



CCC visit point

R. Giachino

BE/OP

Acknowledgement: R.Landua, E.Sanders, B.Pellequer, M.Poehler, C.Colloca, M.Bajko, C.Noble, A.Mansuy

The Universe of Particles exhibition is an excellent starting point for a visit, but the primary motivation for **visitors to CERN is to see science in action**, the reality of CERN's cutting-edge research.

CERN wishes to apply a **similar approach** to three of its most popular visit sites:

The CERN control centre (**CCC**), the superconducting magnet test facility (**SM18**), and the computer centre (**CC**) where all data is recorded and distributed world-wide for processing.



CERN is seeking an **innovative exhibition design**.

The design team should combine **creative excellence with cost consciousness**.

Visit sites are working laboratories and this places **constraints on visitor flow**.

Visit flow shall not disrupt the normal work of the site, nor place visitors in a situation of danger (proximity to high voltage, overhead cranes etc.)

New content shall **include interactive technology** and also the display of **real objects** to reveal hidden parts of the equipment on show.

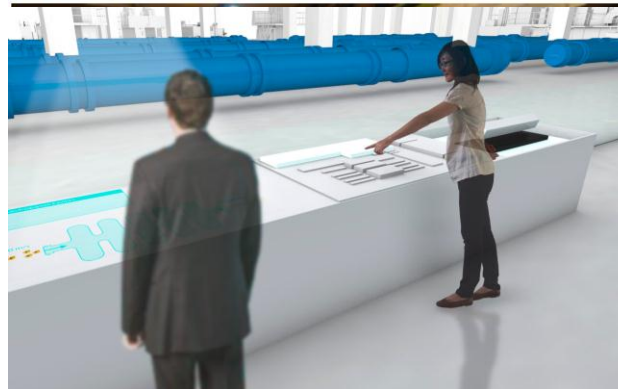
Audiovisual material shall be used to bring the technical explanations to life.

Visit experience shall reinforce the idea that CERN is a centre of excellence

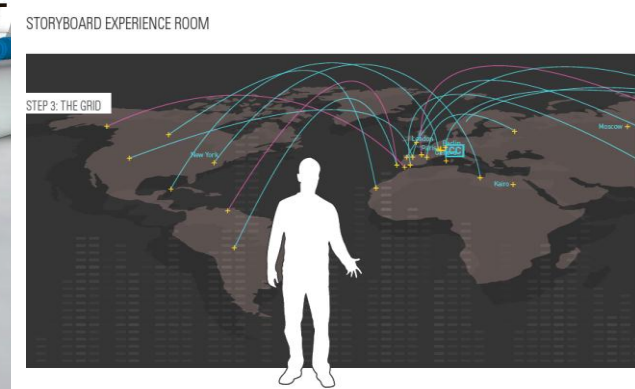
CCC



SM18



CC



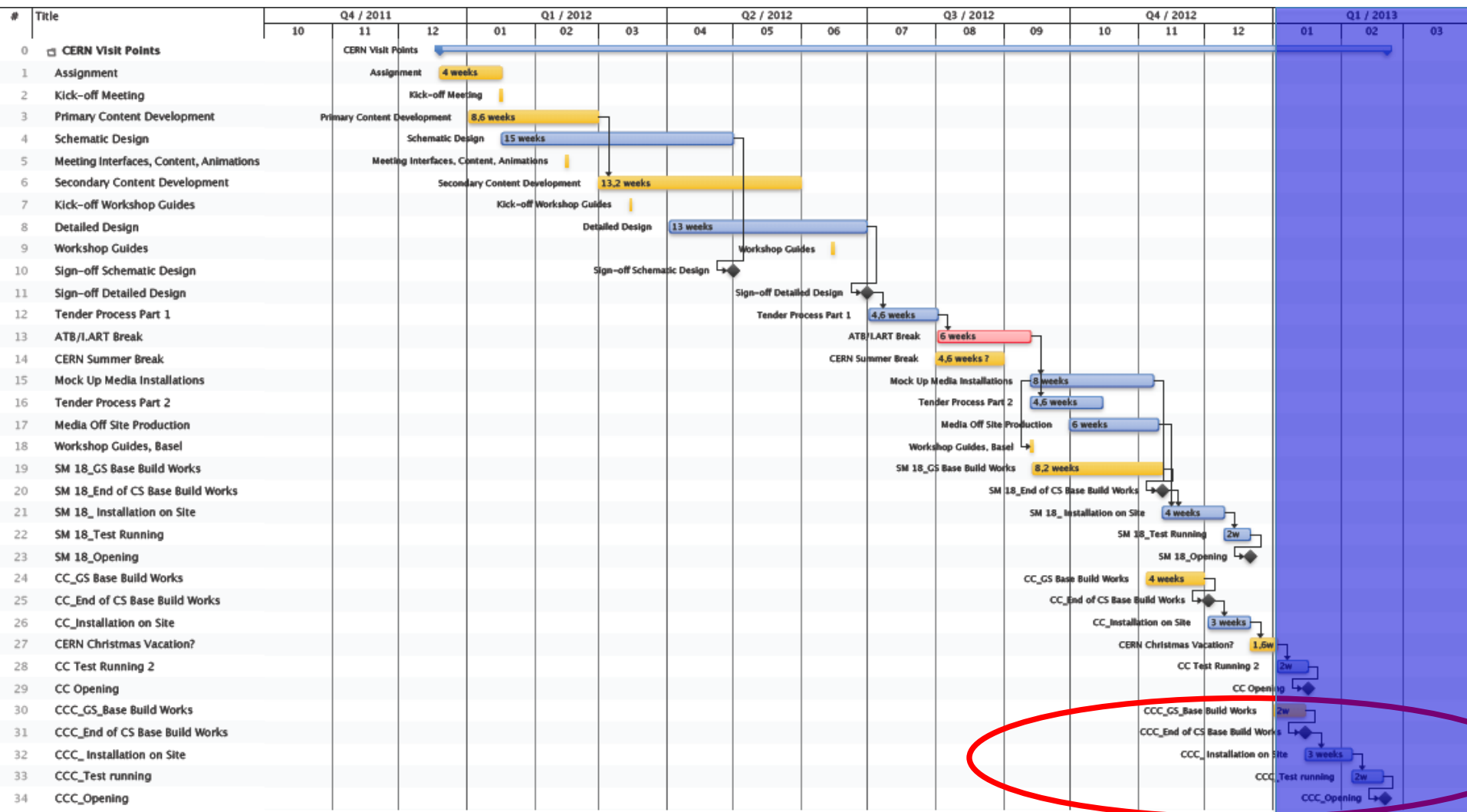
Project study launched 2010

Market Survey July 2011
Invitation to tender September 2011
Evaluation of tender reply October 2011

- Assignment: **December 2011**
- Delivery of primary content: January - March 2012
- Schematic Design: February - March 2012
- Delivery secondary content: March -May 2012
- Detailed Design: April - June 2012
- Base Built Works: June - August 2012
- Sign off Detailed Design: June - July 2012
- Final Content Delivery: June - August 2012
- Production Mock ups: July - August 2012
- Production off site: August - October 2012
- Installation on site: **Sept.-November 2012**
- Hand over / Tests: **December 2012**



Schedule CERN Visit Points





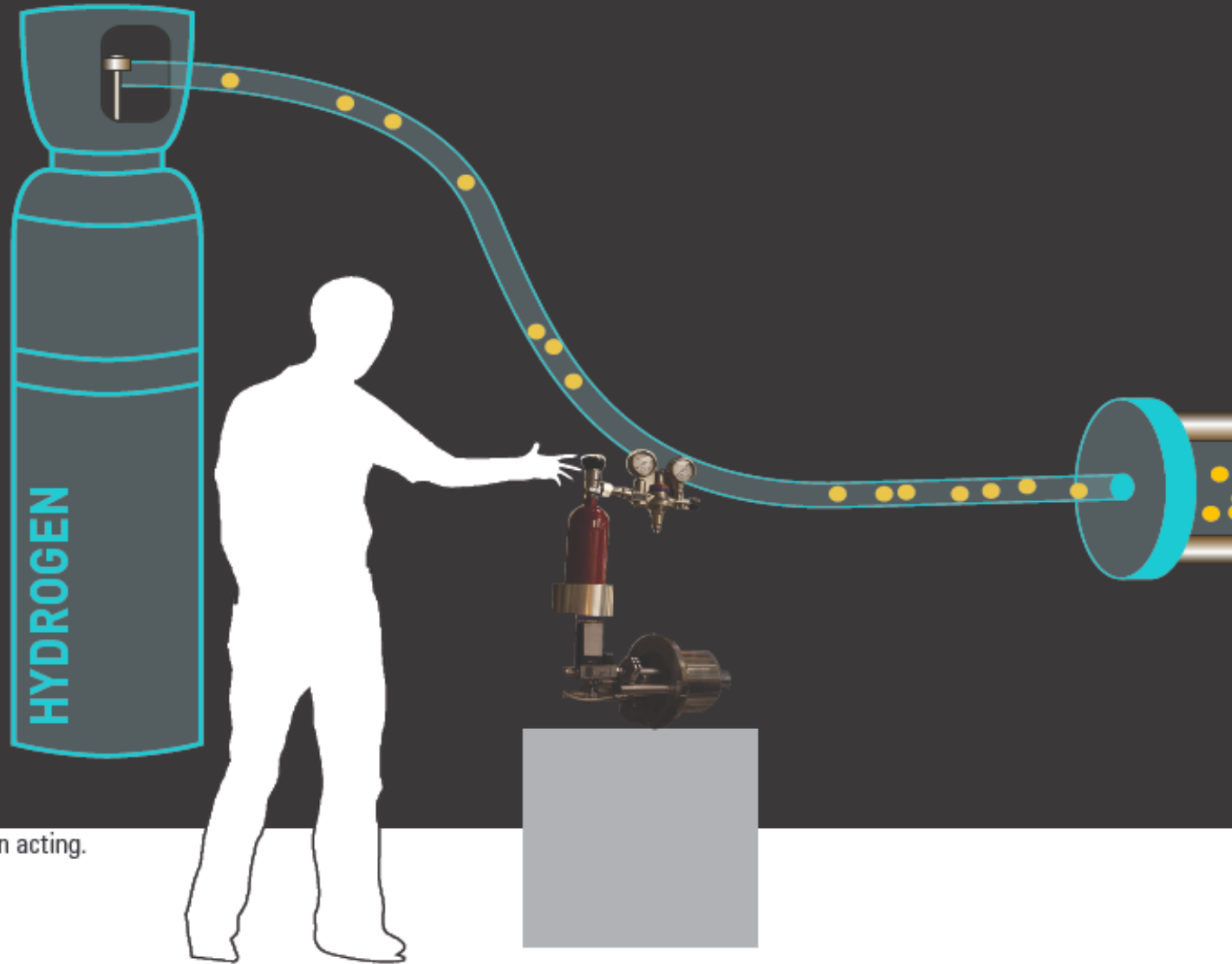
The main new features in the modified CCC entrance would be:

A **'projection wall'** made of **'intelligent glass'**, that would replace the wall between the entrance room and the CCC, except for the existing sliding door entrance of the CCC.

The 'intelligent glass' can be switched between two states: either opaque (during projection) or transparent (to show the CCC). Its surface is multi-touch sensitive allowing to move/enlarge/shrink objects, start/stop animations or videos, etc.

STORYBOARD

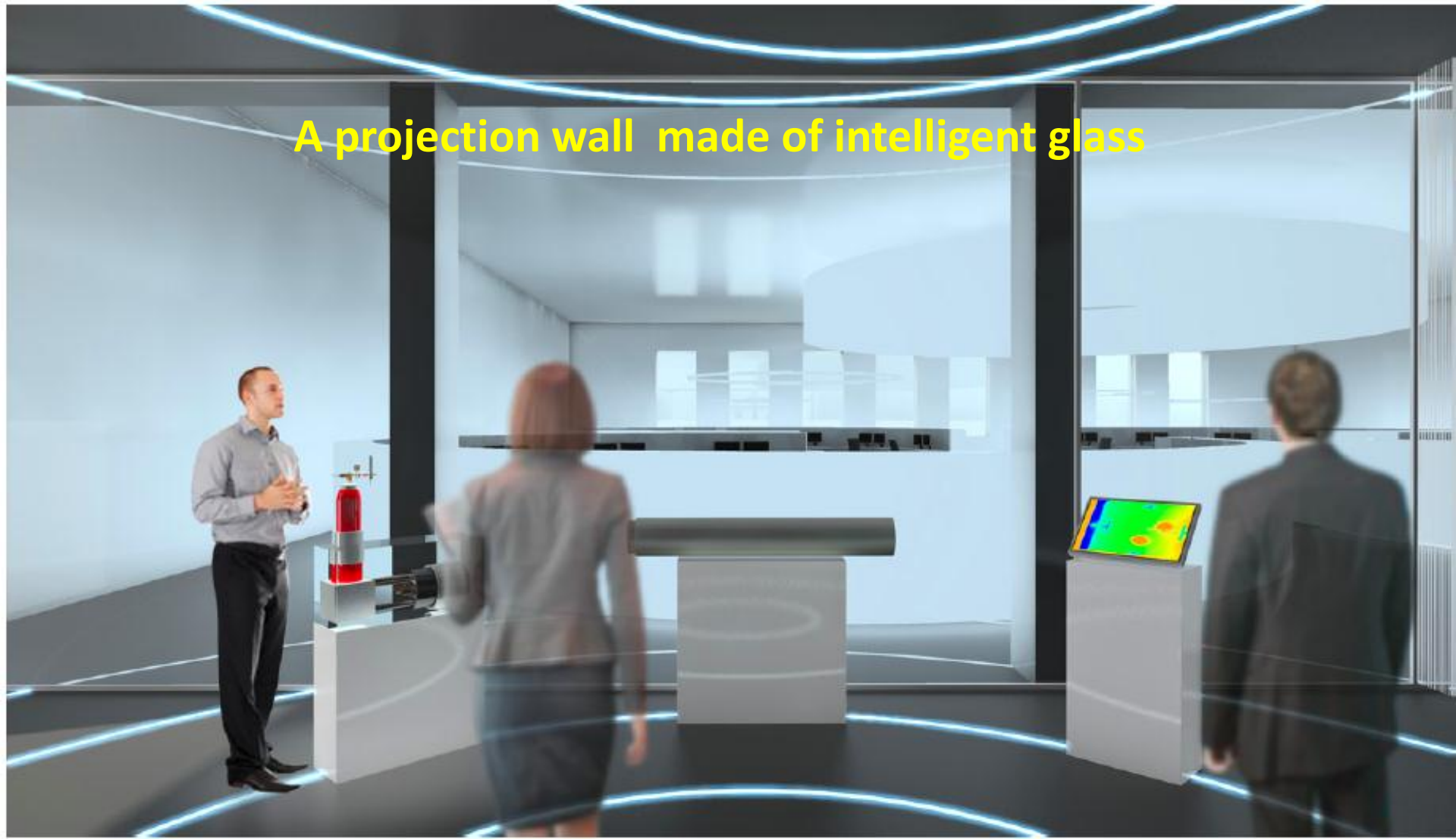
STEP 3: INITIATION OF BEAMS



They will then be spectators of their own acting.

VISITOR'S VIEW

A projection wall made of intelligent glass



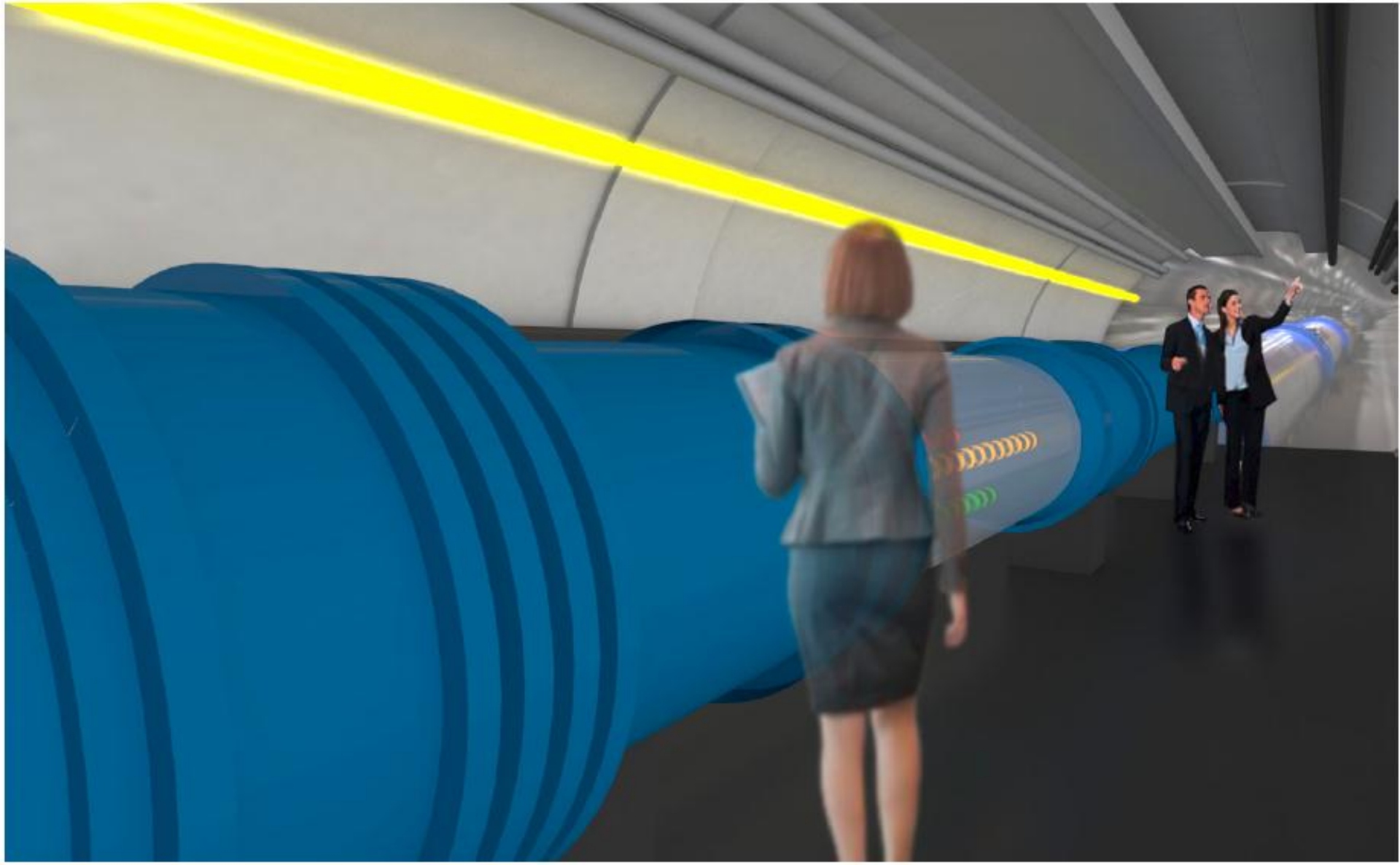


An access corridor to reach the CCC during visits, plus sliding doors (or curtains) to separate and to darken the presentation room during visits.



SM 18 visit point

VISITOR'S VIEW LHC



VISITOR'S VIEW



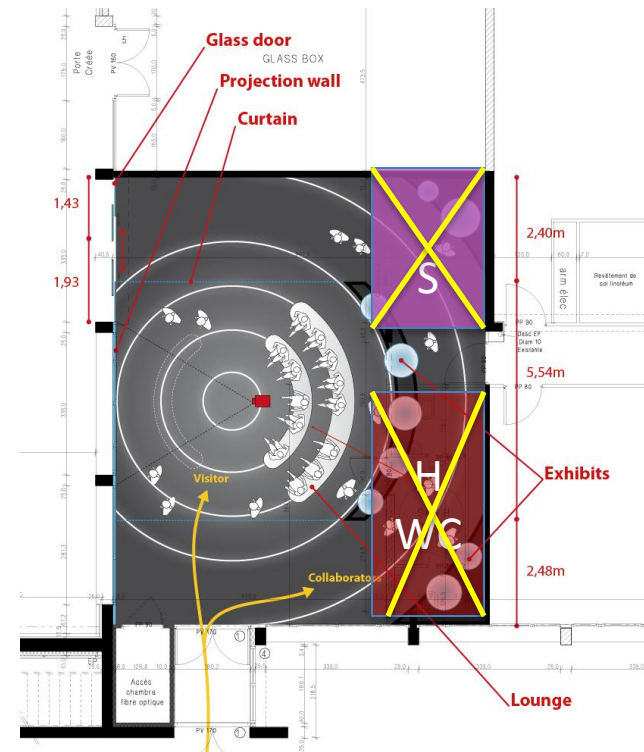
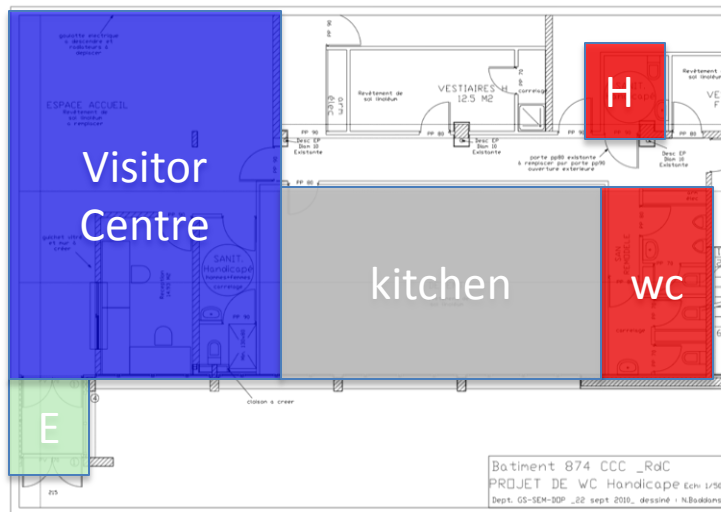
STEP 5: MAIN SHOW

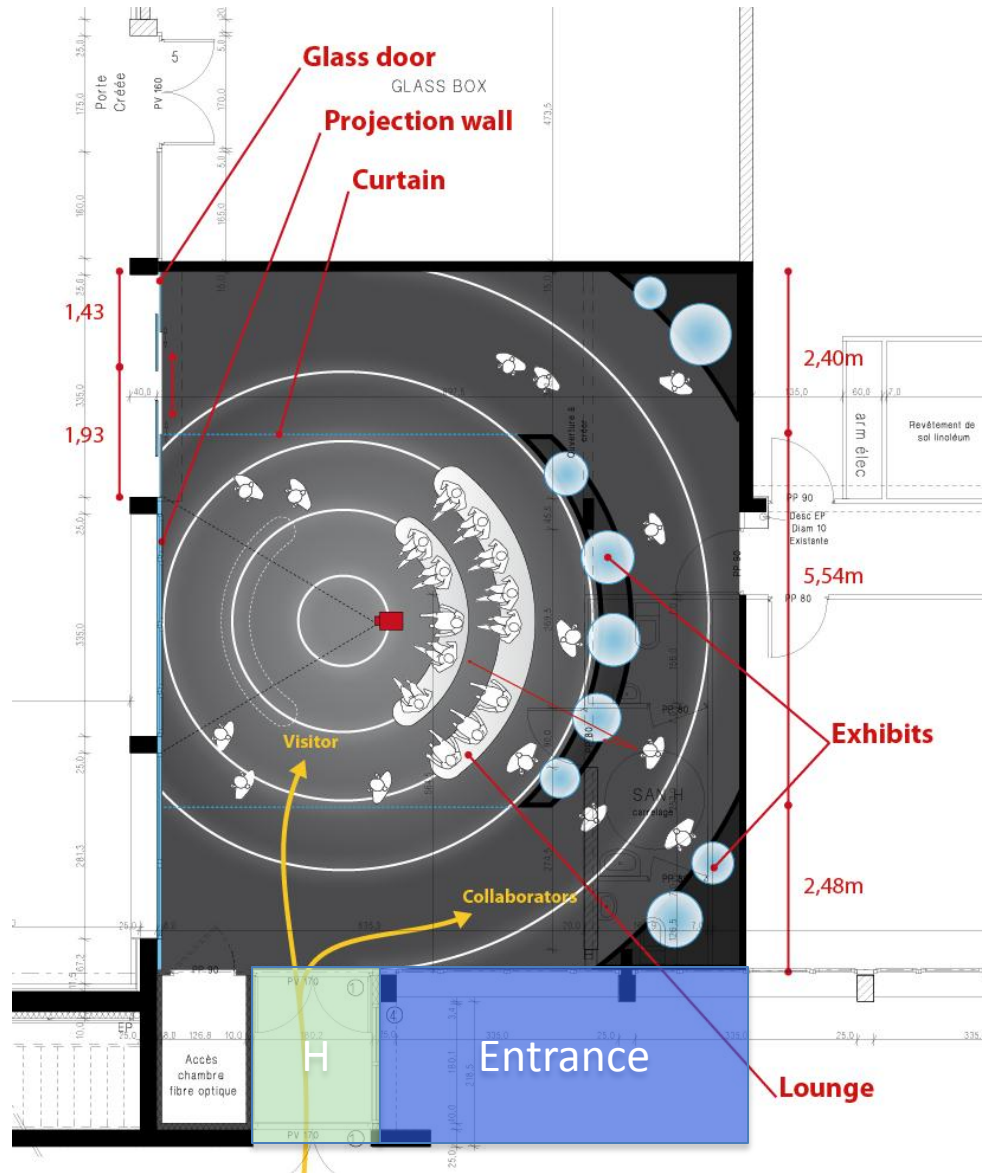


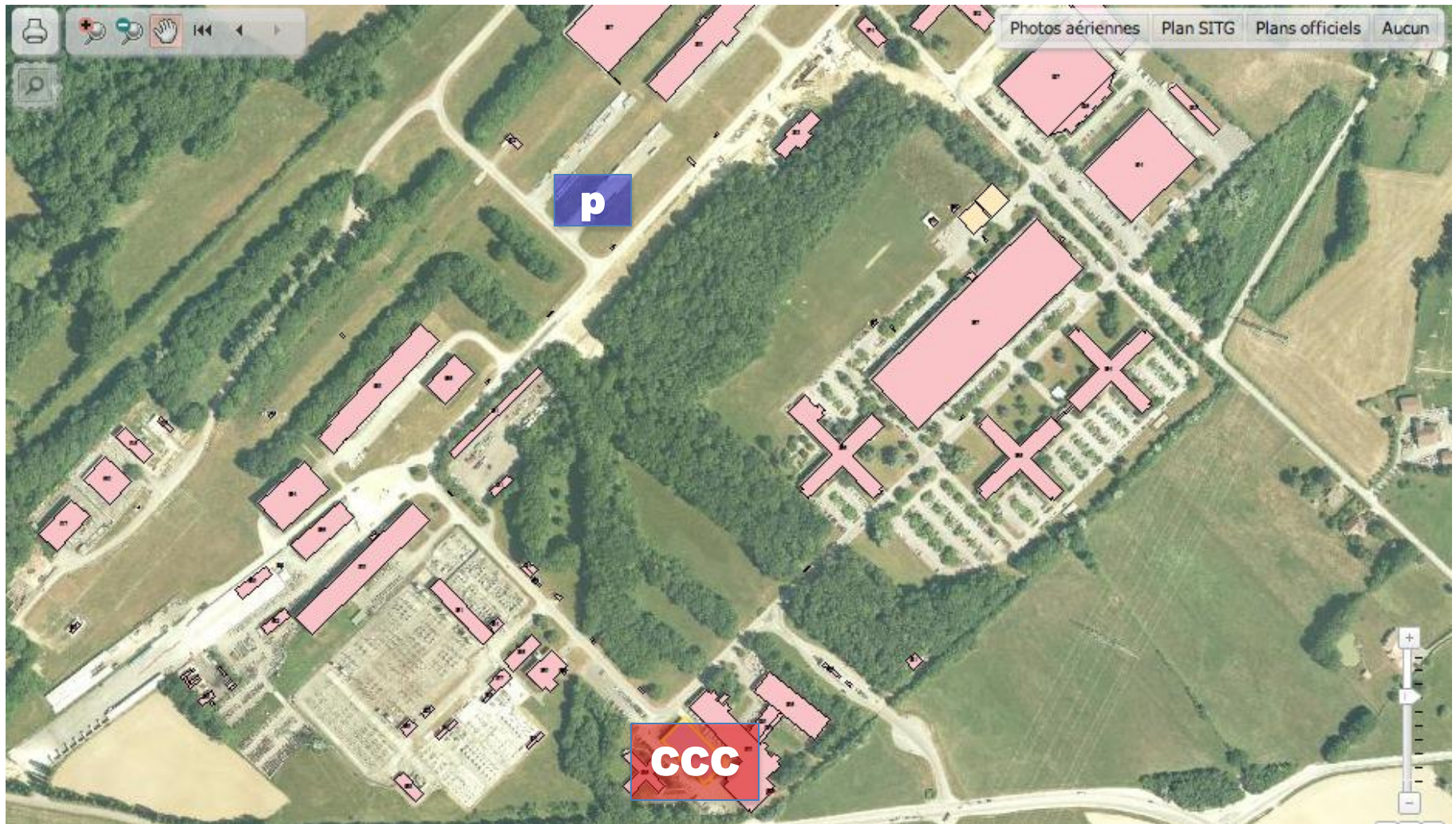
Real Time Data visualised by LEDs highlighting the different units in progress

Modification needed

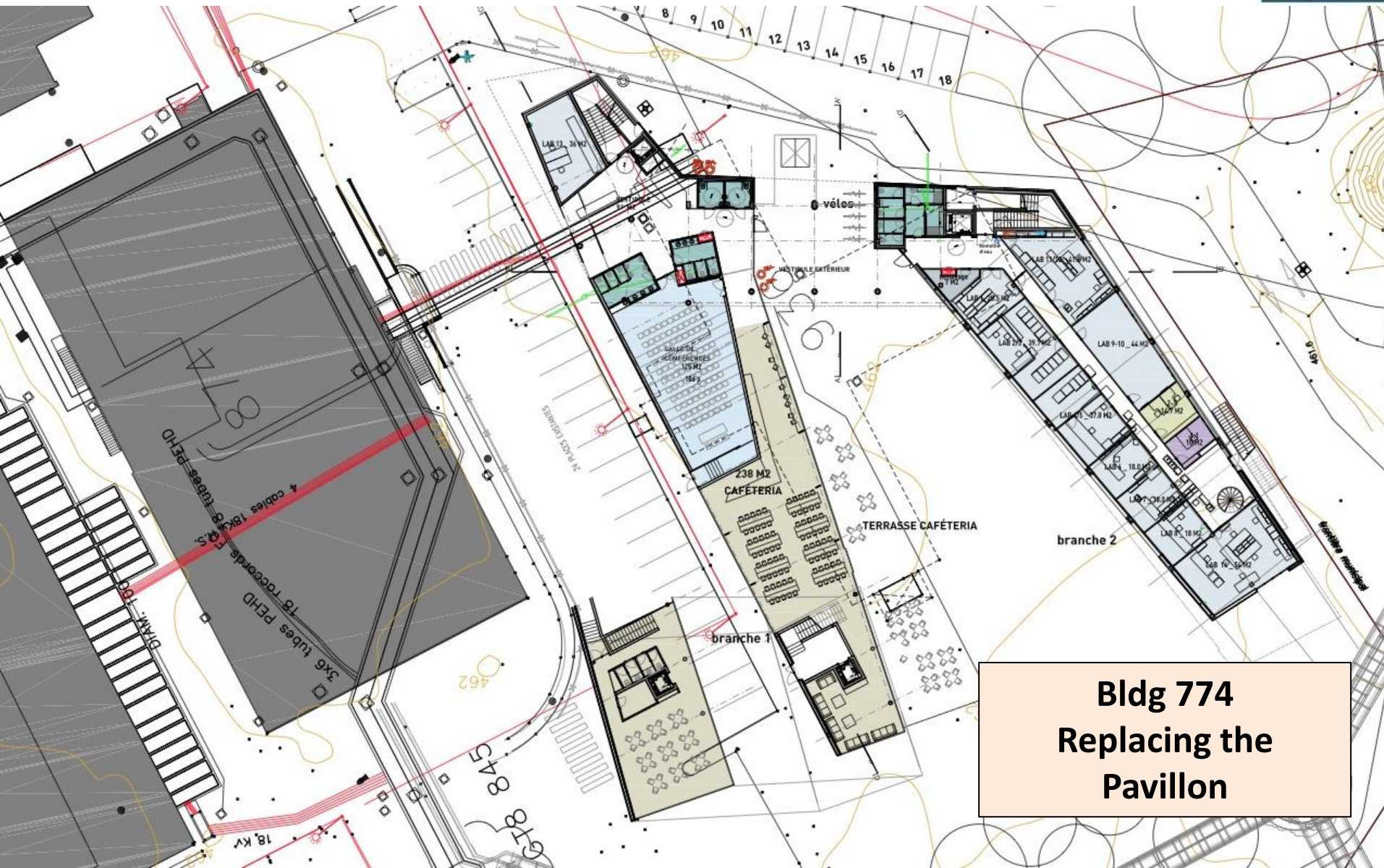
- The present toilet in the entrance will be dismantled. (GS/M.Poehler)
- The secretary place will be moved into the CCC. (OP)
- Handicap toilet will be moved into the corridor on the left side. (GS/M.Poehler)
- The main entrance door will be modified. GS/M.Poehler)



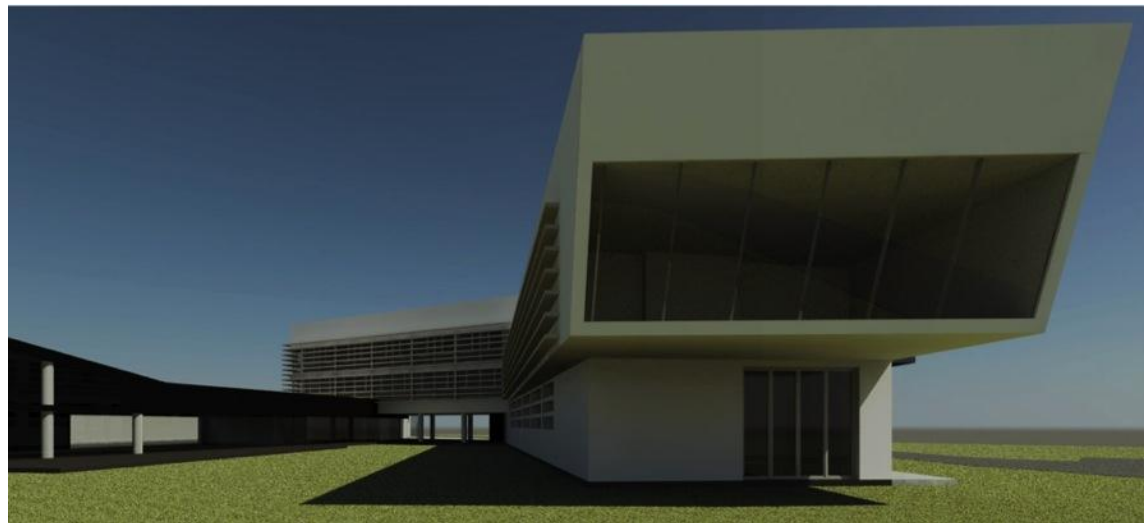




Possible solutions **without additional civil engineer**. Guided Visit's will arrive either with private Bus or Cern Bus, both could reach a parking area nearby and be called IN when the visit is finished.



**Bldg 774
Replacing the
Pavillon**



Will contain:

- Cafeteria
- Visitors Facilities
- Auditorium
- All of BE-CO
- Parking 'round the back'
- 'Green' technologies

Present Status:

- Directorate has given the green light for the market survey
- FC adjudication in June 2012
- Construction starts July 2012!
- Completed Nov. 2013



Complimentary to the CCC visitors project

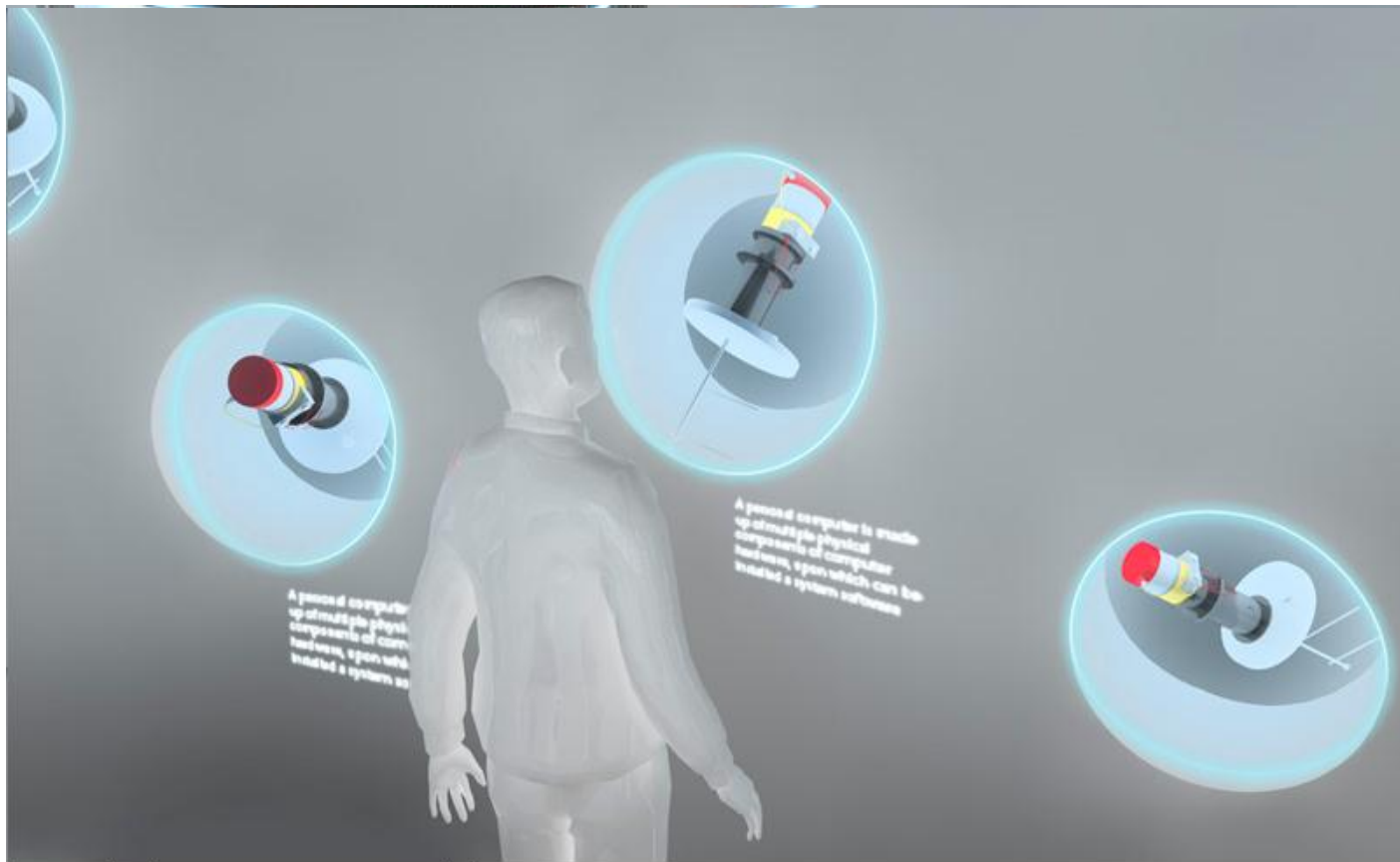


Thank you

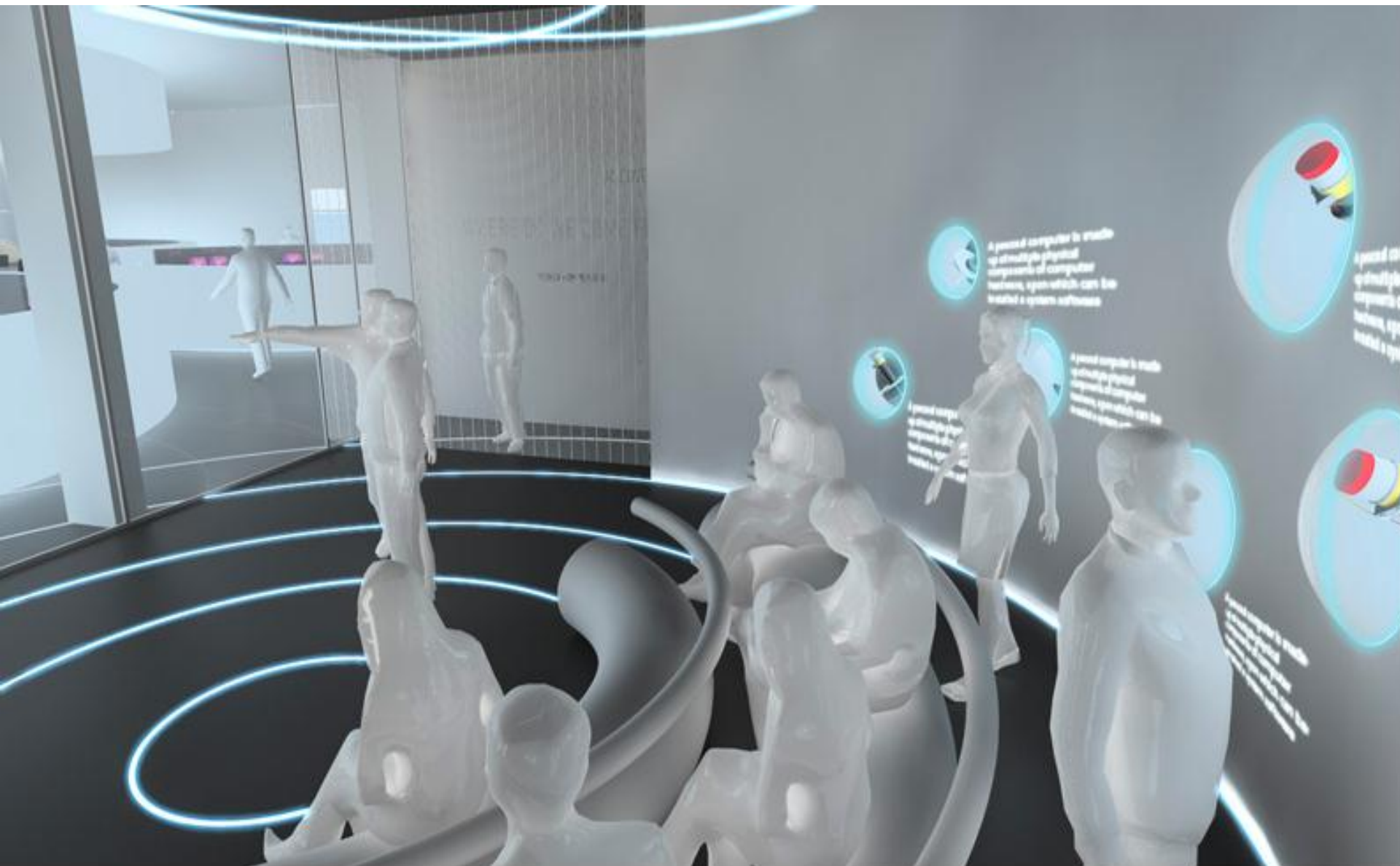
Thank you



A cross section view to illustrate **the main passages** into the CCC outside visits time, and the **alternative passage** when **visit's occurs**.

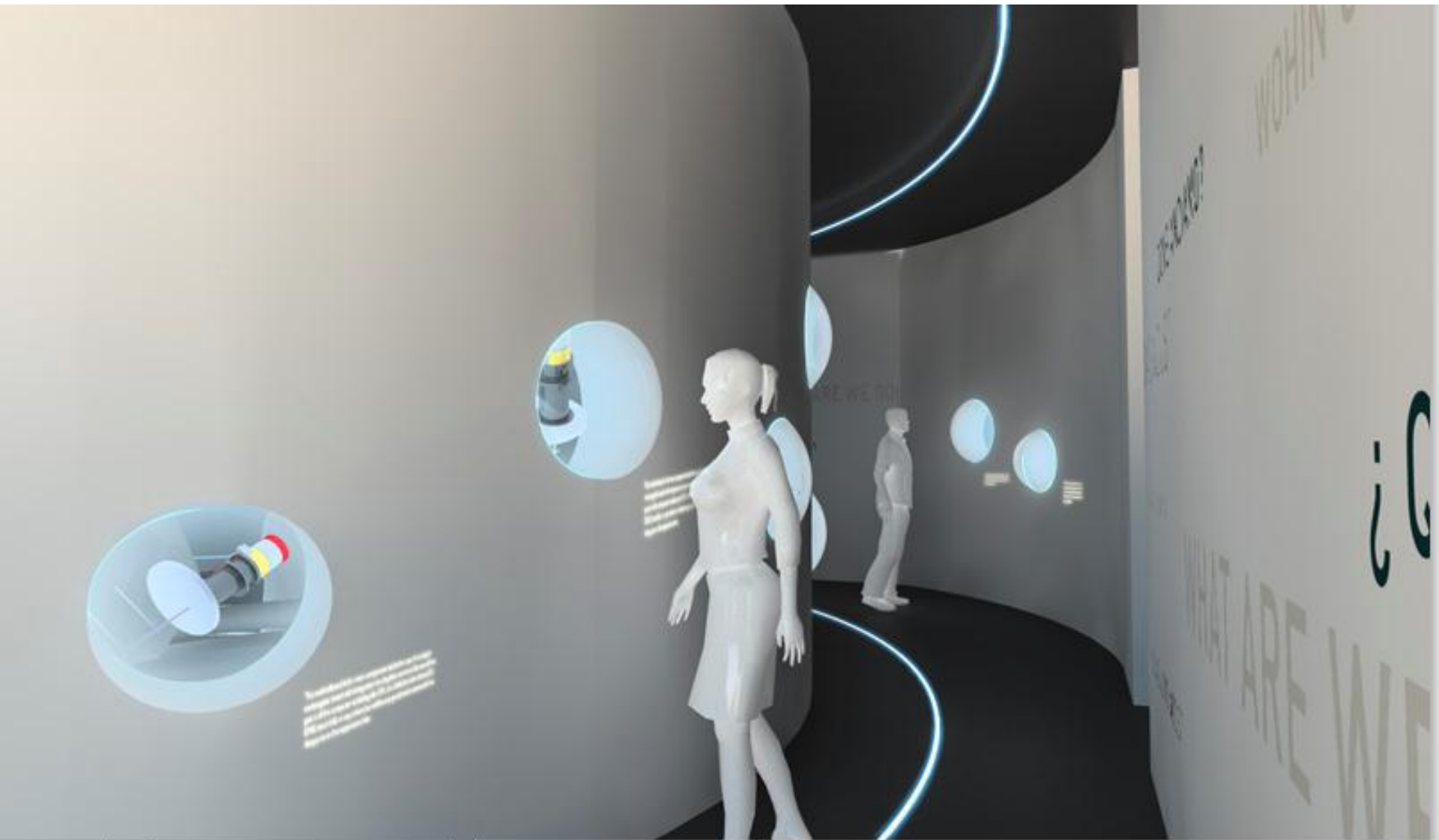


Exhibition spheres integrated into separation wall - they contain real objects that are connected to the CCC (e.g. beam diagnostics, extraction elements, etc). For each of these objects, a short animation exists that guides can show when they talk about it.





Entrance and passage to services

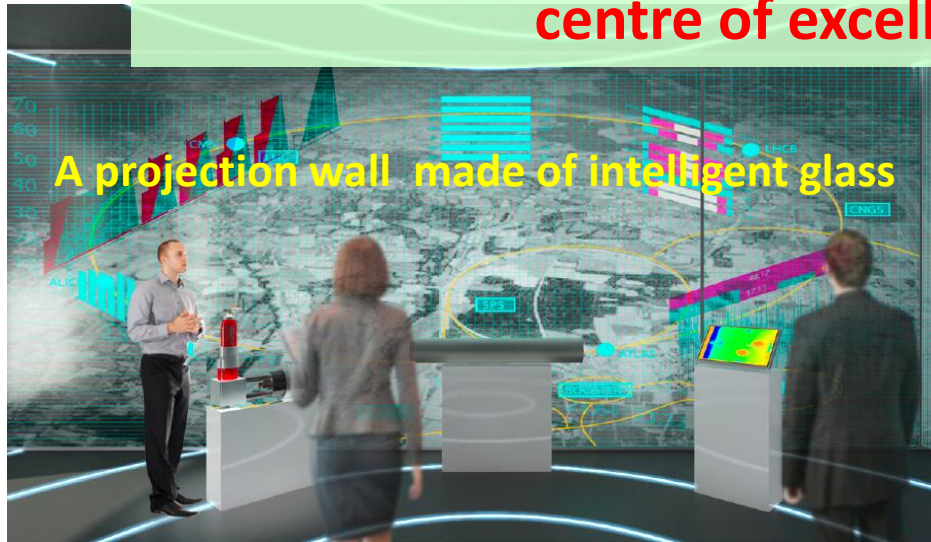


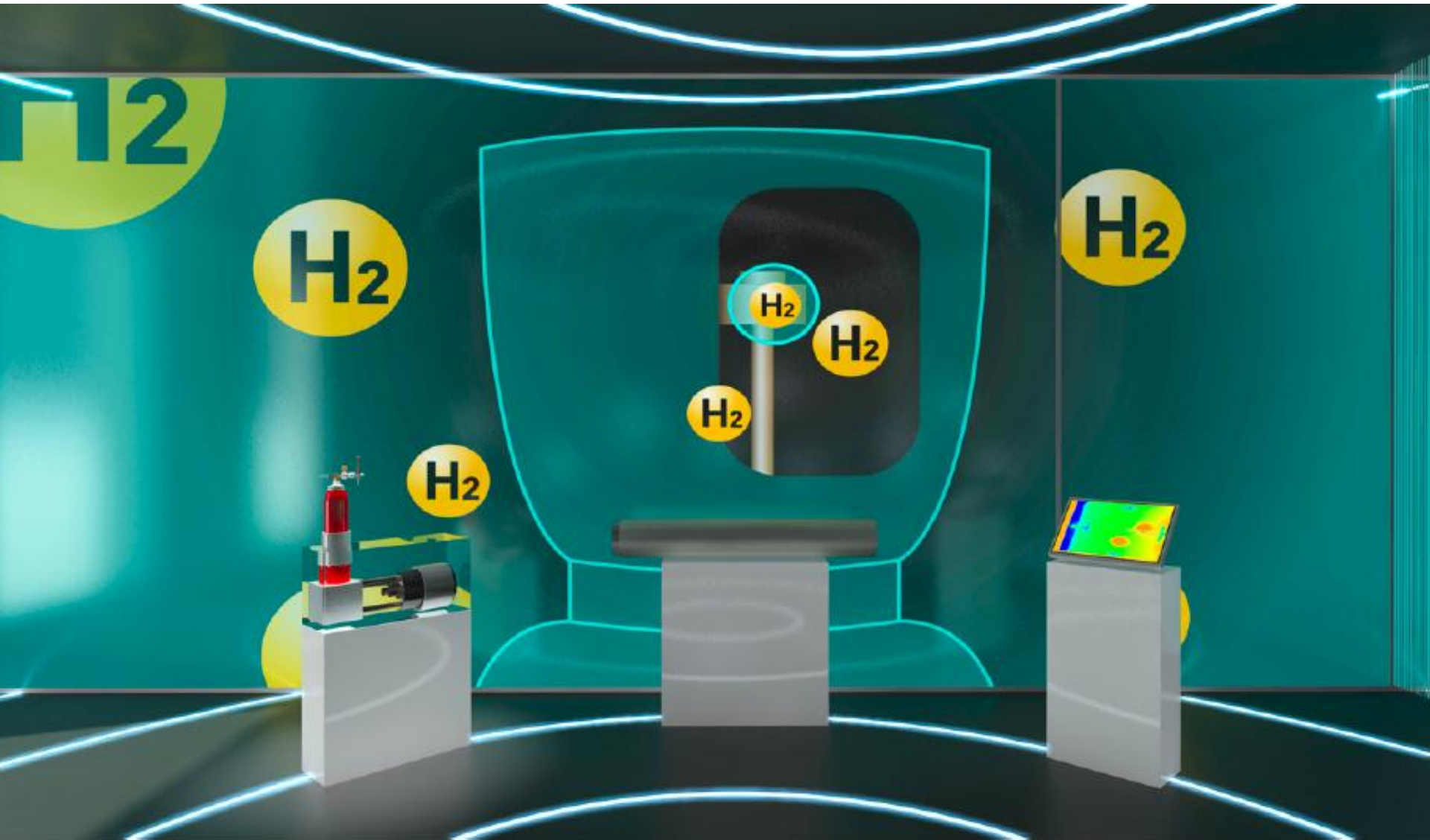
The Universe of Particles exhibition is an excellent starting point for a visit, but the primary motivation for **visitors to CERN** is to **see science in action**.

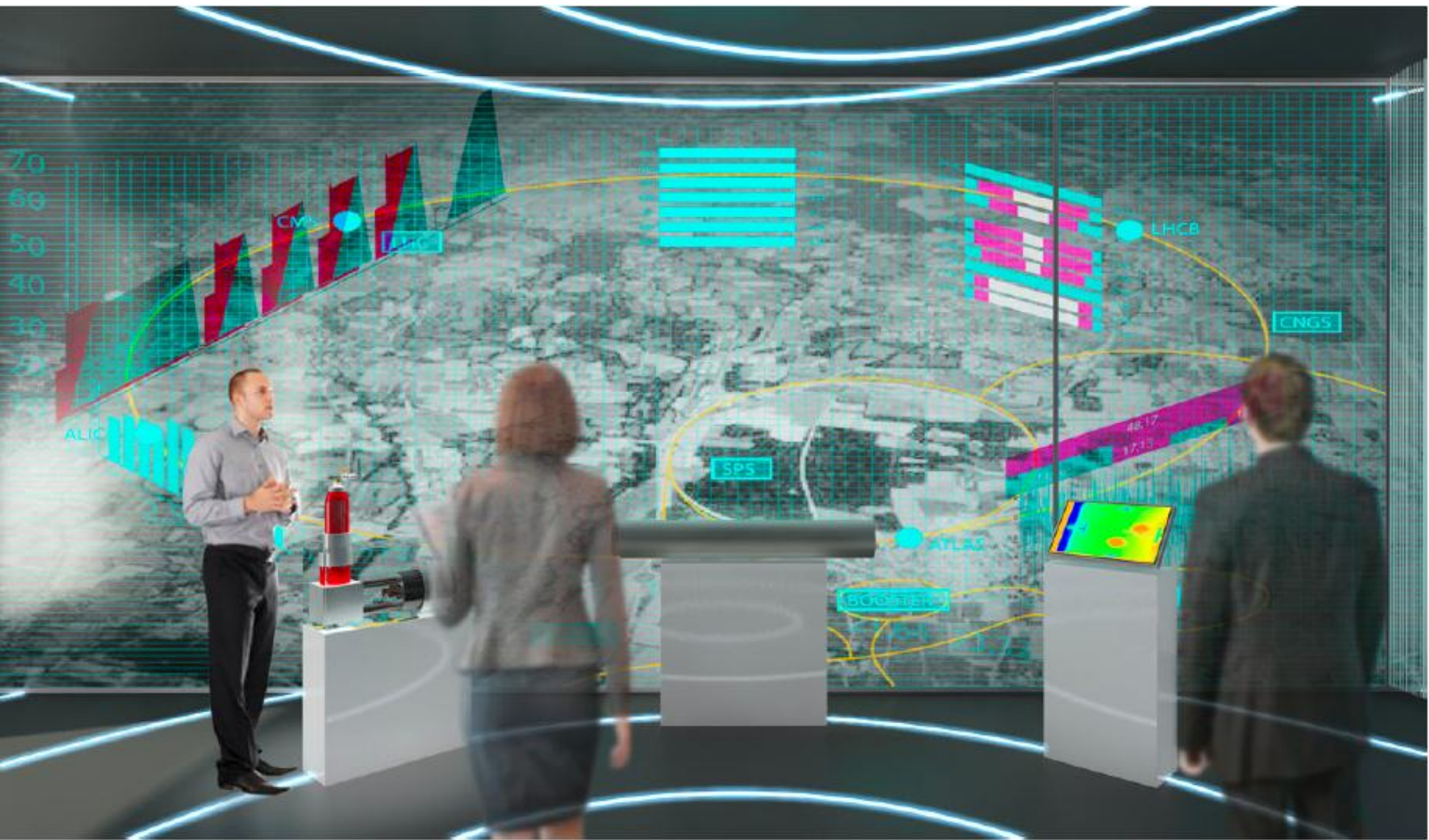
CERN wishes to apply a **similar approach** to the **CERN control centre (CCC)**, the superconducting magnet test facility (**SM18**), and the computer centre (**CC**).

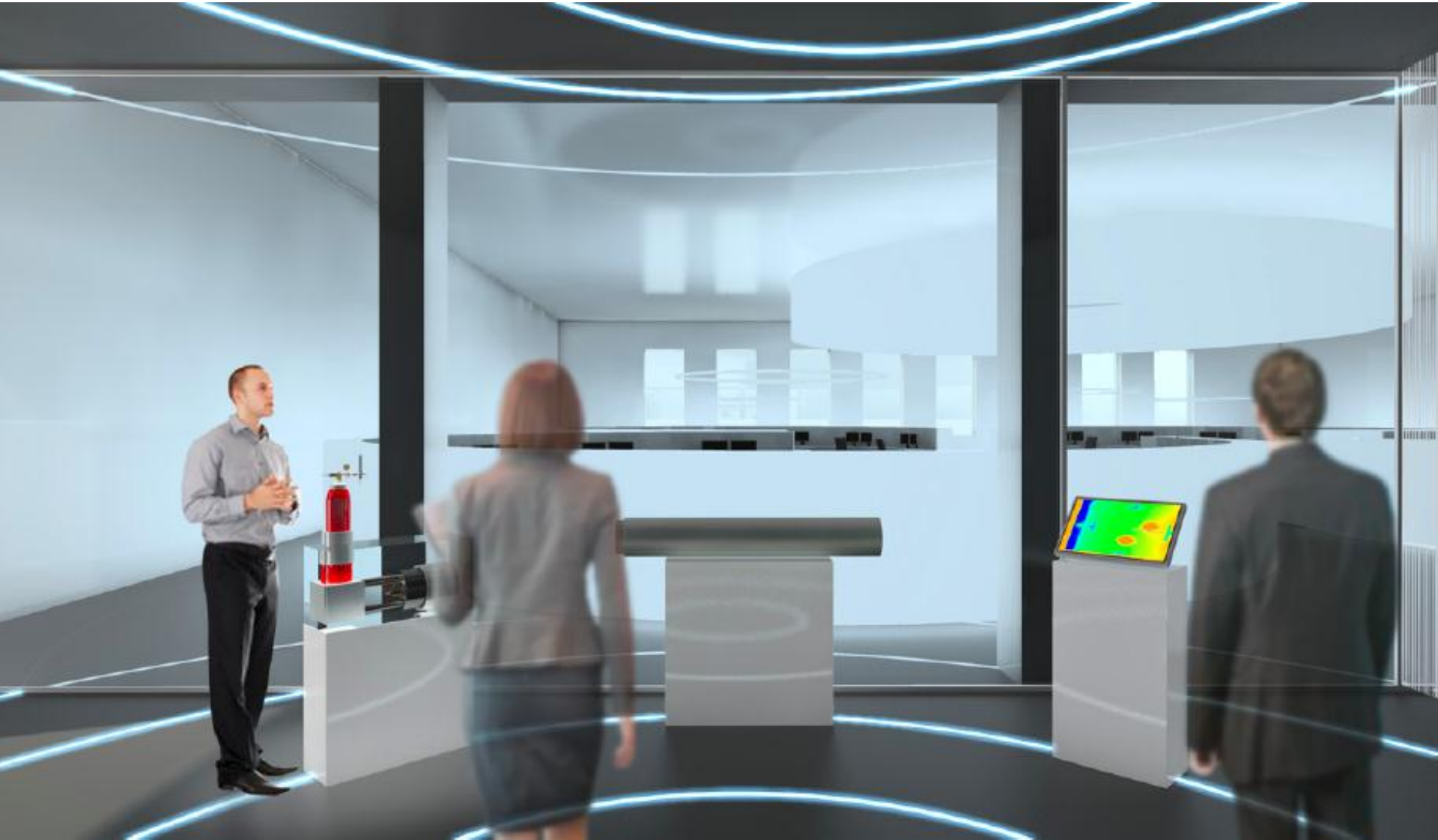


Visit experience shall reinforce the idea that CERN is a centre of excellence.

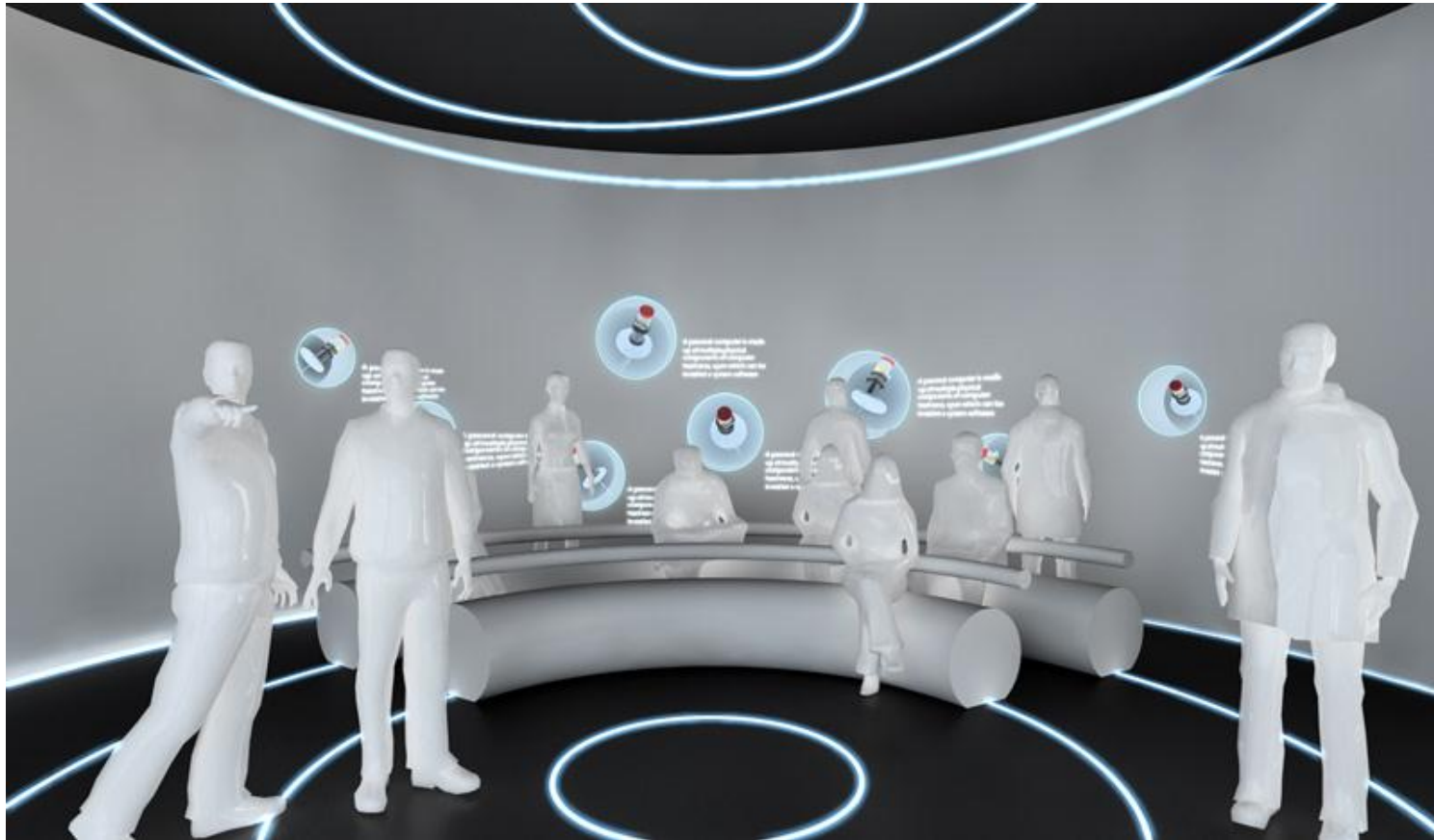








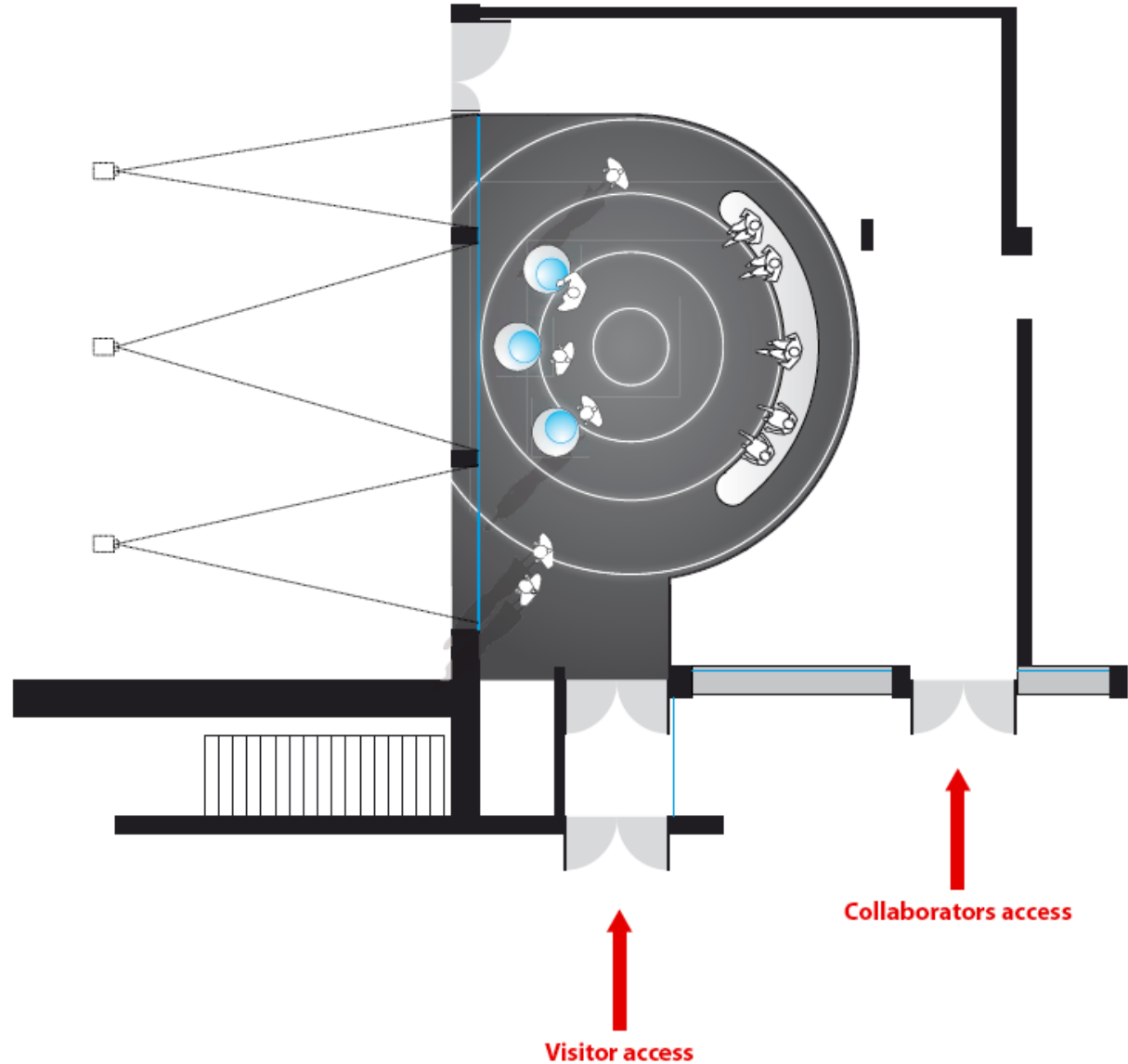




Seating area for 15-20 people. Seating the visitors would avoid the well-known 'by-stander' effect: in a group of e.g. 25 people, the most interested 3-4 people cluster around the guide and block the sight/sound for the others, who wander off and miss most of the explanations.

2

As soon as the visitors are touching the information terminals, the glass pane - made of a privalite glass (with a liquid-crystal surface) - will turn into an opaque surface and the room gets darker. At the same time a big projection on the opaque glass surface will appear and act like a big interactive screen which is connected to the information terminals.



BRINGING REALITY TO THE FORE

INTEGRATION OF OBJECTS

HIGH TECH

TAILORED TO GUIDES

REDUNDANCY

INTERACTIVE PRESENTATIONS

ILLUSTRATIONS / GRAPHICS

LIFE TIME

