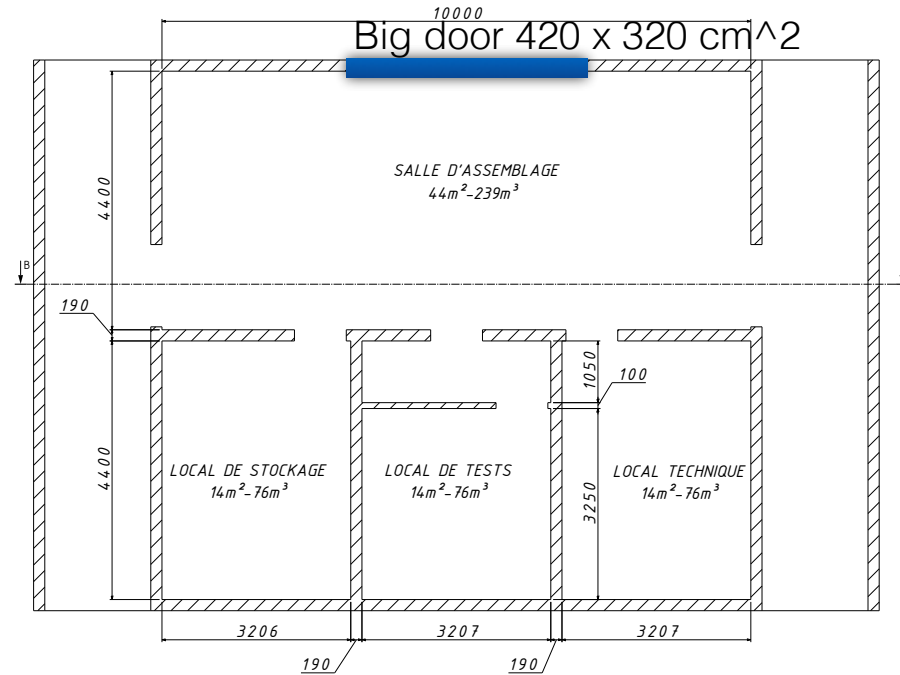


Construction of a new clean room at UCL

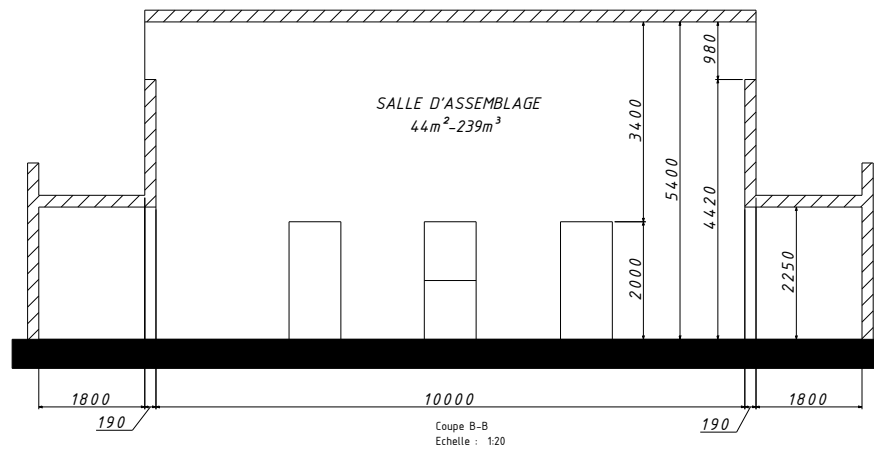
Requirements:

- Moderate cleanliness (ISO 7 is more than enough)
- Moderate control of humidity (< 60%)
- Moderate control of temperature (20° - 25°)
- Recycling of the air (1x per hour)
- Anti-static floor
- Possibility of a technical room next to the clean room (racks, cooling plant, dry air)
- Importance of having a large volume and extraction possibilities of the assembled tracker end-cap

Using the former room for petal assembly



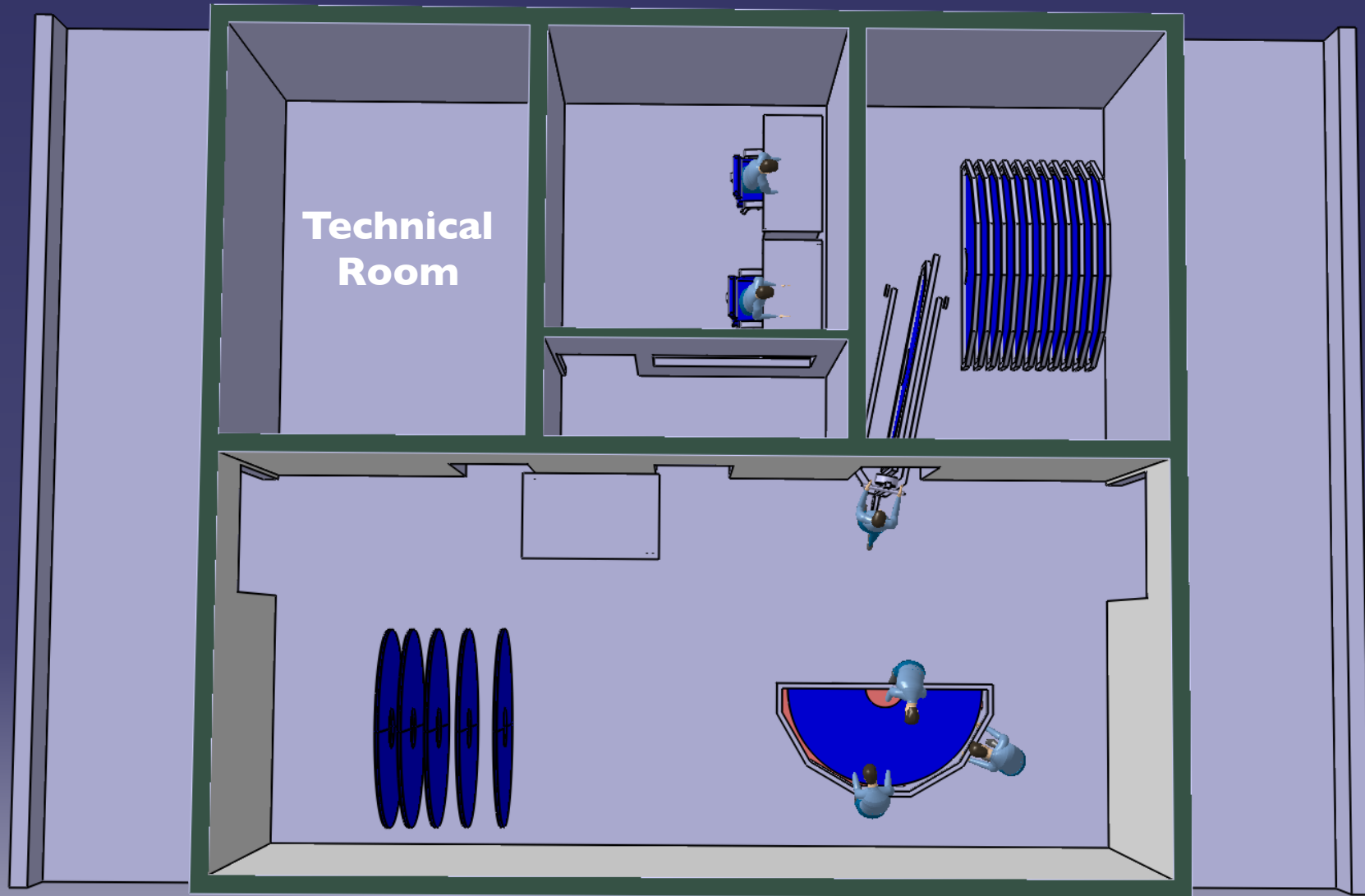
90 m²



New clean room construction

Modification of the old clean room for petal assembly

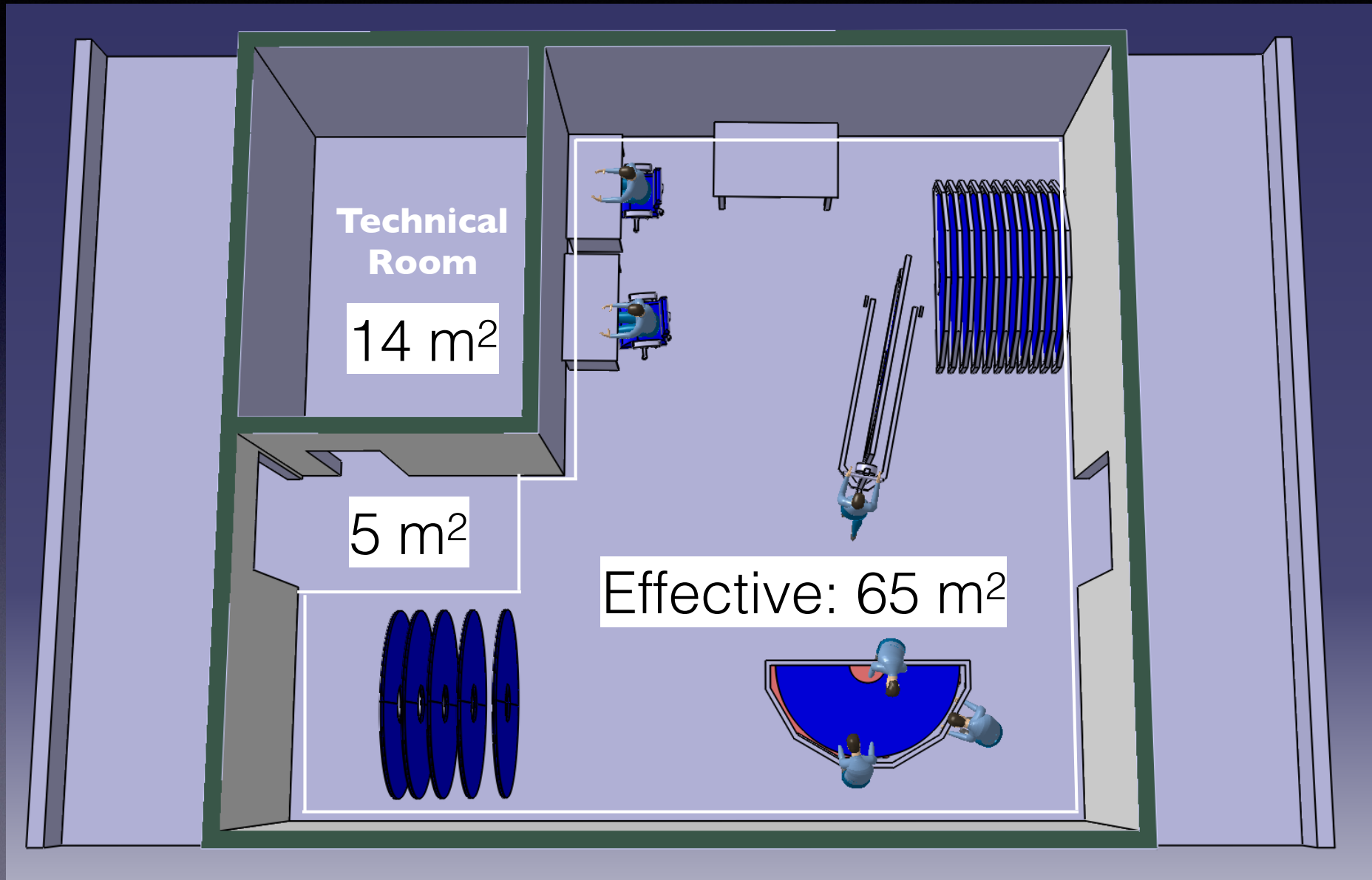
Present scheme



Clean room construction

Modification of the old clean room for petal assembly

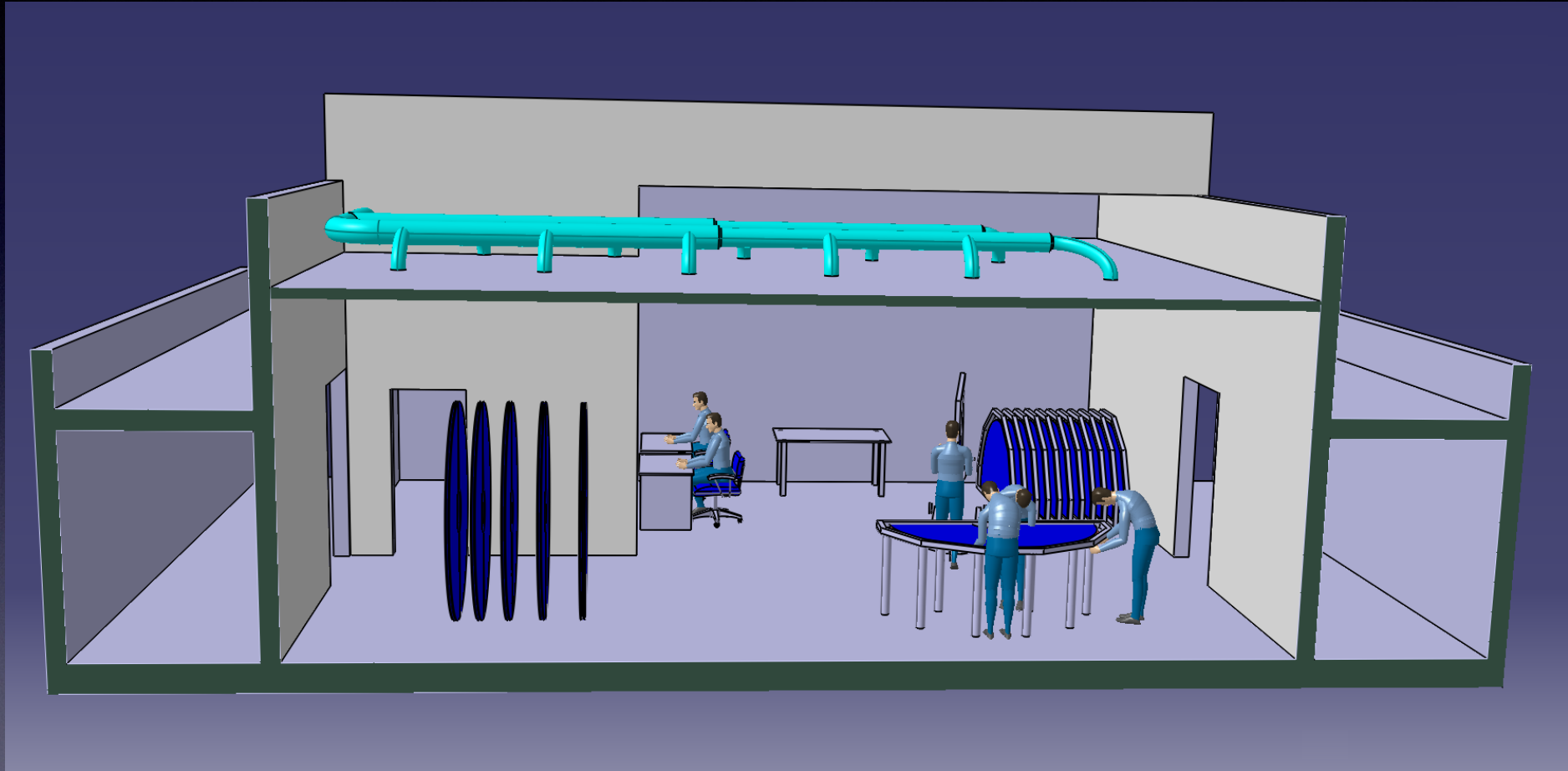
Foreseen scheme



Clean room construction

Modification of the old clean room for petal assembly

Foreseen scheme



The top of the room is only schematic.

There will be proper filter fan units to provide an ISO7-ISO6 quality

Status of the project

2017 Preparation of the clean room construction:

- First contacts with industries have been taken.

Cleanroom Systems Belgium
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Romex B.V. (CSI)
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Remmerden 5 3911 TZ Rhenen
The Netherlands

Status of the project

2017 Preparation of the clean room construction:

- First contacts with industries have been taken.
- Clean room experts of the UCL involved in the project (WINFAB technological platform)

https://sites.uclouvain.be/winfab/NEW_website/login.html

The WINFAB platform maintains a 2 x 500 m² ISO < 5 cleanroom infrastructure spread on two levels, with a large high-tech equipment fleet (more than 50 machines)...

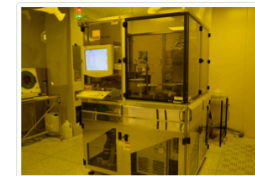
Micromachining



Lithography



Coating



Deposition



Etching



Furnaces



Back-end



Characterization



Miscellaneous



Status of the project

2017 Preparation of the clean room construction:

- First contacts with industries have been taken.
- Clean room experts of the UCL involved in the project (WINFAB technological platform)
https://sites.uclouvain.be/winfab/NEW_website/login.html
- The final specifications « cahier des charges » of the clean room is about to be finalized by the service « ACHAT » of the UCL
- Wall removal and preparation of the room by UCL (Funding from UCL) (by GTPL: the technical heritage management service of UCL)

2018 Preparation of the clean room construction:

- Final selection of the industry
- The construction and the commissioning of the clean room will be coordinate by the experts from the technological platform WINFAB of the UCL (with the technical resources of the UCL CMS group)
- **Delivery of the clean room by September 2018**