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Title: Att.1 - Presentation - The promise of AI in healthcare in low middle income countries

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Abstract: This PPT contains a presentation on the promise of AI in health in low middle income countries.



THE AGA KHAN UNIVERSITY

The promise of AI in healthcare in low middle income countries

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In collaboration with CITRIC Health Data Science Center

The Aga Khan University

What are we aiming for?

Global Strategy for Women's, Children's and Adolescents' Health (2016-2030)



SURVIVE



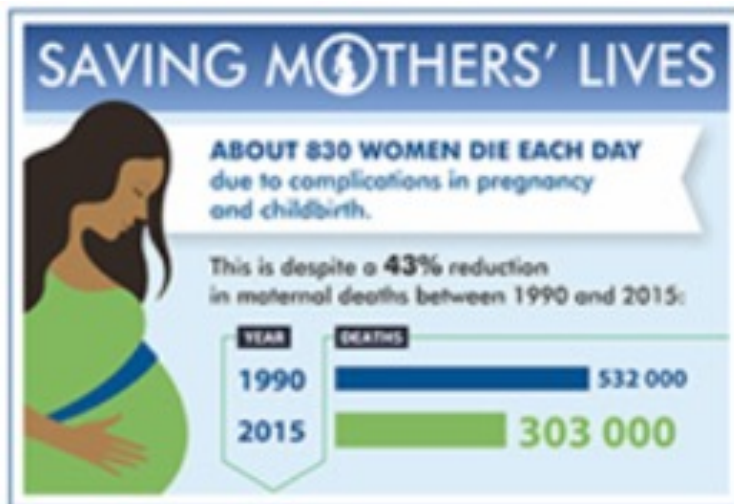
THRIVE



TRANSFORM

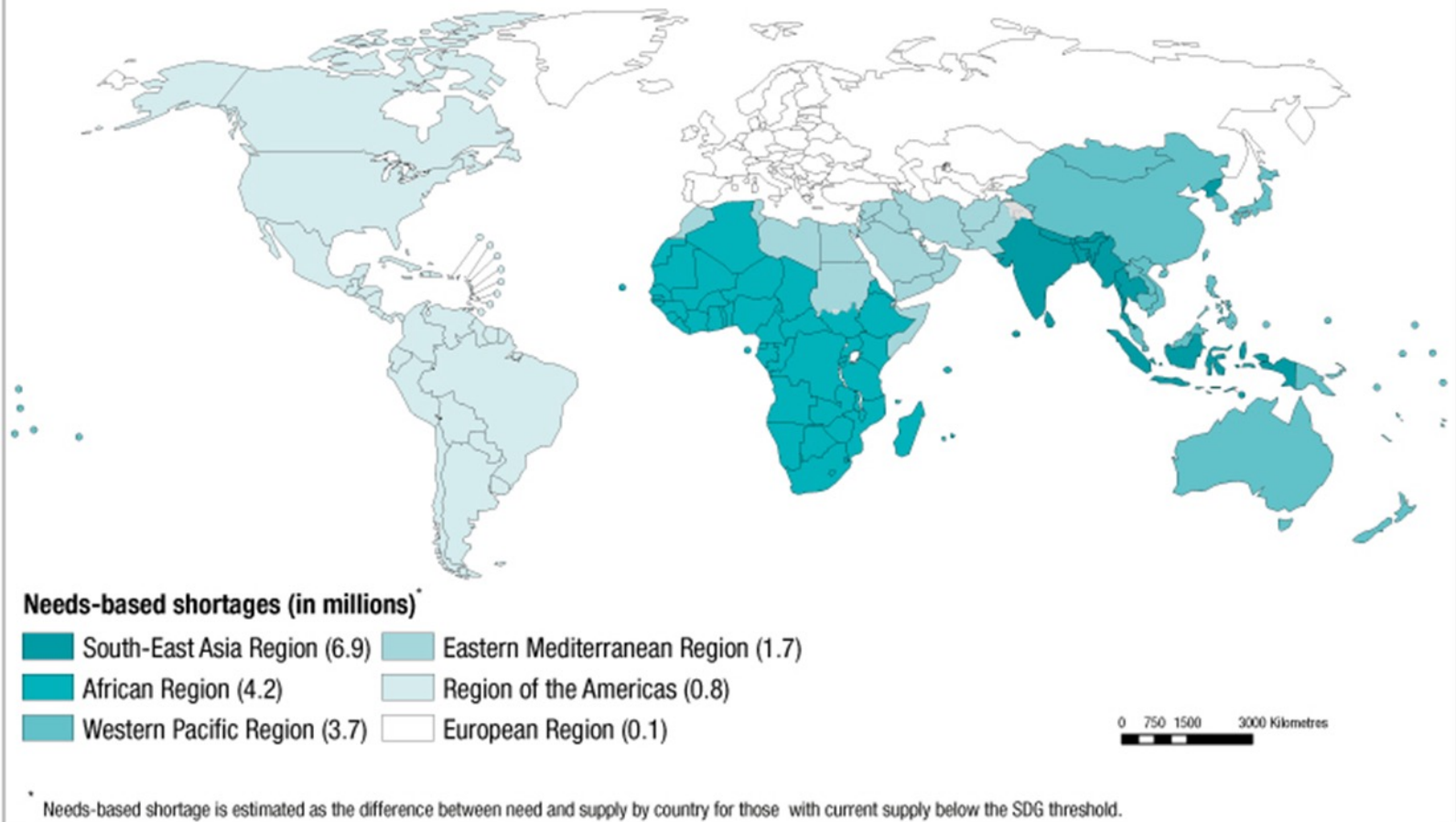


**LEAVE NO ONE
BEHIND**



Why is it so difficult to achieve?

Estimates of health worker needs-based shortages, by WHO region, 2013

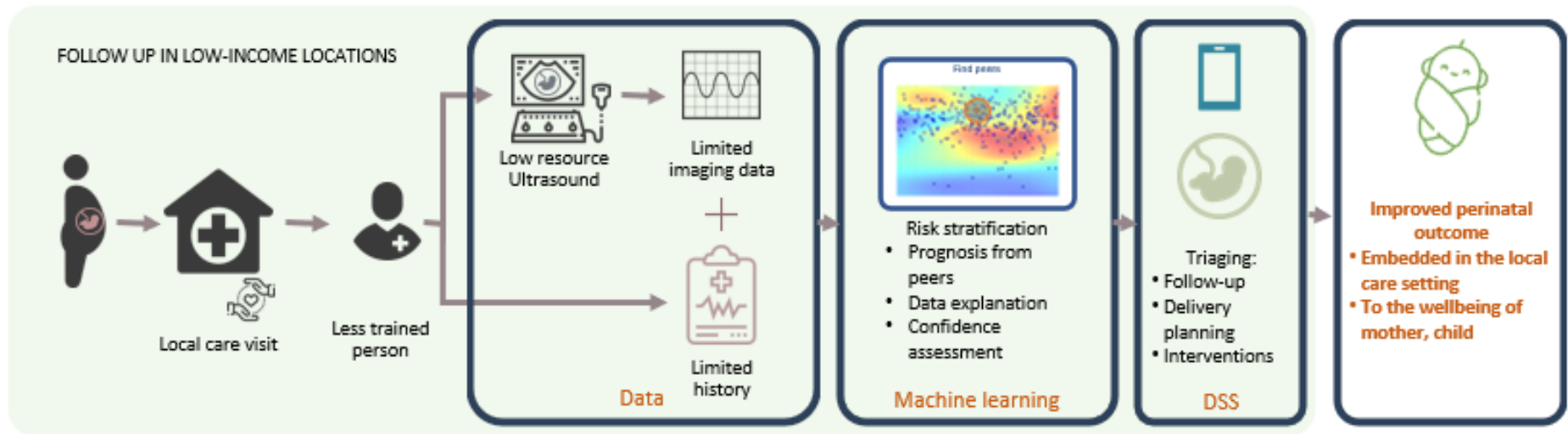


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Data Source: World Health Organization
Map production: Information Evidence and Research (IER)
World Health Organization

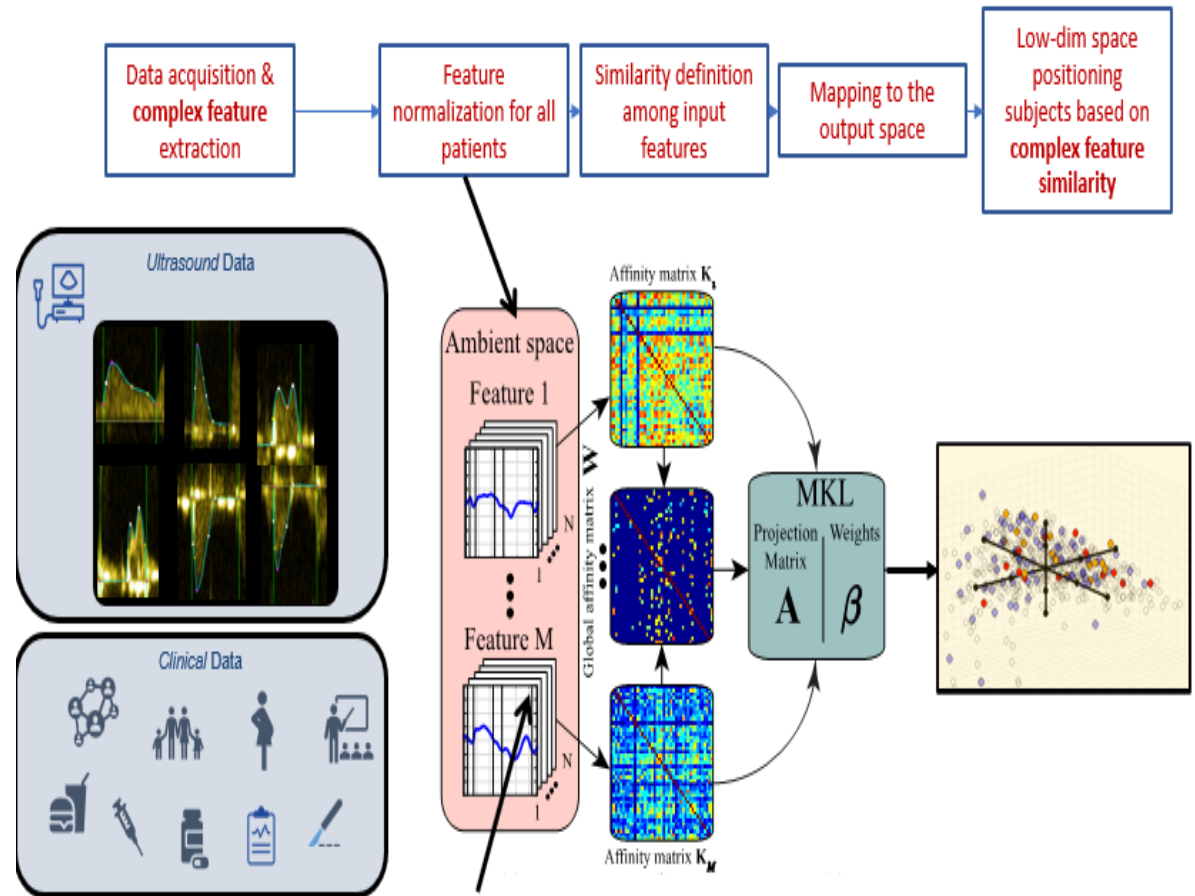


Paradigm change - Empowering the Less-Trained Person

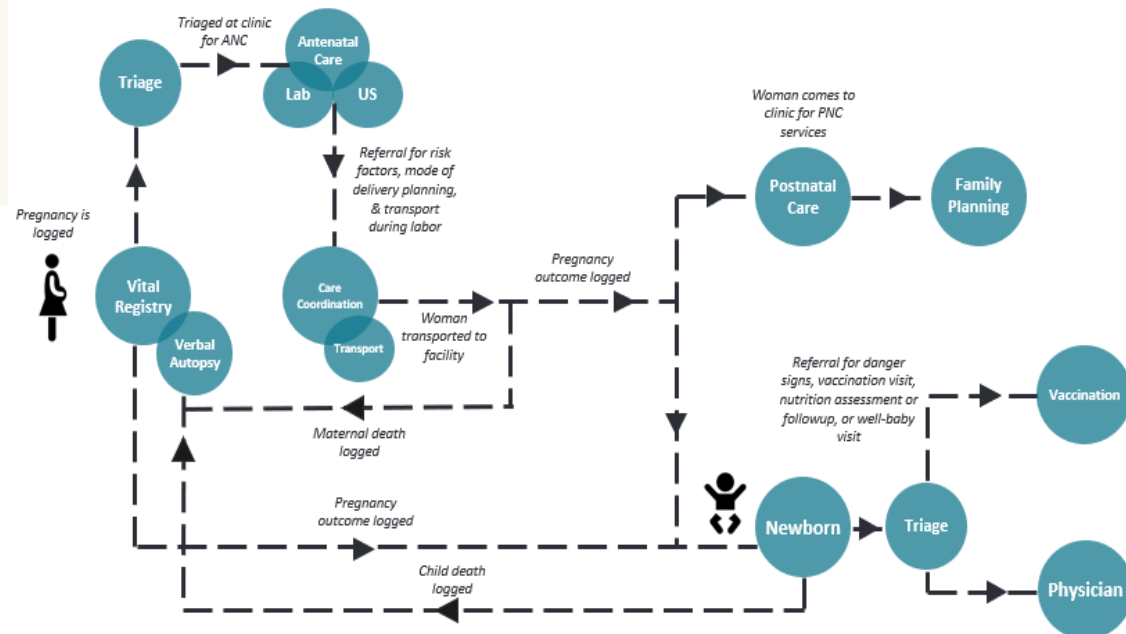




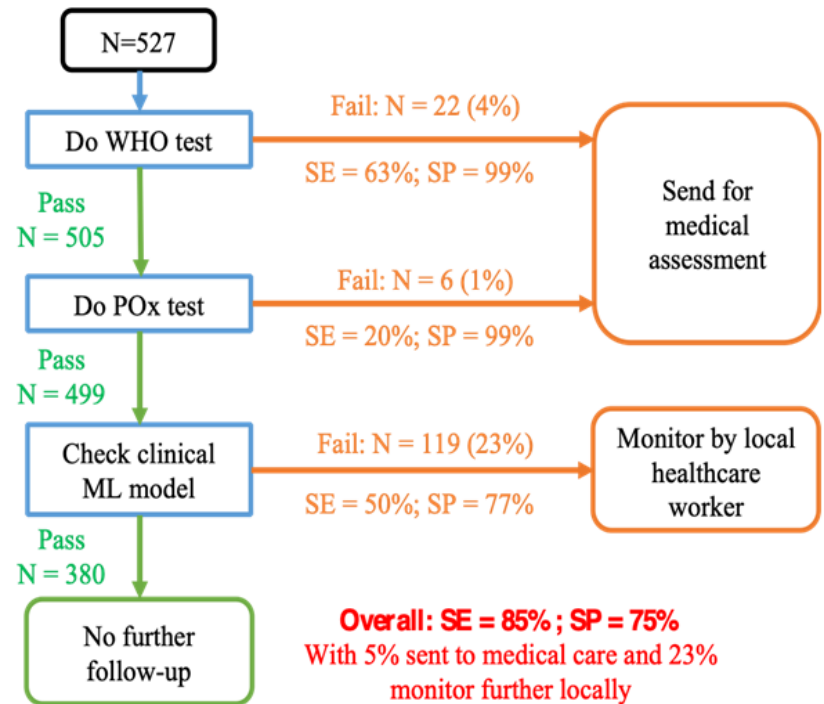
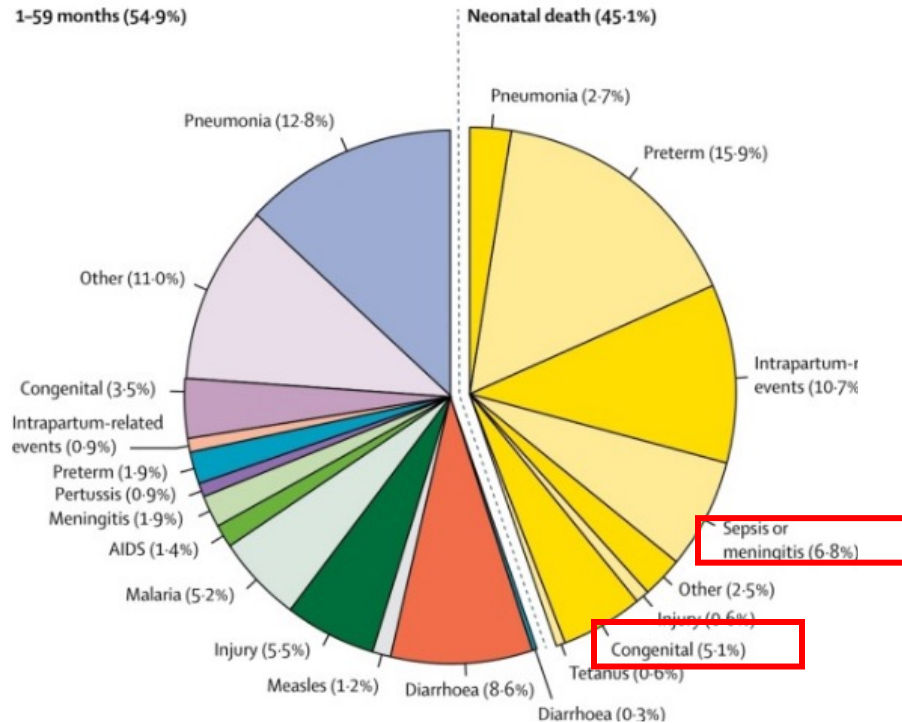
Fetal Doppler Project



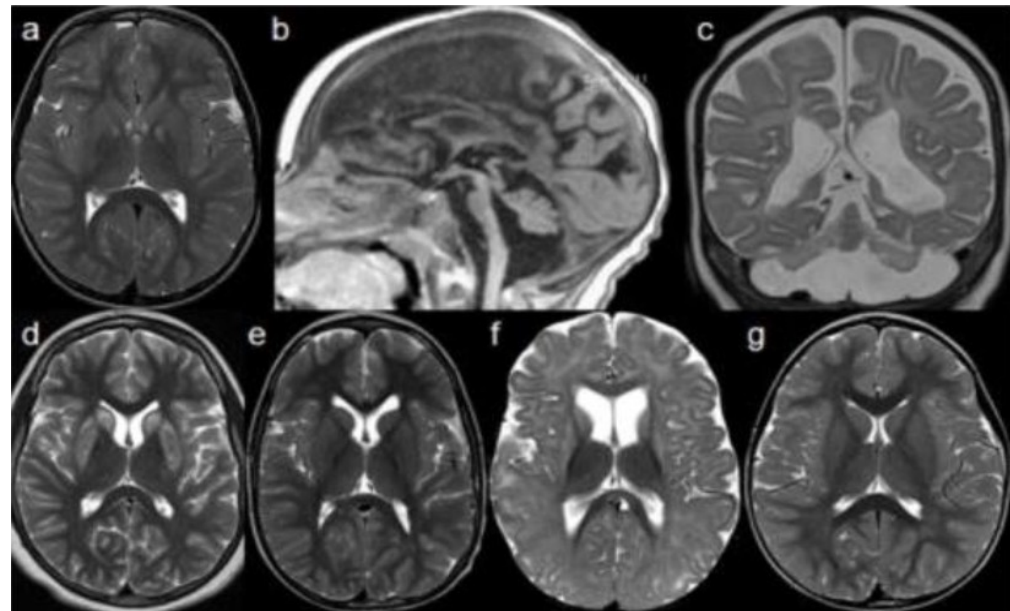
Pregnancy Risk Stratification Innovation and Measurement Alliance (PRISMA)



Pulse Oximeter Project



Hyperfine Project



Systematic review

AI Deployment guidelines

Overarching themes

The clinical rationale

Ethical issues / bias / Contested ownership of data

- Upgrading the algorithm
- Adjusting the tool to improve performance

- User experience
- Validation of the tool using predefined performance indicators
- Economic evaluation
- Assessment of clinical outcomes
- Compliance with regulatory requirements
- Reporting adverse events



- Labelling (technical components, clinical indications of use, layman explanation)
- Legal liability for harm
- Appropriate regulatory approval
- Cost of tool
- Feasibility of operation within existing workflow

- Interoperability
- Appropriate technical expertise
- User training
- User acceptability
- Integrating into existing workflow

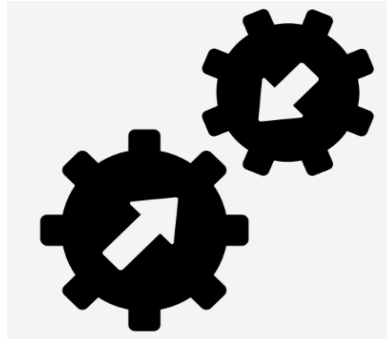
Qualitative Interviews

AI Deployment



Preparation Phase

- ROI
- User Training
- Software and hardware requirements



Integration Phase

- Multidisciplinary team
- Data pipeline
- Integration in existing care pathways



Evaluation Phase

- User experience
- Pre/post implementation studies
- Regulatory compliance

Thank you to all our
Local and International collaborators
for the support