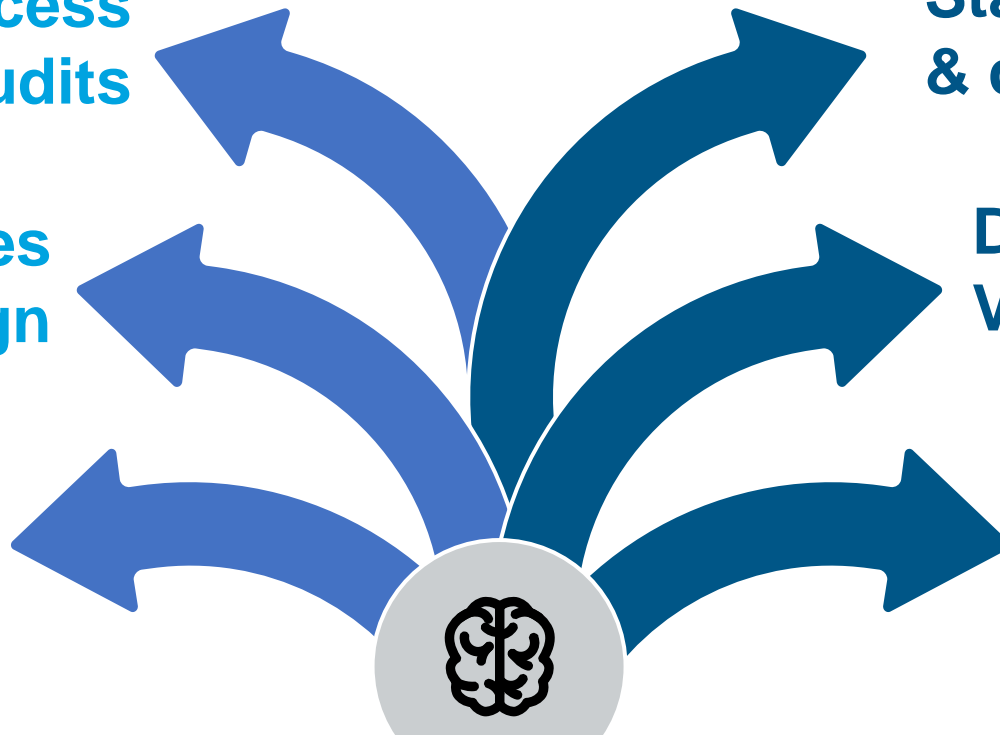
Adapting to Guidelines & User Centric Design

Reskilling Opportunities & Augmentation focus

Stakeholder Engagement & documentation

Decision Support & Validation

Diverse Datasets & Continuous Monitoring



Risk mitigation strategies

ADB

Human and Social Development Office Sectors Group



Thank You

