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EUROpean Laboratories for Accelerator Based Science HORIZON-INFRA-2021-SERV-01-07 Project EURO-LABS

DELIVERABLE REPORT

ALL RESEARCH INFRASTRUCTURES VIDEOS COMPLETED

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Abstract:

This document reports on the production of short videos to present and publicize the Research Infrastructures involved in the EURO-LABS project, in order to attract a wider range of potential users. Communication and dissemination of exchange opportunities is strategic to increase the usage of the facilities by a larger number of researchers, with emphasis on young researchers.



EURO-LABS Consortium, 2024

For more information on EURO-LABS, its partners and contributors please see https://web.infn.it/EURO-LABS/

The EUROpean Laboratories for Accelerator Based Science (EURO-LABS) project has received funding from the Horizon Europe programme dedicated to Research Infrastructure (RI) services advancing frontier knowledge under Grant Agreement no. 101057511. EURO-LABS began in September 2022 and will run for 4 years.

Delivery Slip

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Date: 29/02/2024

TABLE OF CONTENTS

1.	INT	TRODUCTION	4
2.	OB	BJECTIVE AND TARGET	5
3.	тн	IE VIDEOS: WORKFLOW AND STATUS	5
3	.1.	THE WORKING FLOW	
		THE VIDEOS	
3	.3.	STATUS	



Executive summary

One of the activities planned within WP5 is the production of short videos of the Research Infrastructures providing transnational access within the EURO-LABS project. This activity is important in order to publicize the activities within the facilities and the Transnational and Virtual Access opportunities offered by the project.

These videos target in particular young researchers and/or new users interested in accessing these installations for the first time and this information will help them to select the optimal infrastructure where to carry out their experiments or tests. Visits by the INFN Multimedia group were made for filming at the different facilities. To date the INFN Multimedia Group has produced 34 videos, combining already-existing footage (suitably updated and made compatible) from installations with new original videos. The filming of 5 RIs was not possible so far for various reasons like the facilities being upgraded and 3 facilities which could not be completed (such a possibility was mentioned in MS34). However suitable action has been planned for the latter videos to be released within 6 months. The videos have been published on the EURO-LABS website and also at the INFN Multimedia official repository and they will also be used by the other EURO-LABS partners and included on their websites. The videos are stored in the INFN repository Mediawall

(<u>https://mediawall.infn.it/view/?catName=euro-labs&lang=en_US</u>) and they are available on the EURO-LABS website: <u>https://web.infn.it/EURO-LABS/</u> (upper menu).

1. INTRODUCTION

The core activity of the EURO-LABS project is to provide and support Transnational and Virtual Access to a network of Research Infrastructures (RIs) in the fields of Nuclear Physics and of accelerator and detector technology for High Energy Physics. These research communities work with a large number of varied RIs. Communication and dissemination of opportunities are therefore strategic to increase the usage of the facilities by a larger number of researchers, with an emphasis on young researchers and new users. The project's dissemination in this direction includes among others producing short video presentations of the RIs involved in the project. A few of existing material for a facility has been reused, updating and adapting it to the characteristics of EURO-LABS.



2. OBJECTIVE AND TARGET

The videos give an overview of the Research Infrastructures offering Transnational Access in the EURO-LABS project framework. They are also used in dissemination/communication activities organized by all EURO-LABS partners and included on their websites.

3. THE VIDEOS: WORKFLOW AND STATUS

3.1. THE WORKING FLOW

The videos have been produced by the INFN Bologna Multimedia Group, in cooperation with partners' media teams in certain cases. Active collaboration and intense dialogue with the Facility Coordinators were necessary throughout the process. Various visits for filming the videos were made by the INFN Multimedia Group in four countries (France, Germany, Poland and Sweden) so far.

Thirteen of the videos have been filmed by the INFN Multimedia Group while the other videos relied on existing materials that have been reused when possible, ensuring consistency and uniformity of style. Thus, certain facilities either produced new videos or reedited existing material. Common introduction and other final parts were inserted to maintain the uniformity. Also the presentation of Facility coordinators (FC) have been added to these existing videos. The audio descriptions in all the videos using a synthetic voice were produced by using texts provided by the FC.

3.2. THE VIDEOS

A detailed script is used to create the videos includes:

- An introductory part common to all EURO-LABS videos, presenting the project, and with maps geographically locating the facility.
- A detailed description of the facility:
 - What are available instruments/accelerators and their focus,
 - \circ What the facility can provide to users: what users can find / do at the facility,
 - Which technical support the users will receive,
 - What are other tools the facility offers e.g. software...etc.
- The video final part, common to all EURO-LABS videos with: links to the site, contacts and credits.

The videos are stored in the INFN repository Mediawall

(https://mediawall.infn.it/view/?catName=euro-labs&lang=en_US) and are available on the EURO-LABS website: https://web.infn.it/EURO-LABS/ (upper menu).

A few typical illustrations are shown below.



Date: 29/02/2024

EUROLABS About ~ Activities ~ Transnational and Virtual Access ~ Videos Results ~ News ~ Highlights

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Transnational and Virtual Access to Research Infrastructures

The Euro-Labs project provides support for transnational access to a network of 45 Research Infrastructures (including 3 RIs with Virtual Access) from 18 countries.

Interested research groups are encouraged to identify the facility most appropriate for their needs and to check their eligibility before applying.

EURO-LABS Offers

- Reimbursement of travel and accomodation costs for using the facilities at the Research Infrastructures
- Technical Support and expertise at the laboratories hosting the RI

News: Virtual Access facility Theo4Exp is now open to users!

WP2 – Transnational access to Research Infrastructures for Nuclear Physics

The project supports Transnational Access (TA) to various Research Infrastructures providing stable ions, radioactive ions and neutrons at various energies, combined with state-of-the-art equipment to explore nuclei under extreme conditions. Virtual Access (VA) to a theoretical repository will also be provided, to access model calculations, both for planning and interpretation of experiments conducted at the TA facilities.

The RIs included in WP2 provide access to an extremely broad range of installations and services, focused on delivering excellence in fields including, but not limited to: Fundamental Nuclear Science, Nuclear Astrophysics, Neutron Physics, Physics beyond the Standard Model, Interdisciplinary Research, Applications of Nuclear Science, Atomic Physics, Biophysics, Medical Physics, Materials Science.

WP3 – Transnational Access to Research Infrastructures for Accelerators

EURO-LABS supports Transnational Access (TA) to a broad spectrum of installations, to test concepts for future accelerators, based on improving the present facilities, and for R&D studies for future colliders like CERN/FCC or the Muon Collider. These facilities will provide beam lines for testing advanced accelerator materials, superconducting or normal Radio-Frequency cavities, magnets and acceleration schemes.

These tests use different particles and energies (low-energy protons, low-energy electrons, ultra-soft electron bunches and high-intensity high-energy electrons and could also have connections to industrial applications.

Fig.1 EURO-LABS website related to Transnational Access



WP4 – Transnational access to Research Infrastructures for HEP Detectors

Eligibility criteria How to apply WP2 – Virtual Access to RIs for Nuclear Physics WP2 – TA to RIs for Nuclear Physics WP3-TA to RIs for Accelerators WP4-TA-to RIs for Detectors Infrastructure Videos The Euro-Labs project offers transnational access to 13 different testing facilities across Europe. Interested parties are encouraged to identify the facility most appropriate for their needs and to check their eligibility before applying. The programme supports users to conduct testing within three separate domains: Beam test, Detector characterization, Irradiations.

ual Access to clear Physics	Type of access	Type of beams / Theory support	Access provider	Infrastructure	Country	Video link	Facility Coordinator Contact
A to RIs for r Physics	TA	Beam test	CERN	<u>PS & SPS</u>	International Organization	<u>PS-SPS</u>	Barbara Holzer
to RIs for lerators	TA	Beam test	DESY	DESY-II	Germany	DESY-II	Marcel Stanitzki
-to RIs for	TA	Beam test	PSI	PiM1 - UCN	Switzerland		Tilman Rohe
ectors	TA	Detector characterization	RBI	RBI-AF	Croatia	<u>RBI-AF</u>	<u>Stjepko Fazinić</u>
ture Videos	TA	Detector characterization	ITAINNOVA	EMClab	Spain	EMClab	Fernando Arteche
	TA	Irradiations	CERN	IRRAD	International Organization	IRRAD	Federico Ravotti
	TA	Irradiations	CERN	<u>GIF++</u>	International Organisation	<u>GIF++</u>	Michael Moll

Fig.2 EURO-LABS website specifically for facilities related to Transnational Access to facilities related to WP4.





FHD @ 12 Views () 6 months Ago

FHD @ 9 Views () 6 months Ago

CERN-GIF FHD @ 11 Views () 6 months Ago & Roberto Giacomelli @



Fig.3 A summary of the existing videos in the EURO-LABS Repository (https://mediawall.infn.it/view/?catName=euro-labs&lang=en_US)



Date: 29/02/2024



Fig.4 Screenshot from the SPIRAL2 video: Google Earth, approaching the SPIRAL2 facility at GANIL (Caen, France)



Fig.5 The FREIA Facility, Univ. of Uppsala, Sweden



Date: 29/02/2024



Fig. 6 - Nikolaos Charitonidis (Facility Coordinator) and Alice Goillot (Operational Manager), HiRadMat, CERN, Switzerland



Fig. 7 CLEAR Facility, CERN, Switzerland

Grant Agreement 101057511





Fig.8 LNL-NSDBF Facility, INFN, Italy

3.3. STATUS

It was mentioned on MS34 "that the complete set of films will probably take longer than the schedule for the present milestone". The project involves 45 installations in 15 countries offering Transnational Access and Virtual Access. The three facilities offering VA and the TA facility offering theoretical support will not be filmed.

It should be noted that FREIA (Univ. of Uppsala), initially treated as three different facilities, is actually considered as one facility with 3 installations. INFN/LNS-AIPF is currently being restructured due to upgrade of the accelerators and will therefore be filmed at a later stage when the facility will be ready for use. UKRI – CLARA is currently in the commissioning phase of the upgraded installation, including the high repetition rate (S-band 400 Hz) gun, together with the Full Energy Beam Exploitation (FEBE) 250 MeV 250pC FEL experimental area. Due to access restrictions in this phase the relevant video will be done later when the facility will become operational, and open to receive the first Transnational Access users. The two facilities at PSI are not receiving funding for Transnational Access, and the facility preferred not to contribute directly to the present set of videos made in an uniform style. New videos for the three facilities THOR, UoB, IST/CLEAR) could not be made due to various constraints and the INFN multimedia team has planned its trips in the coming months for the filming of the videos in these three countries.

This possibility was already mentioned in MS34, stating that "the complete set of videos will probably take longer than the schedule for the present milestone".

Hence, the total number of videos for the facilities available now are 34.

In summary, most of the experimental facilities in operation and offering translational access has a video at the EURO-LABS webpage describing the capabilities. These videos are of interest for the community as whole and even more for new users and young researchers.