



AI & Data in Healthcare

Healthcare Data Innovation Council

26 September 2024

#DATASAVESLIVES

Welcoming remarks



Benjamin Baelus
Director Government Affairs Belgium
and Luxembourg, Microsoft

Introduction and presentation of the Healthcare Data Innovation Council



Stefano Sedola
Co-founder and partner, Stratejai

About the HDI Council

The HDI council was established in 2022 as **think tank** of multidisciplinary and international healthcare actors aiming at advancing recommendations on regulatory frameworks and promoting opportunities for using **AI and data in the healthcare sector.**

Find out more at
<https://healthdatainnovation.eu>

#DATASAVESLIVES

The **objectives** of the HDI Council are focused on demystifying current and upcoming regulations on AI and data in the industry while promoting opportunities for research and deployment of new technologies.



Promote and share **best practices** on data usage for healthcare evolution



Facilitate **data-driven approaches** in HC systems



Unleash new initiatives on **secondary use of data**



Accelerate harmonization and **data-sharing standards**



Improve the usage of **AI and advanced analytics**



Our **members** are multidisciplinary and international experts representing the main segments of the healthcare industry.

20 experts in 2022

24 experts in 2023

Participation in the HDI Council is on a **voluntary** basis.

Experts represent the perspective of their industry sector but are not engaged in an official capacity.

Overview of represented organisations:

Patients

- Foundation 29 (ES)
- Patient Support R (BE)

Research Institutions

- Imperial College London (UK)
- EU *H.Pylori* Registry (ES)
- ITI (ES)

Physicians & Health Workers

- INCLIVA (ES)
- Karolinska University Hospital (SE)
- Udine University (IT)
- IPO Porto (PT)
- CHU-Brugmann (BE)
- University of Latvia (LV)

Life Sciences & Healthcare Organizations (commercial org.)

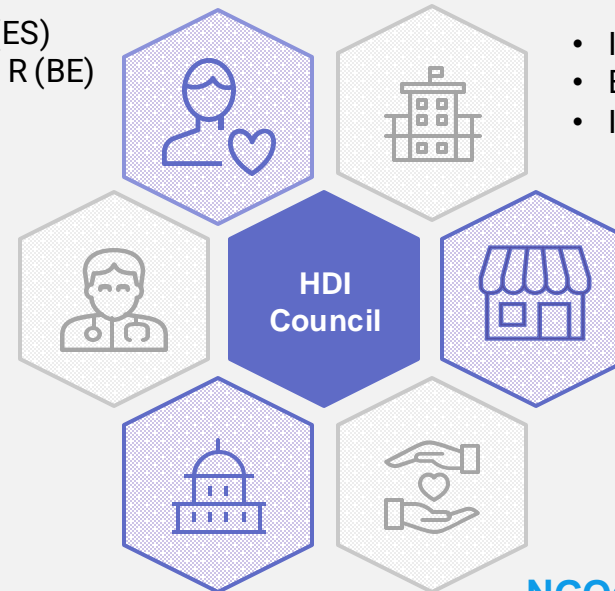
- Takeda (CH)
- Microsoft (BE)
- Decentriq (CH)
- SLP Lawyers (IT)
- Stratejai (BE)

Payers & Regulators / Government

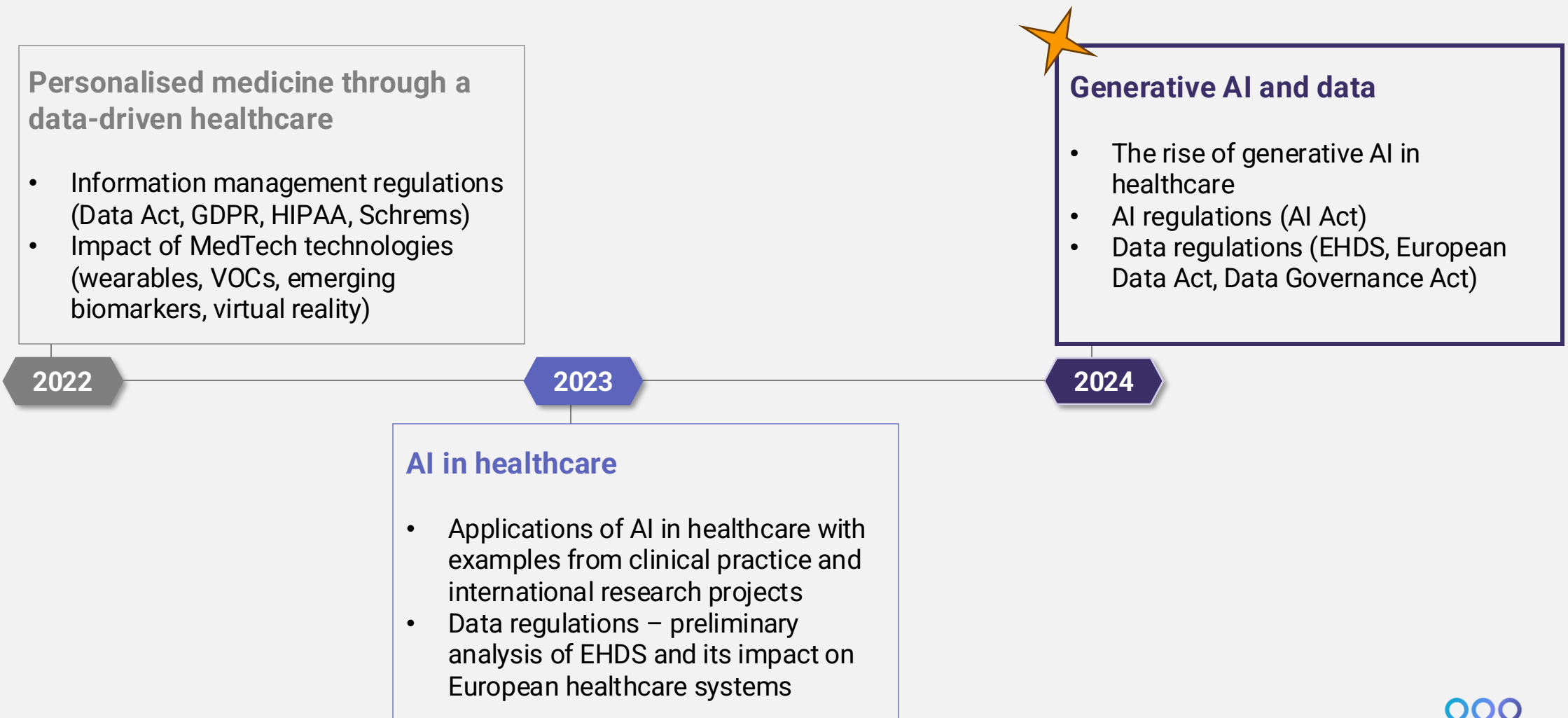
Advisors for governmental or international policies and regulations

NGOs & IGOs

- Novartis Foundation (CH)



Each edition has a specific flavour and **narrative** to comprehensively address challenges of healthcare systems.



Successful outcomes from previous editions

2022

- Established a **network of experts**
- Interviewed **key industry players**
- Promoted the culture “**Data saves lives**”
- Strong synergies were established with **Gaia-X team**
- Published a **White Paper** with recommendations and calls to action
- Built an online **stories** repository
- International **visibility** on various media

2023

- **Consolidated and expanded** the network
- **International events** to promote the work of the Council (in Milan, Brussels and Zurich)
- Spurred **collaboration initiatives** in research projects
- Drafted an **annex with takeaways and recommendations**
- Shared some **use cases and stories**



The Council successfully connected with other EU initiatives and gained international visibility

Novartis Foundation
16,557 followers
3mo · 🌐

Gaia-X Association for Data and Cloud (AISBL)
10,861 followers
8mo · 🌐

The Digital Health Society
4,887 followers
8mo · 🌐

Ermit
436 followers
8mo · Edited · 🌐

Open-sou...
from being

Read abou...
healthcare

#GaiaX perspective on #Health #DataSpaces, presented yesterday by **Jeroen Tas** at the **Healthcare Data Innovation Council**

We are delighted to be attending the **Healthcare Data Innovation Council** event on Tuesday in Brussels to discuss a range of subjects related to #health data. We w...
- What is the particular o...
- Why has...
- What is the...
- What is the...
#healthcare
Francesco

Just a few...
Brussels c...
International...
challenge...
The event...
Find out m...
<https://lnk...>
#innovati...

ermit
SOLUTIONS & MORE

Rees
Digital Health Society
Andrea Pulicelli
Privacy & Info Security | Lawyer

ermit

Gazeta Lekarzy
POSTĘPY MEDYCYNY • ZDR...
ADVANCES IN MEDICINE • F...
You can read our articles using Google Translator – go to the bottom of the page and o...

euronews My Europe World Business Sport Green Next Travel Culture Video Programs

WORLD
"Given good common." Artificial intelligence applied to medicine
By **Samuele Damilano** · last updated: 20/06/2022

Pledge Times
World Business Gaming Tech Entertainment Science Lifestyle Health Spor...
vizlib Add Visual Power to your Qlik Sense apps Start Free Trial

New White Paper calls for removal of barriers to harness the power of AI, to save lives and...
Nadrzędna kategoria: ROOT | Kategoria: **Nowości** | Opublik...

Press release

Home - Health

Big data in healthcare, obstacle course: "We need an urgent reform of legislation and privacy"

Edizioni Locali Servizi **CORRIERE DELLA SERA** ABBONATI Accedi

Big data in sanità, corsa a ostacoli: «Serve una riforma urgente della normativa e della privacy»
di **Ruggero Corcella**
Lo chiede Healthcare Data Innovation Council in un libro bianco. Secondo gli estensori, l'attuale quadro normativo rischia di bloccare lo sviluppo dell'assistenza sanitaria

DIZIONARIO DELLA SALUTE
Cerca il tuo organo/patologia

Doctor33
HOME NEWS CANALI TEMATICI BACHECA ANNUNCI BIBLIOTECA DIGITALE
POLITICA E SANITÀ
Home / **Politica e Sanità** / Big data e salute, verso un mercato da 194 miliardi di dollari r...

Big data e salute, verso un mercato da 194 miliardi di dollari nel 2030
TO FARMACEUTICO, BIG DATA

S&T · Tecnologie
ANSA.it · Scienza&Tecnica · Tecnologie · AI, app e robot, tutela salute diventa hi-tech

AI, app e robot, tutela salute diventa hi-tech
Verso mercato da 194 miliardi di dollari ma servono nuove regole
Redazione ANSA 21 giugno 2022 22:33

DALLA HOME SCIEN...



Innovative AI technologies transforming care and medical research



Andrea Pescino
Co-founder and partner, Stratejai



Innovative AI technologies transforming healthcare

Andrea Pescino
a.pescino@stratejai.com



Exponential Change

ELIZA EFFECT

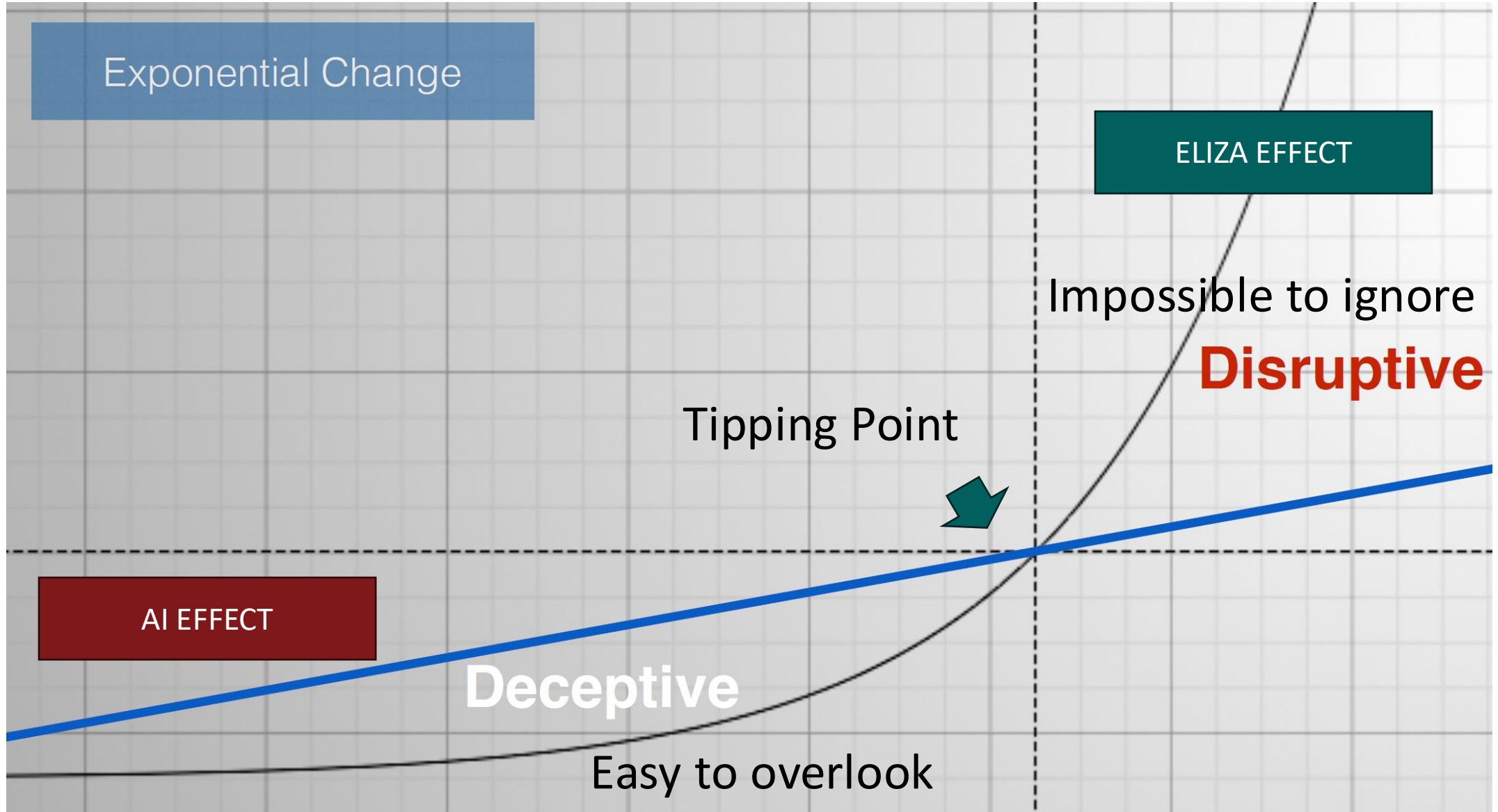
Impossible to ignore
Disruptive

Tipping Point

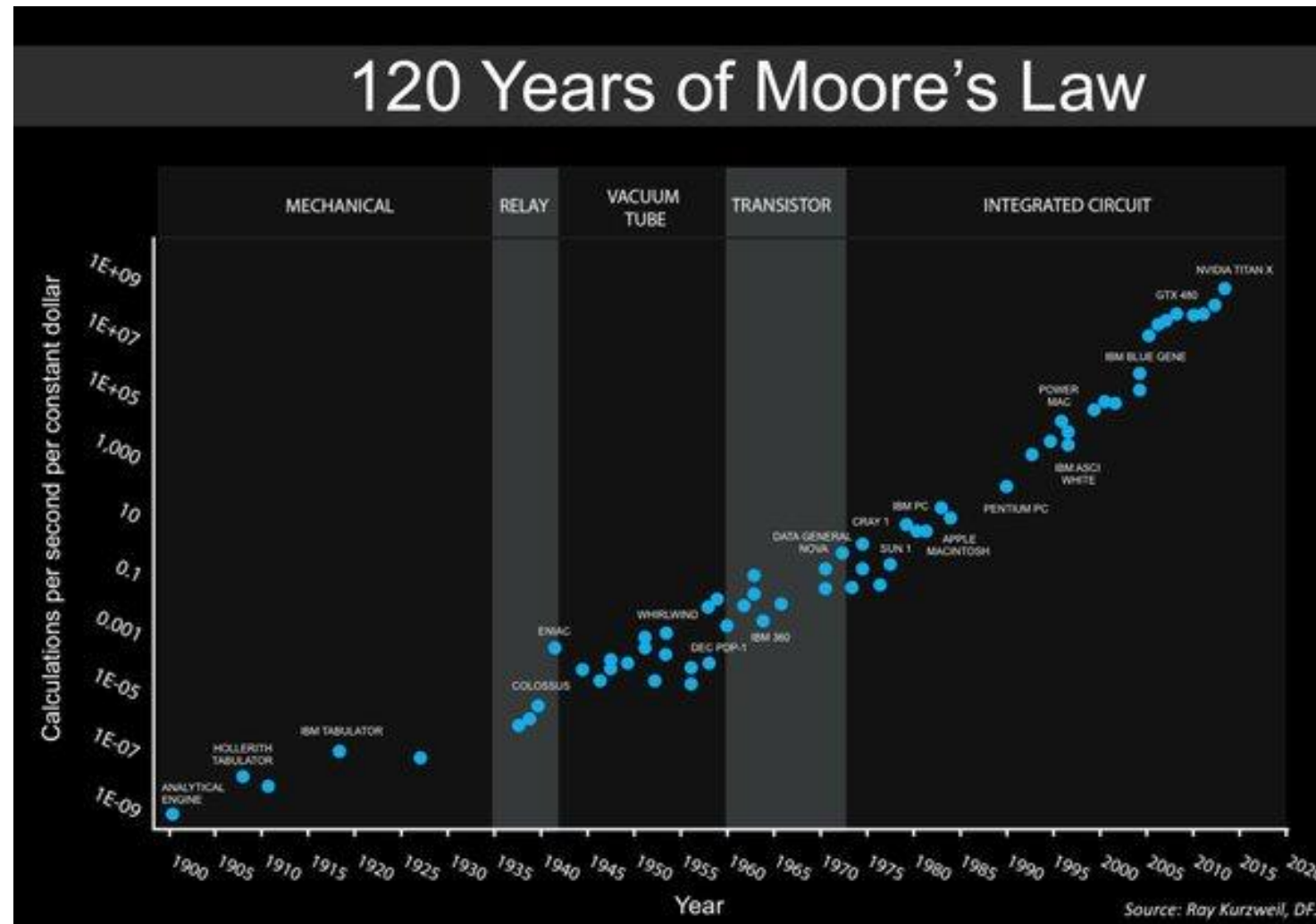
AI EFFECT

Deceptive

Easy to overlook



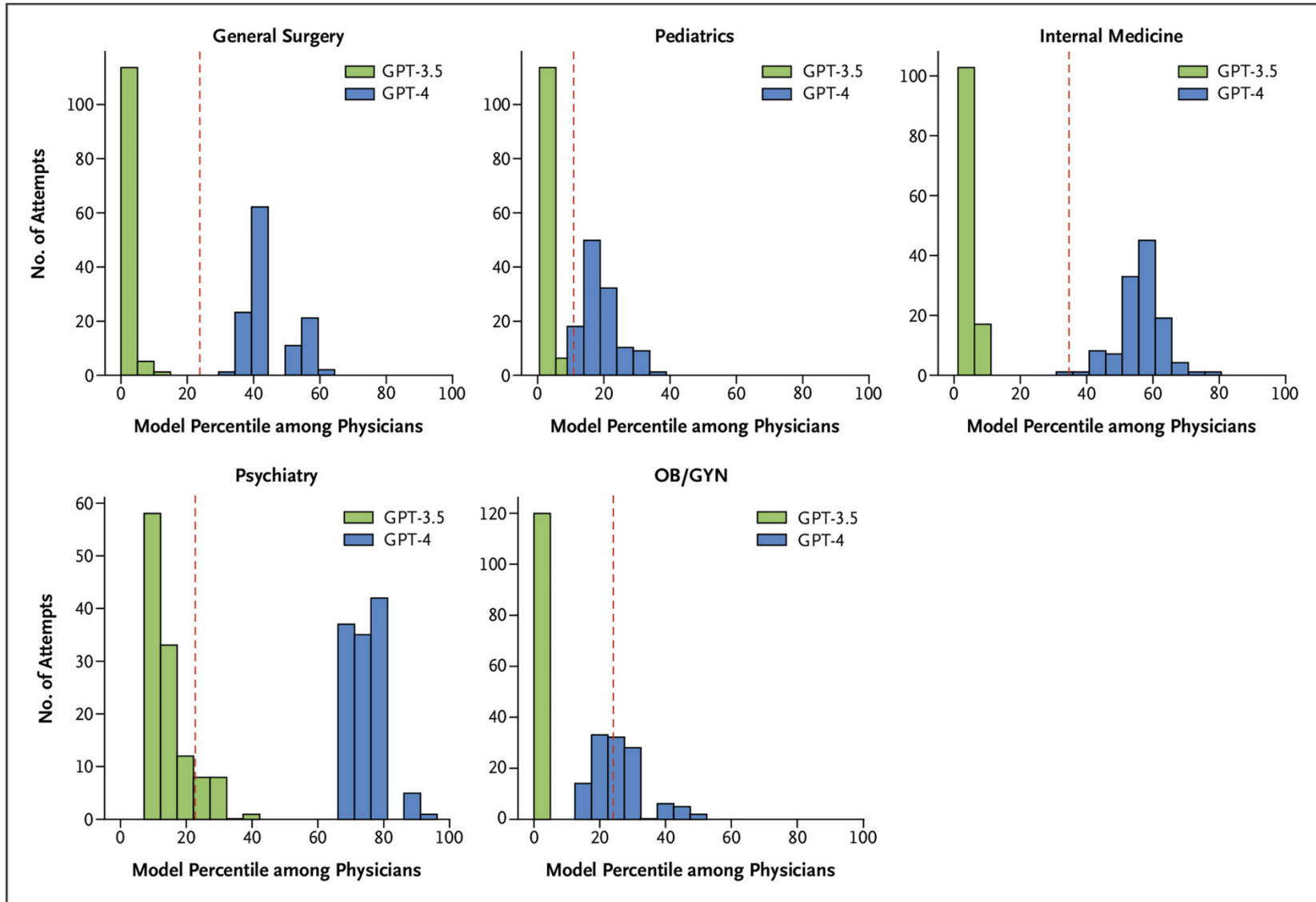
Computing capacity at fixed dollar



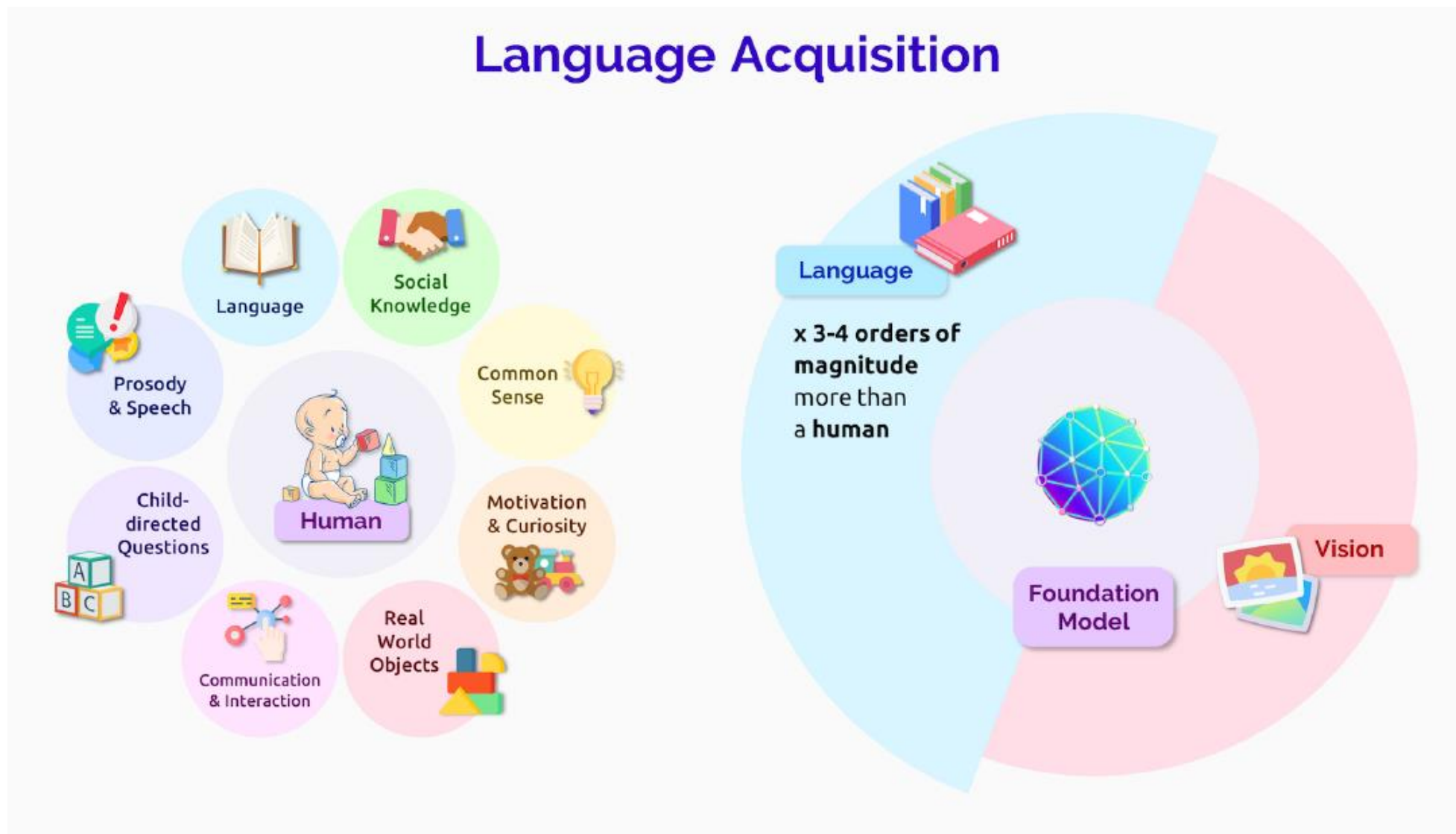
Artificial Intelligence and Foundation models

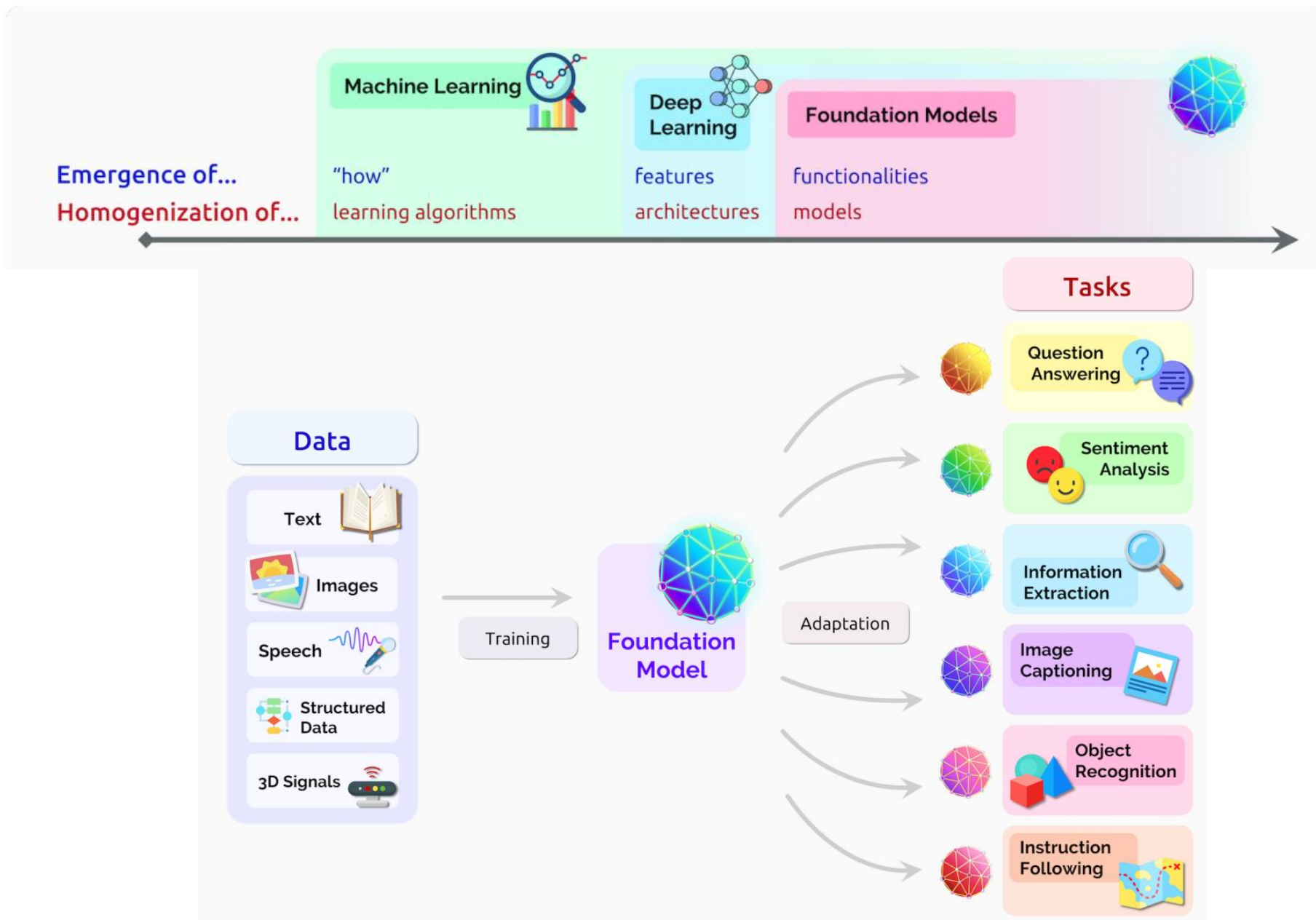
12 April 2024 – Tel Aviv University

- Comparing GPT-3.5 (Free at the time), GPT-4 and a large cohort of physicians (849)
 - All residents who took an medical specialist license examination in Israel in 2022
 - Across the core medical disciplines: Internal Medicine, General Surgery, pediatrics, psychiatry and obstetrics and gynecology (OB/GYN).
 - To account for model stochasticity, each model for each examination was tested 120 times.
- The strong power of benchmarks

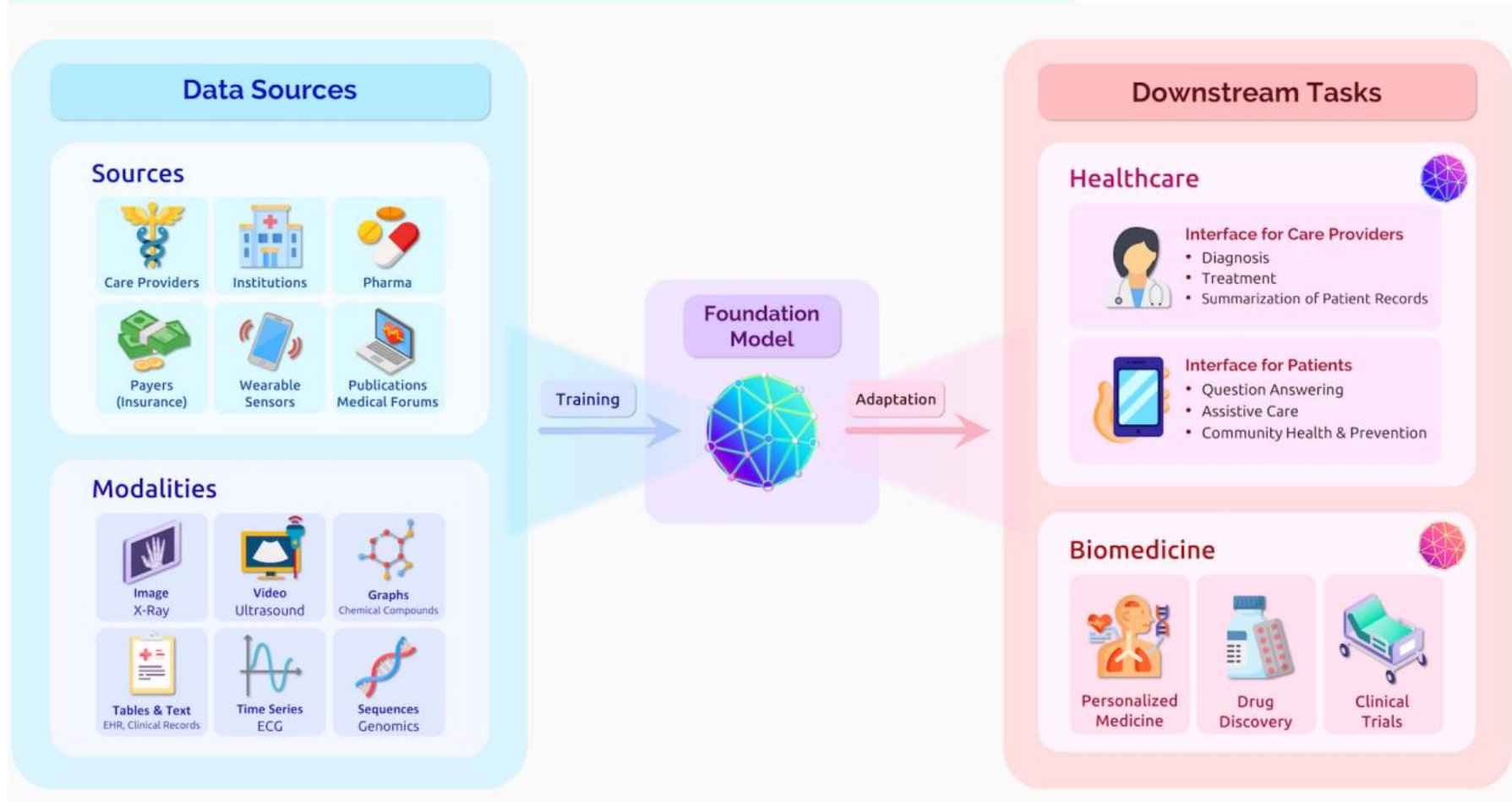


AI Foundation Models

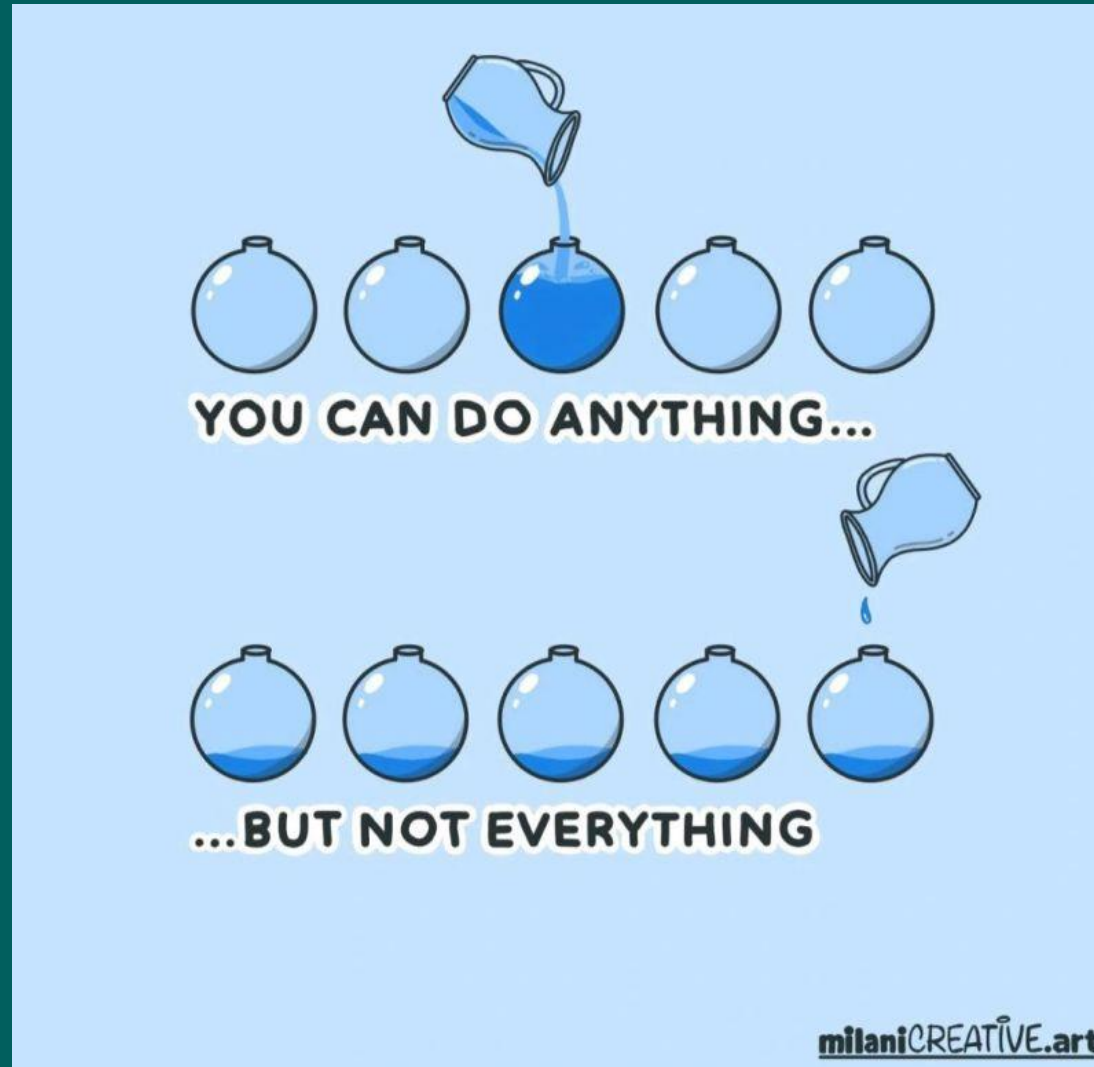




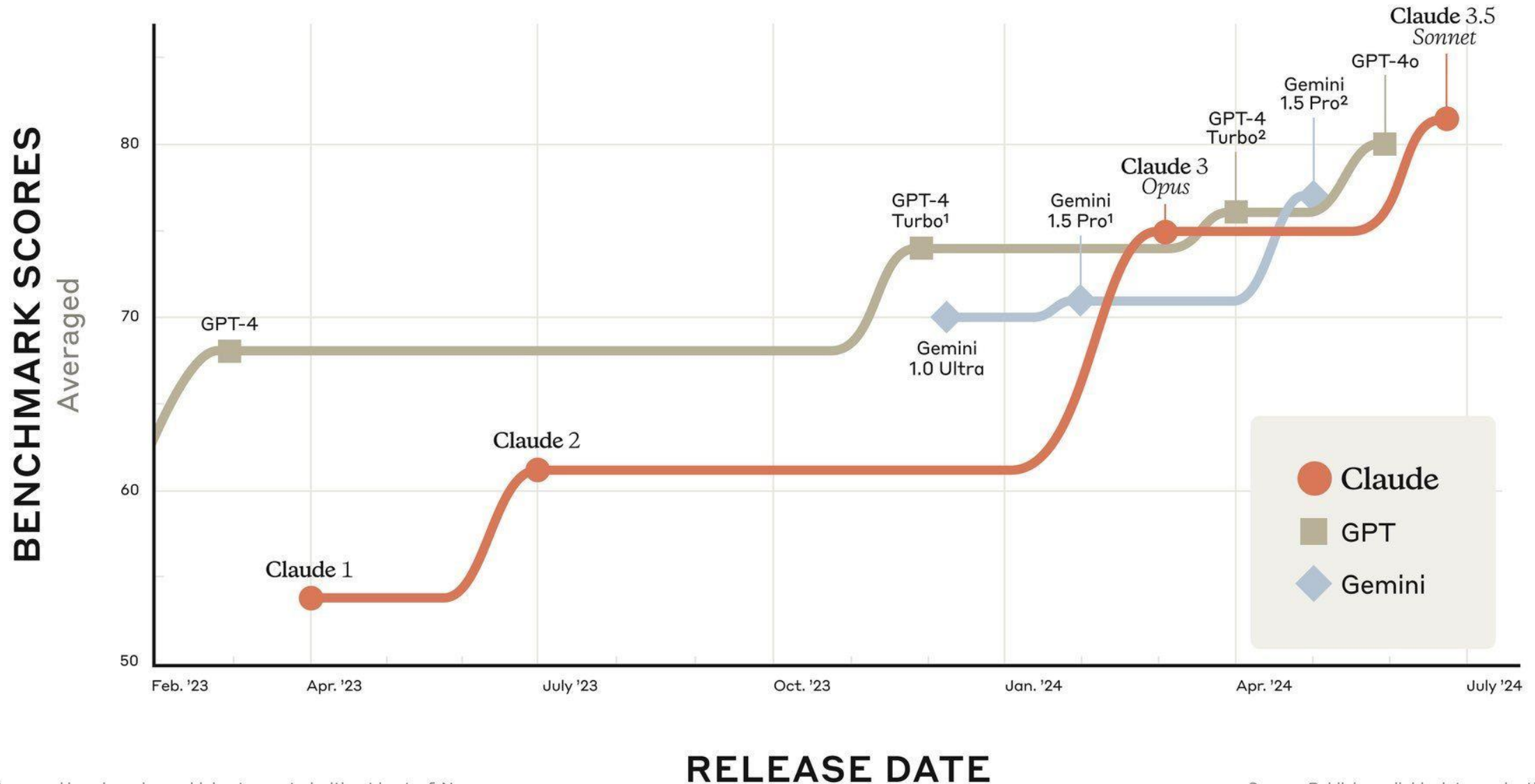
3. Applications



Value of adaptation – Foundation models



AI model release and capabilities timeline



Averaged benchmarks are highest reported without best-of-N: MMLU, GPQA, MATH, MGSM, DROP F1, HumanEval pass@1, MMMU, AI2D, ChartQA, DocQA, Mathvista

Source: Publicly available data; evaluation scores are the average of representative scores found online. 1 = Initial release; 2 = Second release

Integration Maturity Scenario

Gen AI integration Maturity Progress

BASIC

READY

DYNAMIC

ADVANCED

Progress

Phase 1 – Vast Majority

Awareness

- Discovery of the Technology
- Spotted usage by bottom-up adoption

Adoption

- Understanding the value of the tools
- Distribution of specific tools to users
- Basic training

Evolution

- First integration with docs and data (RAG)
- Dedicated teams to test basic solutions
- First basic applications (API)

Adaptation

- Foundation Model Approach
- Fine-tuning on internal, curated data
- Dedicated structured training journeys

Optimization

- Multiple Model Picking based on requirements
- Optimization strategies and ops
- Dedicated R&D

Architectural Impact

- Multi-Agent applications
- Embodiment and infusion on products and core applications

AI Agents

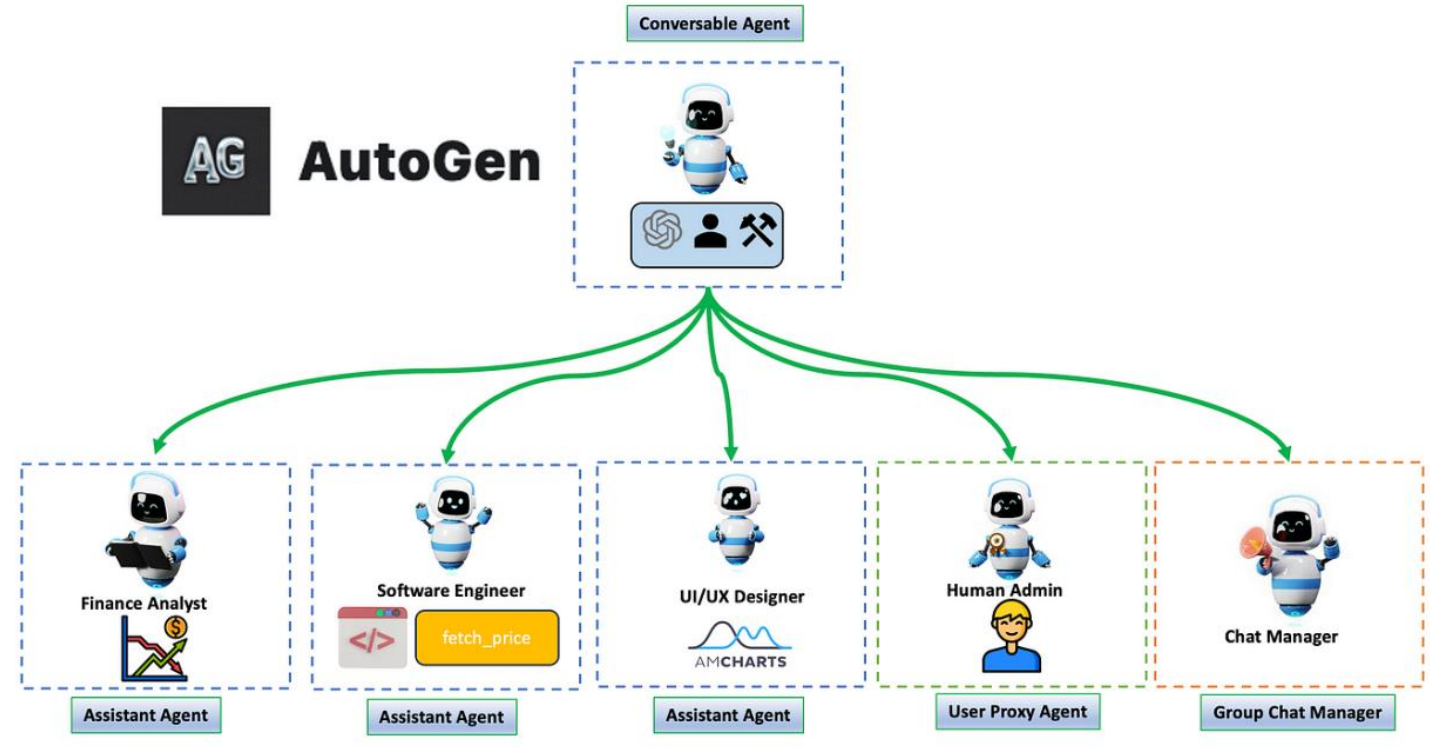
Multi-agent applications are set to redefine software solutions.

Agents will employ interchangeable models as their core engines

Agents will be built on various AI techniques, both numerical and semantic

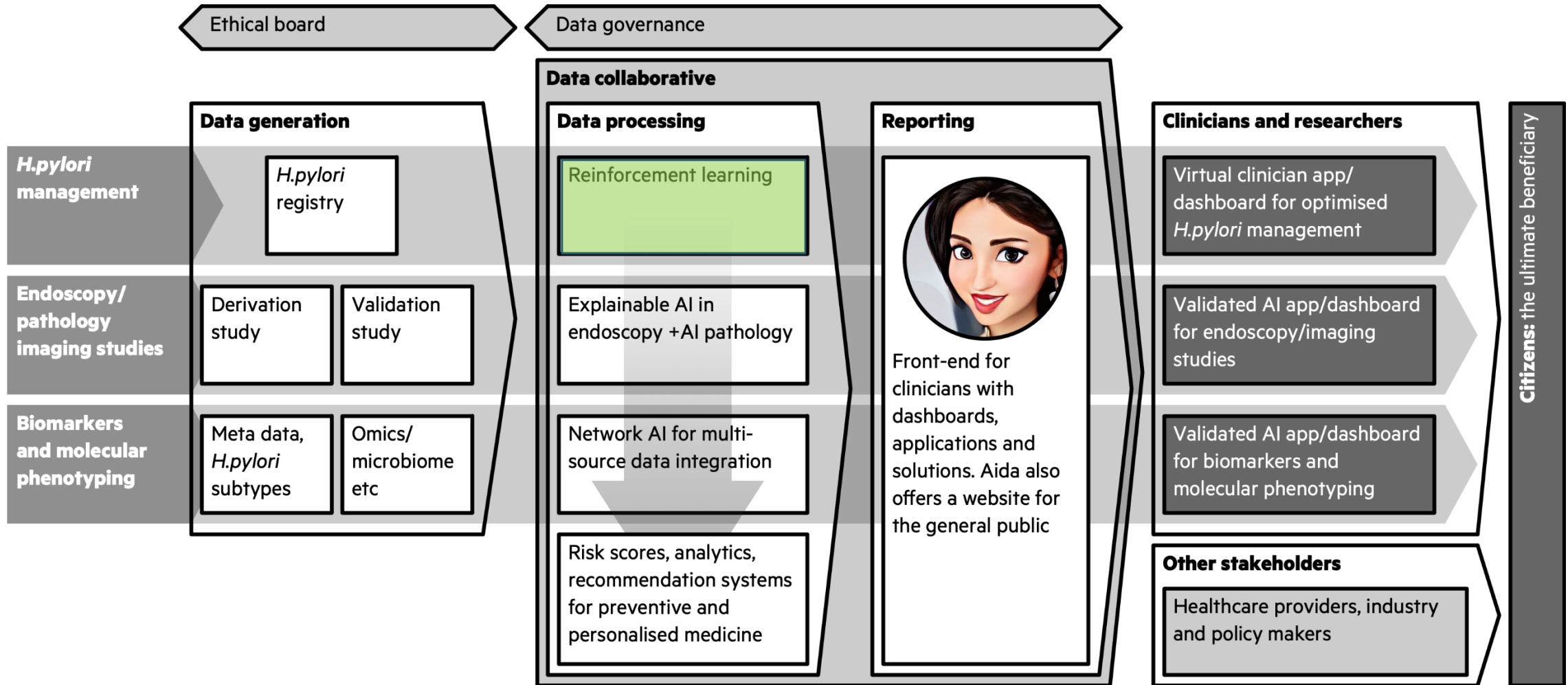
Continual adaptation and optimization of agents will be crucial

Agents don't need to be conversational! (They need it for interacting with humans)



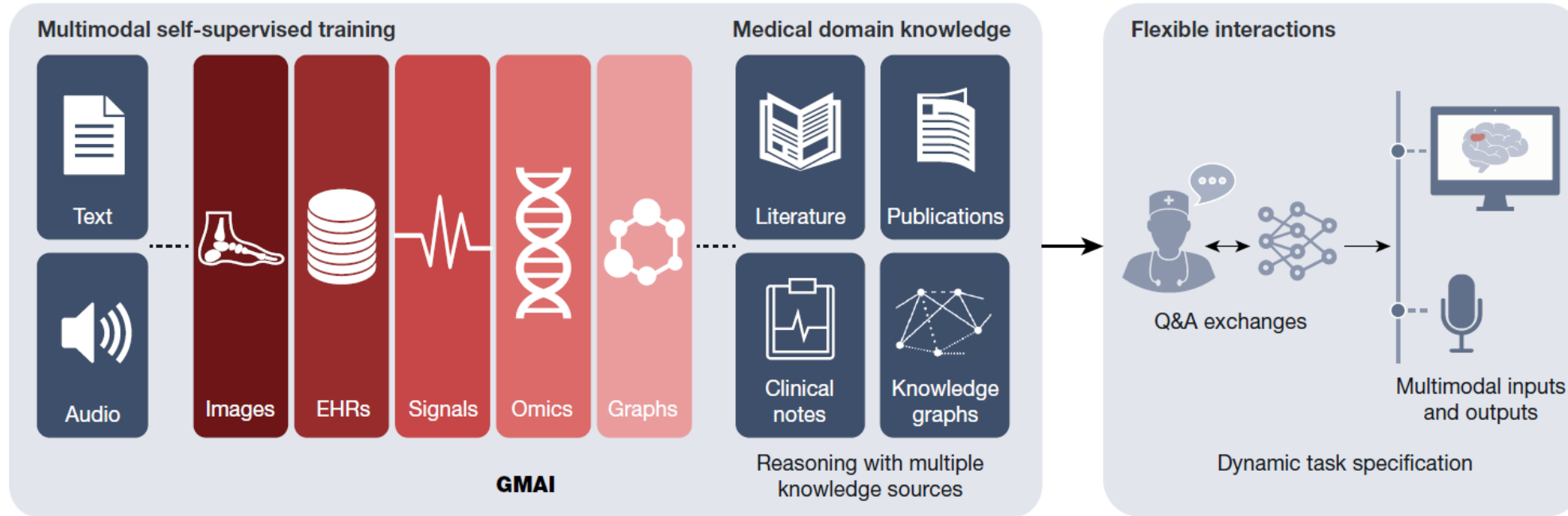
AutoGen as an example

Applied experiences



Foundation Models

a



b

Applications



Chatbots for patients



Interactive note-taking



Augmented procedures



Grounded radiology reports



Text-to-protein generation



Bedside decision support

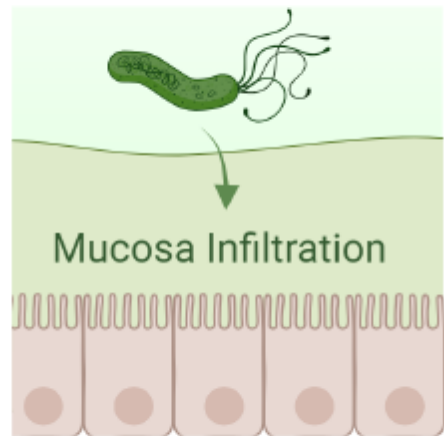
Regulations: Application approval; validation; audits; community-based challenges; analyses of biases, fairness and diversity



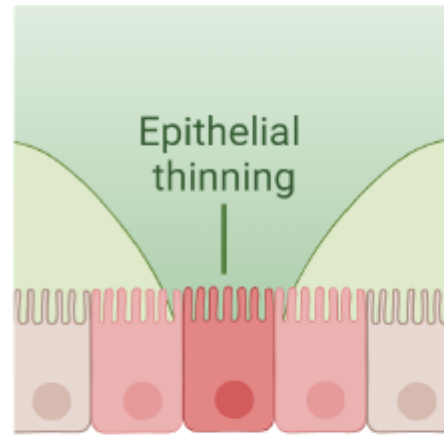
Ref: *Foundation models for generalist medical artificial intelligence, Moor, Banerjee et. Al.*

A) The Correa Cascade

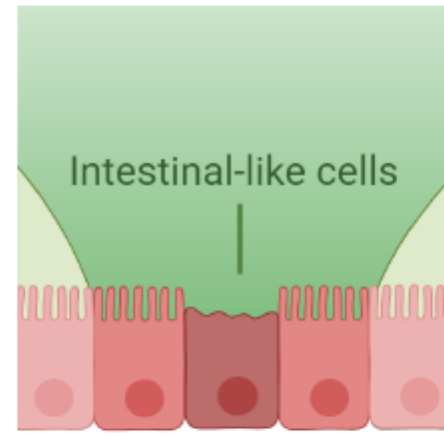
H. pylori infection



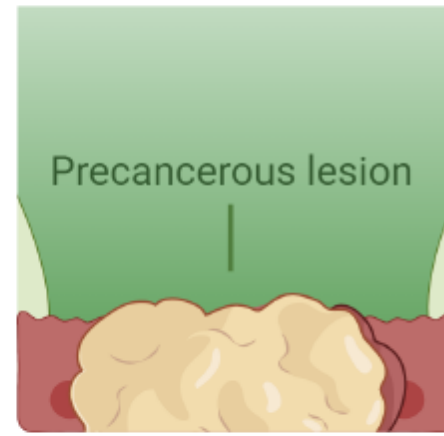
Atrophic Gastritis



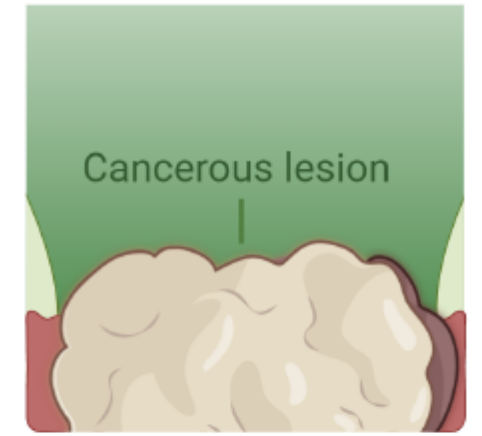
Intestinal Metaplasia



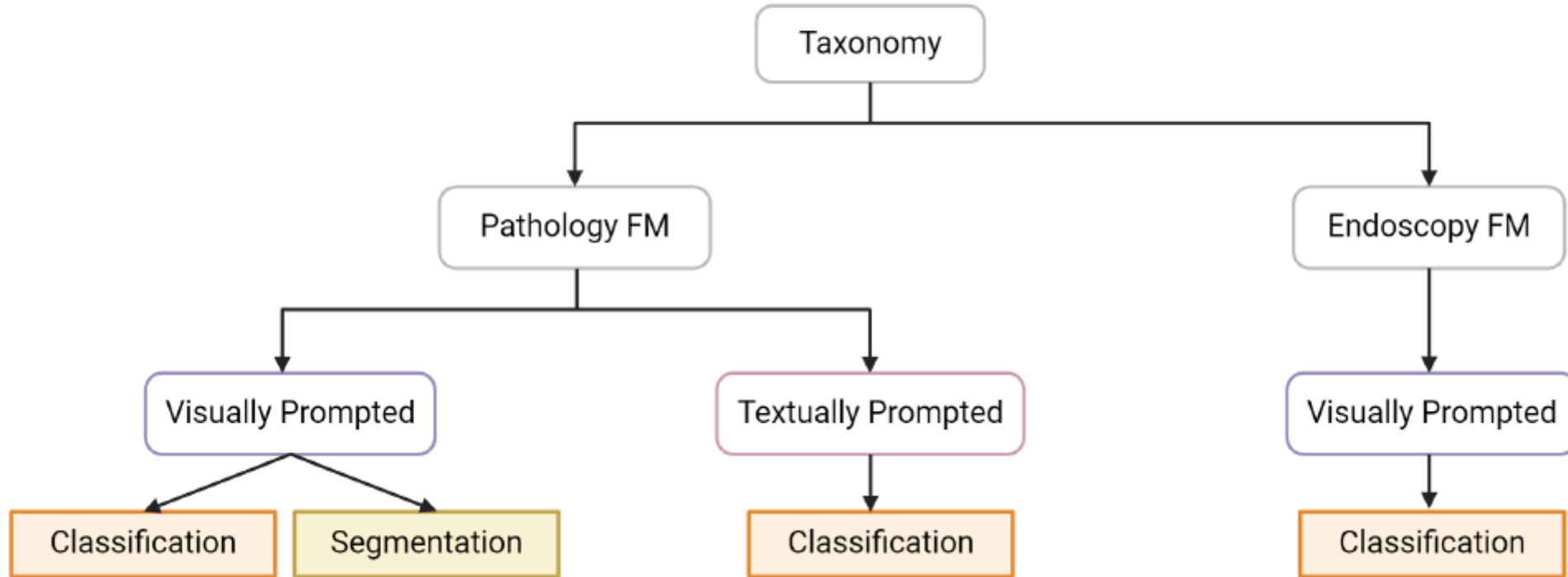
Dysplasia



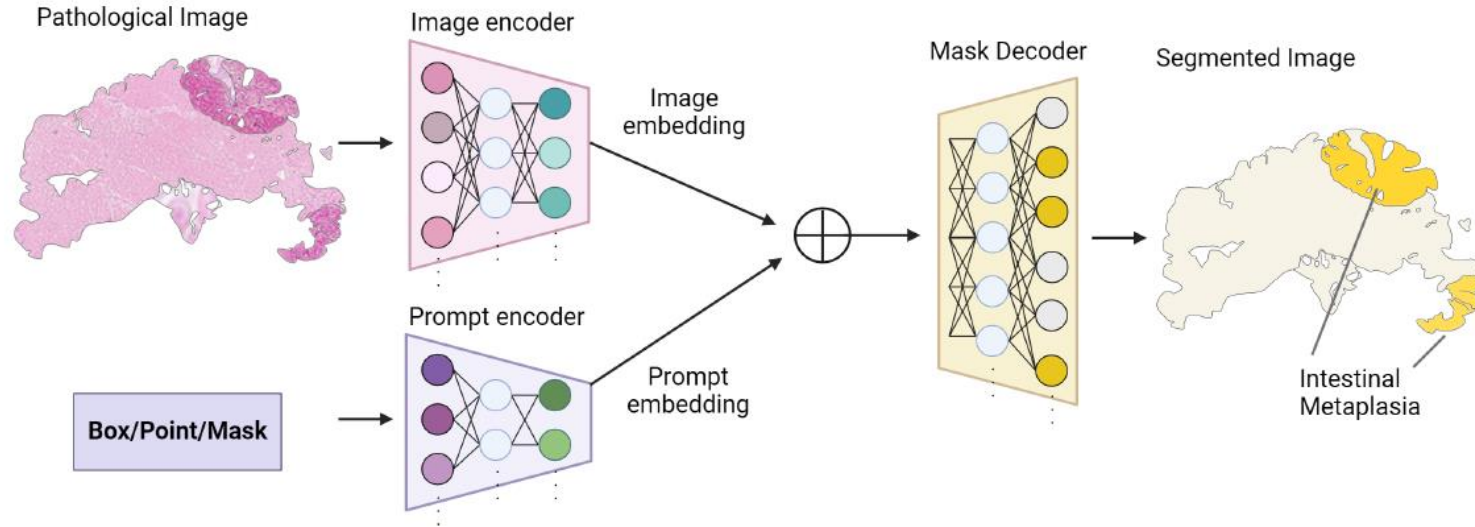
Carcinoma



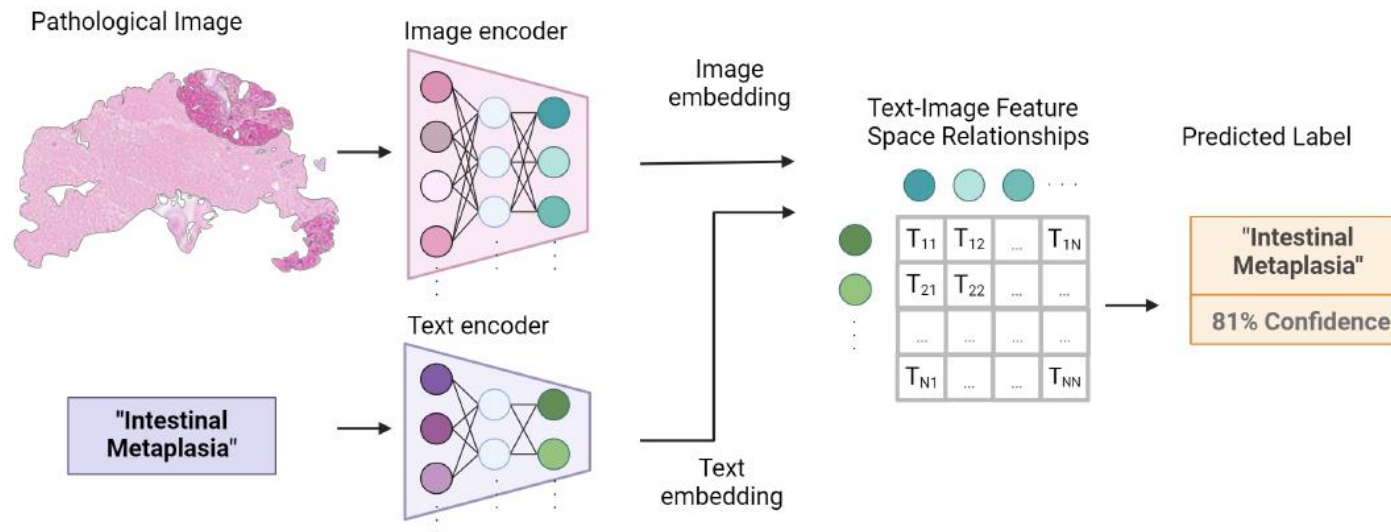
A)



C)

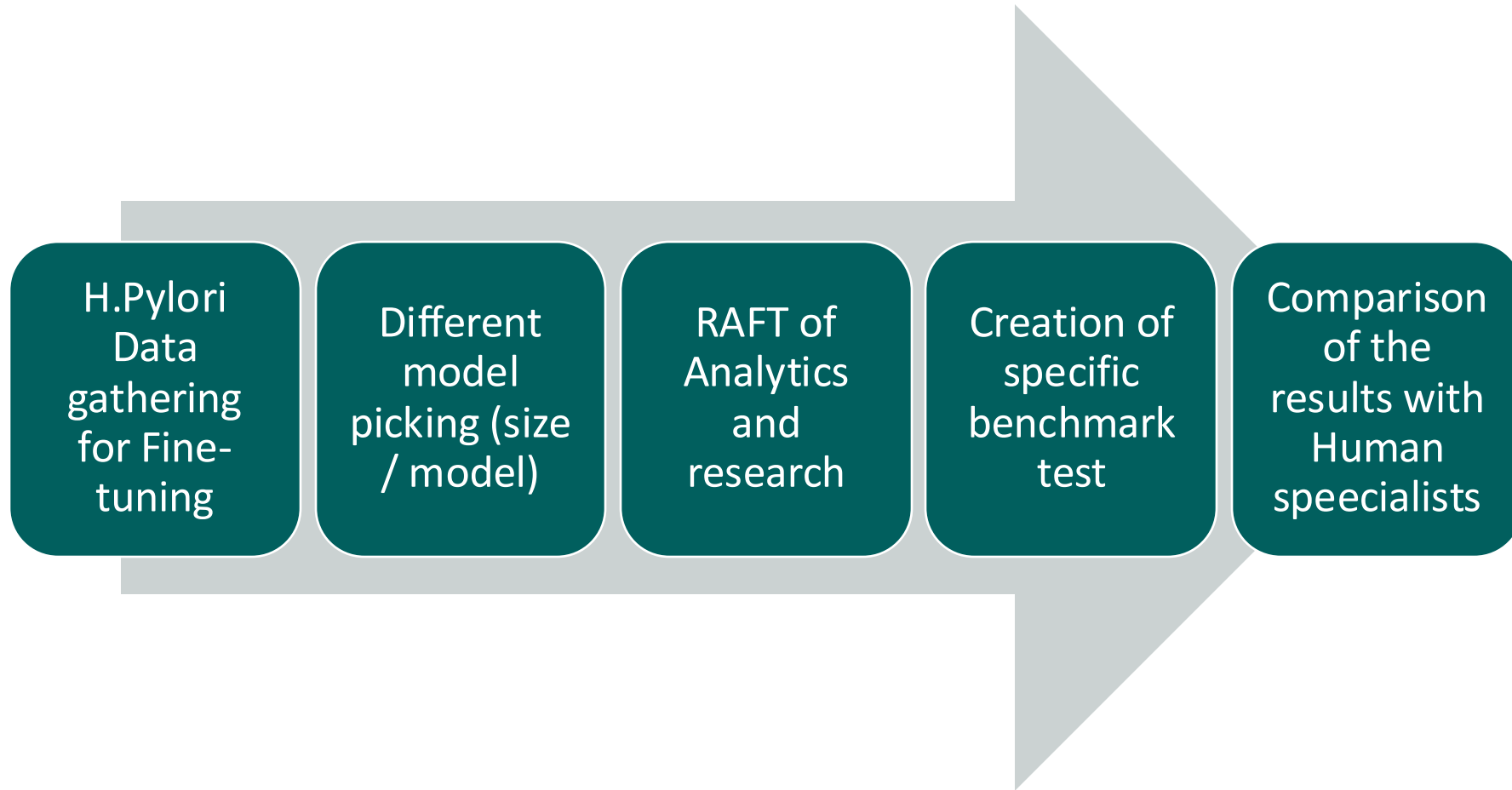


D)



**AI and LLM agents to improve
H.Pylori treatments and awareness**

The research



Takeaways

AI is growing steadily and will become a key enabler of Healthcare

ChatGPT catalyzed a pivotal shift, reshaping perceptions of AI's potential

Data Will remains a critical asset for every organization, both at a clinical and research level

Foundation models needs a maturity journey to be adapted and optimized

The future of applications and solutions lies in leveraging diverse intelligent agents and technologies and it will be strongly impactful

AI and healthcare policy in Europe



Tjade Stroband
Director European Government
Affairs, Microsoft

EU health and AI policy



(MRT-56-RFB)

(MRT-56-RFB)

(MRT-56-RFB)



CHFS-RF448

(MRE-5686-R58B)

ILSDMT-7858T

SFH-0187556

GH-478F

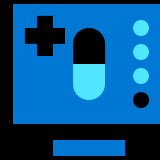
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How AI transforms healthcare



Enhance patient
engagement



Improve clinical and
operational outcomes



Accelerate scientific
innovation



The Draghi Report



“ Access to health data is one of the preconditions for the development of AI in the pharma industry but is constrained by fragmentation.

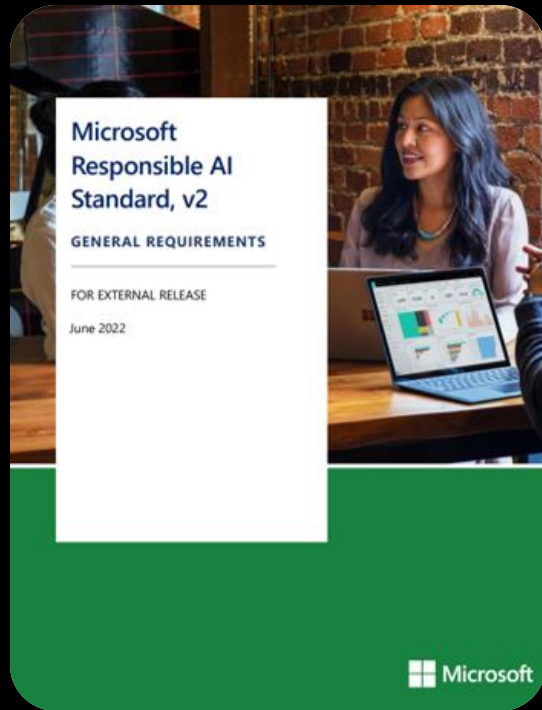
In particular, although GDPR contains options to use patient data for health research, take up has been uneven across Member States, preventing the industry from tapping into a wealth of available electronic data. ”

The Tech Stack for AI





Microsoft's approach to Responsible AI



Principles

Fairness

Privacy & security

Transparency

Reliability & safety

Inclusiveness

Accountability

Corporate Standard

Goals
Requirements
Practices

Implementation

Training
Tools
Testing

Oversight

Monitoring
Reporting
Auditing
Compliance

Key Priorities for the Evolving AI Policy Landscape



Risk-based approach

Governance frameworks that differentiate between **high- and low-risk scenarios** to support innovation and provide protection where it is needed most



Regulatory architecture that matches the technology architecture

Laws that **reflect the relevant layers** of the AI technology stack and **distribute responsibility** across the AI value chain appropriately



Advancing AI measurement and science

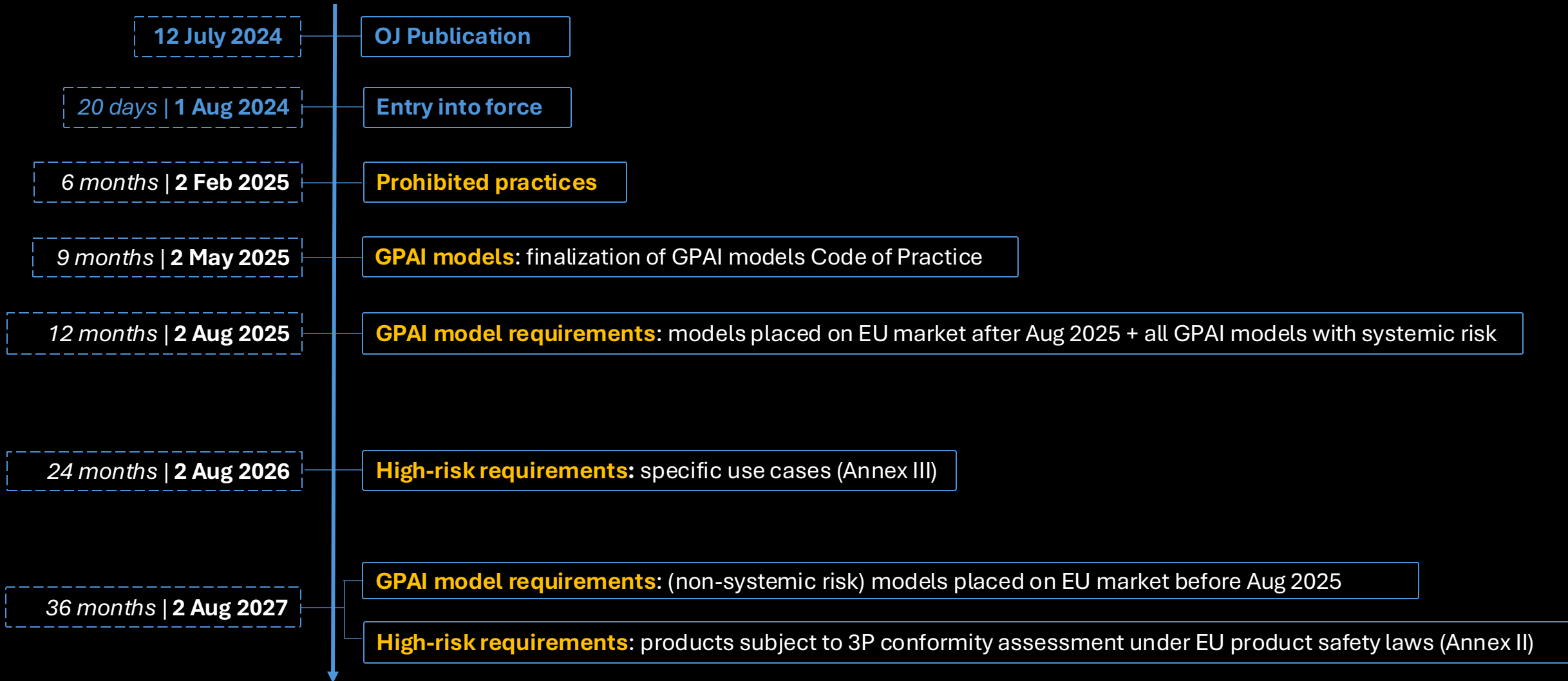
Create definitions, processes, and risk-based **international standards for AI systems** that can inform regulatory and legislative frameworks



Ensuring centralised, streamlined enforcement

Streamline roles & responsibilities of enforcement bodies; avoid double regulation; rely on **existing laws** where possible; ensure **clear lines** between regulators and safety institutes

EU AI Act: staggered application



EHDS: from entry into force to review

- Application of all provisions except those included in Art. 72
- Adoption of implementing acts

- Application on 2nd group of priority data – primary use
- Application on data for secondary use

- Access to HealthData@EU for non-EU companies

Nov-Dec
2024

Q4
2026

Q4
2028

Q4
2030

2032

Q4
2034

- Entry into force

- Application on 1st group of priority data – primary use
- Application of certain provisions under Art. 33 Chapter IV – secondary use

- Review

VDL II Commission 2024-2029: Health Priorities

Olivér Várhelyi (HU)

Commissioner designate for Health and Animal Welfare

DG SANTE / HERA

*“ Completing the **European Health Union**, by further diversifying supply chains, **improving access to the most advanced treatments**, boosting the **competitiveness, resilience and security of health systems** and working on strategic inventories ”*

Medicines

- propose a **Critical Medicines Act**
- conclude work on the pharmaceuticals reform
- lead on **European Biotech Act**

Medical devices

- stepping up [**MDR**] implementation
- evaluating need for potential legislative change

Cybersecurity

- prepare **European action plan** on cybersecurity of hospitals and healthcare providers

Health data and AI

- complete the **European Health Data Space**
- promote the uptake of artificial intelligence, notably through clear and timely **guidance on its use** in the lifecycle of medicines
- make proposals to scale up **genome sequencing capacities**

Fireside chat: how regulations are affecting development of AI tools that can be transported into practice. A focus on EHDS and EUCAIM



Stefano Sedola
Co-founder and partner,
Stratejai



Ricard Martinez
Director of the Chair for
Privacy and Digital
Transformation Microsoft, UV



Leonor Cerdá Alberich
Biomedical engineer IIS La
Fe and EUCAIM

**TRAIN: how Europe is paving
the way for trustworthy AI
tools for healthcare**



Elena Bonfiglioli

GM Global Health Pharma and Life
Sciences, Microsoft



Harnessing AI for a healthier tomorrow.

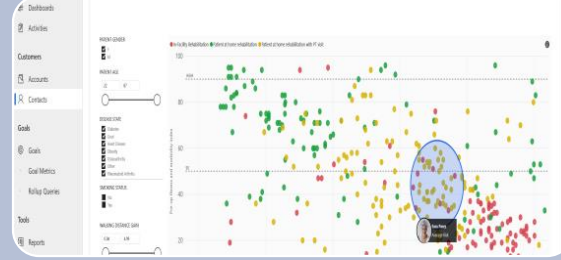
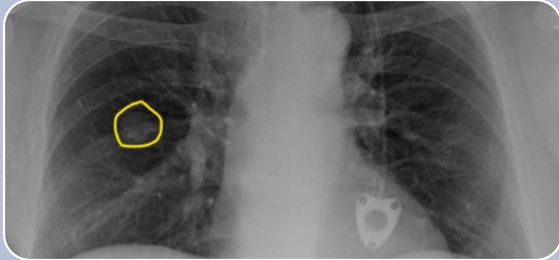
Trustworthy & Responsible AI Network (TRAIN)



Elena Bonfiglioli
Global Business Leader Healthcare and Life Sciences
Microsoft

Harnessing AI for a Healthier Tomorrow

Providing trusted and integrated cloud capabilities to deliver better experiences, better insights, and better care



Increased Number of Eligible Patients

- EHR (Pangaea)
- Radiology (Nuance)
- Eye (Topcon)
- Voice (Canary Speech)

Better Patient Experiences

- Chatbot
- IVR
- Avatar

Better Outcomes

- RPM
- Digital Health (coaching) Programs
- Prediction AI
- Clinical Trials Matching

Responsible AI

- Registration (Transparency)
- Algorithmo-vigilance (Value assessment)
- Bias Assessment/Mitigation
- Scalable Governance (Accountability)

Built on a foundation of:



Nuance AI Solutions

Proven AI solutions: 77% hospitals, 3X national average on quality benchmarks, 40% reduction in duplicate imaging



Microsoft Cloud for Healthcare


Make it faster and easier to provide more efficient care and help customers support their security, compliance, and interoperability of health data.

Responsible AI and Healthcare

Guard against biases in training data
(e.g., demographic biases)

Clinical information is from
verifiable sources and auditable


Patient data used during training or
fine-tuning can't be revealed



Fairness




Reliability
& Safety



Privacy &
Security



Inclusiveness



Transparency



Accountability

Ensure results are accurate
e.g., patient chart summarization

Ensure that AI is accessible and
sensitive to all population segments

Legal, regulatory compliance, along
with fairness, safety, and so on

TRAIN: Launched on March 11, 2024

New consortium of healthcare leaders announces formation of Trustworthy & Responsible AI Network (TRAIN), making safe and fair AI accessible to every healthcare organization

March 11, 2024 | Microsoft Source



ORLANDO, Fla. — March 11, 2024 — Monday, at the [HIMSS 2024 Global Health Conference](#), a new consortium of healthcare leaders announced the creation of the Trustworthy & Responsible AI Network (TRAIN), which aims to operationalize responsible AI principles to improve the quality, safety and trustworthiness of AI in health. Members of the network include AdventHealth, Advocate Health, Boston Children’s Hospital, Cleveland Clinic, Duke Health, Johns Hopkins Medicine, Mass General Brigham, MedStar Health, Mercy, Mount Sinai Health System, Northwestern Medicine, Providence, Sharp HealthCare, University of Texas Southwestern Medical Center, University of Wisconsin School of Medicine and Public Health, Vanderbilt University Medical Center, and Microsoft as the technology enabling partner. Additionally, the network is collaborating with OCHIN, which serves a national network of community health organizations with solutions, expertise, clinical insights and tailored technologies, and TruBridge, a partner and conduit to community healthcare, to help ensure that every organization, regardless of resources, has access to TRAIN’s benefits.

Europe TRAIN was Launched at HLTH in Amsterdam on June 17th: [Trustworthy and Responsible AI Network expands to help European healthcare organizations enhance the quality, safety and trustworthiness of AI in health - Stories \(microsoft.com\)](#)

Founding Members in Europe

[Erasmus MC](#) (the Netherlands), [HUS Helsinki University Hospital](#) (Finland), [Sahlgrenska University Hospital](#) (Sweden), [Skåne University Hospital](#) (Sweden), [Universita Vita-Salute San Raffaele](#) (Italy), and [University Medical Center Utrecht](#) (the Netherlands), with Microsoft as the technology enabling partner, and [Foundation 29](#), a nonprofit organization that aims to empower patients and transform healthcare through data-driven initiatives and innovative technologies.

Responsible AI



HOW? TRAIN

1. Operationalizes RAI principles, leveraging **TECHNOLOGY**
2. Collaborates with
 - TRAIN members in standardized manner to populate **AI Outcomes Registry**
 - RAI Orgs (eg, CHAI, SAILL, Valid AI, WHO)
3. Democratizes RAI for **low resource settings**

External website: [TRAIN – Trustworthy and Responsible AI Network \(train4health.ai\)](https://train4health.ai)

The anatomy of the Responsible AI Standard

Principles

> Which **enduring values** guide our responsible AI work?

Goals

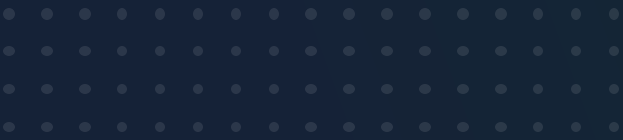
> What are the **outcomes** that we need to secure?

Requirements

> What are the **steps we must take** to secure the Goals?

Tools & Practices

> Which **aids** can help us meet the Requirements?



**Four Key
Questions
to answer
and
adhere to**

REGISTRATION

Can you identify all the AI you have running in your organization today?

LOCAL TESTING

Are you testing the AI on your local data sets, both pre- and post-deployment?

BIAS ASSESSMENT

Are you assessing for bias in the AI, and what measures are you applying to mitigate the bias?

GOVERNANCE

Do you have a scalable governance process in place?

Diving into RAI Safety Systems



Application

- Confidential Sharing
- Human in the loop
- Monitoring clinical workflows



AI

- Explainability, provenance
- Monitoring
- Feedback



Data

- Bias, stereotyping
- Outside of cohort training data
- Privacy
- Security

- Response Cues & Alerts
- Content Safety Rules
- Clinical Relevance assertion
- Self Verification
- Coding/Guideline following
- Specialized summarization
- Explainability/Provenance
- Real-Time monitoring

Health-Specialized Safeguards - Overview

Healthcare is a sensitive domain that has unique complexities and regulatory landscape. Health-specialized safeguards are required to ensure quality and accuracy of Generative AI.

- We created a suite of **healthcare-specific safeguards**, aiming to support 1P & 3P Copilots & Plug-ins
- Those Safeguards are **generalized** and served as an **API** by our service for healthcare copilots, supporting **configurable Safeguards**, being used by **multiple products and use cases**
- Serving as **building-blocks** for quality check, can be used as part of runtime flows, or for **evaluation**
- The Safeguards can be **chained / used together**, for optimization purposes
- The Safeguards leverage healthcare-specialized **smaller models**
- Safeguards have dependencies on one another

Categories of health-specific safeguards:

1. Clinical Safeguards
2. Healthcare Chat Safeguards
3. Healthcare Compliance Safeguards





Thank you
elenab@microsoft.com



**The approach of regulatory
sandbox – is an AI regulatory
sandbox possible?**



Martin Canter
AI & Data Expert, FARI Institute



FARI

AI FOR THE
COMMON GOOD
INSTITUTE
BRUSSELS

FARI **AI** RESEARCH /
INNOVATION HUB

FARI **AI** TEST /
EXPERIENCE HUB

UNIVERSITÉ
LIBRE
DE BRUXELLES



VRIJE
UNIVERSITEIT
BRUSSEL

Putting the technology promise at the
service of society and its citizens.

FARI is a non-profit university institute on AI, data and robotics focused on the Common Good. We are jointly initiated by two Brussels universities (VUB & ULB) - uniting the interdisciplinary expertise across 10 research groups on AI, data, robotics, social sciences, ethics, and law.

We do research and build bridges with public administrations, industry, and citizens, promoting ***sustainable AI, data & robotics with a focus on urban and public priority domains*** such as health, mobility, sustainable robotics, climate and energy, participatory and inclusive society.

Core activities

Research & Innovation

Education & Learning

Contributing to a
Community of Practice

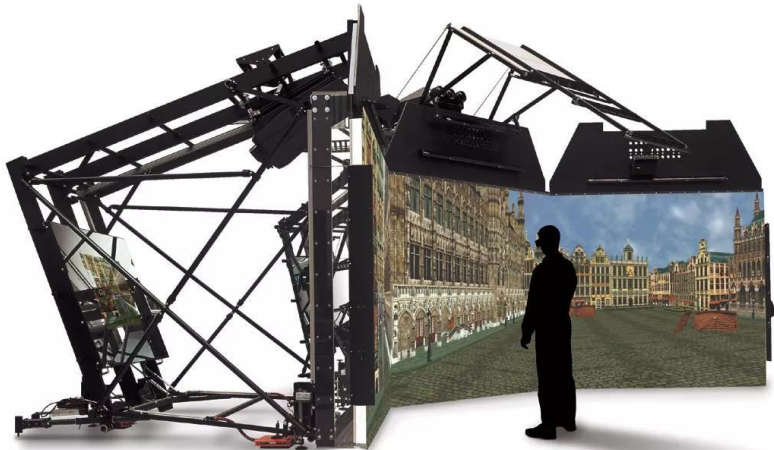
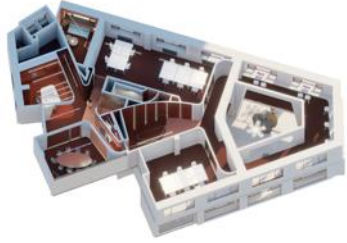
Mobility

Climate & Energy

Health & Well-being

Resource
Optimization

Participatory Society



The FARI Test and Experience Center (800m2)

Opened on March 23, 2023

A place where +15 demonstrations on AI, data, robotics and ethics will showcase these technologies and their potential impact. In this space, events are organized to meet private, public, civic and scientific actors.

- 2024 => extension to 4th Floor
- Dedicated AI Academy Auditorium
- Research Offices

Test facilities (BARCO CAVE: 150m2 immersive room for Digital Twin visualisations)

AI Regulatory Sandboxing

Martin Canter

In the past:

Example:

- **Gen AI** used on politician's images to pass a message without their consent:
 - Belgium - deceased
 - Switzerland - opponent



Historically:

- Following **2008** economic crisis.
- UK initial idea and initiative with the UK Financial Conduct Authority (FCA)
- **FinTech sector** innovation needs to be balanced.
- Shared concept in multiple domains and forms.

The Basics

An “AI regulatory sandbox” means:

- A concrete and controlled **framework**;
- set up by a **competent authority**;
- which offers **providers** or prospective providers of **AI systems** the possibility to develop, train, validate and test, where appropriate in real world conditions;
- an **innovative AI** system,
- pursuant to a **sandbox plan** for a **limited time**;
- under **regulatory supervision**.

The Basics

Objectives: Article 53, 1.g:

- **Improve legal certainty** to achieve regulatory compliance with applicable regulations.
- Support the **sharing of best practices** through cooperation with the authorities.
- **Foster innovation** and competitiveness and facilitate the development of an AI ecosystem.
- Contribute to **evidence-based** regulatory learning.
- **Facilitate and** accelerate access to the Union market for AI systems, in particular when provided by small and medium-sized enterprises (SMEs), including start-ups.

In practice

A) “Basic service”:

- Risk assessment
- “Compliance coaching”
 - Hand books
 - Regulatory experts

B) “Extensive service”:

- + testing facilities (datasets, physical infrastructure)
- + *business advisory (development, funding)*
- Link to European Ecosystem: TEF, EDIH, data spaces, local testbeds and living labs, ...

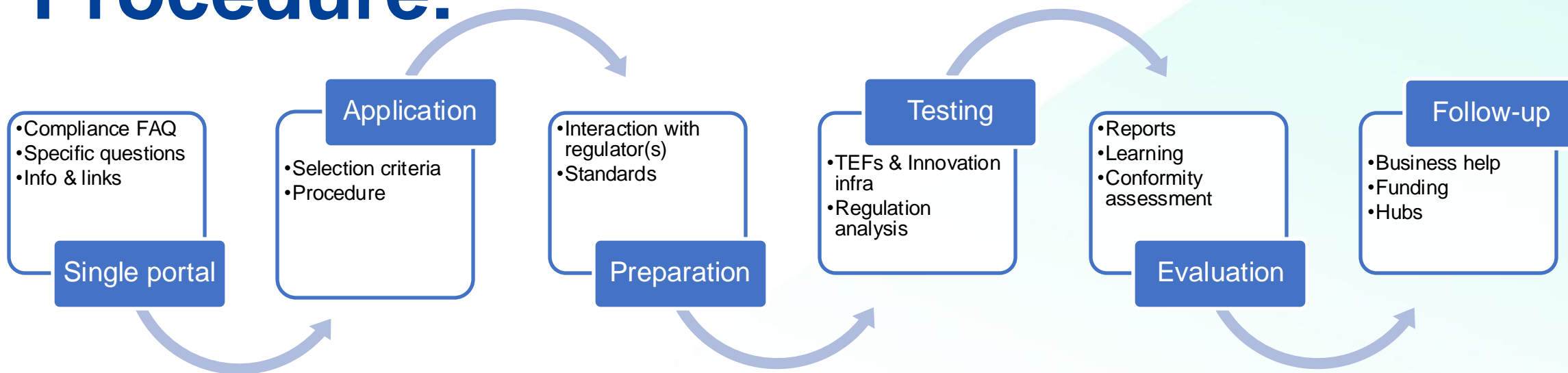
C) “Extensive service”:

- Liability limitation

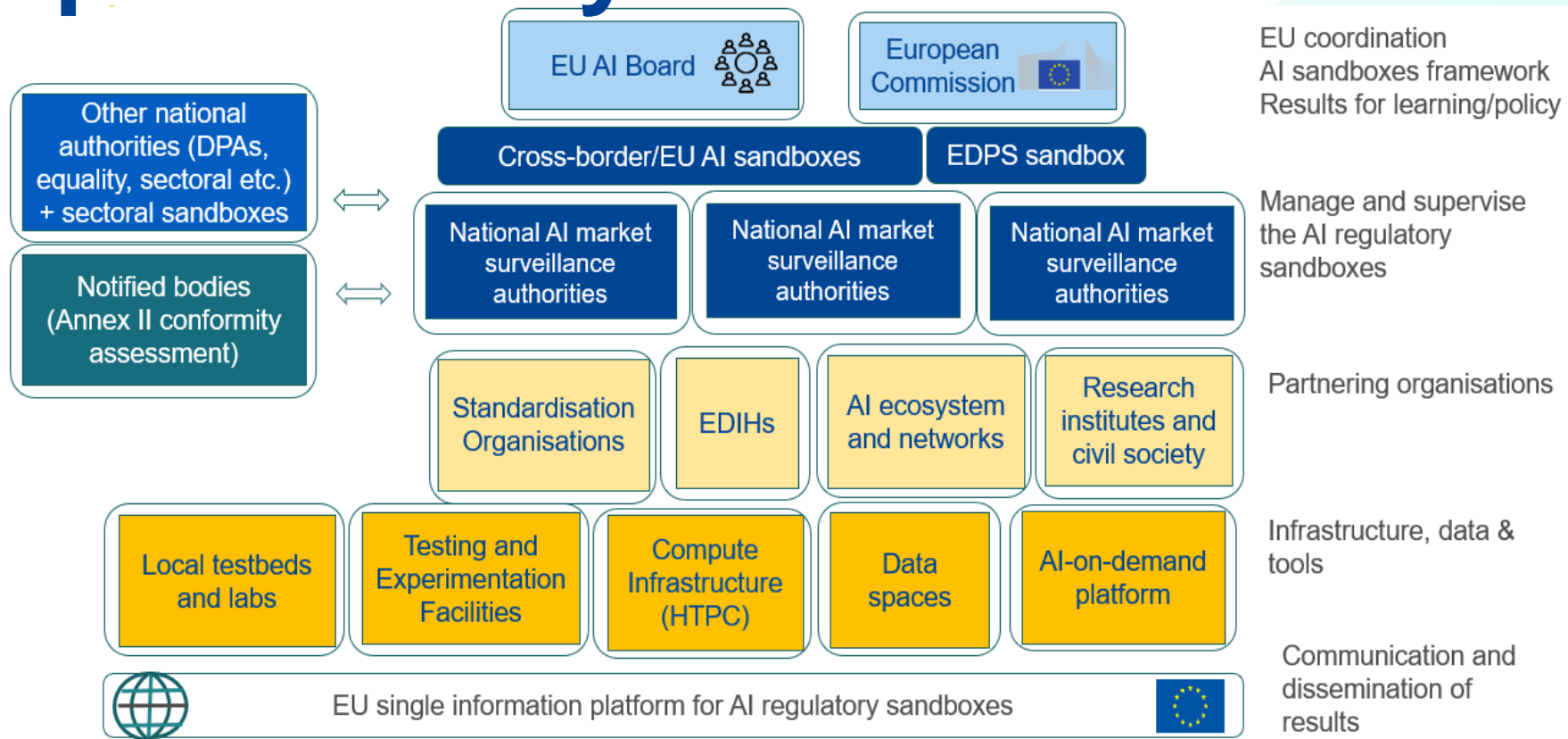
Stakeholders:

- Legal Experts
- Technical Experts
- Business Advisors
- Authorities and Regulators:
 - National Competent Authorities
 - Market Surveillance Authorities
- Innovators

Procedure:



European Ecosystem



In the European Union:

Advanced initiatives:

• **Netherlands:**

- Pilot phase going on

• **Spain:**

- Pilot project stopped
- Local initiatives

• **Sweden:**

- In development, TEF and RI.SE

Starting initiatives:

• **Belgium:**

- Study started, no NCA yet

Next steps:

• **AI Act entry into force**

- 24 months to comply: 08/2026

• **CSA Digital Europe :**

- AI RS
- Testing of AI
- Coordination

• **Implementing Act:**

Use-cases

Example:

- **ANPR** cameras to detect mobile phone usage while driving.
- POC is developed and **works well**.
- In Belgium, **only the police** access ANPR cameras images.
- AI Reg SB: **Feedback** on inadequate **legislation** to be updated.

Example:

- Using **real population data** for socio-economic simulation does not respect **privacy**.
- **Advice** from the AI Reg SB towards the AI solution developer: Create **artificial dataset** that represents the same population distribution.
- This makes the use-case **compliant**, while keeping its potential for **usefulness**.
- AI Reg SB: **Sharing of best practices**, and foster innovation.

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Roundtable: Perspectives on adoption of innovative AI technologies from industry, innovators, policy experts and research community



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Gabriel Lopez
Government
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**Tineke Van
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Conclusions



Andrea Pescino
Co-founder and partner, Stratejai

Conclusions

- 01 Data are still a critical asset, and an opportunity for improving healthcare
- 02 Artificial Intelligence is coming rapidly and will have a huge impact on the sector
- 03 There are strong emerging initiatives to make AI more transparent, trustworthy and responsible, to help the adoption
- 04 The impact will be across the whole industry and on many processes
- 05 Europe has a huge opportunity to capitalize on innovation and research to make the whole healthcare sector sustainable and future-proof



Thanks to all

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#DATASAVESLIVES