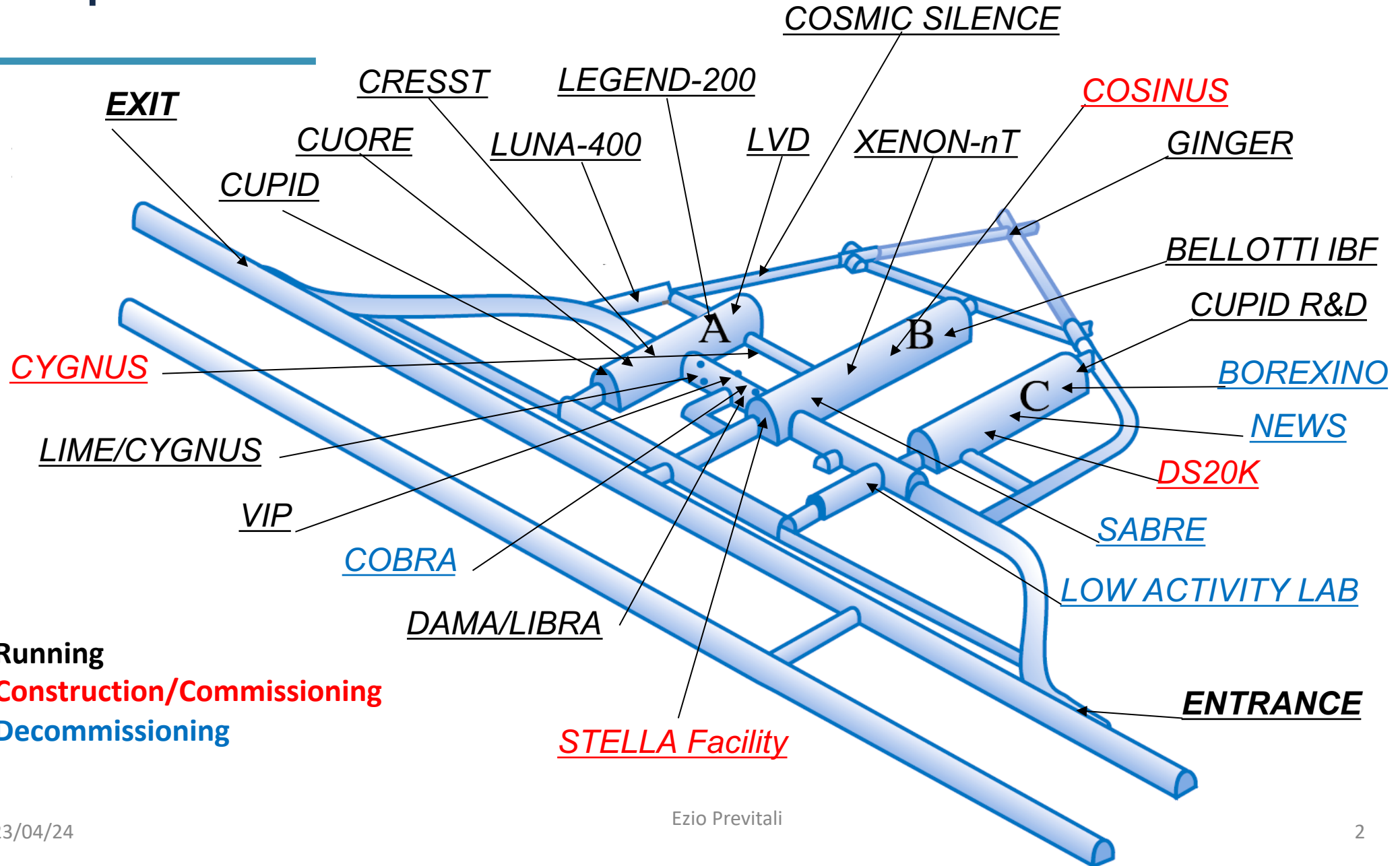


# Gran Sasso National Laboratory

**Ezio Previtali - LNGS**

# LNGS Experiments



- Running
- Construction/Commissioning
- Decommissioning

# Internationality of the Gran Sasso National Laboratory

Total involved scientists: **N. 1334**

Italian scientists: **N. 482**

Foreign scientists: **N. 852**

Scientific guests: **N. 505**

Italian guests: **N. 295**

Foreign guest: **N. 210**

(2023 data)



# LNGS people

**127** staff personnel

Direct connection with LNGS for associated members:



UNIVERSITÀ DEGLI STUDI DELL'AQUILA



**Technologists 42**

**Researchers 14**

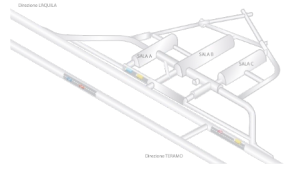
**Technicians 43**

**Administrative staff 28**

LNGS involved people: **282**  
(**127** staff + **155** associated)

# LNGS Future - PNRR IR

---



Refurbishment and upgrading LNGS: Activities are starting in these weeks.

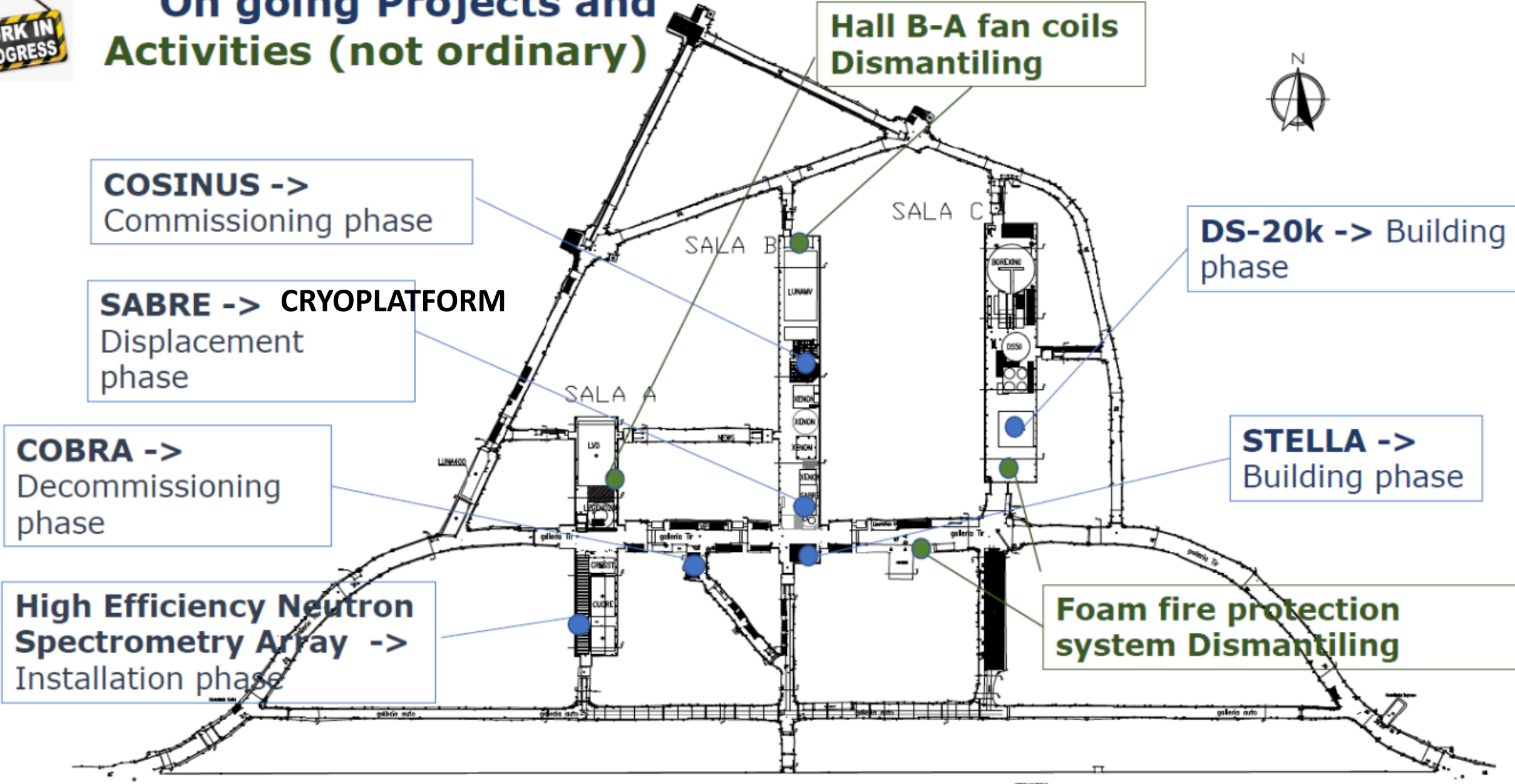
- Electrical distribution plant
- Safety Infrastructures
- Underground Ventilation optimization
- New cryogenic plants for LN and LHe
- *New advanced data center*
- New optical links for data management
- Reconfiguration of CUORE cryostat
- Refurbishments of Lab 2 *external* labs
- New seismic infrastructures for Hall di Montaggio

All the activities will need more than a year to be completed

The project is designed to prepare LNGS for next generation of DBD and DM experiments



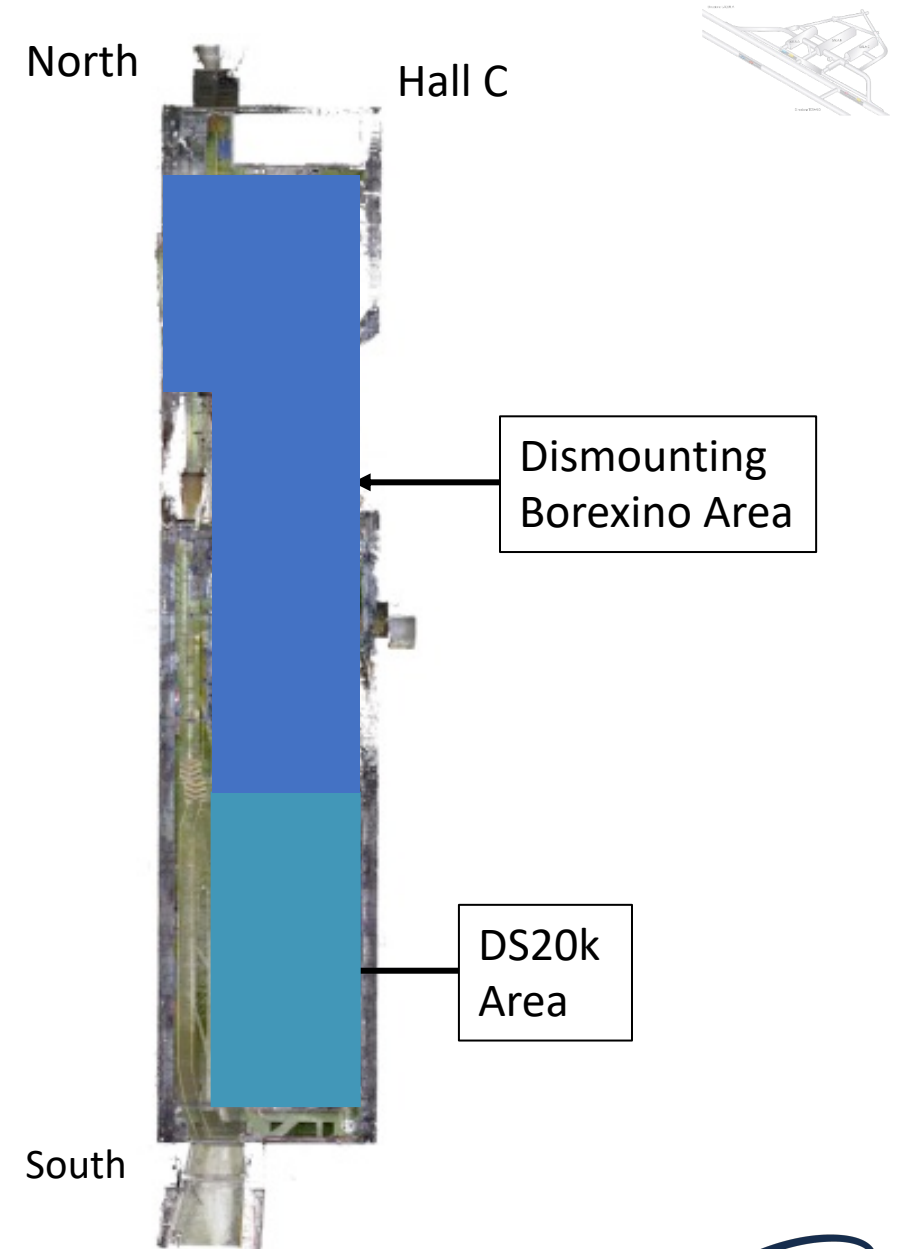
# On going Projects and Activities (not ordinary)



# Reconfiguration of Hall C

The infrastructures in the will be dismantled and removed  
Only the Big Building West will remain for future experiments  
All experiments and R&D will be removed from this area  
Dismounting activities will start before the end of the year

There will be possible interference with other activities in Hall C  
It is expected that many trucks will be needed to remove all the parts  
Transports could create some interferences in the truck tunnel



# STELLA in Hall B

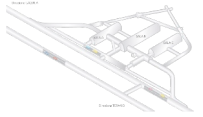
## STELLA: Sub TErranean Low Level Assay

- The new facility is under construction in the south part of the Hall B
- Detectors will be moved from the actual Lab to STELLA soon
- The commissioning phase of STELLA could take some time
- Measurements with low background HPGe could be delayed





# CRYO PLATFORM in Hall B



The new **Cryo-Platform** facility will be realized south Hall B

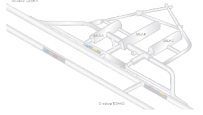
- Two dilution fridges will be installed
- A new barrack will be realized
- Construction will start before summer

In order to install the new Cryo-Platform:

- SABRE will be removed and installed in the A-B bypass
- Some interferences to access Hall B could be possible



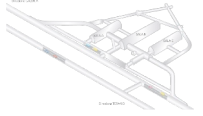
# Coordination of the activities



As was discussed in the coordination meeting:

- LNGS would like to **minimize any possible interferences with the experiments**
- All the users will be informed on the evolution of various activities
- **Access** to the underground lab must be organized **using shuttles** each time it will be possible
- LNGS will improve the frequencies of shuttles to support experimental activities
- It is important to have **timely information of possible intervention** on experimental apparatus
- **Non ordinary activities** that will be needed for each experiments **must be coordinated with LNGS**
- .....
- .....
- To proceed with a suitable approaches, **experiment are encouraged to contact the coordination service**

The plan is to complete all the previously mentioned activities **before the end of 2025**

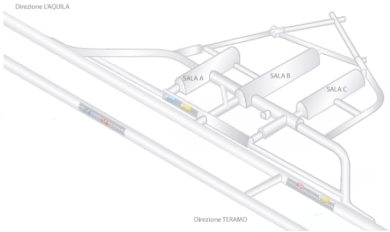
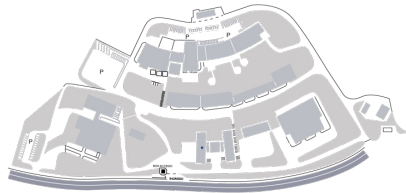


## Actual Composition of LNGS SC

- **Nigel S. LOCKYER** (chairman)
- Dave Newbold
- Giacomo CUTTONE (IBF PAC Chair)
- Michelle DOLINSKI
- Monica Sisti
- *Laura Covi*
- **Juan Josè GOMEZ CADENAS**
- Werner HOFMANN
- Silvia PASCOLI
- Fairouz HAMMACHE (IBF PAC)
- Jordi JOSÉ (IBF PAC)

Laura Covi will become a new member of the SC soon  
Thank you and welcome on board

**This is the last SC meeting for Juan Josè GOMEZ CADENAS**  
I would like to thank him for the fruitful support and discussion and for his important help



INFN  
**Thank You**