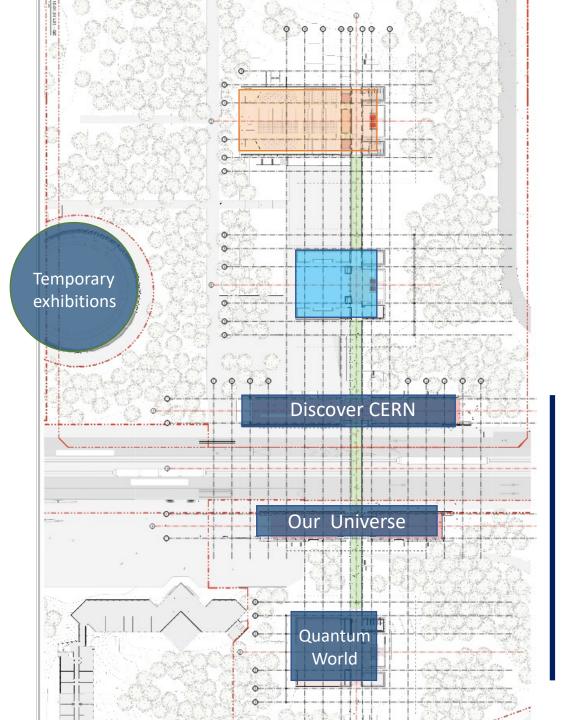


CERN Science Gateway Exhibitions

Emma Sanders

CERN Science Gateway



Auditorium

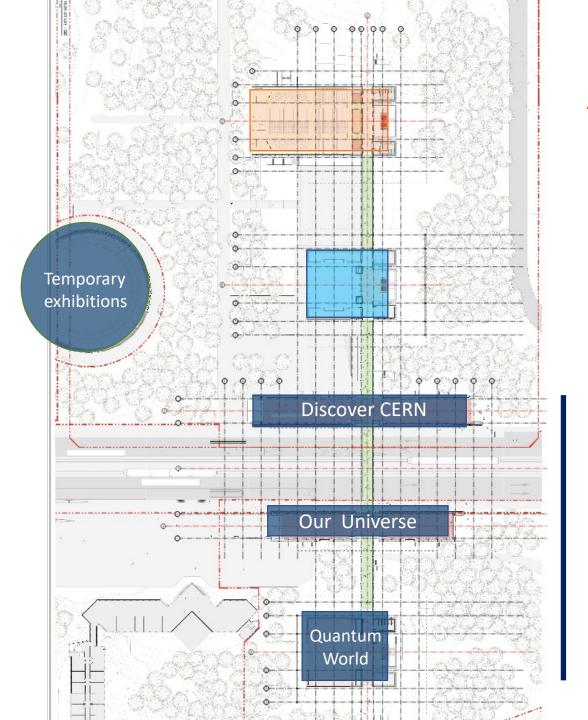
Laboratories

3 exhibition buildings covering 1300m²

CERN Science Gateway

The Globe

Temporary exhibitions reflecting lab news, particular themes important for strategic reasons, or in relation to our international partners



Auditorium

Laboratories

3 exhibition buildings covering 1300m²

Our approach to the exhibitions

Similarities with Microcosm

- CERN people
- Real pieces of equipment
- Immersive scenography

New approach

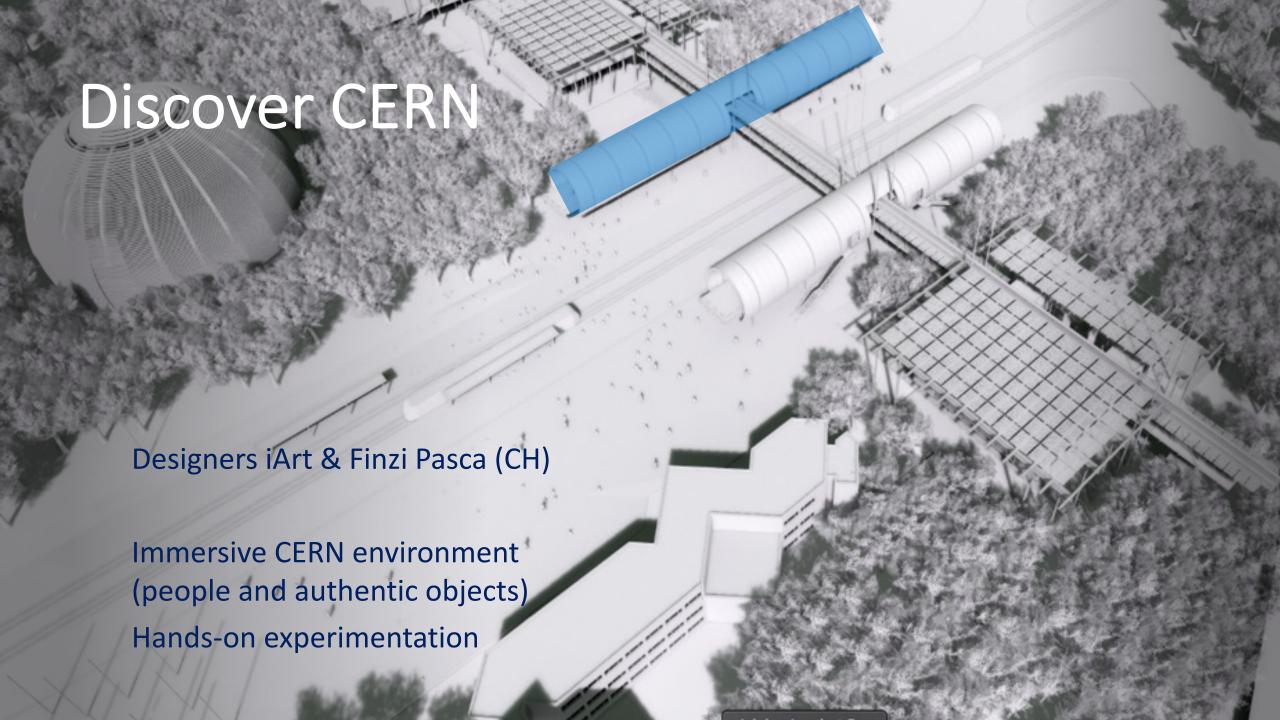
- Hands-on experimentation
- Content for age 8 and up

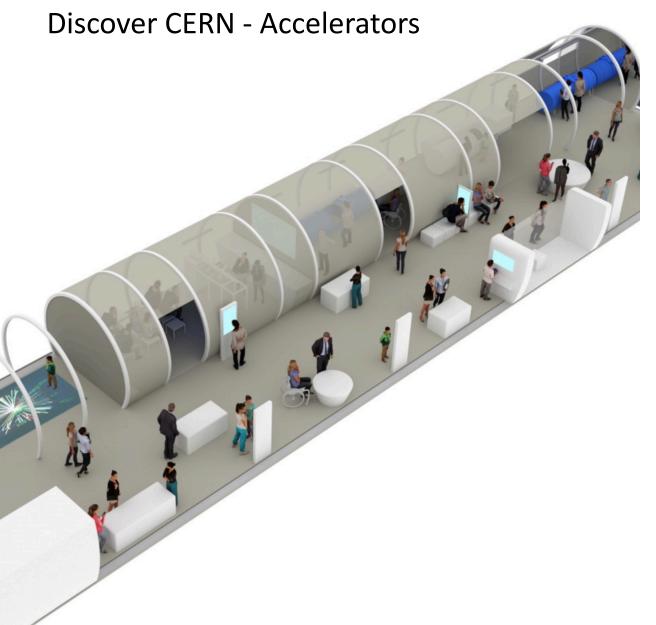


The importance of attracting younger visitors

- Drop in pupils expressing science & engineering aspirations from end primary onwards *
 - Lack of science capital at home, so children are not able to envisage where science could take them
 - School careers info is generally too little, too late
 - Stereotypes become anchored
- Targeting younger ages also improves diversity
- More entry-level content means we're accessible to broader visitor groups
- Hands-on experimentation improves visitor engagement and learning

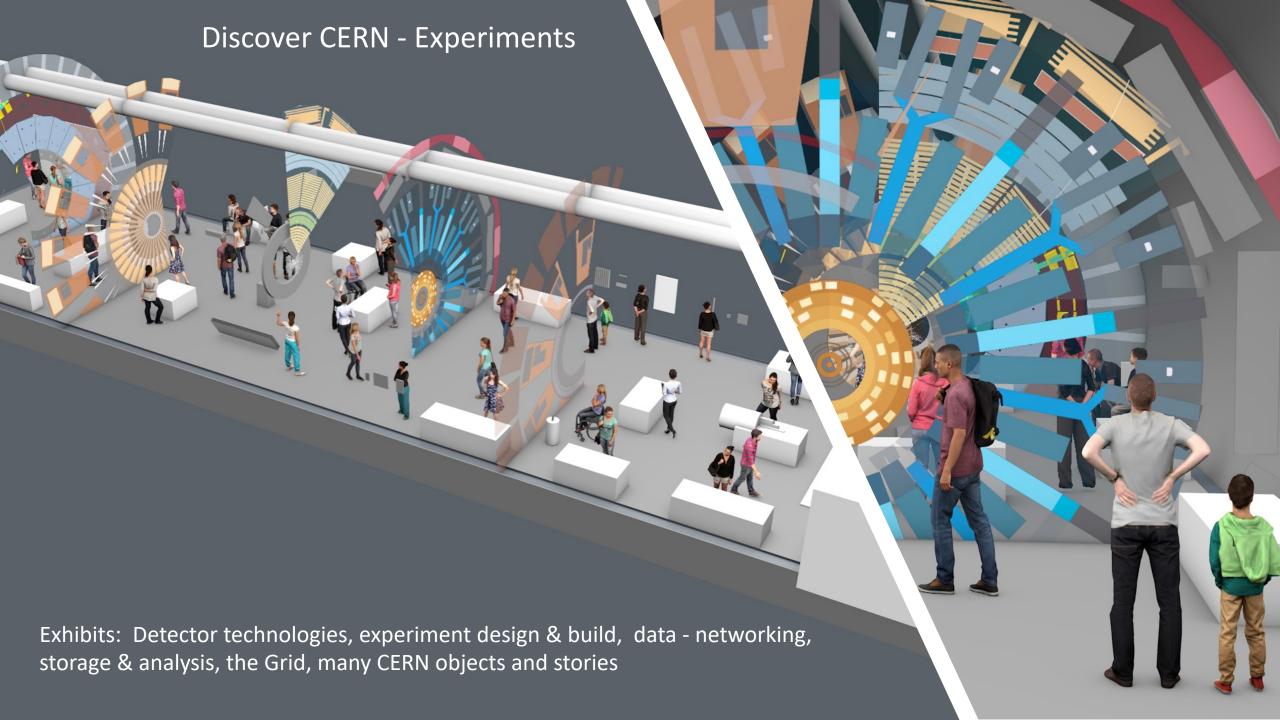








Exhibits: Acceleration, Applications of accelerators, Accelerator technologies (Magnetic fields, Superconductivity, Vacuum, Cooling), Robots, Tunneling, Operation, CERN objects and stories

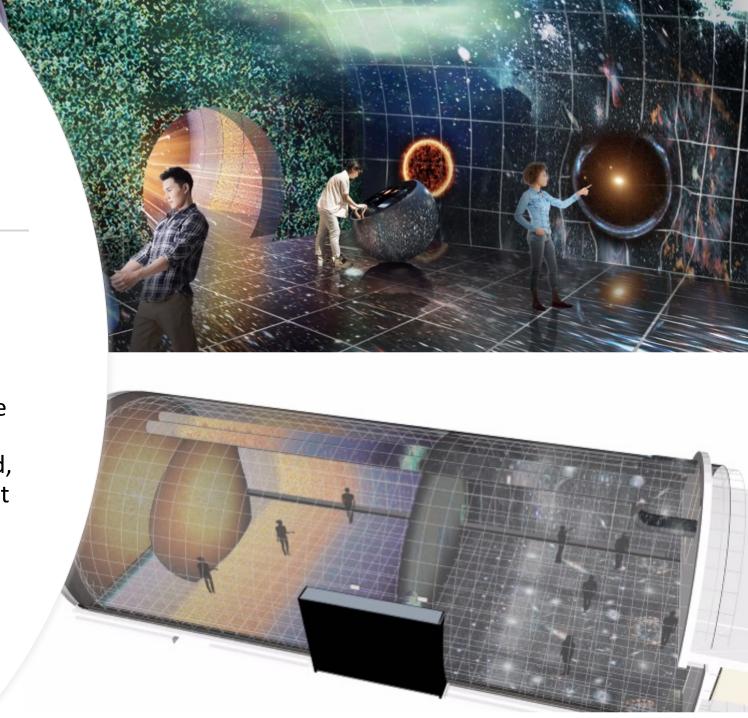




Our Universe

Back to the Big Bang

Exhibits: cosmic rays, nucleosynthesis inside stars, dark matter, gravity and gravitational waves, antimatter, E=mc², protons, BEH field, interaction with the scenography at different epochs, CERN objects and stories

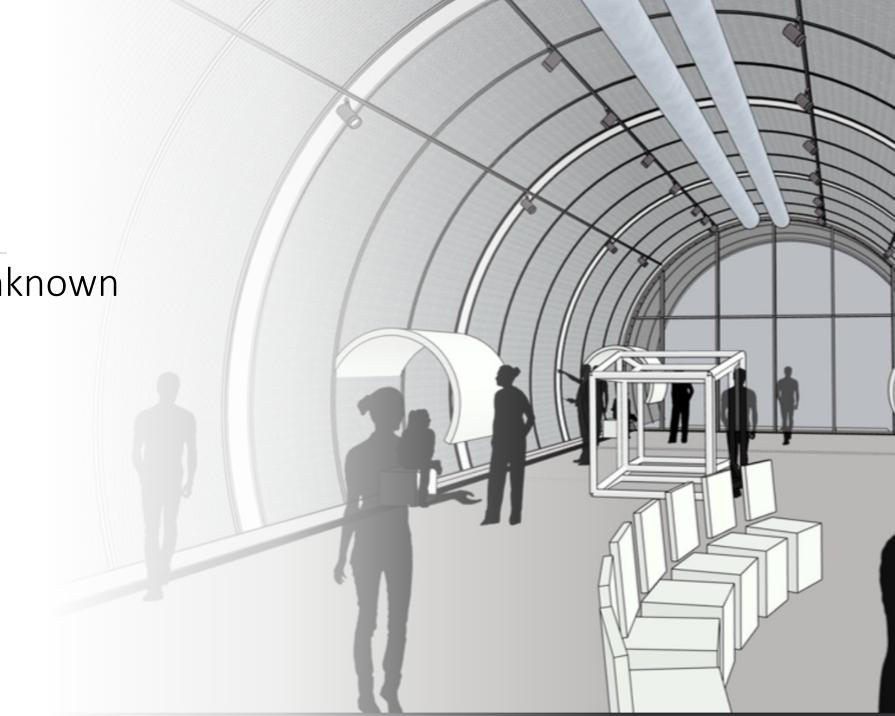


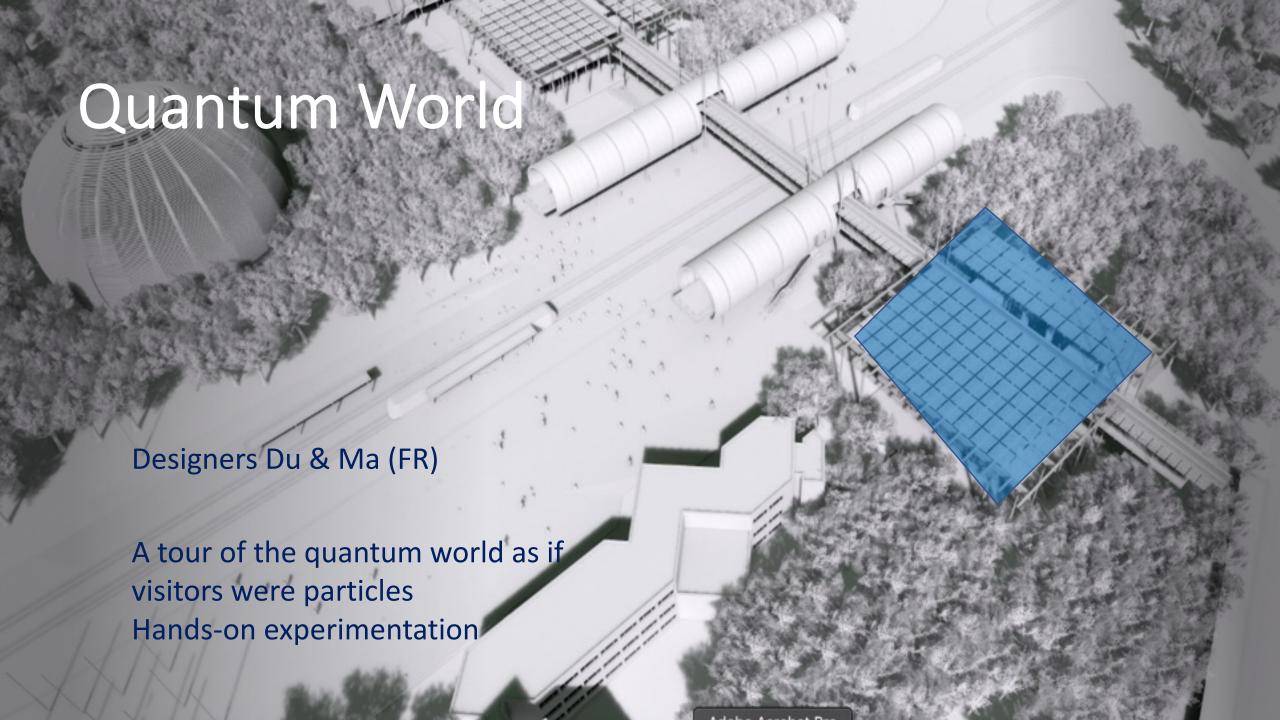
Our Universe

Exploring the Unknown

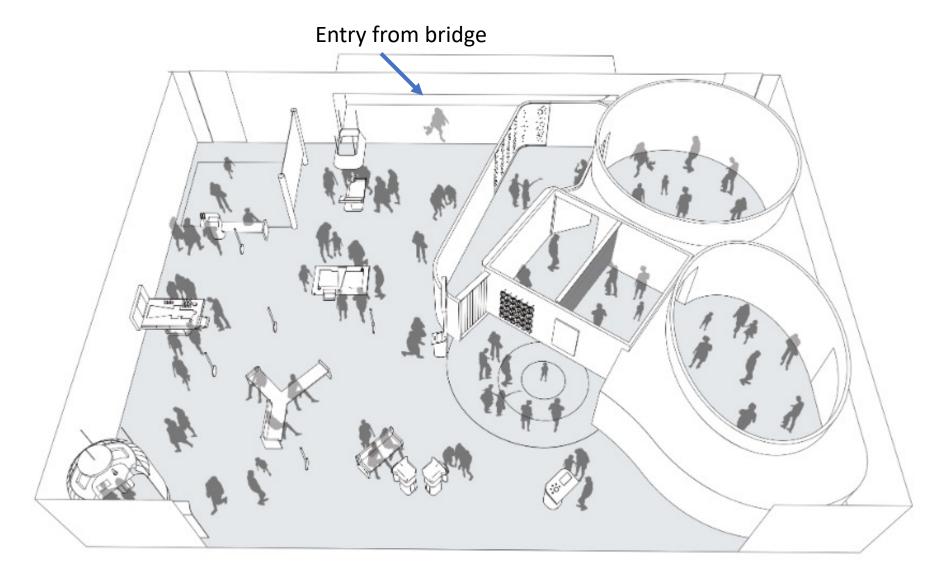
Artworks and Science stories

- The void,
- Space & time,
- The invisible

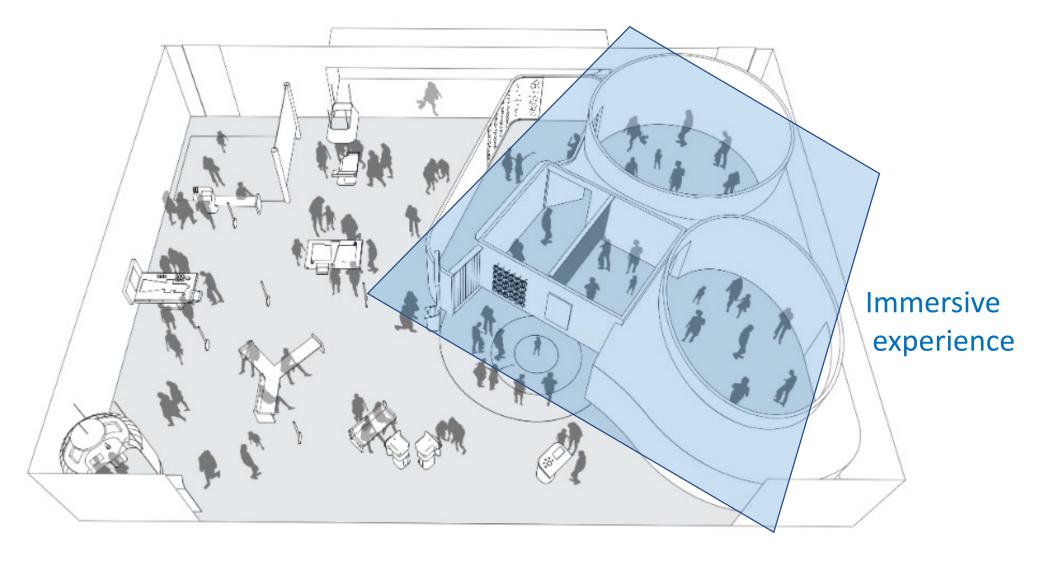




Quantum World

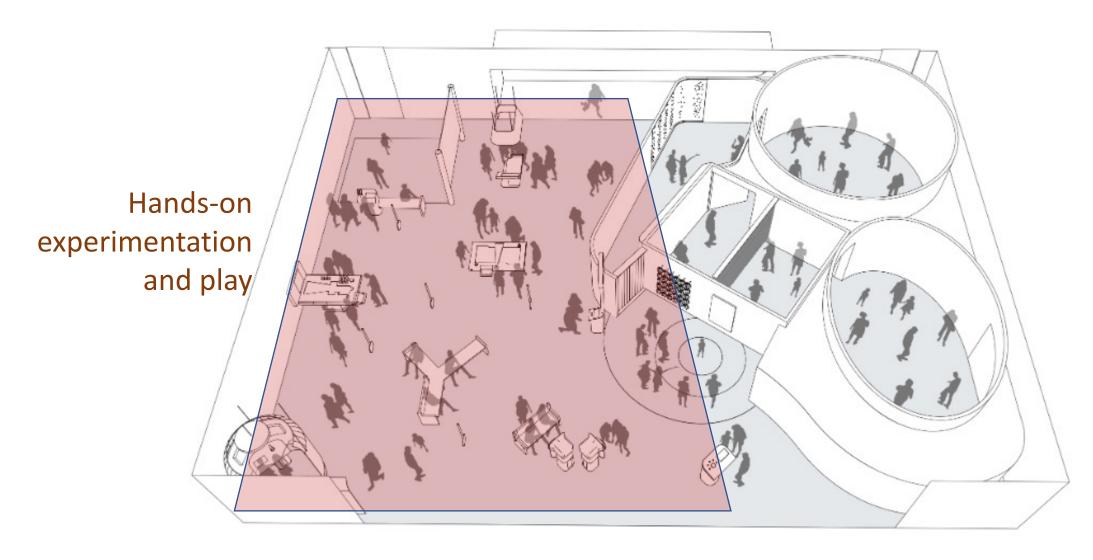


Quantum World



Interactive 'son et lumiere' with audioguide: uncertainty principal, wave-particle duality, tunneling, entanglement

Quantum World



Exhibits: Uncertainty tennis, quantum tunneling, quantum karaoke, virtual particles, entanglement, double slit experiment, quantum in the universe, quantum at CERN, quantum in the world around us

A gateway for Member States

- Not just for the local area
- Tourist attraction for all visiting Geneva
- Sharing of content to increase impact beyond CERN. (DESY, Palais de la Découverte, ...)



Timeline of the development process

2019 Initial scenario and brainstorms for hands-on exhibits

End 2019 –Summer 2020 Tender for designers & work ongoing for exhibits. Audience research begins.

Autumn 2020 - Spring 2021 Preliminary design

Spring 2021 – Autumn 2021 Final design

Autumn 2021 – Summer 2022 Build phase

Autumn/Winter 2022 Installation

2023 Soft opening with testing & training, before full opening



Find out more:

Hands-on experiments:

Patricia Verheyden (BE)
Annabella Zamora (FR)
Jami Sarnikorpi (FI)





• Stories, texts, scenarios: Corinne Pralavorio (FR)

• Arts, objects: Iliana Tatsi (GR)





Help prototype & test exhibits / translate & check texts / guide visitors...