

# Exploring the Bidirectional Relationship between Artificial Intelligence and Neuroscience: A Workshop

Session 5: Regulatory & Policy Advocacy and Engagement

*National Academies of Science, Engineering, Medicine  
Keck Center, Washington D.C., 25-26 March 2024*

# WHO-ITU Global Initiative on AI for Health

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# Global Initiative on AI for Health (GI-AI4H)

UN Organizations: World Health Organization (WHO) - International Telecommunication Union (ITU)



**AI:+** **AI for Health**  
ITU-WHO Focus Group

- Predecessor: ITU-WHO Focus Group AI for Health (May 2018 - Sept 2023)
- Launch GI-AI4H, July 2023 @ AI for Good Global Summit, Geneva
- Initiative towards global standardization & assessment of AI in health in line with UN's Sustainable Development Goals



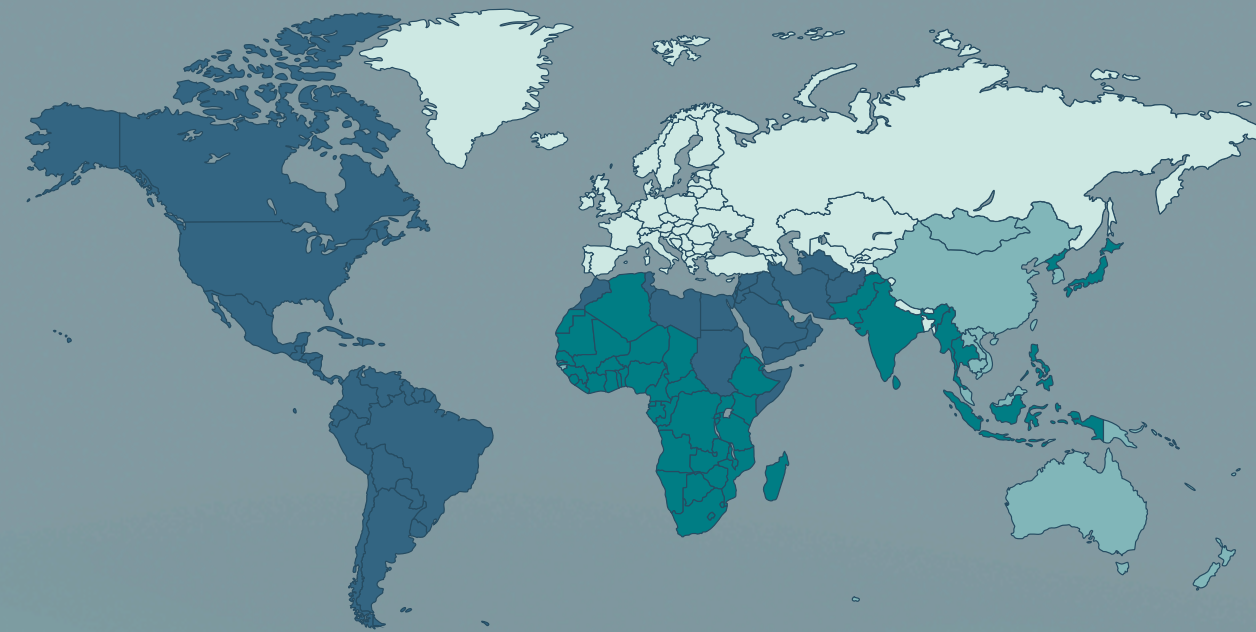


# Challenges of AI as a Digital Health Technology

Require a multidisciplinary approach

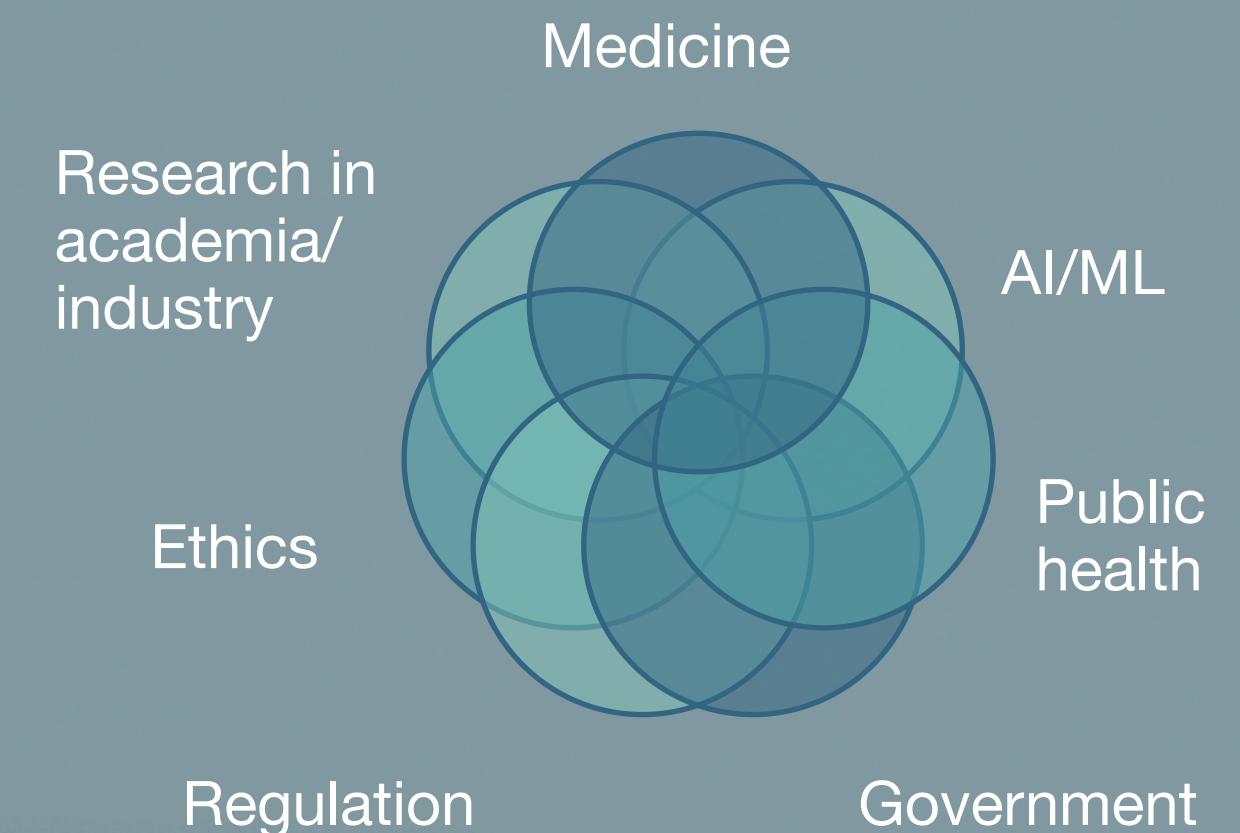


**Quality assurance** through quality assessment, ongoing monitoring & evaluation.



Soure: WHO

**Lack of internationally accepted standards** that ensure safe, effective and equitable application of AI.



Healthcare provision & regulation is complex and requires **ongoing conversation & a multidisciplinary approach.**



# Global Dialogue on Digital Health & AI

## Predecessor FG-AI4H: Workshops & Meetings



5/2018  
AI for Good  
Geneva

11/2018  
Columbia  
University  
NYC

4/2019  
World Expo  
Shanghai

9/2019  
UCSAF  
Zanzibar

01/2020  
PAHO/  
WHO  
Brasilia

05/2020  
Online

01/2021  
Online

09/2021  
Online

05/2022  
Berlin

12/2022  
Douala

07/2023  
AI for Good  
Geneva

10/2018  
WHO HQ  
Geneva

1/2019  
EPFL  
Lausanne

5/2019  
AI for Good  
Geneva

11/2019  
ICMR & NICF  
New Delhi

09/2020  
Online

05/2021  
Online

02/2022  
Online

09/2022  
Helsinki

03/2023  
Harvard/MIT

10/2023  
KACST

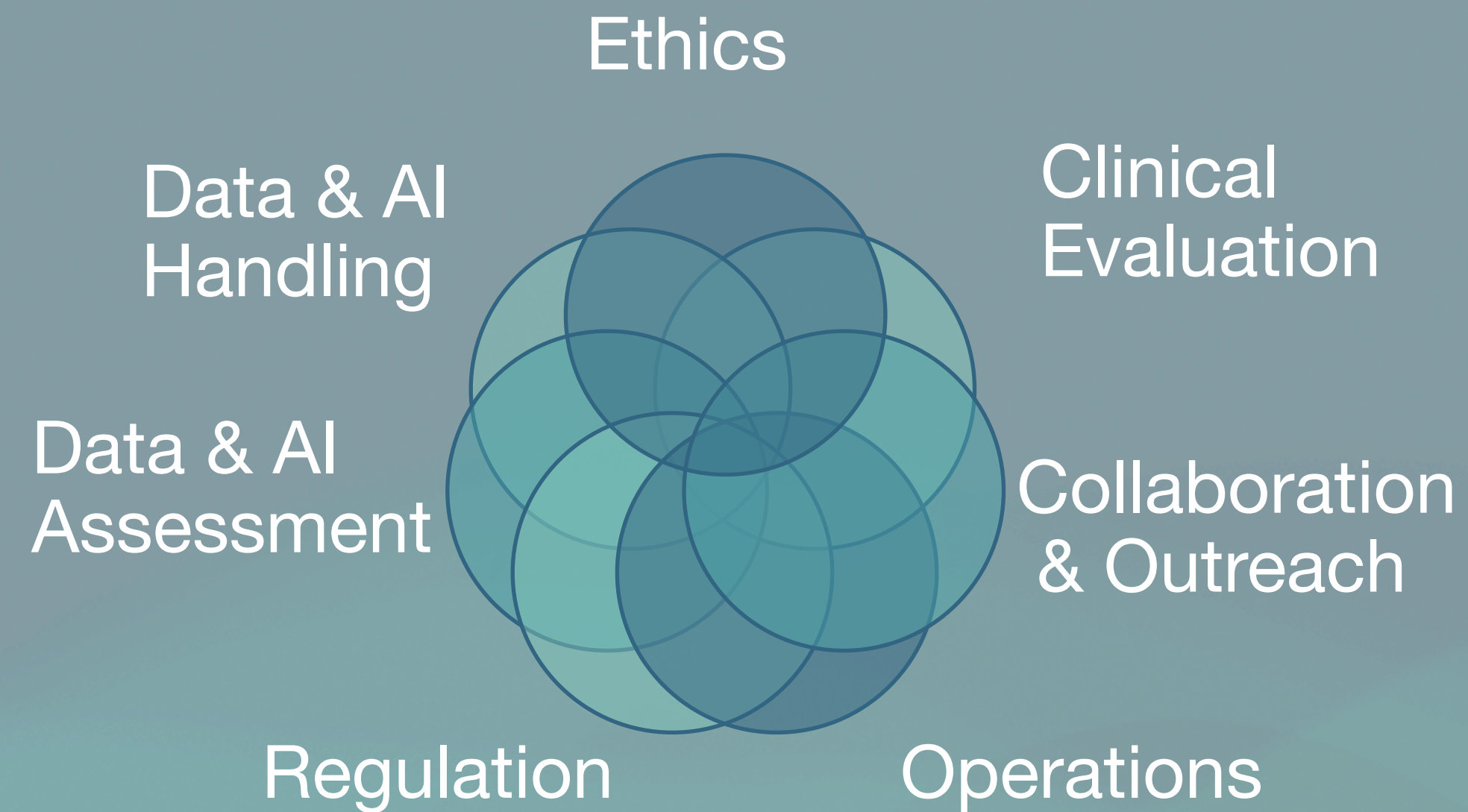


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**BOTNAR**

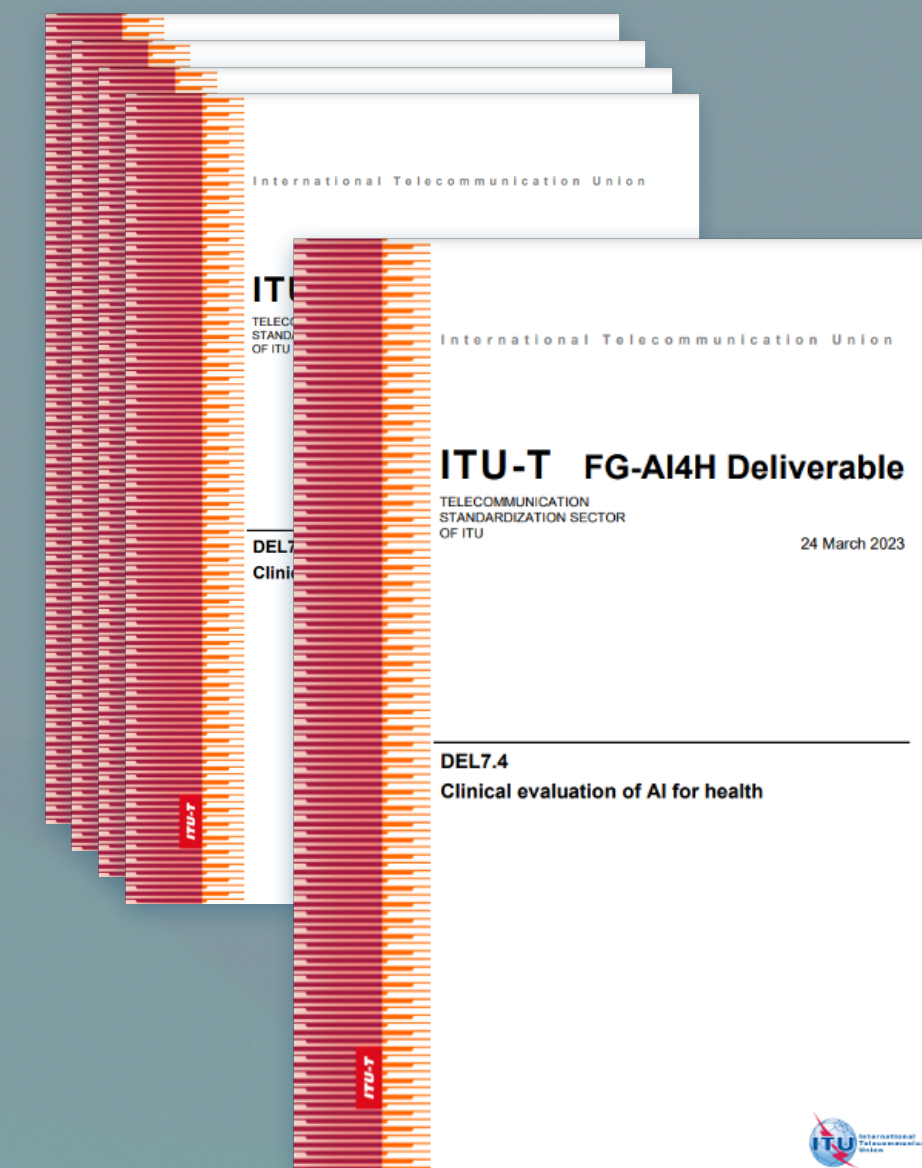


# Documentation & Guidelines

## Working Groups



Created best practices & reference documentation



Established processes & related policies



# Documentation & Guidelines

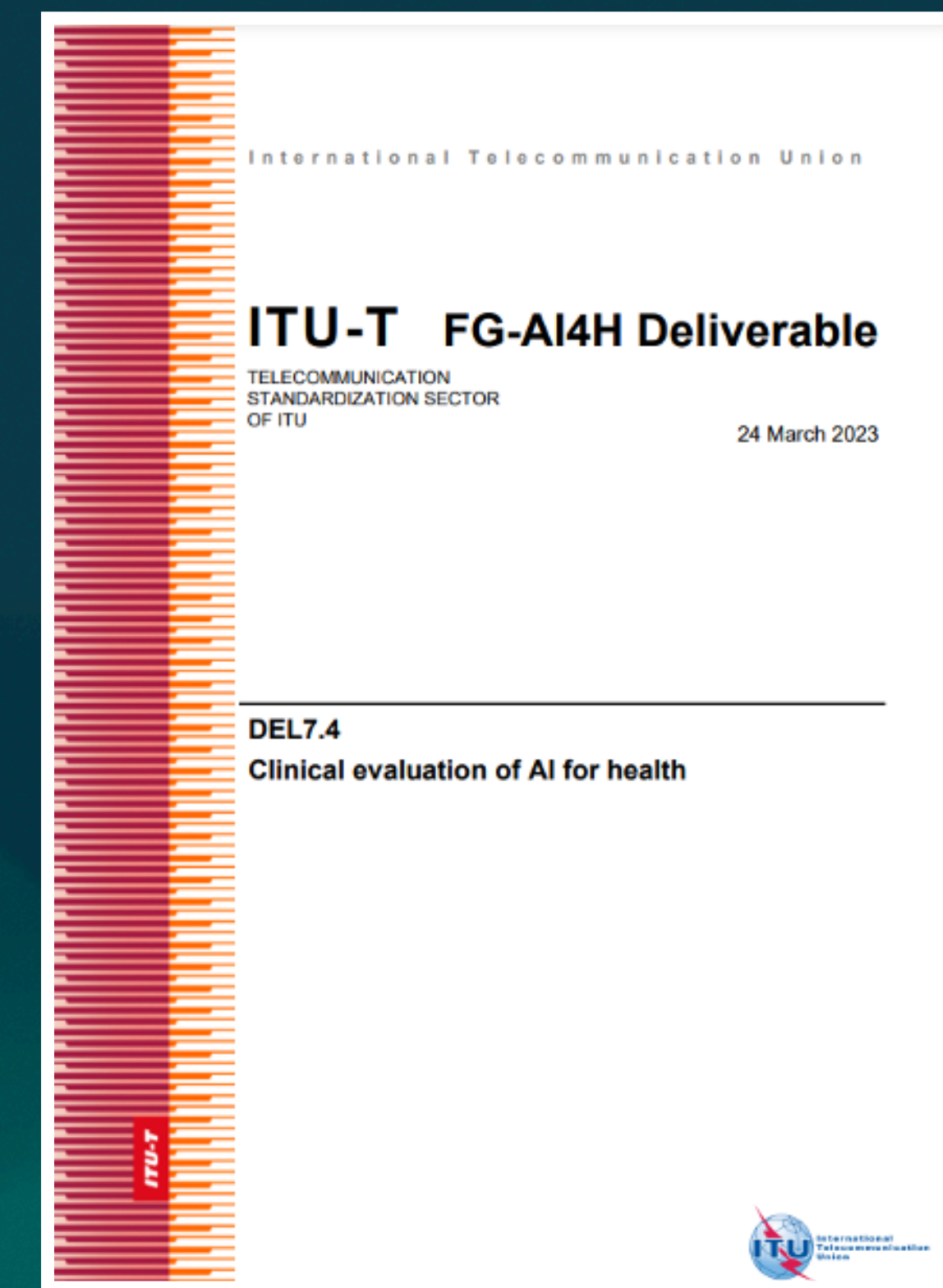
+ 2000 pages of guidance documentation produced by FG-AI4H



<https://iris.who.int/bitstream/handle/10665/341996/9789240029200-eng.pdf?sequence=1>



<https://iris.who.int/bitstream/handle/10665/373421/9789240078871-eng.pdf?sequence=1&isAllowed=y>



<https://www.itu.int/pub/T-FG-AI4H-2023-.3>



# Documentation & Guidelines

## Regulatory Considerations

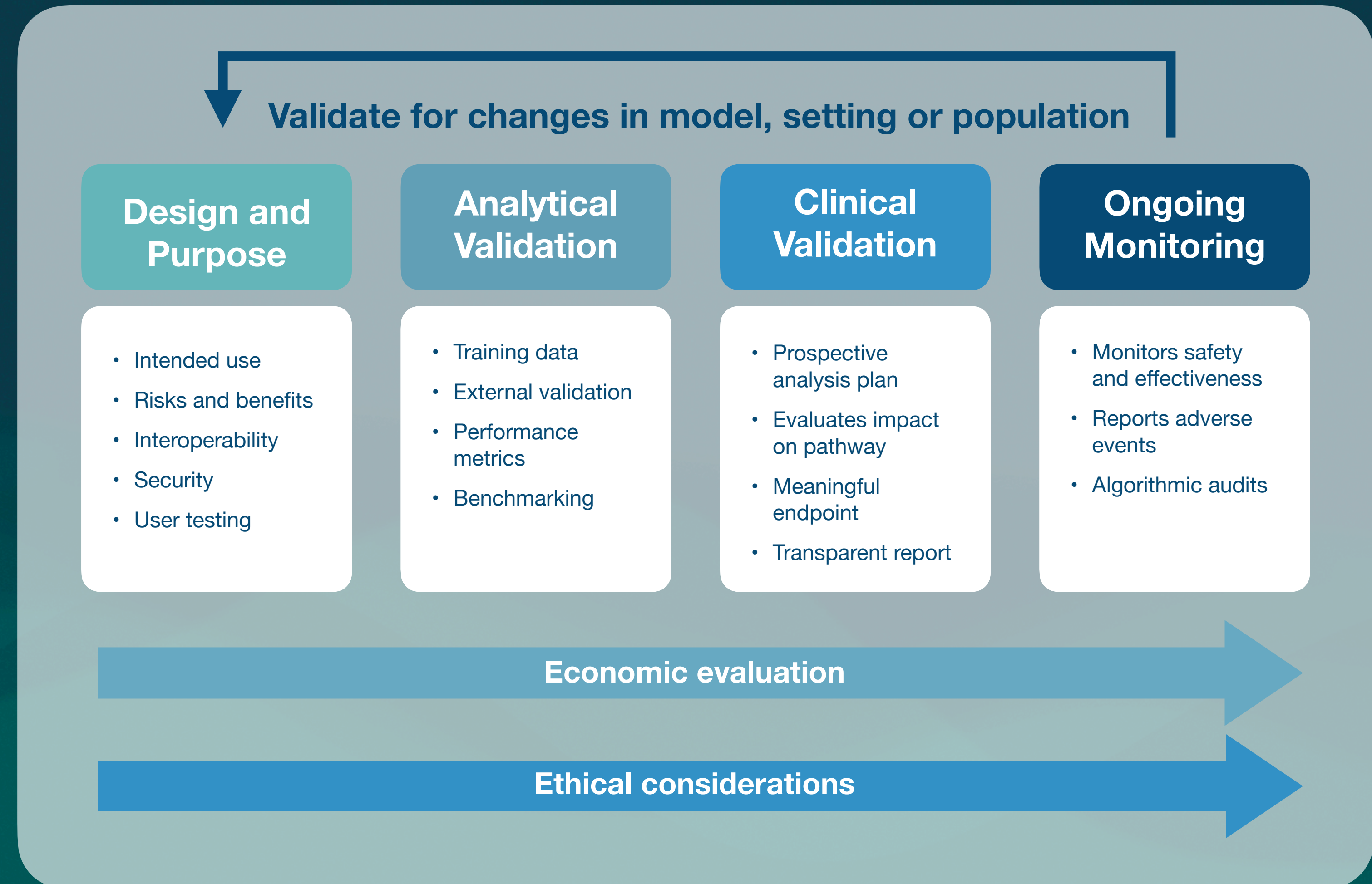
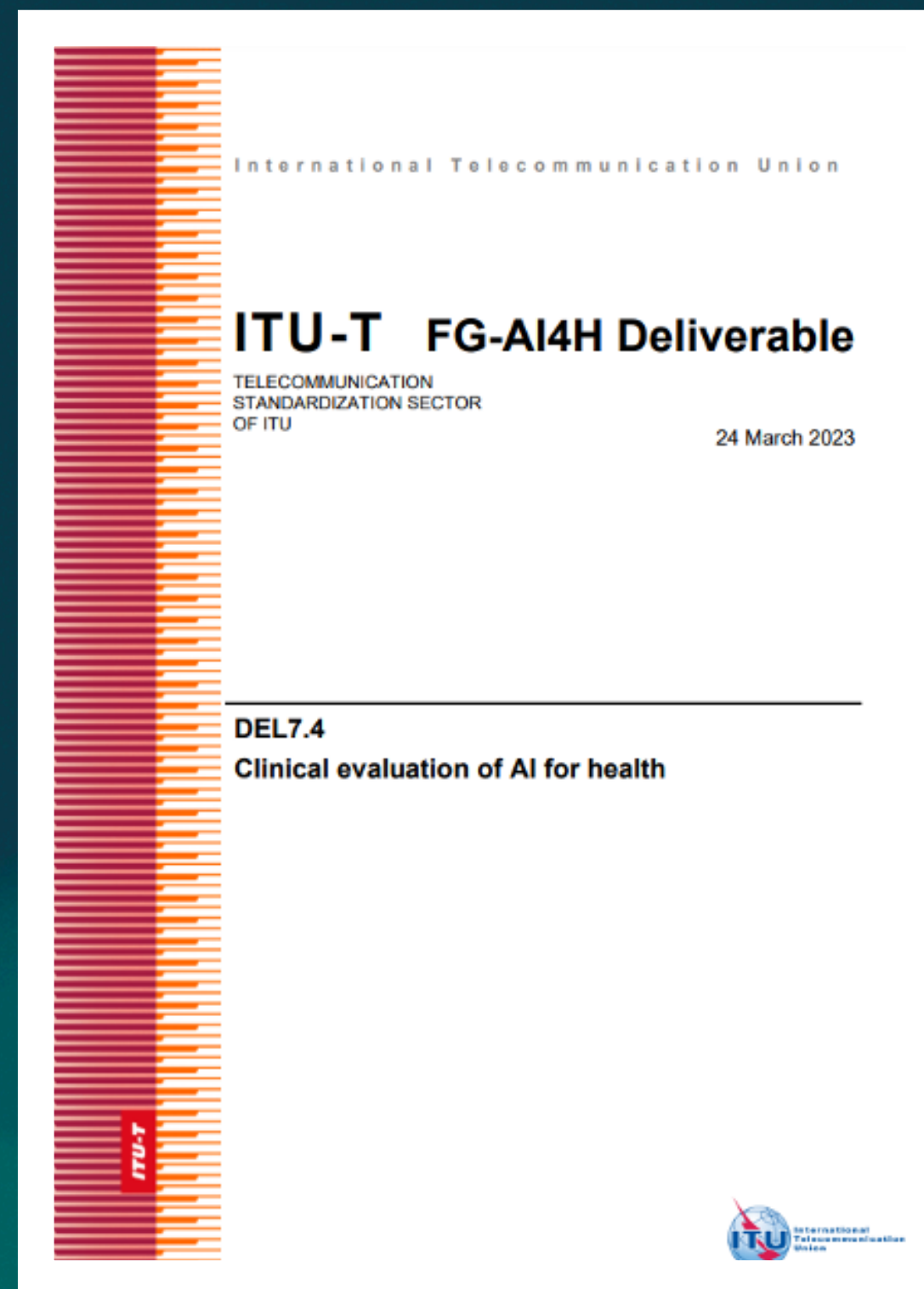


- Participation of international regulators
- Recommendations in 6 key areas: *(not fully inclusive)*
  - 1) Documentation & transparency
  - 2) Risk management & AI systems development lifecycle approaches
  - 3) Analytical & clinical evaluation
  - 4) Data quality
  - 5) Engagement & collaboration
  - 6) Privacy & data protection





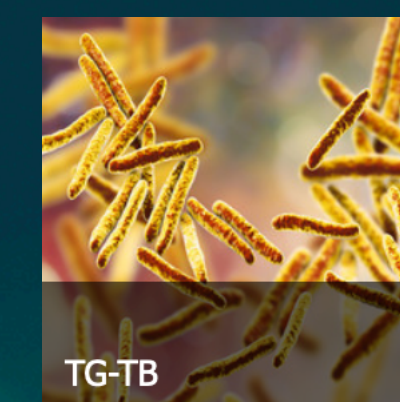
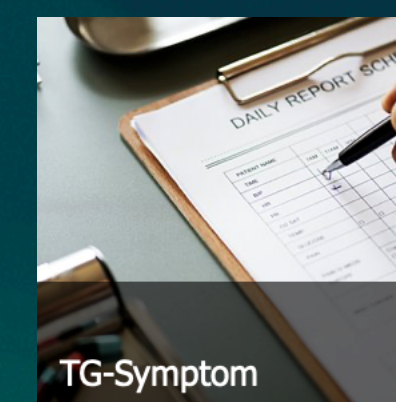
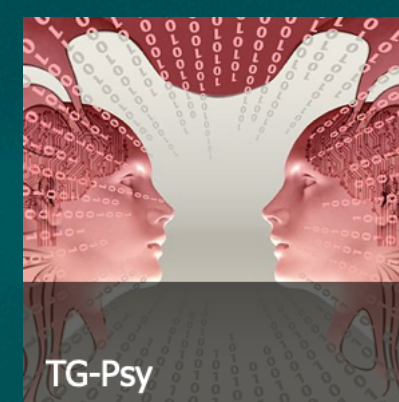
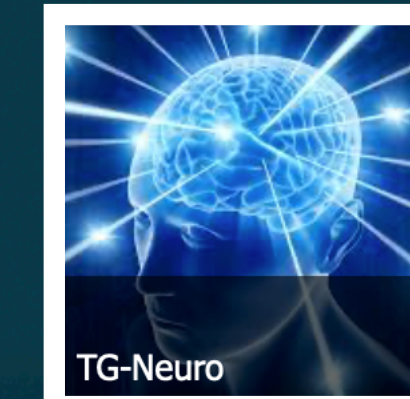
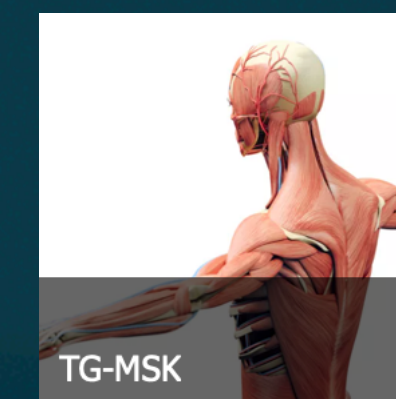
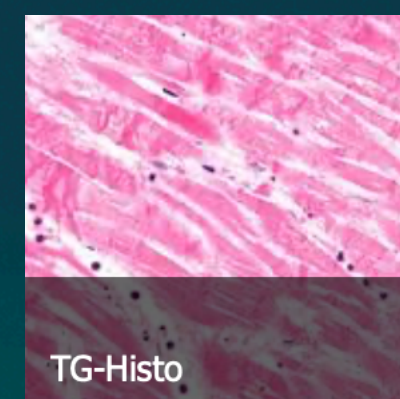
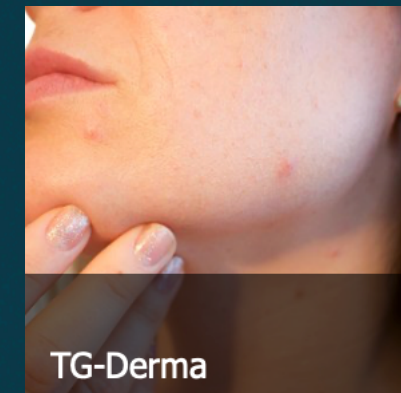
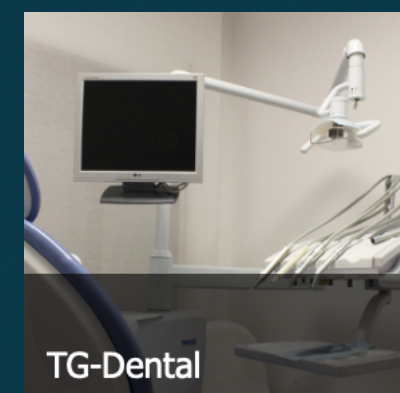
# Framework Clinical Evaluation of AI for Health





# Documentation & Guidelines

## Topic Groups: Created benchmarking standards for health AI

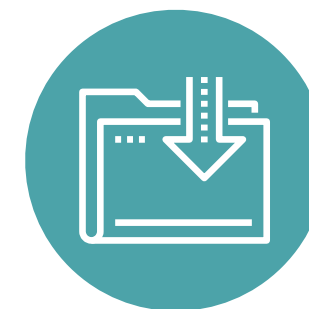
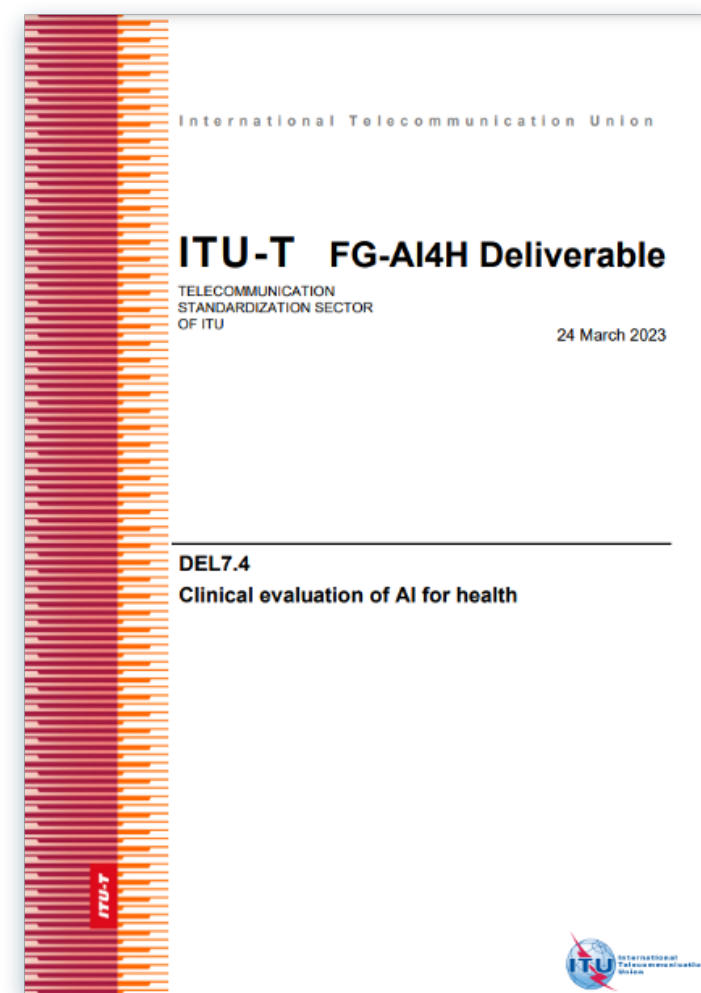


- 24 specific health use cases bringing together domain experts & data
- propose procedures to benchmark AI models for a given task within a health topic



# Key Objectives

## Focus Group AI for Health



Test data  
acquisition



Test data  
storage



Test data  
annotation



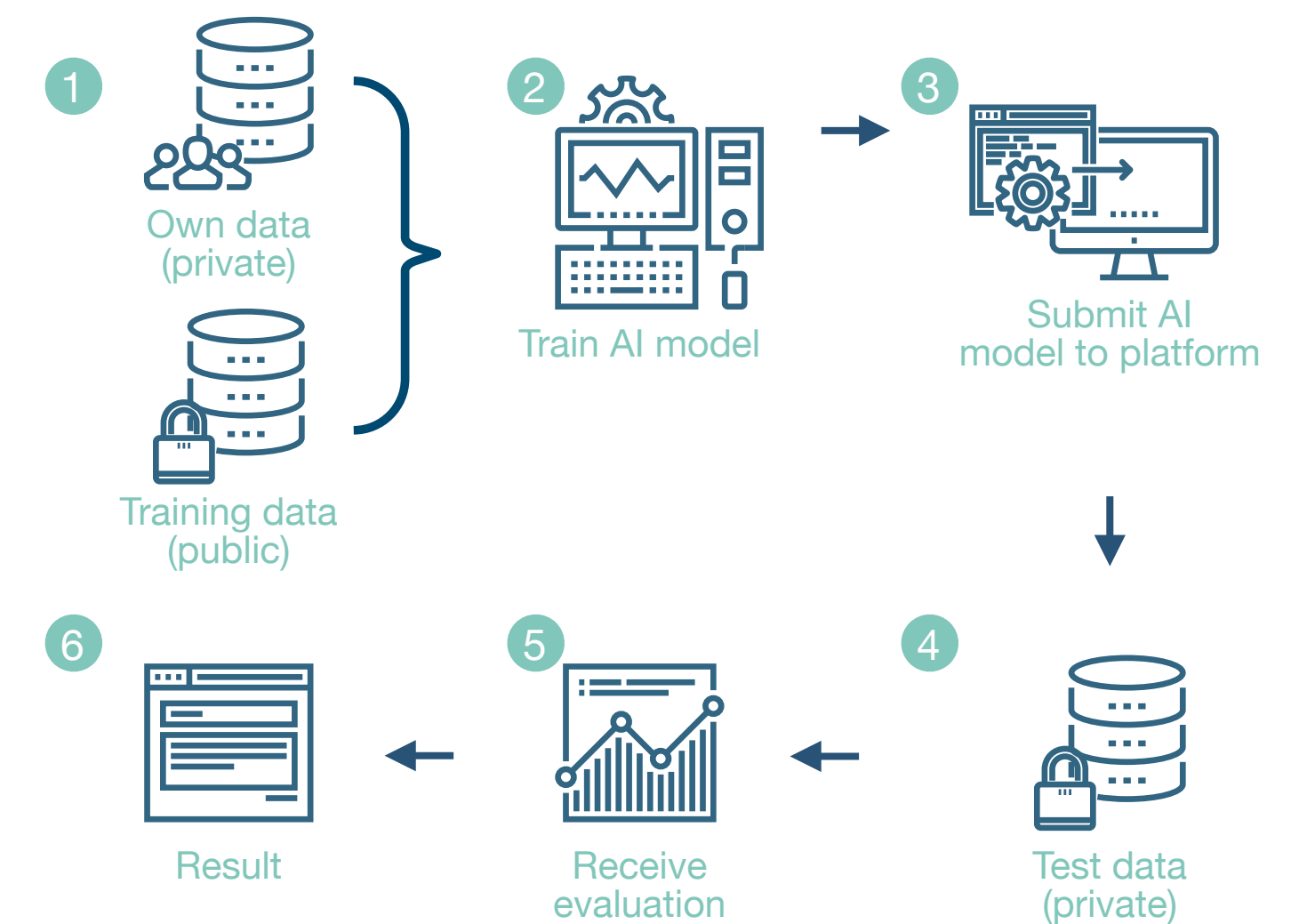
AI prediction



Assessment  
of AI prediction



Report of results



Guidance documentation:  
working & topic groups

Open source software  
<https://github.com/fg-ai4h>

Benchmarking & AI auditing





# Global Initiative on AI for Health

## Key Objectives



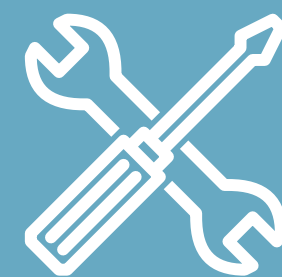
← Tweet

**Tedros Adhanom Ghebreyesus**   
@DrTedros

AI holds great promise for improving the delivery of healthcare and medicine, and helping countries achieve universal health coverage. I was pleased to launch the @WHO-@ITU-@WIPO Global Initiative on AI for Health, at the #AIforGood Summit today.



7:18 PM · Jul 6, 2023 · 26.8K Views



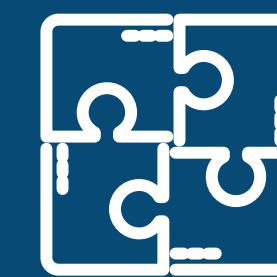
### Enable

Standards,  
governance, policies,  
and guidance on  
evidence-based  
health AI



### Facilitate

Global community &  
collaboration for self-  
sustained AI solutions  
tailored to local  
requirements



### Implement

Support & sustainable  
funding for  
implementation of  
health AI at country  
level



# Thank you very much!



Contact: [eva.weicken@hhi.fraunhofer.de](mailto:eva.weicken@hhi.fraunhofer.de)  
FG-AI4H website: <https://itu.int/go/fgai4h>

