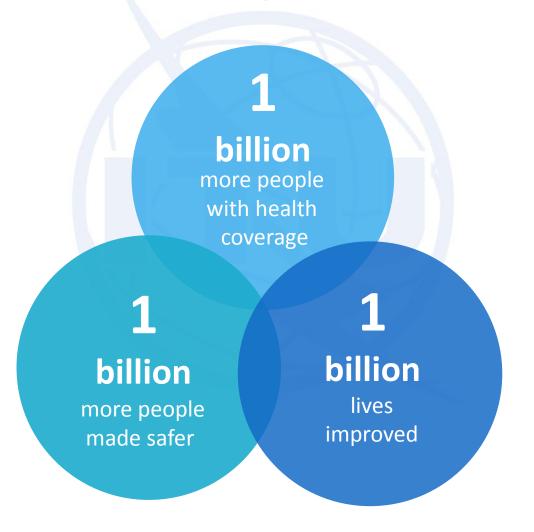
# Al for public health Stories of success and future hopes

Sameer Pujari, Ramesh Krishnamurthy, Natalia Wroblewska World Health Organization Ljubljana, 9 July 2018

# World Health Organization (WHO)







### Who we are

- 194 Member States
- Headquarters in Geneva;
- 6 regional offices
- More than 150 country offices
- More than 7 000 staff worldwide
- More than 700 institutions support WHO's work: close partnerships with UN agencies, donors, foundations, academia, nongovernmental organizations and the private sector





### What we do

Policy dialogue

to develop systems of the future Strategic support

to build high performing systems

Technical assistance

to build national institutions

Service delivery

to fill critical gaps in emergencies

Mature health system

Fragile health system







### Al in public health

Application of AI in healthcare is most effective when it helps achieve national health-related SDG goals.

National and sub-national governments are encouraged to have appropriate policy and governance mechanisms to ensure ethical and safe use of Artificial Intelligence (AI) in Healthcare without hindering innovation.

#### **Areas of AI implementation:**

Primary care and service delivery, outbreaks and emergency response, risk reduction, health promotion, prevention, education.





### Aim of the AI + Health track

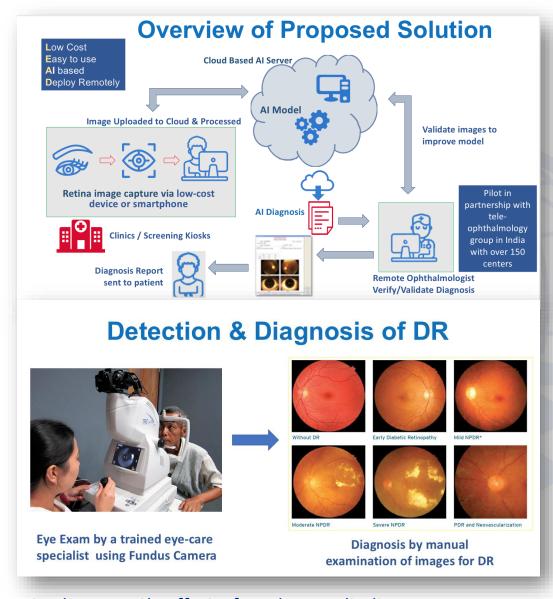
- Identify quick-wins areas and types of AI applications that hold high-potential impact on health outcomes and that are feasible and relatively simple to deploy
- Identify bottlenecks and challenges that prevent society from taking full advantage of AI quick-wins in areas such as diagnostic, treatment, prevention or emergency response and how to possibly address those.
- Mobilize community to support a number of proof-of-concepts projects that could demonstrate impact in the short and medium term.
- To make commitment and seek feedback from health community of a global XPrize Challenge to Transform Community Health through Al' (tbc).



#### Four work streams

- 1. Al for primary care and service delivery
- 2. Outbreaks, Emergency Response and Risk Reduction
- 3. Health promotion, prevention, and education
- 4. Al health policy





Proposal Pitch
Al to Detect Vision Loss

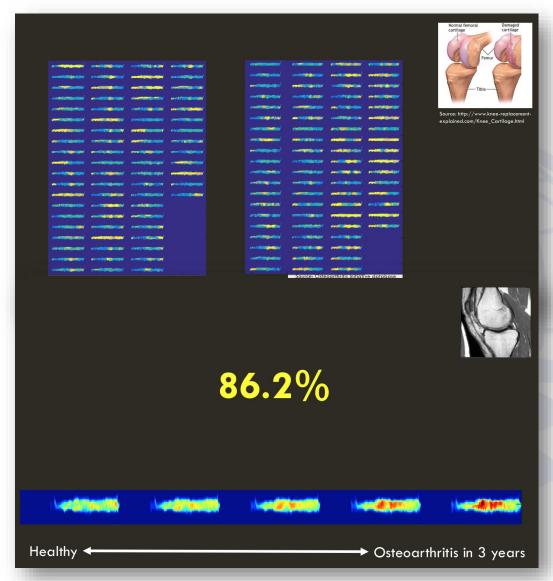
Category
For profit

Subject
Diabetic Retinopathy (DR), serious eye-disease affecting people

001

Credit: Arun Shroff, Co-founder, Medindia.net Al for Good Summit, 2018.





Proposal Pitch
Al to Detect Osteoarthritis

Category Non-profit

Subject
Prediction of who will develop osteoarthritis

002

Credit: Shinjini Kundu, University of Pittsburgh Medical Center Al for Good Summit, 2018





Proposal Pitch
Al and Digital Identity

Category
For profit

Subject
Digital Identity

003

Credit: Adam Perold, Co-founder, President and CEO, ELEMENT INC Al for Good Summit, 2018



### Al Focus Group

#### Objectives:

- To identify standardization and benchmarking opportunities that will enable broad use of AI for health
- To facilitate global dialogue for all aspects on the use of AI for health





### Proposed FG on AI + Health

- Many of the pitches in the AI + Health Session have common issues that benefit from a structure to share information, collaborate and deliver on their goals until the next AI Summit 2019. Some of the common issues include:
  - Use case description
  - Data collection, models, quality, etc.
  - Interfaces and architecture
  - Service and Business models
  - Open Source
  - Country deployment
  - Impact evaluation
  - Assessment and validation criteria and Framework
  - Algorithms enhancements



## Be He@Ithy Be Mobile

#### **BUILD**

- Handbooks on how to scale up Digital Health programs
- Country capacity to run sustainable Digital health programs

#### **SCALE**

- National Digital Health programs in 10+ countries
- EU Digital Innovation and Knowledge Hub

#### **INNOVATE**

- Build innovation channels into governments
- Foster frugal innovation





### EU Innovations Hub (2017-2021)

#### Objectives of the Hub:

- Scale-up mHealth services
- Compile best practices
- Focus innovation around key needs and gaps

#### Structure:

- Four-year project funded by the Horizon 2020 Program
- Jointly managed by WHO, ITU & European Commission
- National and international experiences solicited





# Lets work together

Thanks: Sameer\_pujari

