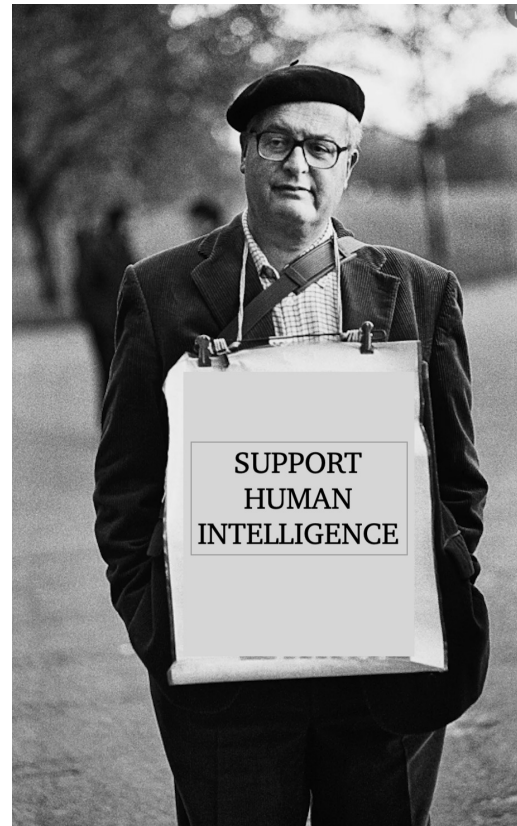


Non-random reflections of the implementation of AI(s) in the health systems



Enrique Bernal-Delgado

AI – classify or predict

Real-life effectiveness and safety

Uptake surveillance

Identification of unmet needs

Misuse detection

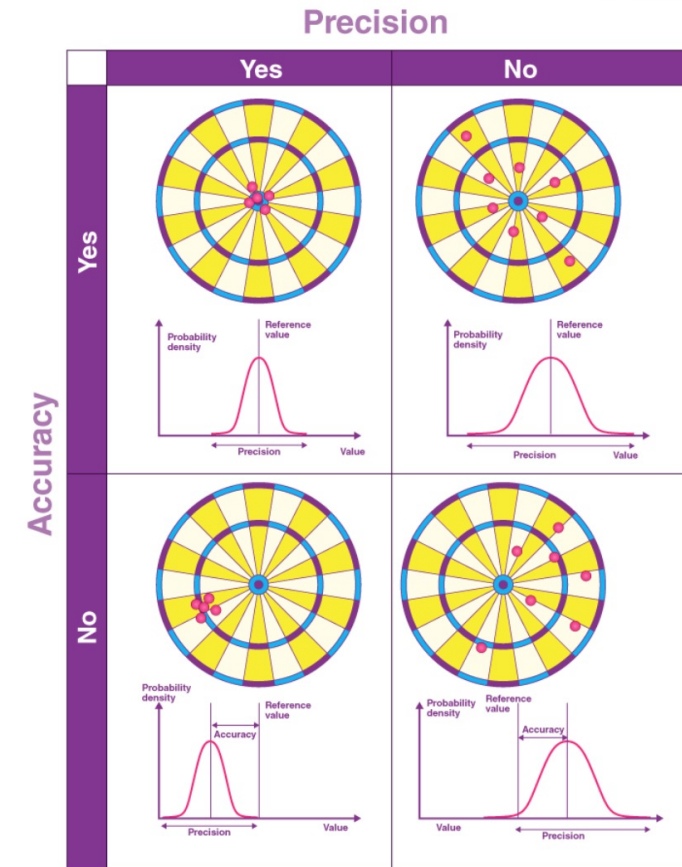
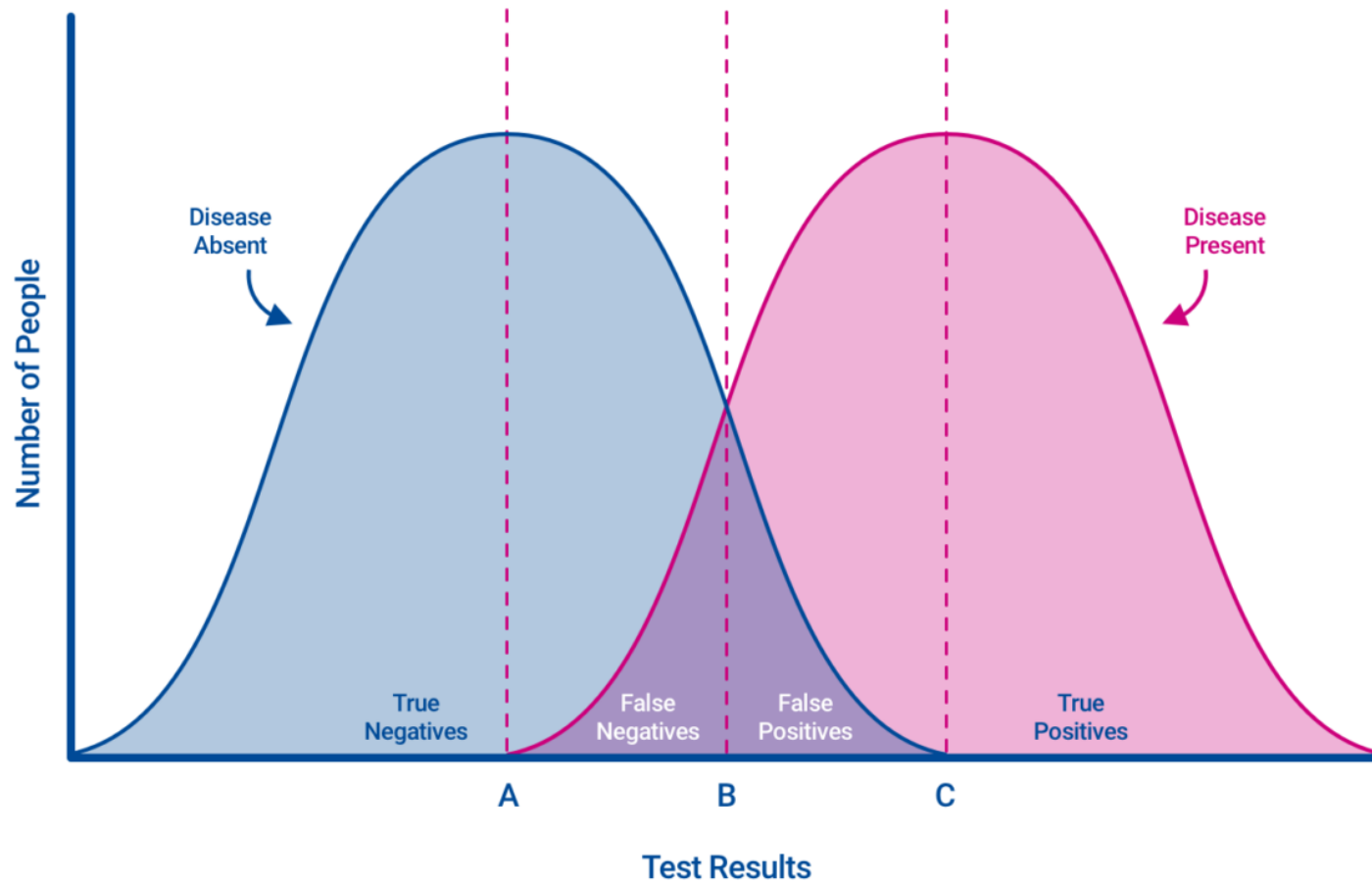
Measurement of patients' experience

Impact of a “tech” on the HC processes

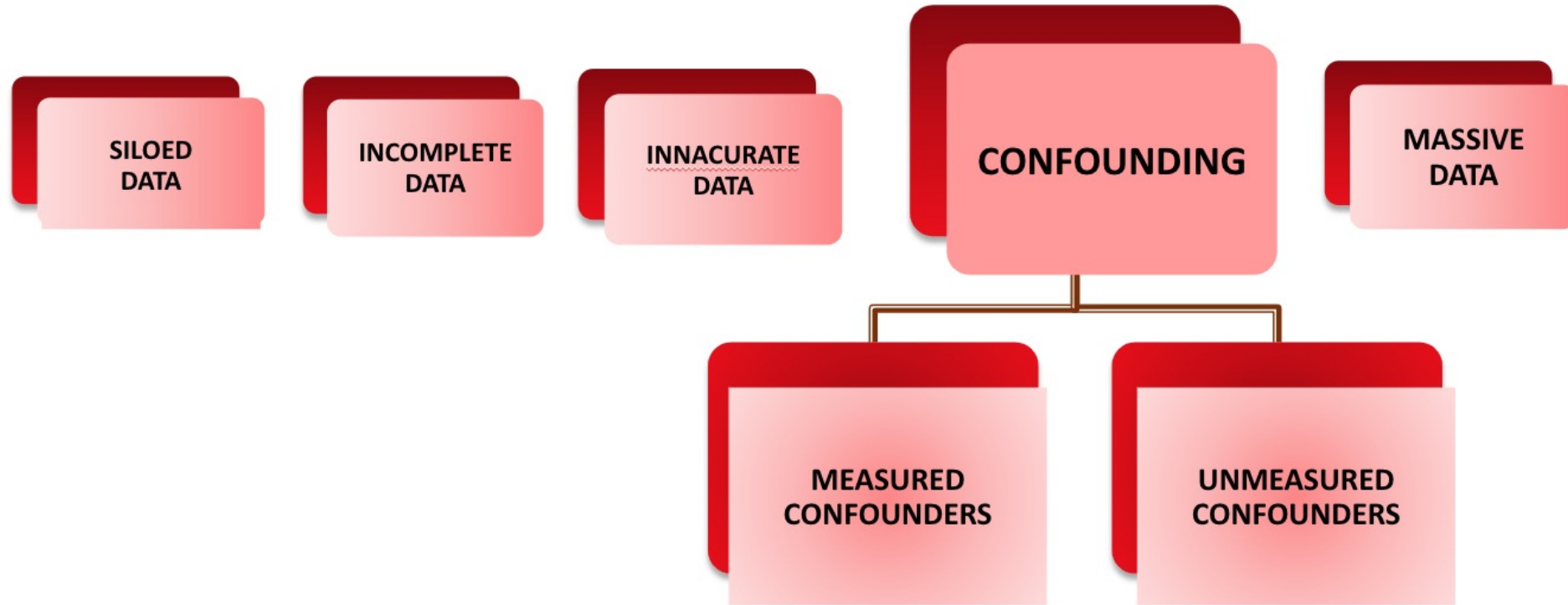
Health systems effectiveness & efficiency

...

Classification and prediction



IA - observational data



Challenges in getting AI ready for use

On the rationale:

- ▶ Software as a **device** is the only way
- ▶ Should we aim at a “**locked product-oriented**” approach or a more **systemic-oriented one**

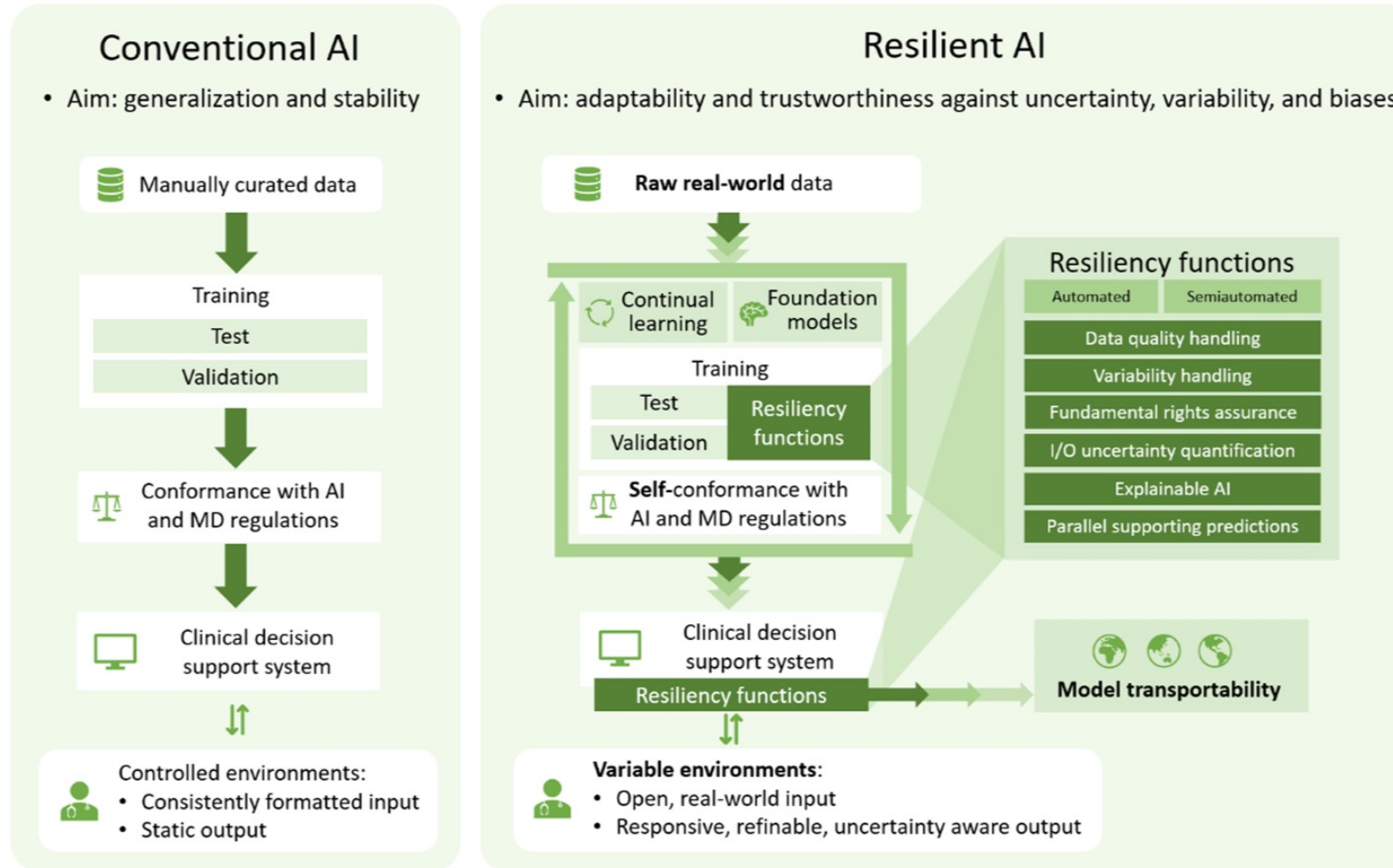
On the methods:

- ▶ What is the current knowledge base on **adaptive AI**?
- ▶ How to define the **standard of care** – so what are the actual information gains?
- ▶ How you assess **generalisability** to scale up or transfer the results to other clinical settings?
- ▶ Are methods equipped to leverage Real World Data for **real life monitoring** of AI uptake?
- ▶ How to interpret variations in **noise and signal**?

On the governance:

- ▶ Should we start by accepting that **any environment** has the right for the development of AIs
- ▶ What are **the capacity needs** on policy- and law-making ?
- ▶ Set up of data access, oversight mechanisms, standards of good use
- ▶ Set up for x-AI in decision-making

Challenges in the implementation



Challenges in the decision

	Identifying knowledge gaps	Identifying unmet needs	Informing clinical decisions (pred / class)	Identifying adverse events	Identifying uptake gaps	Informing policy decisions (pred / class)	Informing resources allocation	Informing managen't
Critical								
Serious								
Mild								

(*) *Critical, serious, mild problems to address*

Challenges in the decision

	Identifying knowledge gaps	Identifying unmet needs	Informing clinical decisions (pred / class)	Identifying adverse events	Identifying uptake gaps	Informing policy decisions (pred / class)	Informing resources allocation	Informing managen't
Critical	+	++	+++	++	++	++++	+++	++
Serious	+/-	+	++	+	+	+++	++	+
Mild	-	+/-	+	+/-	+/-	++	+	+/-

(*) *Critical, serious, mild problems to address*



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Reflexions sobre la incorporació de la intel·ligència artificial als sistemes de salut