Grant Agreement No: 101057511

EURO-LABS

EUROpean Laboratories for Accelerator Based Science

HORIZON-INFRA-2021-SERV-01-07 Project EURO-LABS

MILESTONE REPORT

WP2 – TA TO RIS DELIVERING RADIOACTIVE ION BEAMS

ALL PROVISION OF ACCESS OFFERED COMPLETED

MILESTONE: MS5

Document identifier:	EURO-LABS_MS5_Report.docx
Due date of milestone:	End of Month 46 (June 2026)
Report release date:	10/07/2026
Work package:	WP2.2: TA to RIs delivering Radioactive Ion Beams
Lead beneficiary:	JYU
Document status:	Final

Abstract:

This document reports on the Transnational Access (TA) activities carried out at the Radioactive Ion Beam Facilities within Work Package 2, Task 2 of the EURO-LABS project. A total of six RIs were selected to provide TA to Radiactive Ion Beams for Nuclear Physics experiments. The Task includes the ALTO, GANIL, GSI/FAIR, INFN-LNL/LNS, JYFL-ACCLAB, ISOLDE facilities. The document reports on completion of MS3, with all provision of granted access having been completed.

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

	Name	Partner	Date
Authored by	Gheorghe Iulian STEFAN [Task 2.2 Leader]	IJCLab	07/07/2026
Edited by	Gheorghe Iulian STEFAN [Task 2.2 Leader]	IJCLab	07/07/2026
Reviewed by	Adam Maj [WP2 coordinator]	IFJ-PAN	07/08/2026
Approved by	A. Navin [Scientific coordinator]	GANIL	10/07/2026

TABLE OF CONTENTS

Executive summary

This document reports on the delivery of access Task 2.2 in Work Package 2 of EURO-LABS, which provides Transnational Access (TA) to Radioactive Ion Beam Facilities for Nuclear Physics across six selected RIs. The objective of the task was to enable external research teams to access high-quality Radioactive Ion Beam Facilities and their associated instrumentation for state-of-the-art research in nuclear physics.

Access was delivered in accordance with the Grant Agreement (GA), with strong demand from the user community. One facility could not deliver any RIB during the reporting period, while one other facility had no eligible application. The total number of Access Units provided was ***39773*** *whilst the number expected to be provided by the facilities in this Work Package at the time of writing of the Grant Agreement was* ***23036.*** *Note that some facilities are, in addition to the provision of Radioactive Ion beams presented here, also providing Stable Ion beams or Neutrons or in some cases all three. The number expected to be provided referred to is the TOTAL for the facility. The total number of supported projects carried out by the facilities was* ***221****, attended by a total of more than* ***1500*** *users, of which well over* ***800*** *received support from EURO-LABS. The active facilities provided stable beam conditions, specialized experimental setups, and technical support necessary for high-precision studies.*

The research activities addressed several of the key scientific challenges highlighted by NuPECC Long Range Plan for European Nuclear Physics, including the study of nuclear structure far from stability, the investigation of fundamental symmetries and interactions, the development of precision measurements for physics Beyond the Standard Model (BSM), showing the that radioactive ion beam facilities are essential European Research Infrastructures. The programme strengthened collaboration between European laboratories and external user groups, facilitating knowledge exchange and training especially of early-career researchers.

1. SUMMARY OF ACCESS PROVISION

All six facilities selected to provide TA within Work Package 2.2 successfully implemented the required User Selection procedures and provided access in an efficient manner, with widely advertised calls and clear selection criteria. User Selection was carried out in accordance with the Grant Agreement and favoured new and less experienced users. A full report on the TA provided in this task can be found in Deliverable D2.2. Below is a table showing the distribution of TA provided across the six RIs in task 2.2. The number of AUs planned corresponds to the TOTAL number of AUs promised by the facility in the Grant Agreement for all of Work Package 2, which may also include delivery of Stable Ion and/or Neutron beams. As can be seen from the table, the provision of TA in Work Package 2.2 represents an important part of the level of TA originally planned for these facilities.

Summary of Activities by Facility			
Facility	**#Projects Supported (WP2.2 only)**	**#AUs planned (WP2 total)**	**#AUs delivered (WP2.2 only)**
ALTO	0	1860	0
GANIL	11	3256	2120
GSI/FAIR	19	2150	2600
INFN LNL/LNS	0	4400	0
ISOLDE	108	4500	10330
JYFL-ACCLAB	18	3500	3168
TOTAL	**156**	**19716**	**18218**