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EURO-LABS

EUROpean Laboratories for Accelerator Based Science

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

DELIVERABLE REPORT

REPORT ON THE SERVICE IMPROVEMENTS IN RI'S FOR DETECTORS

DELIVERABLE: D4.4

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Abstract:

WP4 (Detector R&D) of EURO-LABS implemented in its Task 4.4 targeted Service Improvements (SIs) at the Research Infrastructures (RIs) providing transnational access for detector R&D.

This deliverable is duplicate in terms that *Detectors (WP4)* are a super-set of the transverse SI activity (Task 4.4), which is fully covered in the deliverable report D4.2: *Report on the Service Improvements in WP4.4*.

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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Executive Summary of D4.4

Task 4.4 was established to improve the performance and usability of the WP4 Research Infrastructures (RI) for EURO-LABS users as well as for exploitation beyond the end of the project. Each participating RI proposed a targeted improvement with a direct impact on user access. These Service Improvements (SI) were planned for completion in the first two project years and were generally co-funded by the RIs themselves. Nine of the ten SIs reached operational status: eight with demonstrated EURO-LABS use cases and one operational but not yet used by a EURO-LABS project. The PSI beam-monitor SI was not realized beyond the prototype stage. The programme nevertheless delivered a broad set of durable improvements in scheduling efficiency, setup flexibility, beam monitoring, low-temperature characterization, irradiation uniformity, user handling and attainable fluence.

This report also covers the duplicate deliverable D4.2: R*eport on the service improvements in wp4.4.*