

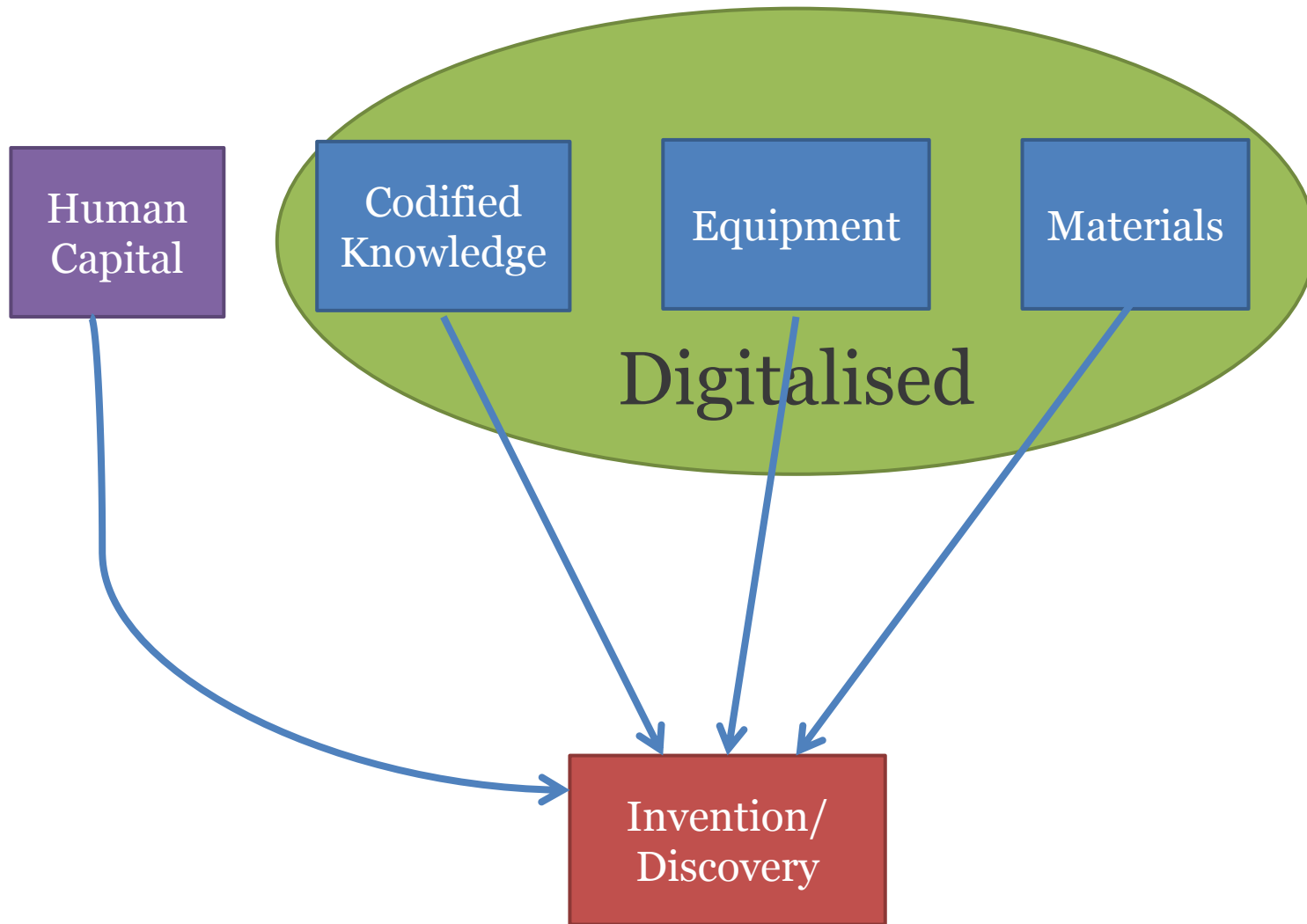


New Conditions for Research and Innovation in the Digital Age

TIP, Paris, 20 June 2018

The process of discovering and inventing is digitalised

— How new knowledge & new goods are produced:






The process of discovering and inventing is digitalised

- Data as the major input to research
- Simulation (in silico experiments)
- The cloud as research equipment
- Not digital: human capital (changing with AI?)

What does it mean for in economic terms?

- A drastic reduction in certain costs associated with research processes
 - Data are fluid: Re-use = radical scale economies; costless circulation
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What does it mean for the economy?

Our preliminary conclusions:

- Collaboration is easier to implement
 - Multilateral collaboration is enabled by platforms
 - Distance matters less
 - New skills are needed
 - The value of human capital increases
 - Reduced entry barriers => more entry, more small actors, competition
 - Economies of scale and scope => larger actors, market concentration
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