

Director's Report

XXXIX Meeting of the
Gran Sasso Scientific Committee

Director's recommendations

- To all users
 - Do not forget that the underground lab is surrounded by water sources providing drinking water to the Teramo area: the system is extremely delicate
 - A minor event in 2002 became a major disaster
 - Show that great scientists do care of health of their fellow citizens
 - Strictly follow SPP prescriptions

Director's recommendations - II

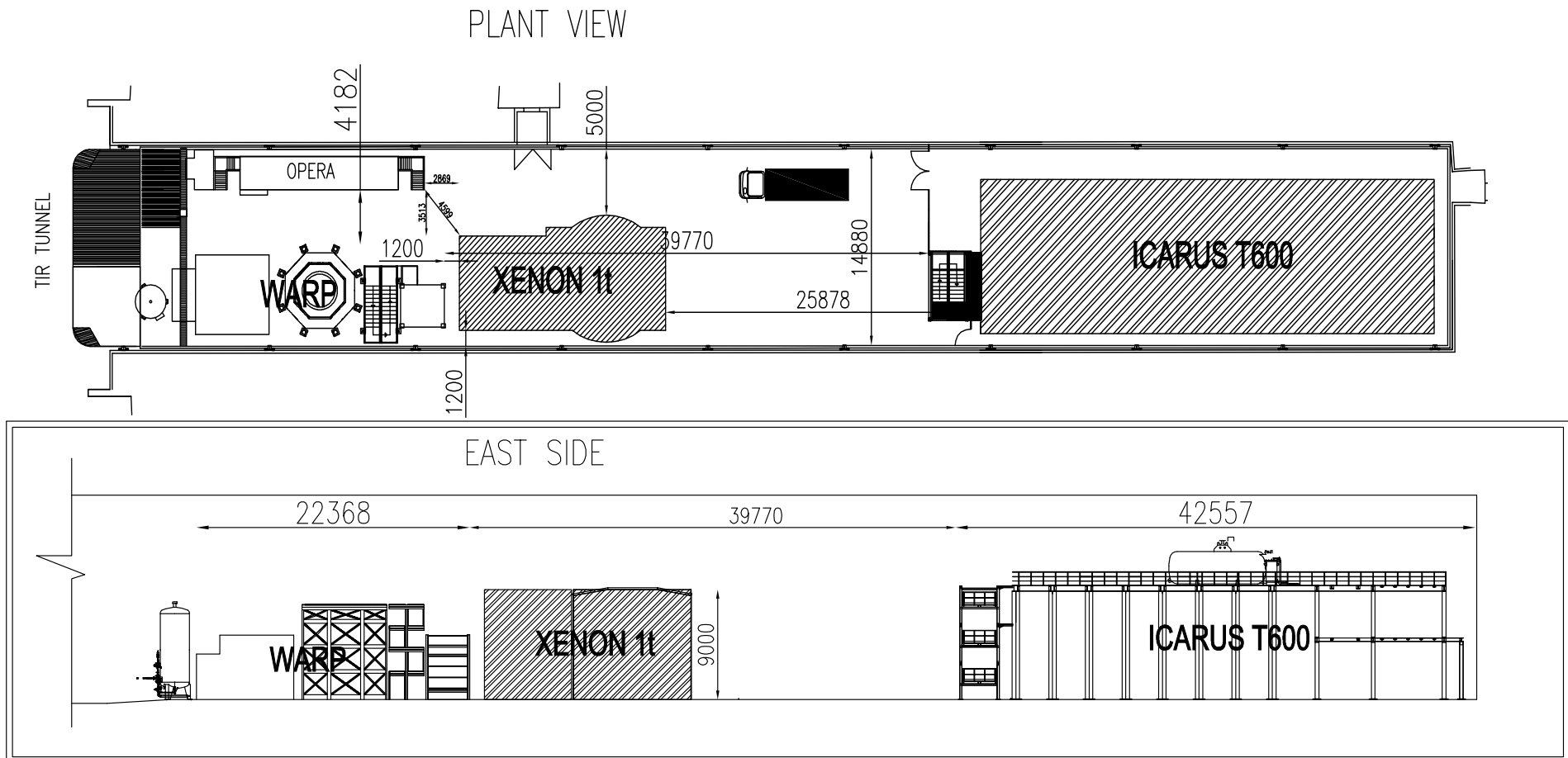
- To Collaborations
 - Space requests in both UG and surface lab should be presented for a finite amount time
 - MoU for decommissioning
 - Spontaneous initiative of CUORE is highly appreciated
 - Follow/ask/pretend prescriptions from technical services
 - Some consequences of the extended blackout of March 27th could have been avoided
 - A technical division office will soon open in the UG lab

CNGS Beam

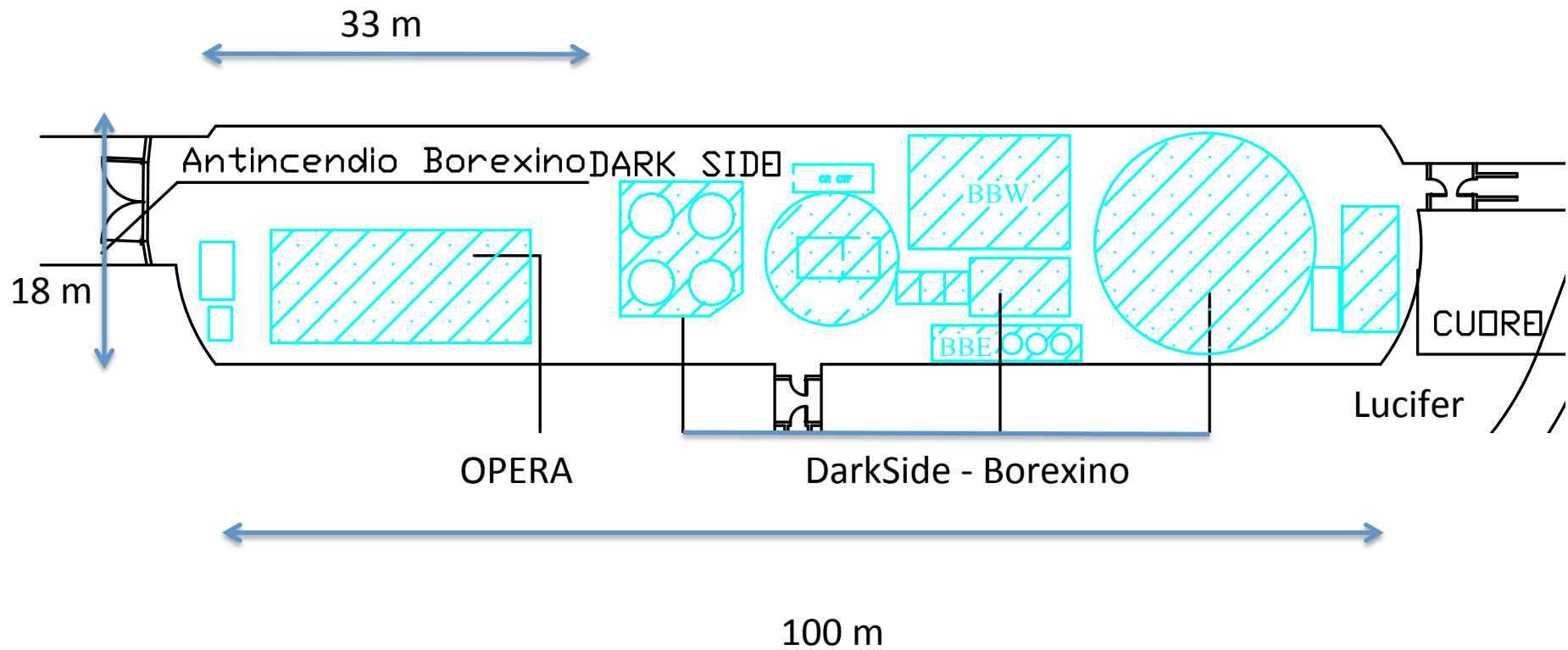
- Completed operation in 2012
- Icarus will start decommissioning in June 2013
- Opera is being discussed
- A substantial amount of space will be available

Hall b

- Warp decommissioning: to be completed by June 1st 2013
- Icarus decommissioning: June 2013 -> October 2014



Hall C – present status



Which future?

- 3rd generation $\beta\beta$ and DM
 - Technique?
 - Size?
 - Bkg reduction?
 - Is LNGS suited/suitable for all techniques & bkg-constraints?
 - Can/should LNGS be improved?
- How far should we push *wimp-like* DM searches?
- Can LNGS play a role in neutrino mass hierarchy or leptonic CP-violation?

A possibility: DM3 – Very Low Background Facility – Hall C

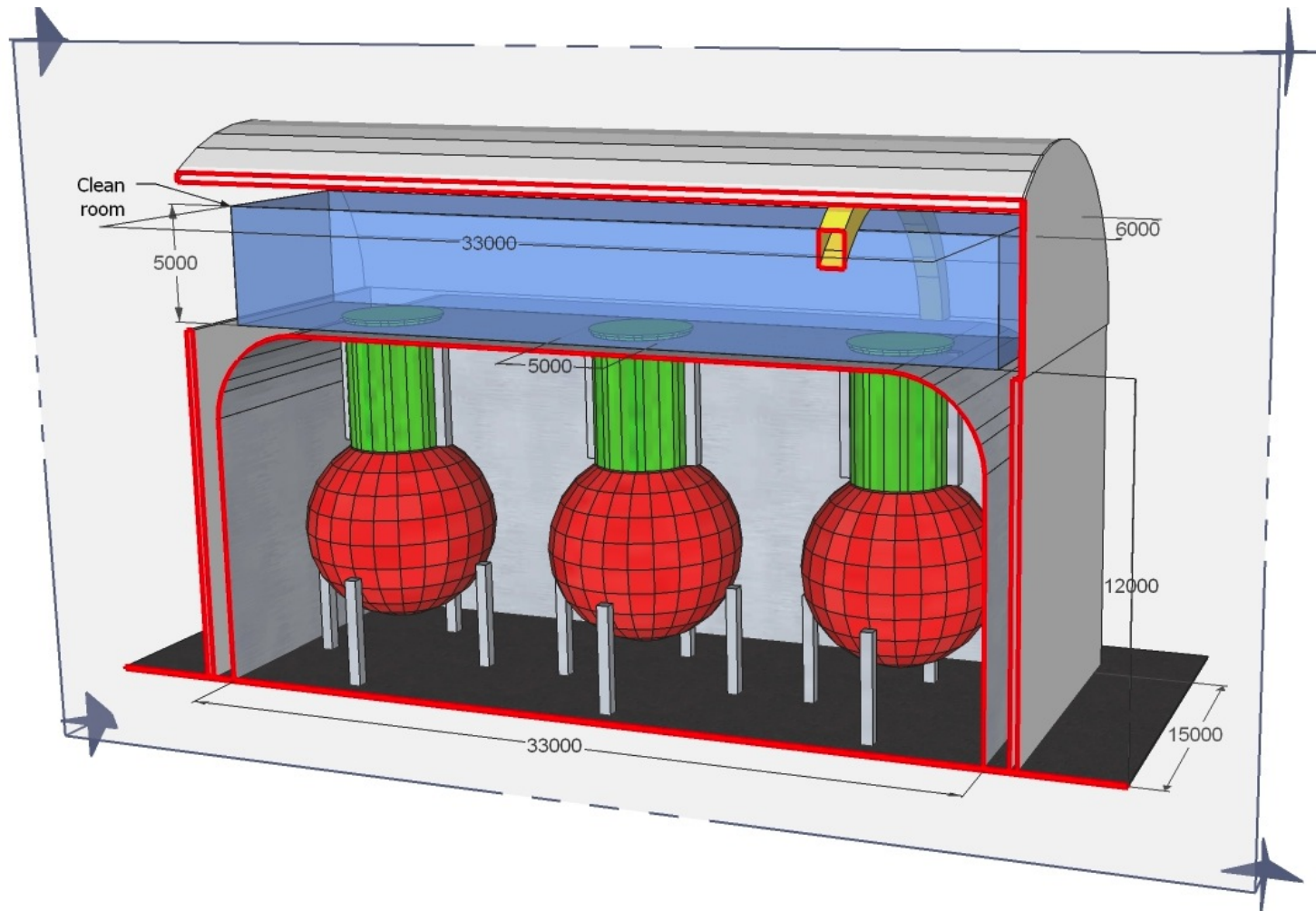


FIG. 1: 3D rendering of the water and scintillator tanks for DM3. Pale Gray: the walls of LNGS Hall C. Dark Gray: the DM3 water tank. Red: the DM3 scintillator tanks. Blue: the DM3 radon-suppressed clean rooms. Green: the chimneys allowing access from the clean room to each individual scintillator tank. Yellow: the LNGS Hall C arched crane.

Future

- Attract young scientists
 - GSSI starts September 2013: >10 graduate students / year in Physics + Mathematics & Computer science: a major asset for LNGS
 - 2 OPEN post doc positions, co-funded by GSSI, available by Sep 2013 ('senior' level: 29.5 k€/y net salary)
 - Staff positions: ???



The Gran Sasso Science Institute

It is an international PhD school and a center for advanced studies in physics, mathematics, computer science and social sciences.

Its purpose is to form high level human capital, integrating education and research in a lively interdisciplinary environment.

PRE-APPLICATION

SEMINARS AND EVENTS

Reconstruction of Abruzzo

March 21st, L'Aquila. The Minister for Territorial Cohesion Fabrizio Barca explains all the activities that have been carried out for the...

Urban Laboratories

April 26th. Public lecture of the Cities, health and well-being event series hosted by LSE Cities

ANNOUNCEMENTS

EPS, HORIZON 2020 will be an opportunity

The European Physical Society (EPS) has issued a statement on research and education opportunities for innovation in Horizon 2020.

NEWS



Abruzzo in 2030

March 1st, the OECD has presented its new report "The action of the policies in response to natural disasters: helping regions to develop resilience. The case of Abruzzo after the..."



Official presentation of the GSSI Strategic Plan

On August 1st, 2012 at the INFN Gran Sasso National Laboratory in Assergi (L'Aquila), the GSSI strategic plan was officially presented by the Minister of University and Research,...

Future - II

- ApPEC Workshop in Spring 2014
- Collaborate and coordinate activities with other (European) underground laboratories
 - ERIC would require initial investment of resources but would constitute a long-term asset
- Facilities upgrade
 - Consider and raise funds for science-driven upgrades
- Open to different fields of Science and Technology