

# ULs Directors' meeting

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August 31st, 2023

@ TAUP2023

# Main purpose of this meeting

Stimulate a discussion and reflection on how to reinforce the cooperation between underground laboratories, ensuring exploitation of complementarity to face common challenges and long-term physics cases.

Our goal is to establish a Working Group to steering this basic idea.

# Proposed input to APPEC Roadmap from EU ULs

## EXECUTIVE SUMMARY

A closer coordination between Underground Laboratories (ULs) of their activities in the domains covered by APPEC has been under discussion in the last decade. The increasing size and cost of current and near future detectors require the access to better and numerous services, which are not currently hosted by a single UL but distributed in various ULs.

The strategic plan described here, needed for the ULs to most effectively support future EU and international science communities, focuses on an efficient and competitive access to the various ULs with the creation of a new instrument, a **Virtual Coordination Office (VCO)**, which would serve to develop the collaboration program between ULs through the following steps:

- 1. establish a robust cooperation in key services;
- 2. coordinate ULs strategy for future investments;
- 3. establish a trans-national access policy;
- 4. coordinate existing facilities to support research.

ULs are seeking financial support to build and operate the network under the VCO.

# ULs effort in cooperation

- EU ULs
  - In Europe a strong cooperation between ULs and Institutions working on Astroparticle physics in ULs has been active since the early 2000s
  - In the last two years the effort in this direction by EU ULs has intensified
  - More details on what has been done by Carlos and Ezio at this meeting
- Global Facility For Underground Science
  - Initiative from SNOLAB and LNGS (2017)
  - Build a reference global infrastructure for underground science
    - serve the scientific community of the world
    - accommodate in an efficient manner the needs of new experiments and the planning of novel upgrades and needs
    - enable worldwide science and spread innovation
- 1st Global Laboratories Forum @ Frascati (Italy) 10-11 July 2023

# ULs @ TAUP 2023

- Three-day dedicated parallel session (~10h)
- Good attendance
- Review of almost all ULs
  - New outfitting for Yemilab and CJPL
  - Solid expansion program for SURF
  - New proposal: PAUL
- Review of multidisciplinary activities
- Institute for Underground Science at SURF
  - Establish a world-leading center for underground science
  - Serve as «hub» for information on global underground science

# Acknowledgements

To the organizers of TAUP for supporting this initiative

To all participants