

WP 3

WP3 - Data and Digital Infrastructures

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Activity 3.1: Audio-visual equipment in Fermi Auditorium at LNGS

- The Fermi Auditorium, designed and built in the early 90s, is not still equipped with modern audio-visual systems and high speed network that can guarantee both an optimal on-site experience and high quality online transmission of events that reach thousands of participants.
- The proposed activity deals with the planning and realization of new technological plants and the acquisition and installation of state-of-the-art equipment to make Fermi Auditorium a modern web and video conferencing room.
- The main activity concern:
 - installation of equipment for videoconferencing and streaming communications, connected to a high-speed network
 - creation of a 'control room' where all the management system for audio, video, videoconferencing, streaming communication are installed
 - installation of LED display screen, 8x4 m², to ensure that all viewers can have an optimal view and enjoy the video content in the best way.
 - installation of high-resolution video cameras
 - conference table and a podium with multimedia stations

Activity 3.1: Audio-visual equipment in Fermi Auditorium at LNGS



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Activity 3.2: Pilot project for FAIR data at LNGS

- The aim of this WP is to develop a pilot project for the implementation of a platform that is compliant with the FAIR principles for data management and enables the preservation and reuse of LNGS research data and infrastructural information.
- The pilot platform for FAIR data management, based on open source software (InvenioRDM developed by CERN), is installed on a system funded by this WP and integrated in the LNGS computing infrastructure.
- The pilot project will start with two use cases:
 - The radiopurity data acquired by the "Special techniques" LNGS service by means of gamma-ray spectroscopy, alpha spectroscopy, and alpha/beta spectroscopy measurement of samples of scientific and technological interest.
 - Data collected by the sensor network that will monitor the underground infrastructure and its environmental variables.

Activity 3.2: Pilot project for FAIR data at LNGS

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