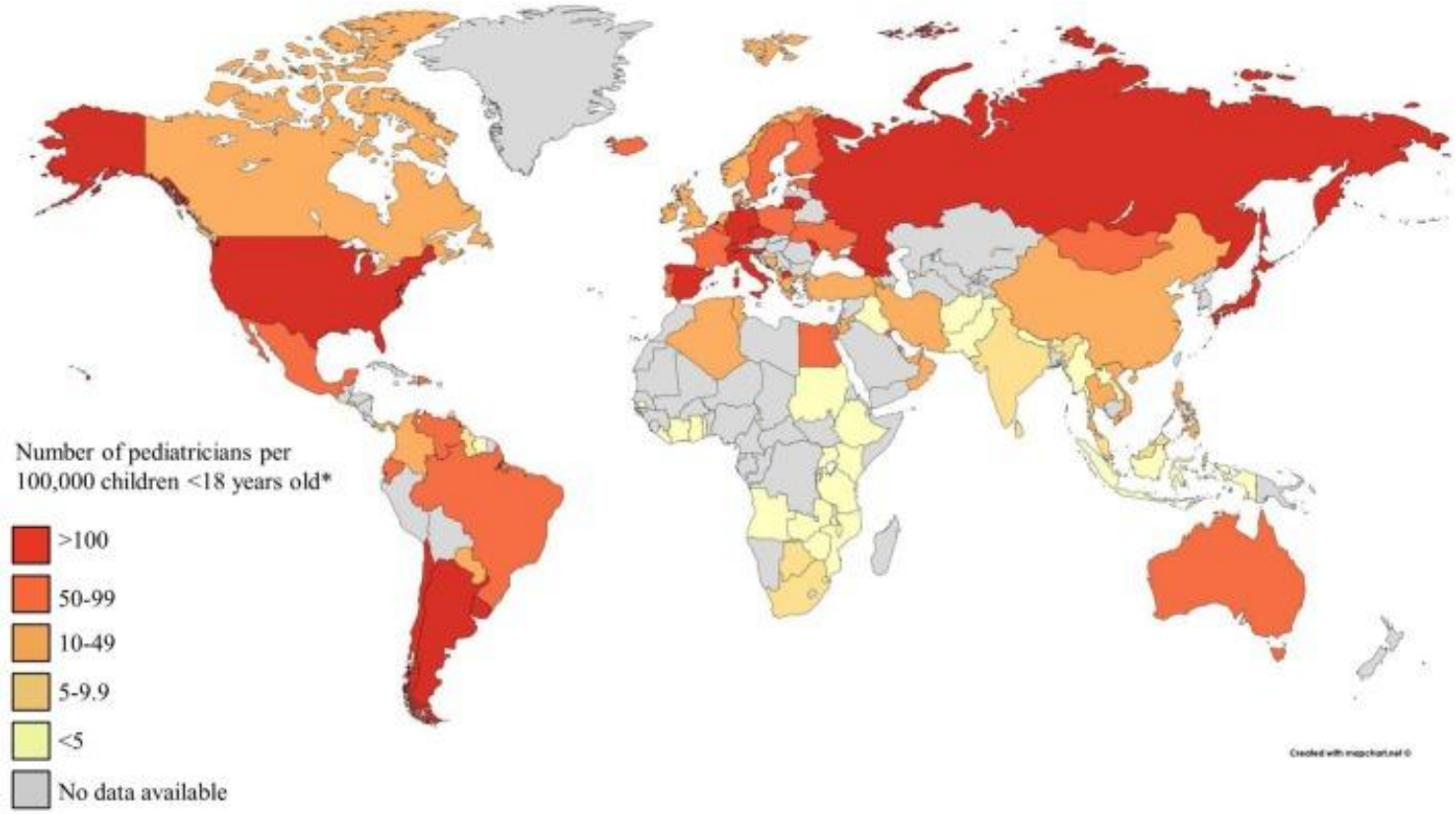
# Usare l'AI per superare le disuguaglianze di salute nel bambino

Alberto E Tozzi
Unità di Ricerca Medicina Preventiva e Predittiva
International Society for Pediatric Innovation

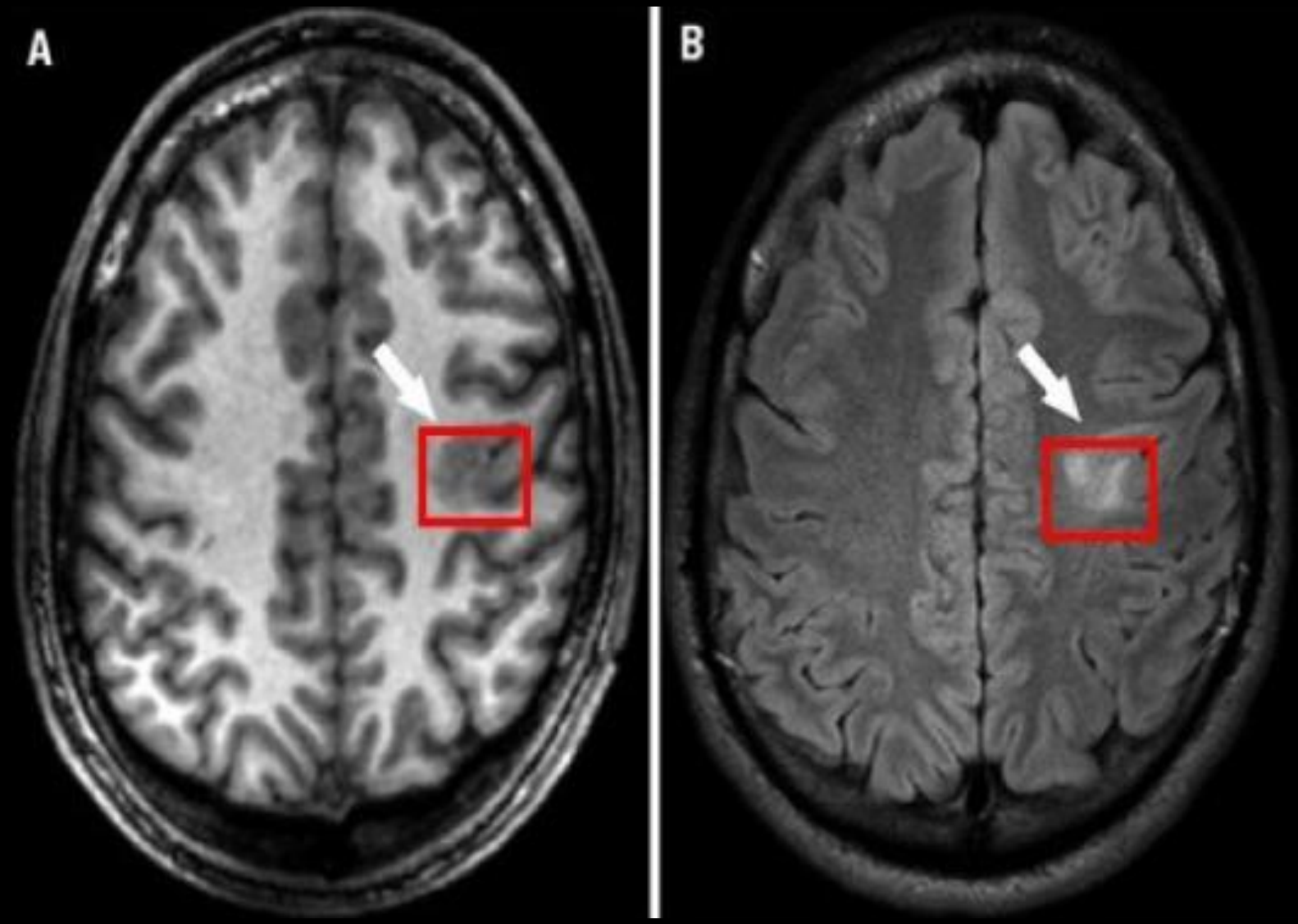
Bambino Gesù OSPEDALE PEDIATRICO

INTERNATIONAL SOCIETY FOR Pediatric Innovation ISPI

# Numero di pediatri per 100,000 bambini

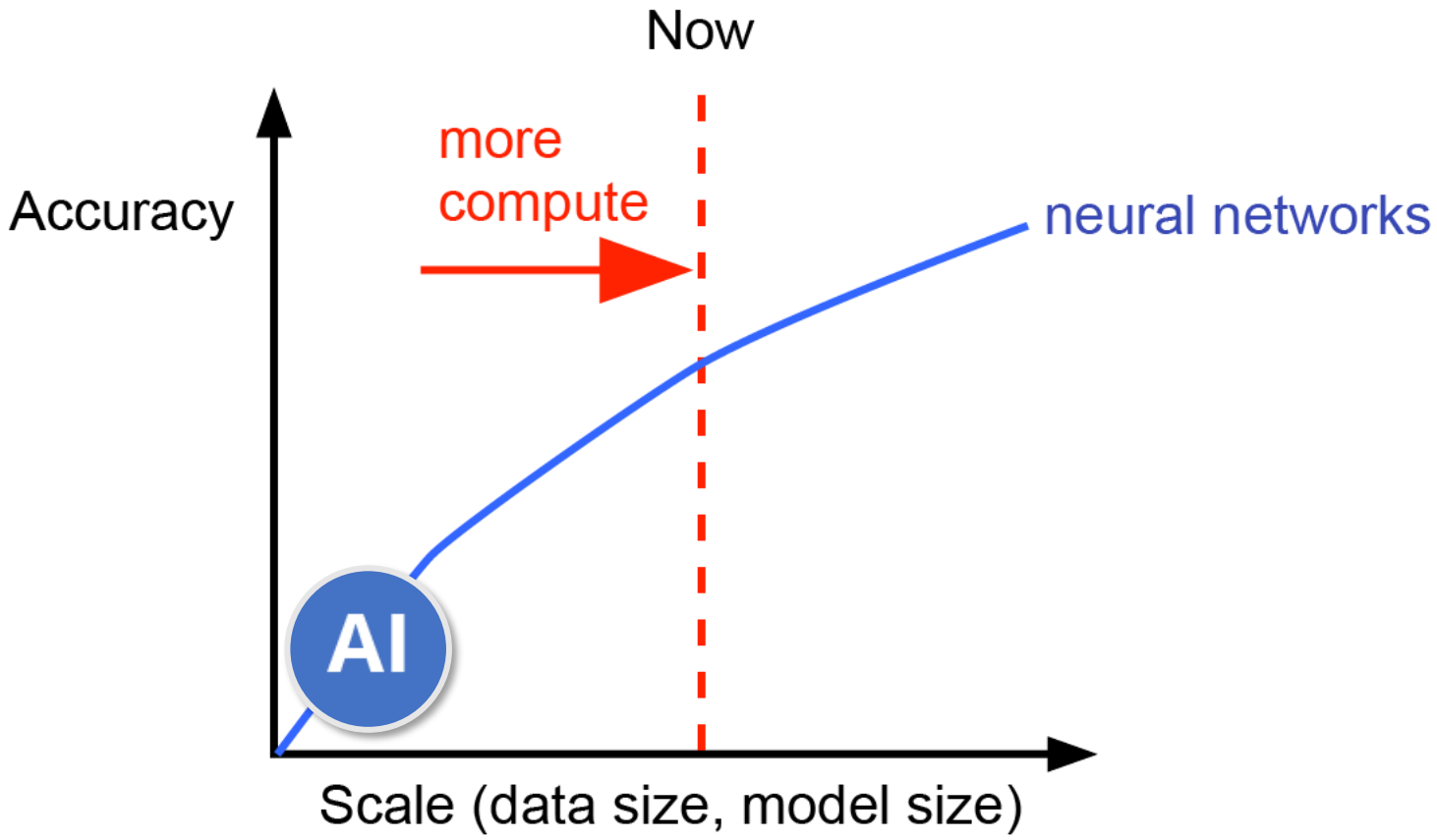



*Data Source: UNICEF Country Statistics




*Brain Sci.* **2023**, *13*(3), 487; https://doi.org/10.3390/brainsci13030487

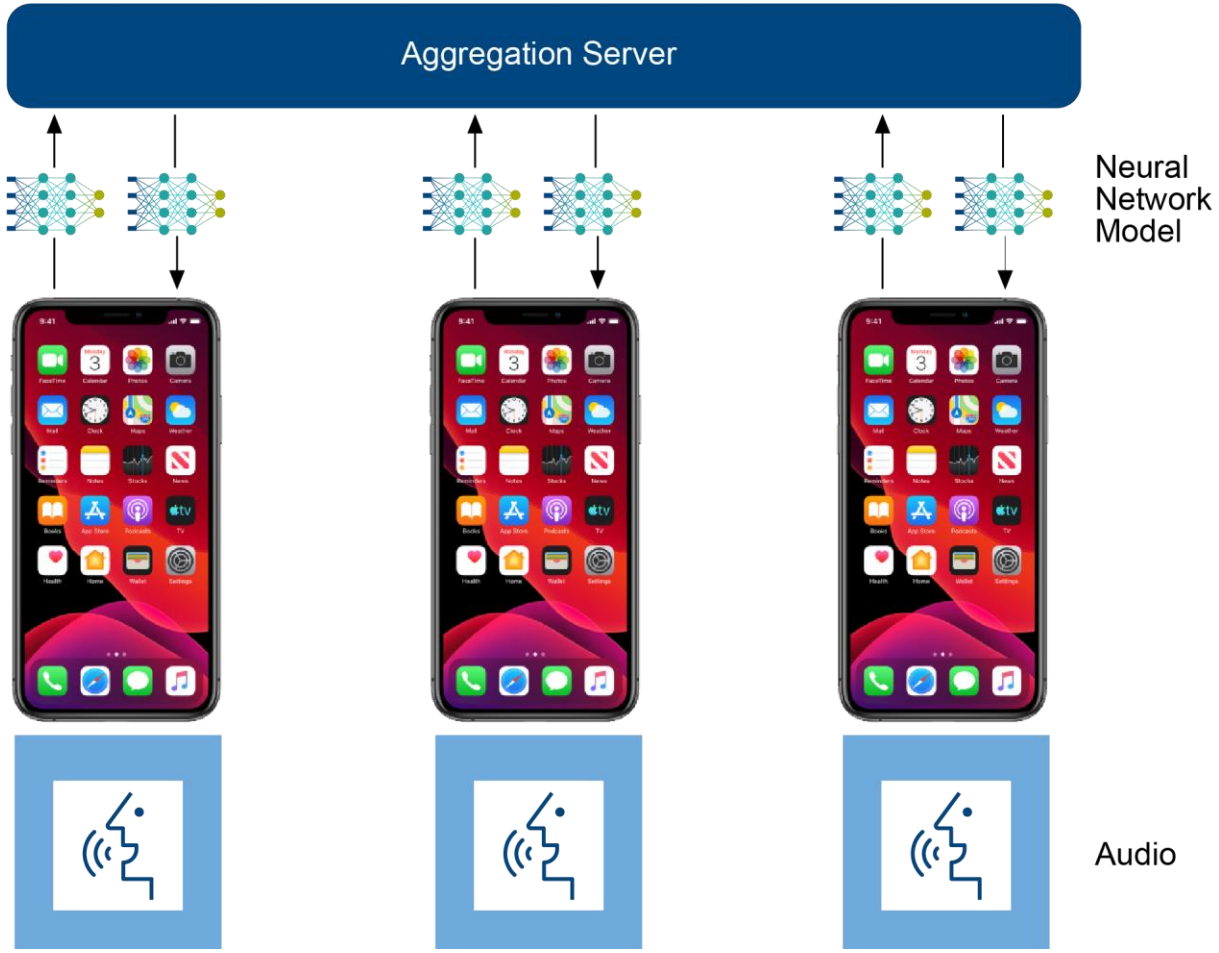
# Le applicazioni di AI per la medicina sono ancora addestrate con pochi dati



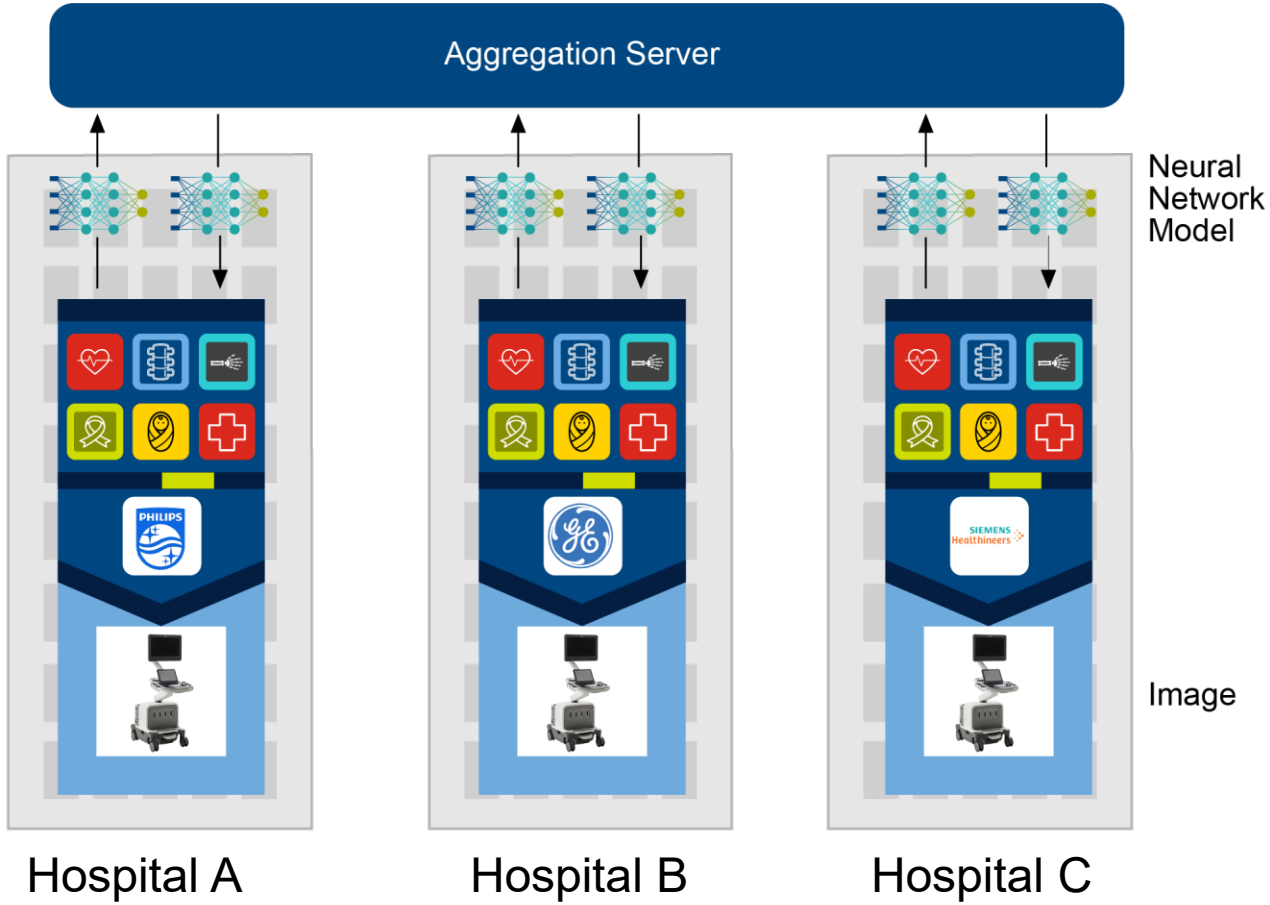

*Courtesy, Jeff Dean, Google*

GDPR

# Come fa lo smartphone a riconoscere la voce del proprietario?



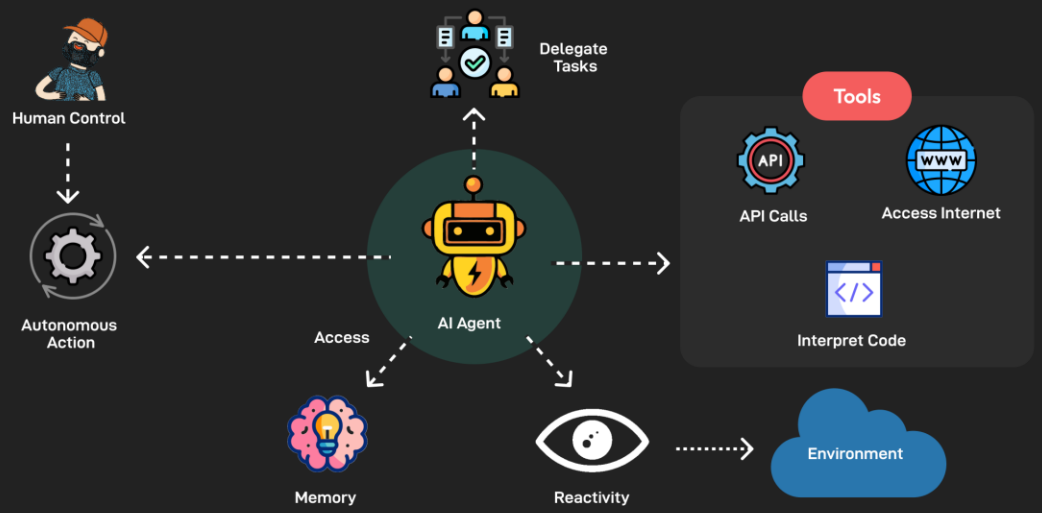
# Possiamo fare lo stesso con i dati di salute?



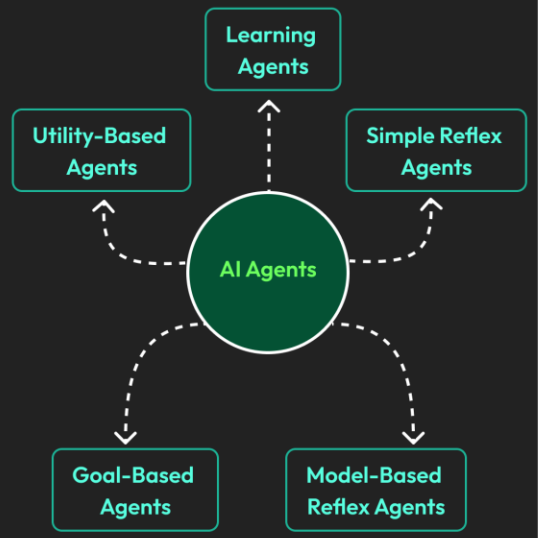
# What is an AI Agent?

ByteByteGo

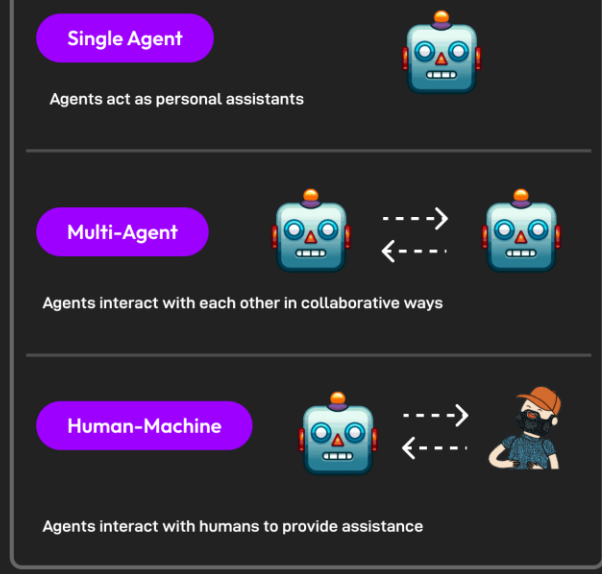
## How AI Agents Work?

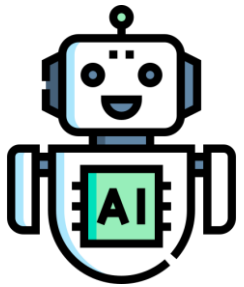



## Types of AI Agents



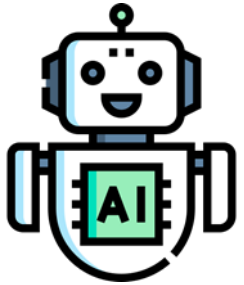

## AI Agent System Architecture



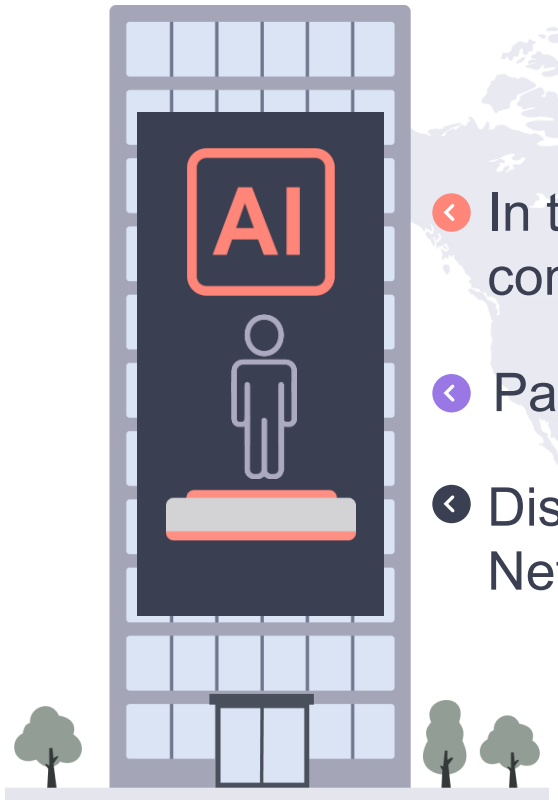

Protocollo

Eleggibilità
in tempo reale




Paziente

# Agenti AI che cercano pazienti per RCT nel rispetto della privacy




- In tempo reale, senza condividere dati individuali
- Patient Digital Twin
- Distributed Compute, Storage Networking e Data Services

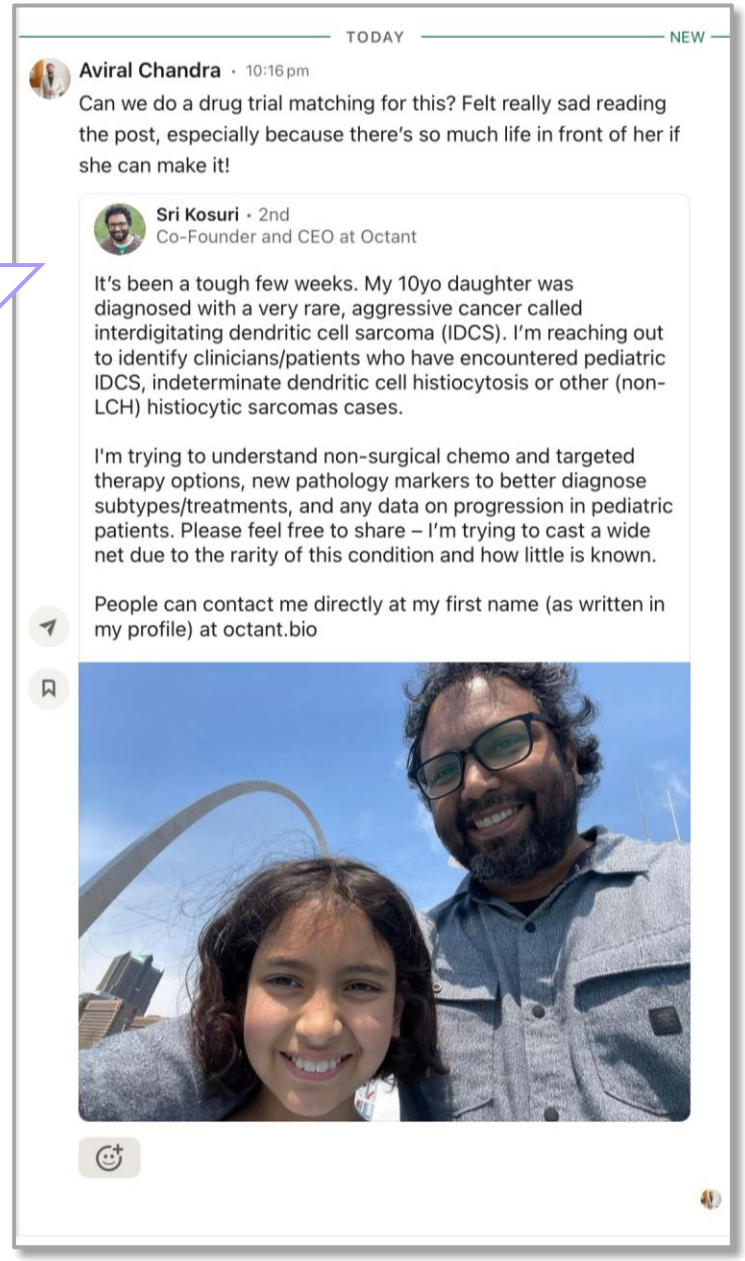
**Studi clinici**

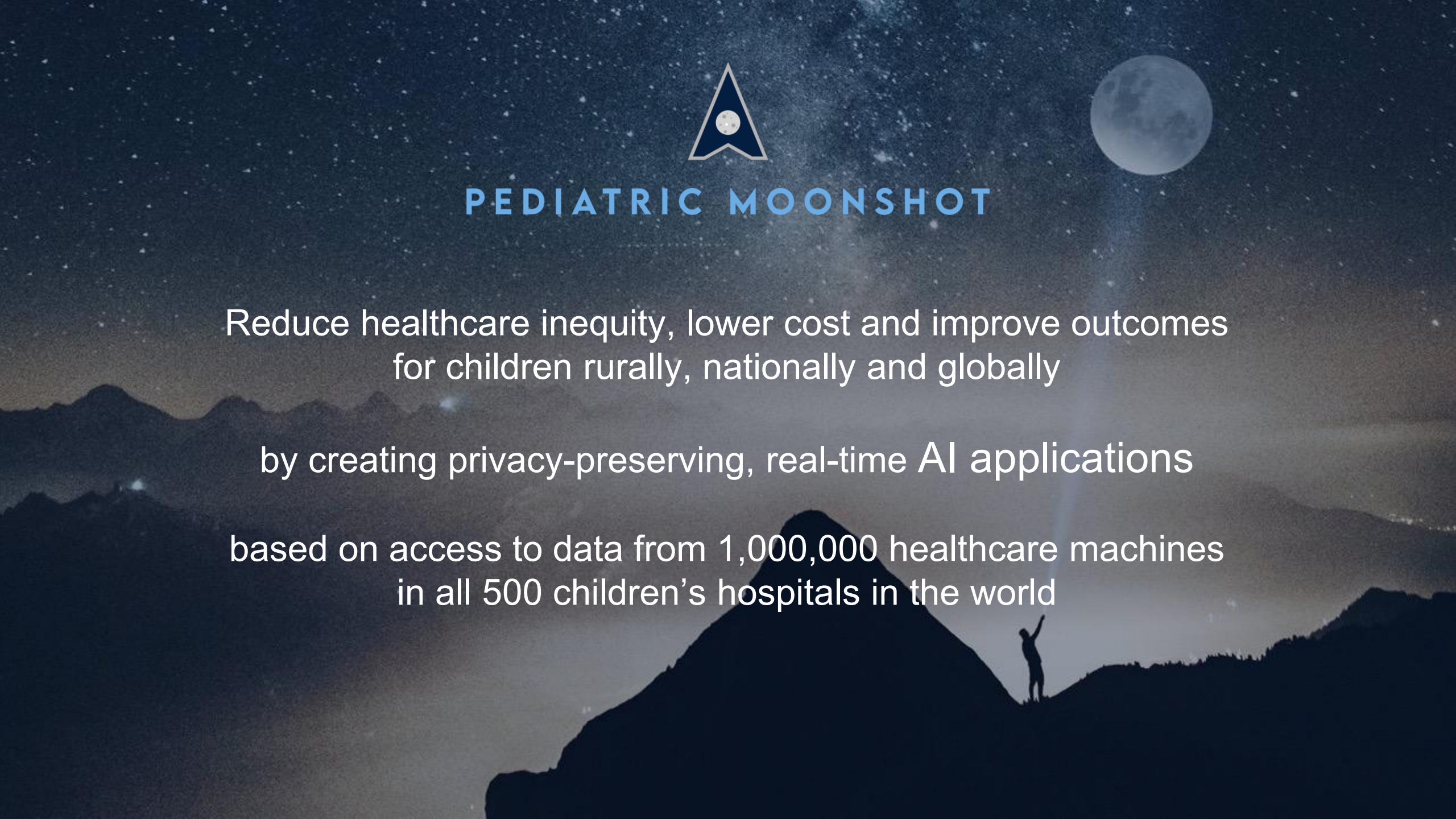
| | | |
|---|---|---|
| Trial 01234567 | Trial 71234567 | Trial 2212457 |
| Trial 11234567 | Trial 7654321 | Trial 51234568 |

*My 10yo daughter was diagnosed with a very rare aggressive cancer. . .*

*I'm trying to understand non-surgical chemo and targeted therapy options*

*…Peop[illegible]n con[illegible]ct me directly*




PEDIATRIC MOONSHOT
Reduce healthcare inequity, lower cost and improve outcomes
for children rurally, nationally and globally
by creating privacy-preserving, real-time AI applications
based on access to data from 1,000,000 healthcare machines
in all 500 children's hospitals in the world