



Report from the EURO-LABS Governing Board

Edda Gschwendtner, CERN

3rd Annual Meeting of EURO-LABS, 28 – 30 October 2024, CERN

Agenda

Governing Board Meeting

Tuesday, October 29th, 2024
h. 16:00-18:00

Venue: 6/2-024 - BE Auditorium Meyrin (CERN)

Agenda

Welcome by Chairperson Edda Gschwendtner (5 min.)
Adoption of the Agenda
Renewal/election Chairperson (10 min)
An Overview/highlights on the activities of the 2nd year: Scientific Coordinator Navin Alahari (20+5min)
Steps for preparation of Report Period 2 (Sept2023-Feb 2025): Maria Colonna (10+5 min)
Update on financial matters: (Financial Tables: Marco Traini – Sara Silvi (30+10 min) <ul style="list-style-type: none">- Expenses of the partners- Transfer of budget- Procedure for future redistribution of budget
Next Annual Meeting: JSI, Liubljana, October 2025: Scientific Coordinator (5 min)
AoB

Report from the Scientific Coordinator, Navin



Focus on Scientific and Technical results supported by EURO-LABS

Use of the EURO-LABS facilities (some with service improvements) for results and ideas in diverse basic physics, technical and applied science

Joachim Josef Mnich
CERN Director of Research and Computing

Topic	Speaker	Time
Nuclear Physics Roadmap	Marek Lewitowicz	
222/R-001, CERN		10:00 - 10:30
ECFA report on HEP activities en route to the ESPP update	Paris Sphicas	
222/R-001, CERN		11:00 - 11:30
Challenges and R&D opportunities for the Future electron-positron Circular Collider	Jacqueline Keintzel	
222/R-001, CERN		11:30 - 12:00
Innovation Fostering in Accelerator Science and Technology (IFAST) - Project Report	Maurizio Vretenar	
222/R-001, CERN		12:00 - 12:30
Advancement and Innovation for Detectors at Accelerators (AID@Innova) - Project Report	Paolo Giacomelli	
6/2-024 - BE Auditorium Meyrin, CERN		09:00 - 09:20

RB commissioning and probing nucleon-nucleon correlations in atomic nuclei via (p,μ) QFS reaction	Matt Whitehead	14:00 - 14:10
Determination of single-neutron energies and spectroscopic factors outside ^{132}Sn	Patrick MacGregor	14:10 - 14:20
Test of Low Gain Avalanche Diodes at the AC-S44 cyclotron	Paavo Oksa	14:20 - 14:35
Uniform beam delivery and real time dosimetry for FLASH radiotherapy applications	Roberto Corsini	14:35 - 14:50
Search for E1 strength below the Giant Dipole Resonance from zero to finite temperature at IFN-HI and CCB facilities	Olivier Weisend	
Transnational Access experiments at the KIT electron synchrotron test facility KARA	Dr Robert Ruprecht	15:00 - 15:15
Tea break		15:15 - 15:45
High precision $^{208}\text{Pb}(p,\alpha)$ cross section measurement at n_TOF EAR2	Javier Saldaña Correa	15:45 - 15:55
New fusion studies at ALTO with mu-Ball@PARIS	Claudio HVÉR	15:55 - 16:05
Irradiation of detectors to extreme neutron fluences up to $10^{18} \text{ n}_{\text{cm}}^{-2}$ in the TRIGA reactor	Igor Mandić	16:05 - 16:20
Lifetime measurements around ^{48}Ca	Gioacchino Andorlini	16:20
Lifetime measurements in the ^{16}O nucleus ^{64}Ge	Paolo Giacomelli	16:30 - 16:40
Cooling system and graphical user interface for EMC test station	Paolo Andrich	16:40 - 16:55
Advancement and Innovation for Detectors at Accelerators (AID@Innova) - Project Report	Paolo Giacomelli	09:20
A direct measurement of a relativistic pair-plasma beam instability at The HiRadMat Facility (CERN)	Dr Jack	09:20 - 09:30
Geoff Applications and Developments in 2024	Nico Medyna	09:35 - 09:50
Application of Machine Learning for beam profile monitoring	Jens-Uwe Sommer	09:50 - 10:05
Studies of proton-rich nuclei with EAGLE-NEDA-DIAMANT	Katarzyna Hadyńska-Kik	10:05 - 10:15

WP leaders will present their forward looking thoughts on Wednesday

A very lively and interactive Poster session (a great success 43 posters)

Visit to many CERN facilities

Oral presentation prepared for a broad audience hence diverse questions



Wide Impact and complementary

Complementary work

R and D for FLASH Therapy

WP2 GSI-FAIR Synchrotron

WP3 CLEAR CERN LINAC

WP4 IFJ PAN Cyclotron

Electro Magnetic Compatibility centre greatly increased throughput (service improvements) the result of collaboration in two projects **EURO-LABS** and **AIDAINNOVA**

Tests of “the first 2 meters FCC” components:

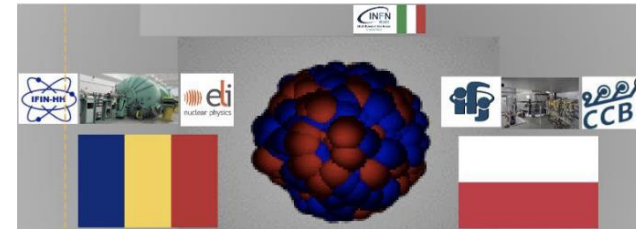
FCC-hh beam screen & **FCC-ee** vacuum chamber prototypes tested in CERN’s BESTEX beam-line at KARA

Many Points mentioned in the NuPECC Long range plan
Are already implemented in EURO-LABS



This project has received funding from the European Union’s Horizon Europe Research and Innovation programme under Grant Agreement No 101057511.

Exploiting unique facility in three different countries For one physics goal



HL-LHC, fluences up to 10^{16} neq/cm² irradiation campaign at TRIGA (service improvements)

DRD3 European Strategy for Particle Physics.

TRIGA

FCChh – up to 10^{18} neq/cm

Report from the Scientific Coordinator, Navin

Review of Period 1

IMPORVE OUTREACH
And visibility of the project

Prof. Edward Mitchell
Structural biology with synchrotron radiation
Head Business Development ESS
Read the report in greatest detail

Subject: Horizon Europe (HORIZON)
Project: 101057511 — EURO-LABS
Reporting period: RP 1
Interim payment (Data Sheet 4.2, Article 22.3.3)

TOUT S'EST BIEN PASSÉ

Dear Madam/Sir,

In connection with your request for interim payment, I would like to inform you that we will soon make an interim payment of EUR 2 835 731.98.



EURO-LABS
EUROPEAN LABORATORIES FOR ACCELERATOR BASED SCIENCES

EURO-LABS Newsletter
ISSUE No.1 | JANUARY 2024

EDITORIAL
M.J.G. BERGE, CERN
B. PEZZOTTA, INFN

NEWS ON COMING HANDS-ON SCHOOLS

EURO-LABS ANNUAL MEETING
Maria Colonna, INFN
The 22nd Annual Meeting of EURO-LABS (SAM) was held in Krakow from the 9th to 11th October 2023. Hosted by IFJ PAN.

BASIC TRAINING SCHOOL #1232
Livia Trache, INFN
The first basic training school held at INFN-TH in February 2023.

RADIATIVE DECAY OF THE SPIN CLOCK ISOMER
Sevil Freeman, CERN

AGATA
J.J. Kowalewski, INFN

D-MAPS in EURO-LABS
Marino Abbadi, INFN

Second Annual Meeting of EURO-LABS at Krakow, Poland, from October 9th - 11th, 2023

Participants of #1232 (INFN-TH, Bucharest-Măgurele, Romania) in the soft mine used for low-background work



EURO-LABS Newsletter
ISSUE No.2 | JULY 2024

EDITORIAL
M.J.G. BERGE, CERN
B. PEZZOTTA, INFN

HIGHLIGHTS
- ATSOA (Advanced Training School on Operation of Accelerators): CERN, June 2024
UPCOMING EVENTS
- Advanced Training: Open Science and Data Management school in November 2024 in Germany
- TAM MEETING: CERN, October 28th - 30th 2024

CONTENT
- Theo4exp: A theory service for EURO-LABS community
- Restarting the LNL cyclotron: The beating heart of the SPES project comes to life again
- A new proton CT scanner based on D3D and scintillator
- New machine learning toolkit enhances acceleration operation at GSI
- Astrophysical jet recreation at the HiRadMat facility
- Low Gain Avalanche Detectors in EURO-LABS

The Students of the ATSOA school at CERN June 2-7, 2024



Contour plot of the energy of ^{1022}Th as function of quadrupole and octupole deformation parameters.

Next one Dec 15th

Do you have any comments/suggestion on this
Maria Colonna is the new editor

Interviews with young users in progress
Actions towards presence of social media

Basic training school of 2023 BTS23
IFIN-HH, Bucharest - Măgurele



<https://indico.nipne.ro/event/246/timetable/#20230913>

INTRANS 2024 Workshop
22-25 January 2024



Advanced Training School on Operation of Accelerators
Courses - Hands-on - Simulation
3 Facilities
CLEAR, ISOLDE, PSB
June 3rd - 7th, 2024



work with your hands

BTS24

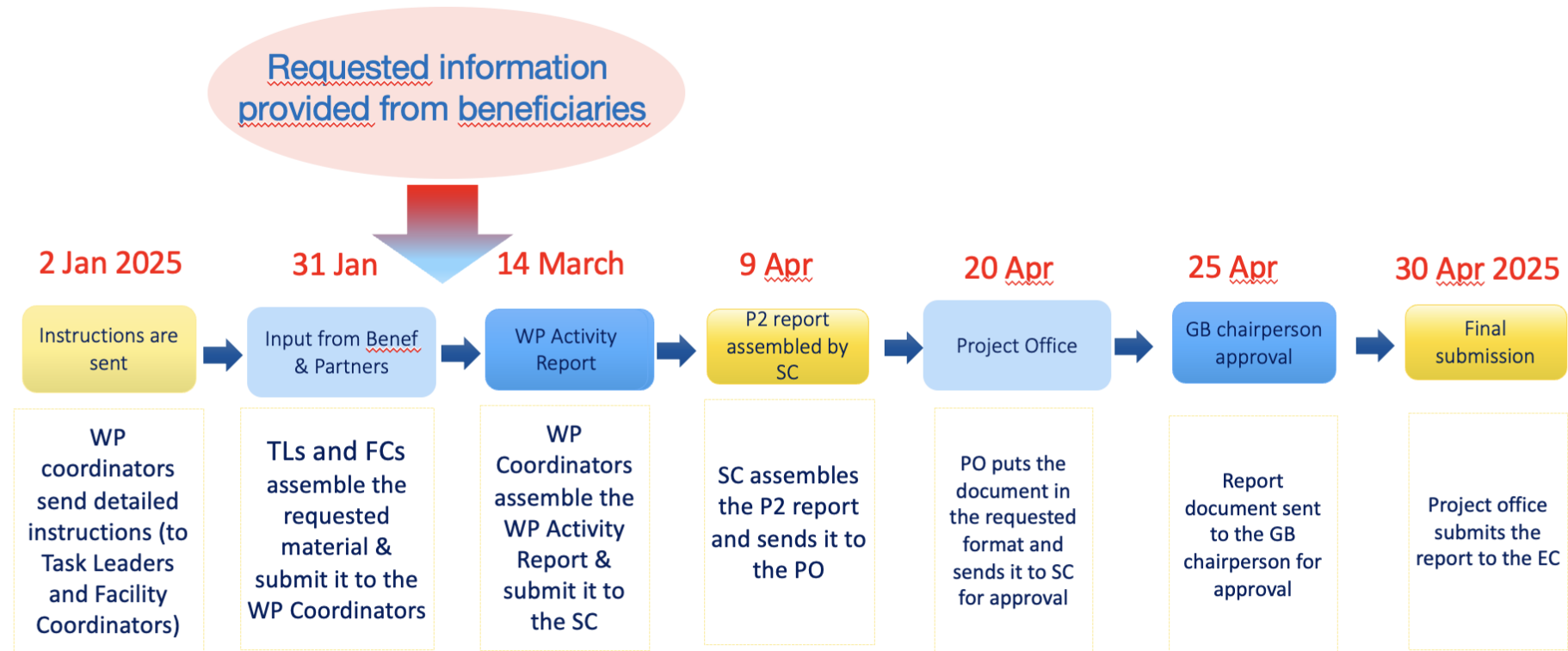
The Basic Training School on Accelerators 2024, HIL and INCT, June 18-27 in Warsaw
U200-P cyclotron, INCT electron accelerators
<https://www.sljcw.edu.pl/en/bts24>

Advanced School GSI/FAIR Nov 2024
Advanced school CERN in May 2025
Basic School in Seville in June 2025
INTRANS Florence Jan 25

Steps of Preparation of Report Period 2, Maria



Project reporting workflow (TR, narrative)

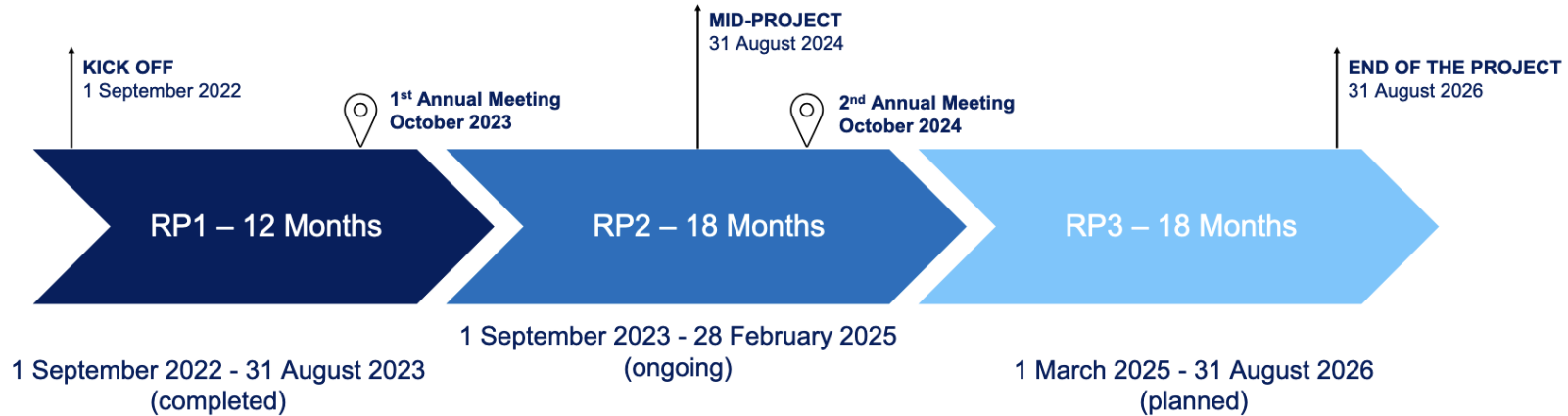


The deadlines are mandatory!!

Update on Financial Matters, Sara



Where we are



Budget

Total Budget: € 14.174.110,00

Requested EU contribution at RP1: € 2.835.731,98 (19,29%)

Total expenses at mid-project: € 4.844.747,04 (32,95%)



Current Status



All expenses reported at RP1 have been accepted and refunded by EC.

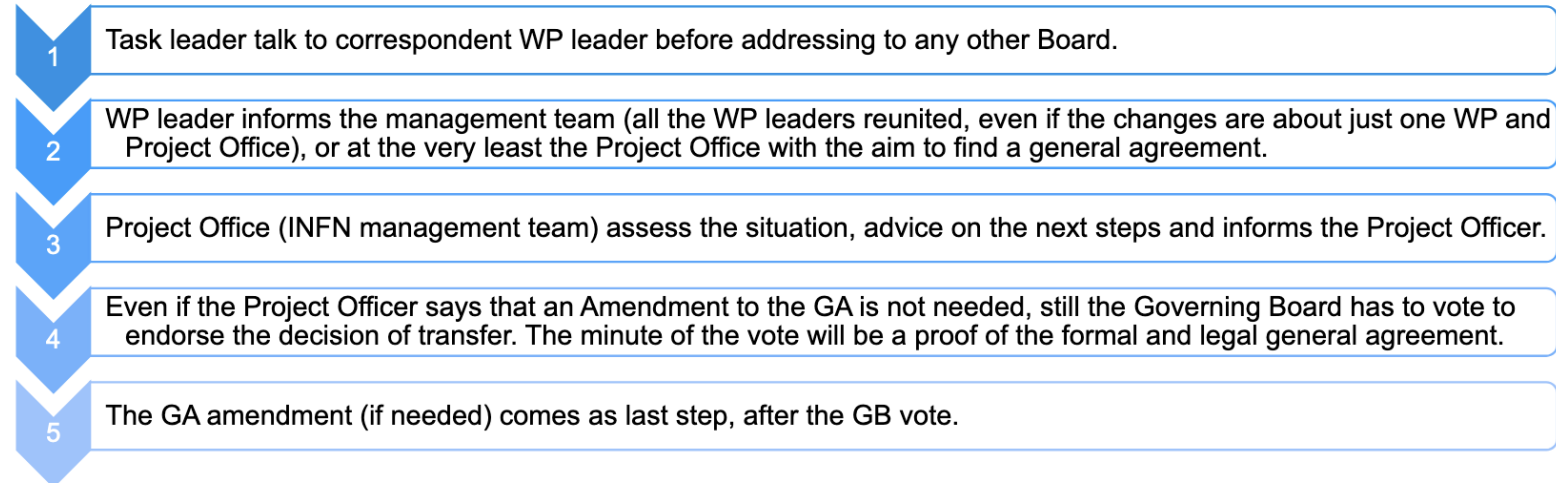
We have reached the halfway point of the project; we are currently doing a mid-project financial analysis through the data entered by the beneficiaries on the EMDESK platform with the aim of efficiently redistributing a reserve budget of 220k €.

We have also submitted a GA amendment to get the requested budget changes before the RP2 closure.

Update on Financial Matters, Sara

Procedure for transfer between different Beneficiaries

All transfers that involve two or more Beneficiaries **always** require the Governing Board vote and follow the same procedure regardless the level of the required change/s (inter task/WP/project):



The decision to start a GA amendment it is always in the hands of the PO but for sure is required in these three cases:

- Change of a deliverable due date
- Change of the leader Beneficiary for a Deliverable or Milestone
- Budget changes involving a new cost category initially not foreseen

Summary

The project as a whole is now cruising at the right altitude

ALL deliverable were submitted on time.

Training Schools were very successful and many more in pipeline

TAM showcases the large and impressive results of EURO-LABS in only 24 months

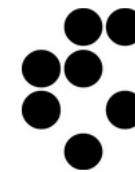
The TAM style will continue for the next Annual meeting

Contributions to Strategy and LRP of Europe

Project is now half-way through!

Very important period ahead of us: → Period 2 Report!

Fourth Annual Meeting , FAM, end September 2025:



Jožef Stefan Institute
Ljubljana, Slovenia

***Many Thanks
for the Inspiring Discussions & Presentations
and an Excellently Organized Annual Meeting!***

