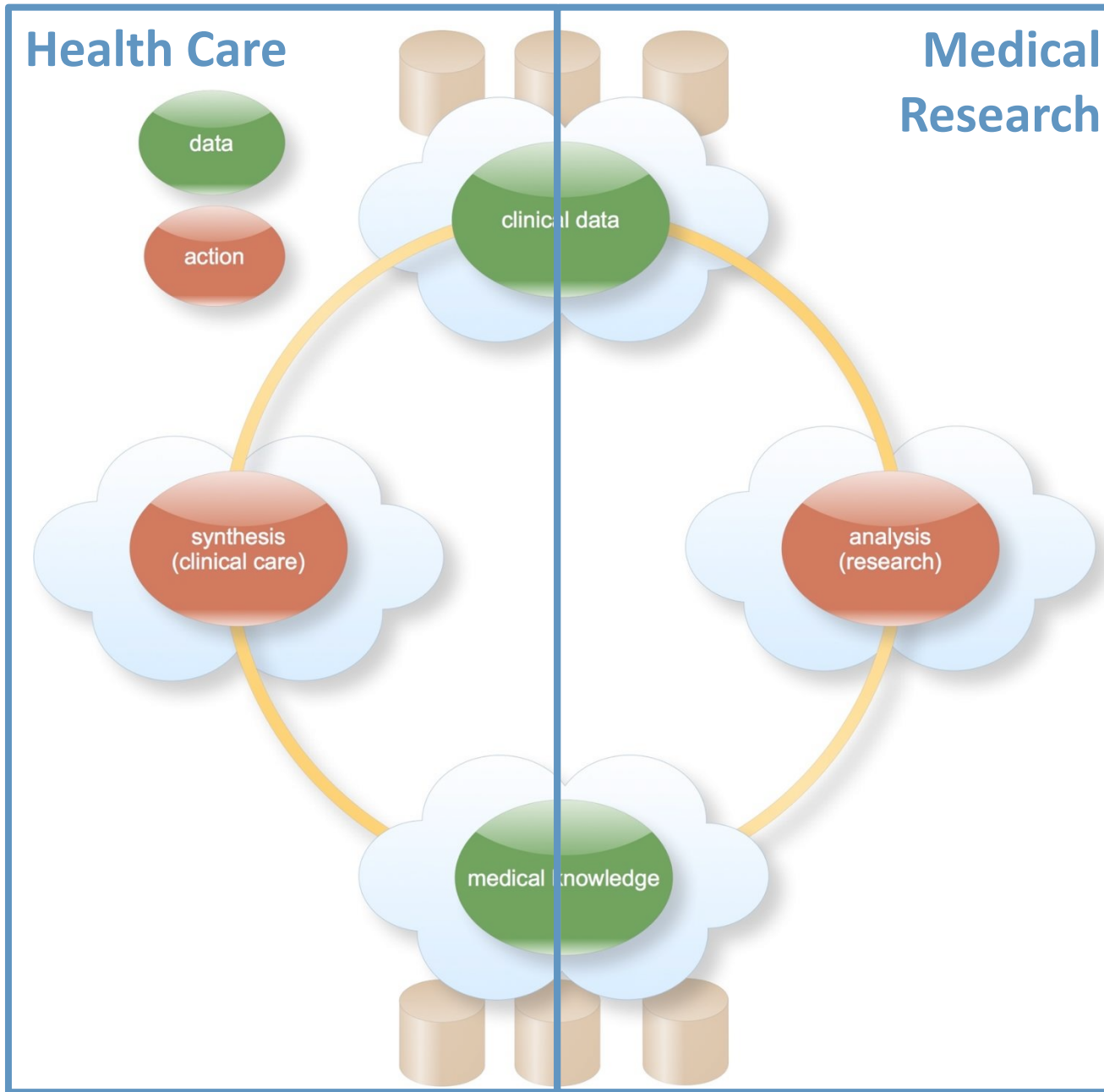
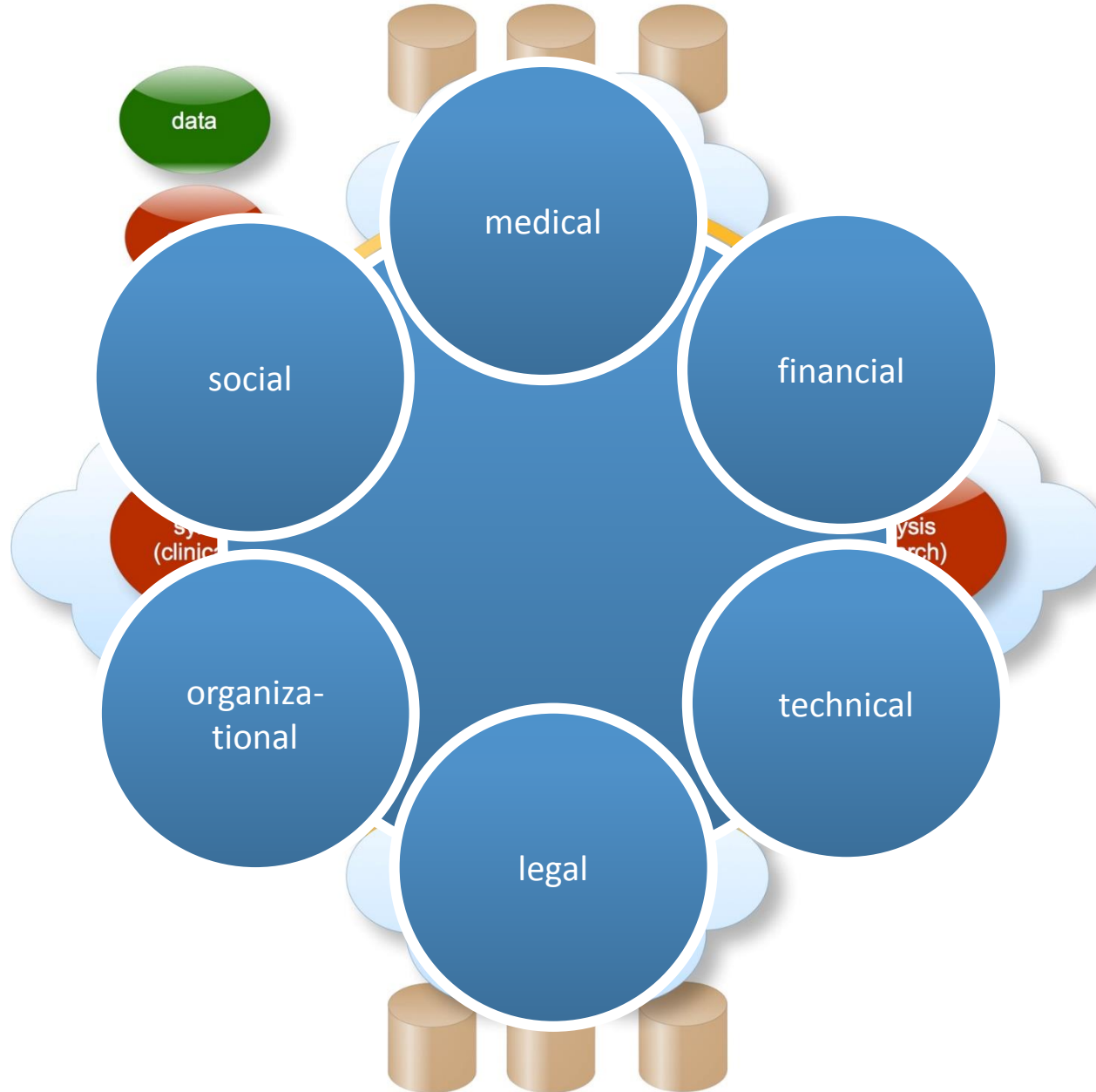




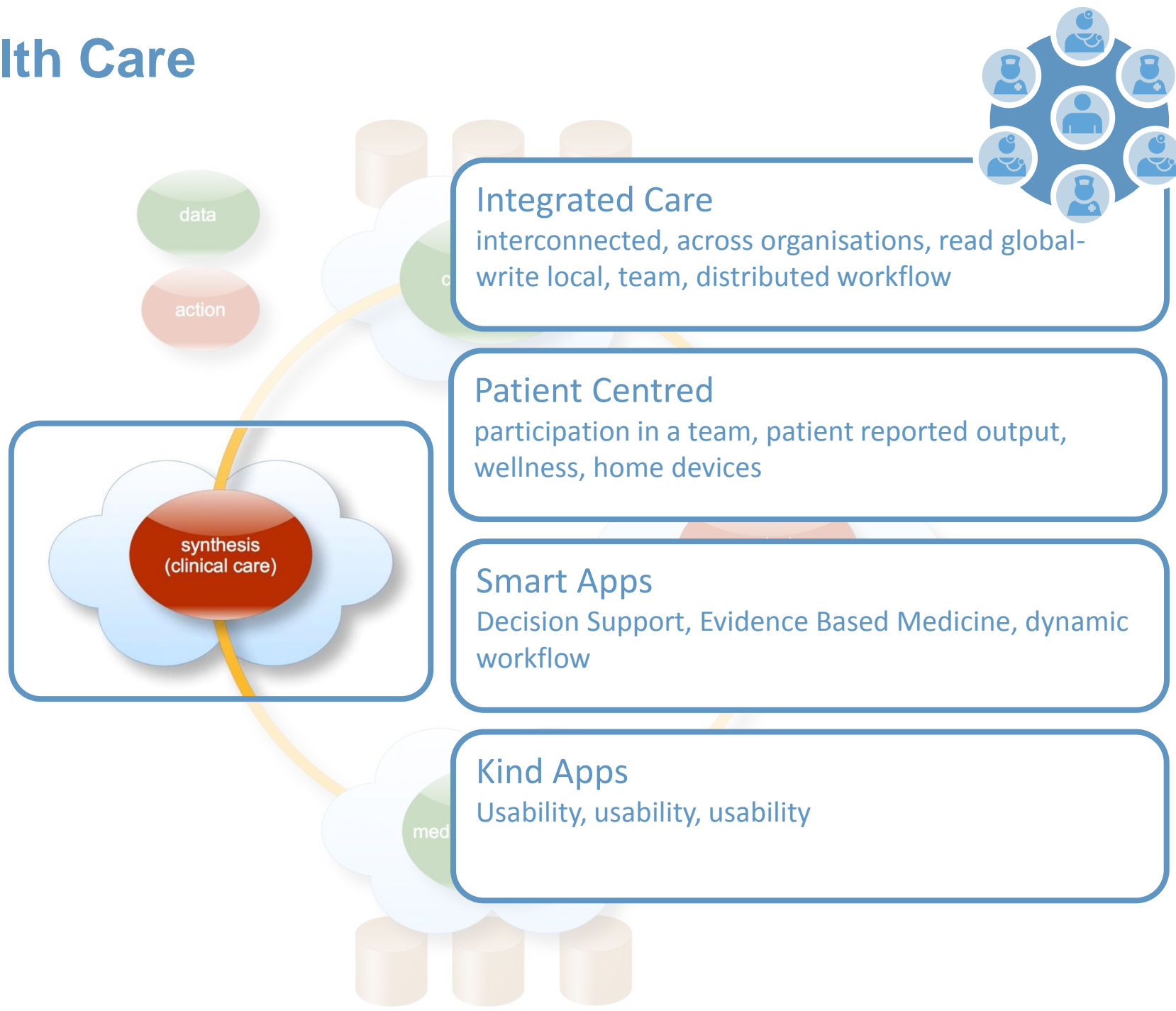
Closing the Loop, the Translational Cycle



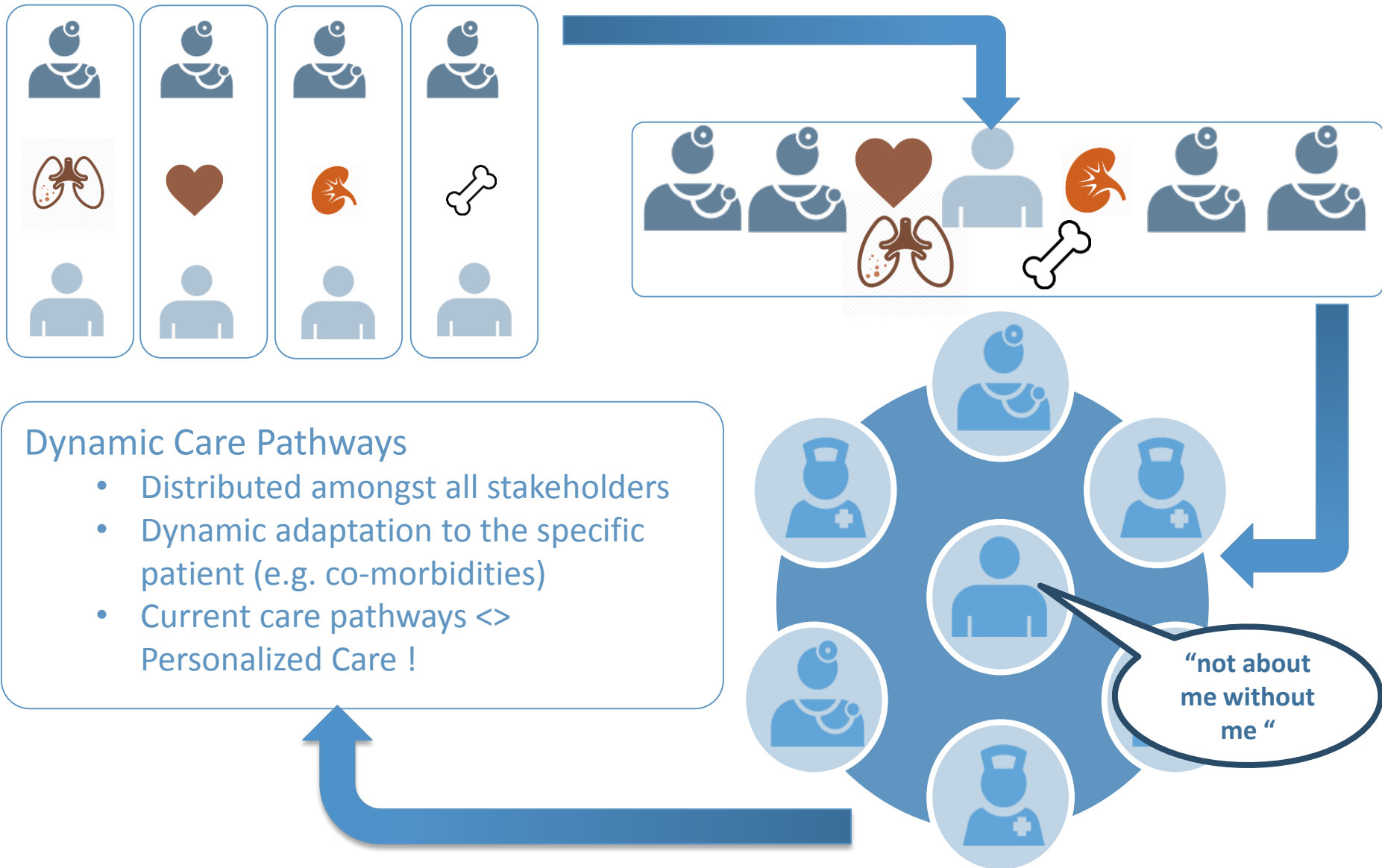
Closing the Loop, the Translational Cycle



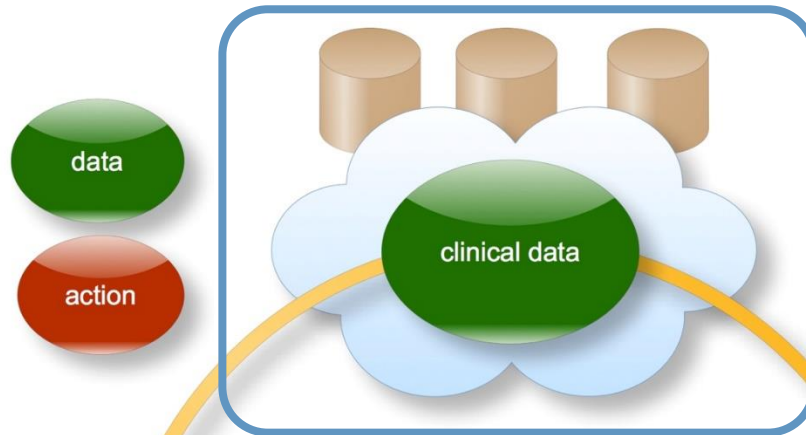
Health Care



From Vertical to Horizontal Care to Care Teams



Gobal (Big) Data



Interoperability

- Semantic interoperability is not solved yet
- Semantic description of the context

primary + secondary use

- very similar needs
- data protection, legal framework, governance, business model

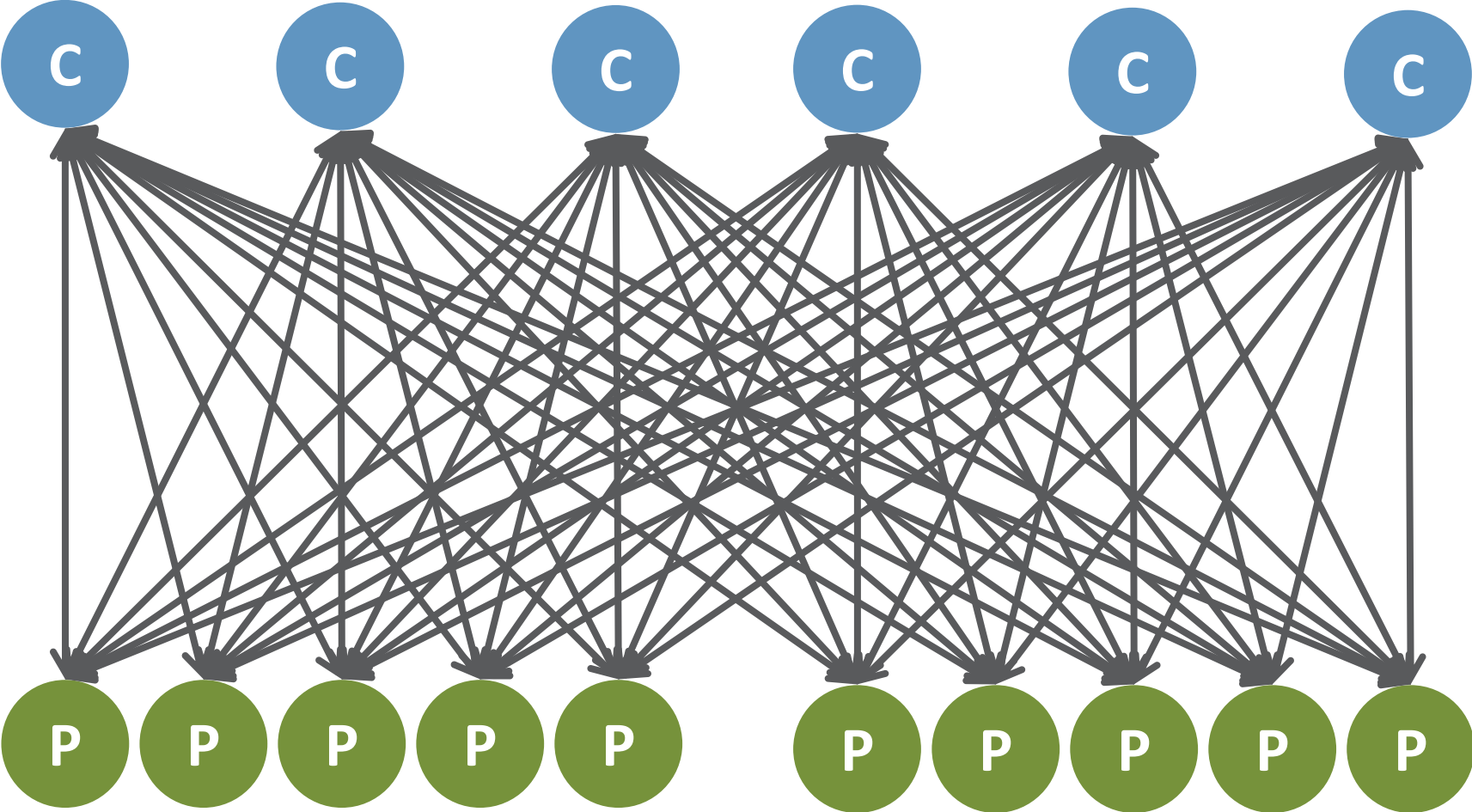
Distributed

- <> centralized
- yet another repository ?

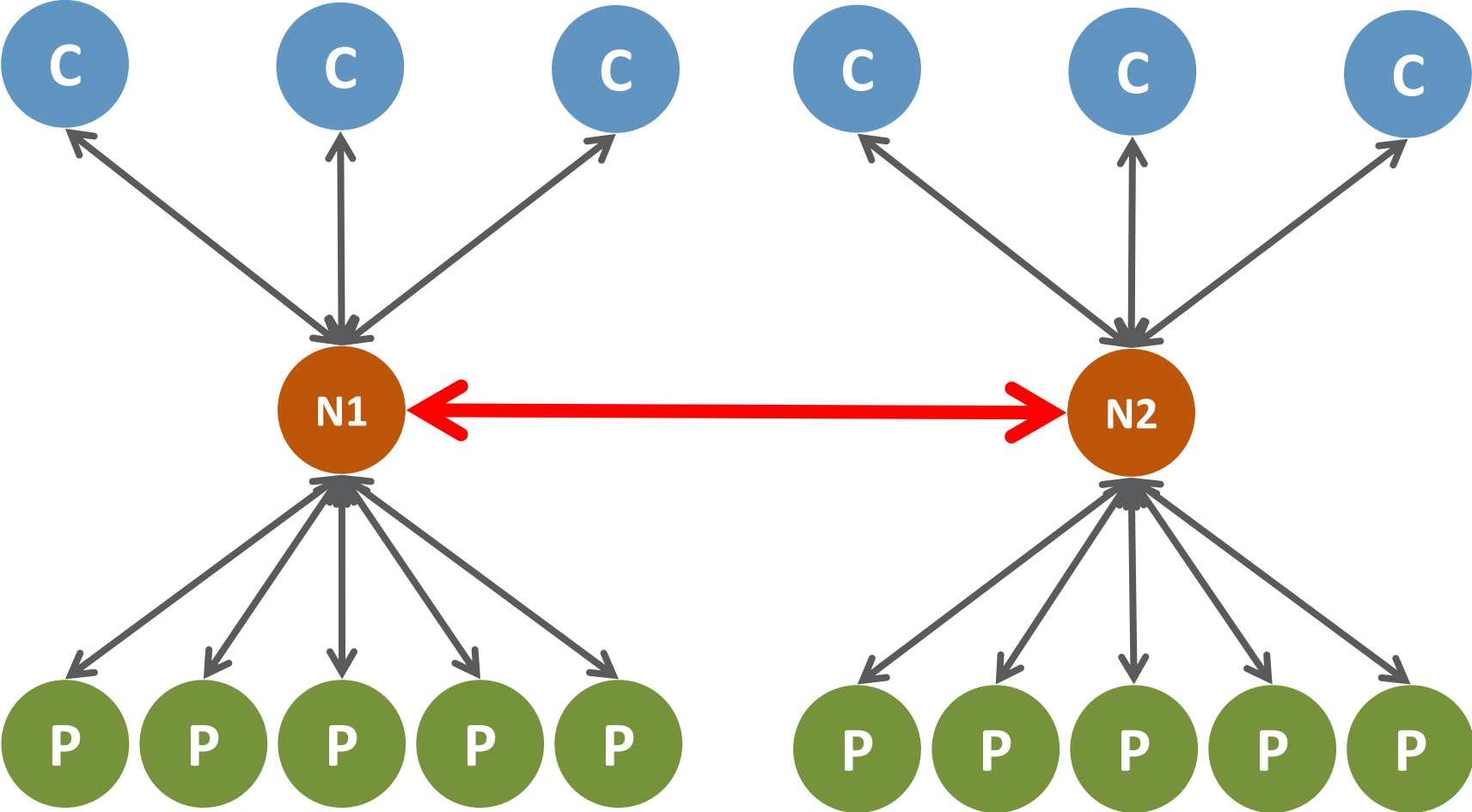
Network of Networks

- no single platform will be THE platform
- need for proxies to other networks

Network of Networks



Network of Networks



Analytics - Research



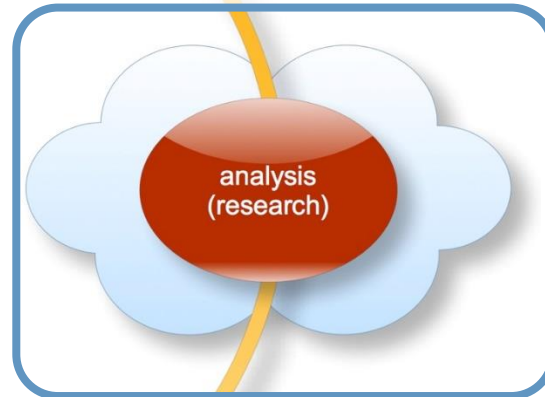
Support for clinical trials:

- protocol feasibility
- patient recruitment
- electronic data capture
- post market surveillance

“A clinical trial is a nice picture of a dirty world” → Real world data !

- Adverse Event Detection
- Deep Machine Learning
- Building statistical evidences

Population Health Management linked to Integrated Care and Health Policies



Medical Knowledge



Interoperability

- of protocols, guidelines
- Knowledge Networks

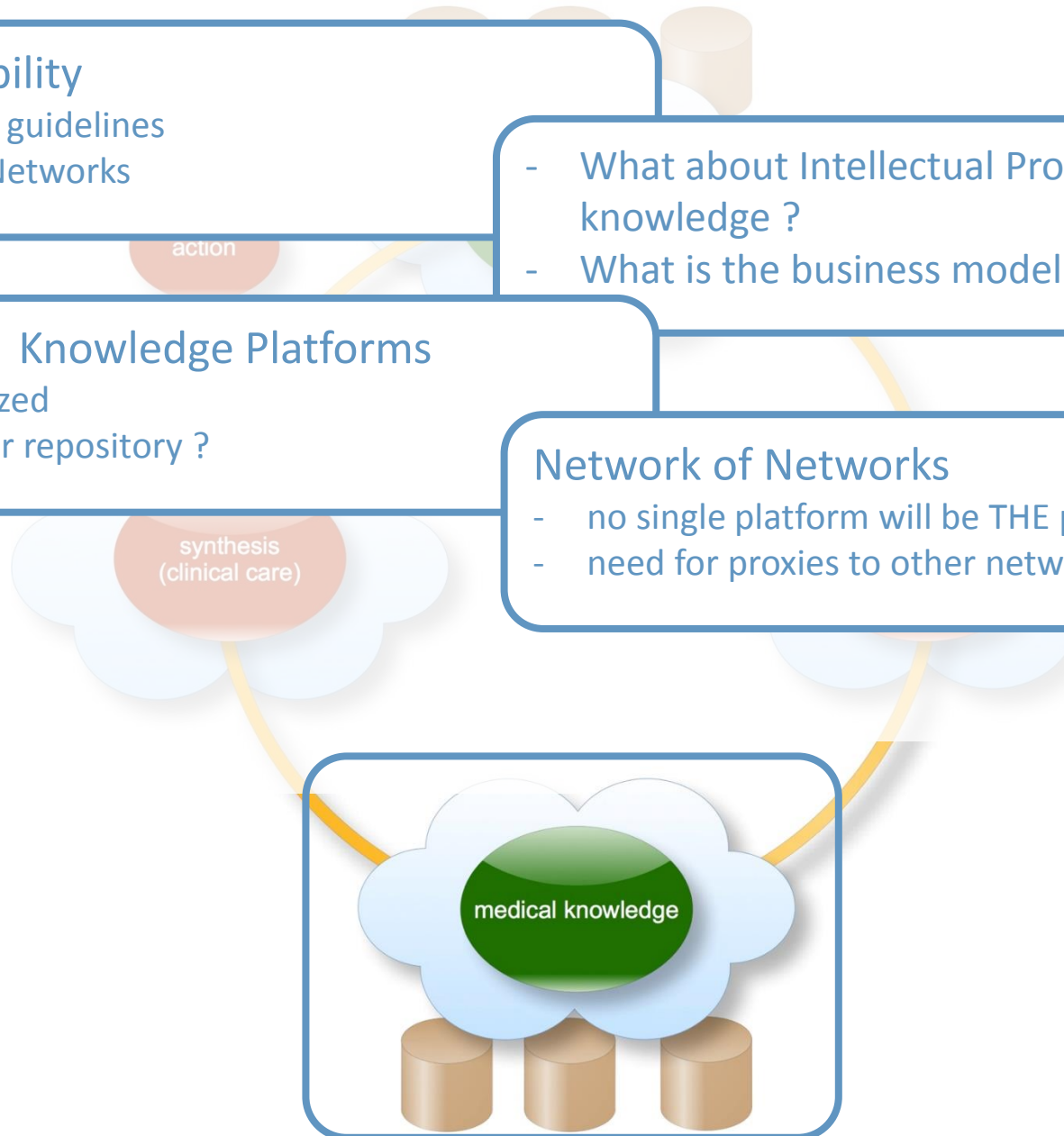
- What about Intellectual Property on medical knowledge ?
- What is the business model ?

Distributed Knowledge Platforms

- \leftrightarrow centralized
- yet another repository ?

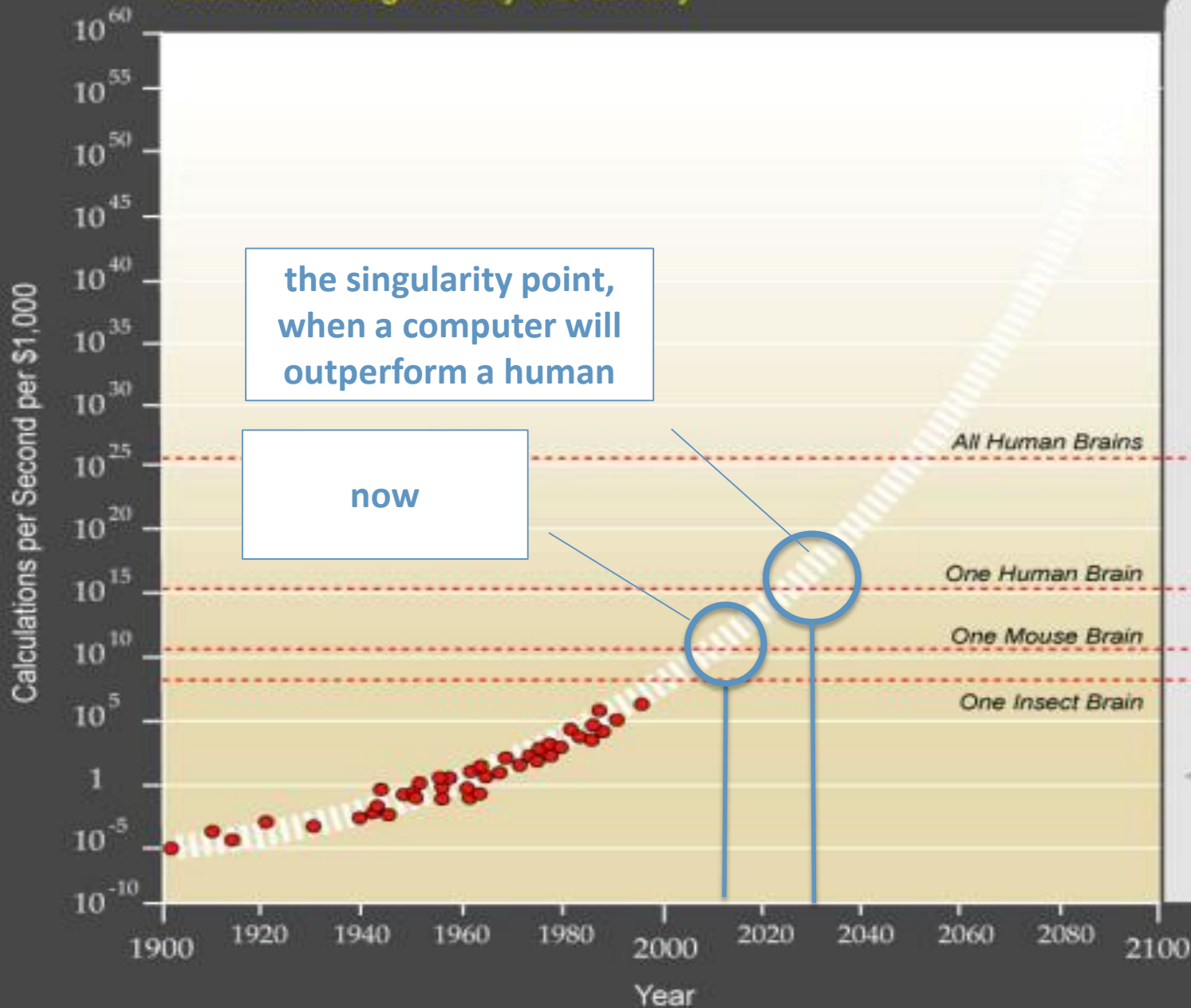
Network of Networks

- no single platform will be THE platform
- need for proxies to other networks



Exponential Growth of Computing

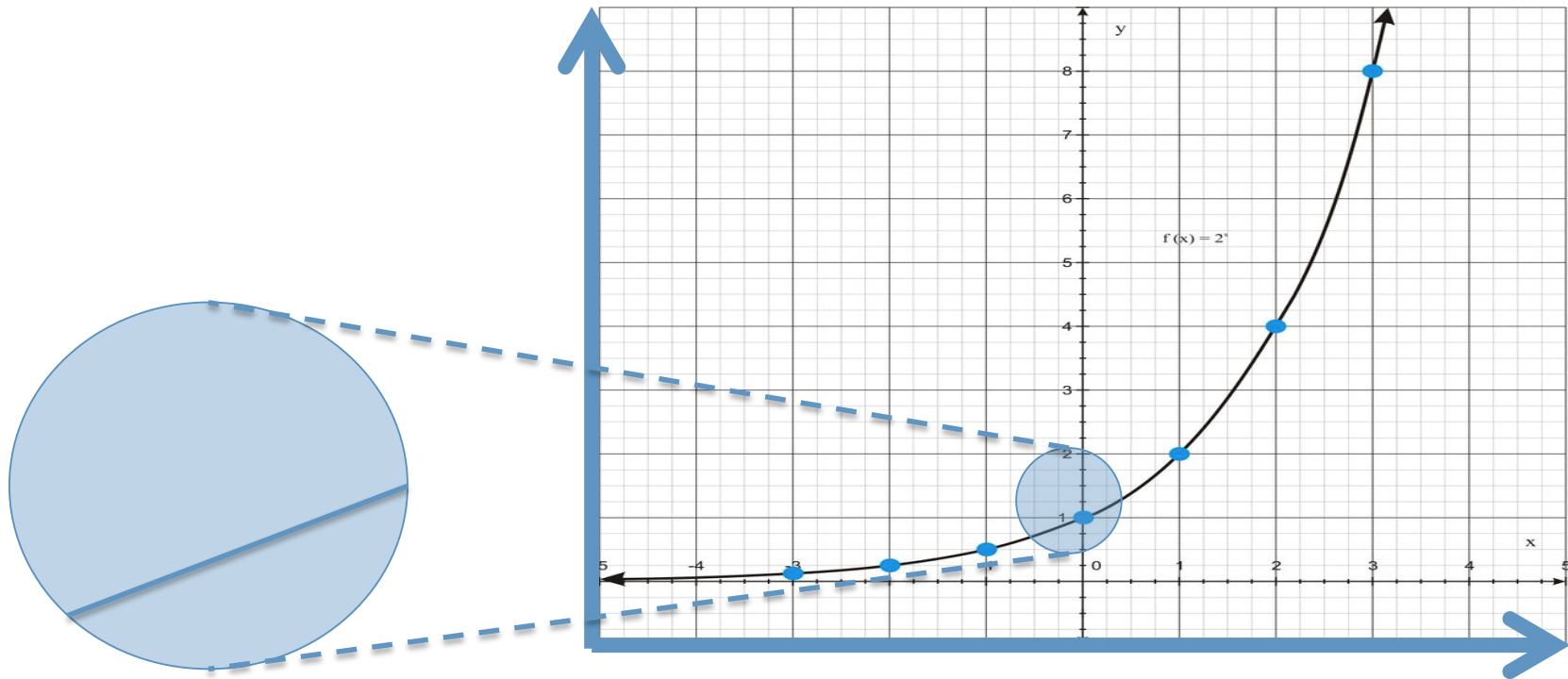
Twentieth through twenty first century



Logarithmic Plot



Exponential versus Linear



- The problem with looking at an exponential curve from too close, is that it looks like a linear curve.
“Today is a bit more than yesterday, tomorrow will be a bit more than today”
- This is deceiving us ! **AI/CC will be here much faster than we expect.**

How fast is fast ?

