The FCC design study
A conceptual design for accelerators and detectors

One software stack to support them all

- Different requirements ee vs pp
- Support physics and detector studies
  - Detector concepts: Moving targets
  - Both fast and full simulation essential
- Challenging backgrounds
  (computing and physics-wise):
  - Pile-up for pp: high lumi-LHC x10
  - Beam-background for ee
The Solutions

Collaborating where possible

- LHC experiments
- Linear collider community

Synergies

- Share the effort
- **Don’t re-invent the wheel**
- **Improve** existing solutions