AI in science

Session 4
Objectives of the session

• Reflect on the current status and diffusion of AI in scientific research

• Identify the degree to which existing policies are sufficient to address challenges presented by AI
The promises of AI are fascinating: automated lab, exploitation of enormous quantities of data etc.

A new way of doing science: « data is the model ».

Current status: used for sorting and cleaning data, conducting specific experiments

How long will it take for the promises to be realised?

In the meantime, high complementarity between humans (conceptual thinking) and AI
Outcomes

Need to adapt education & the training of scientist to better complement AI: more conceptual thinking.

AI research used to be purely academic, business has become predominant over the past 5 years: government should come back – but:

• for doing what? (addressing grand challenges)
• with what money? (cost of AI, notably wages, has boomed)