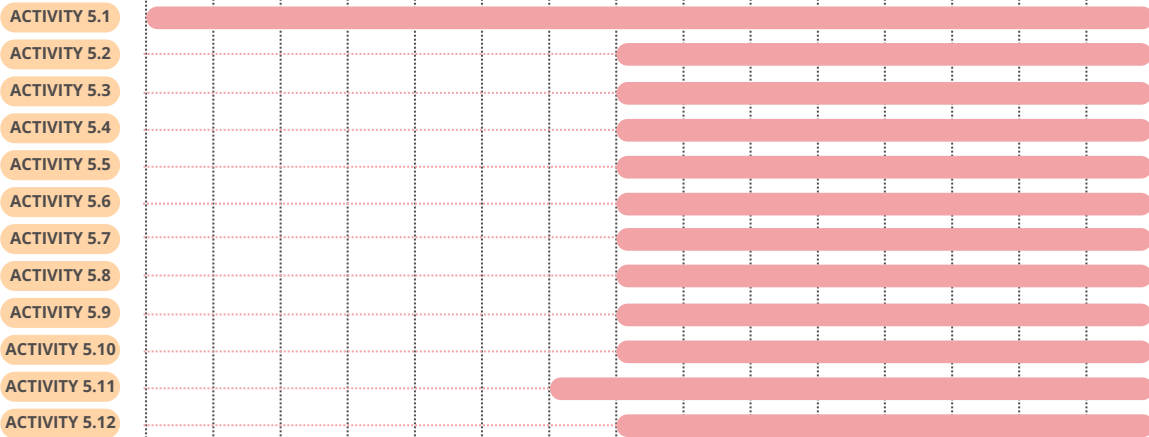


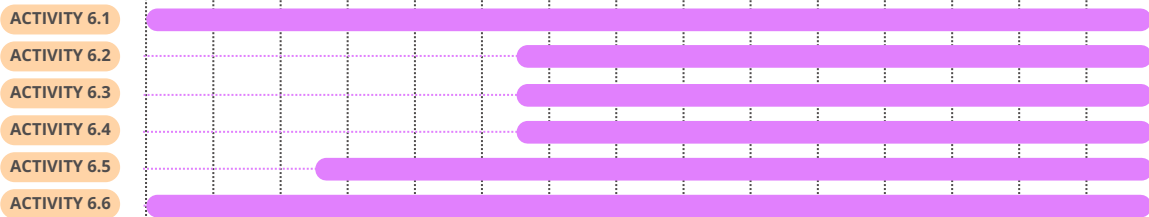
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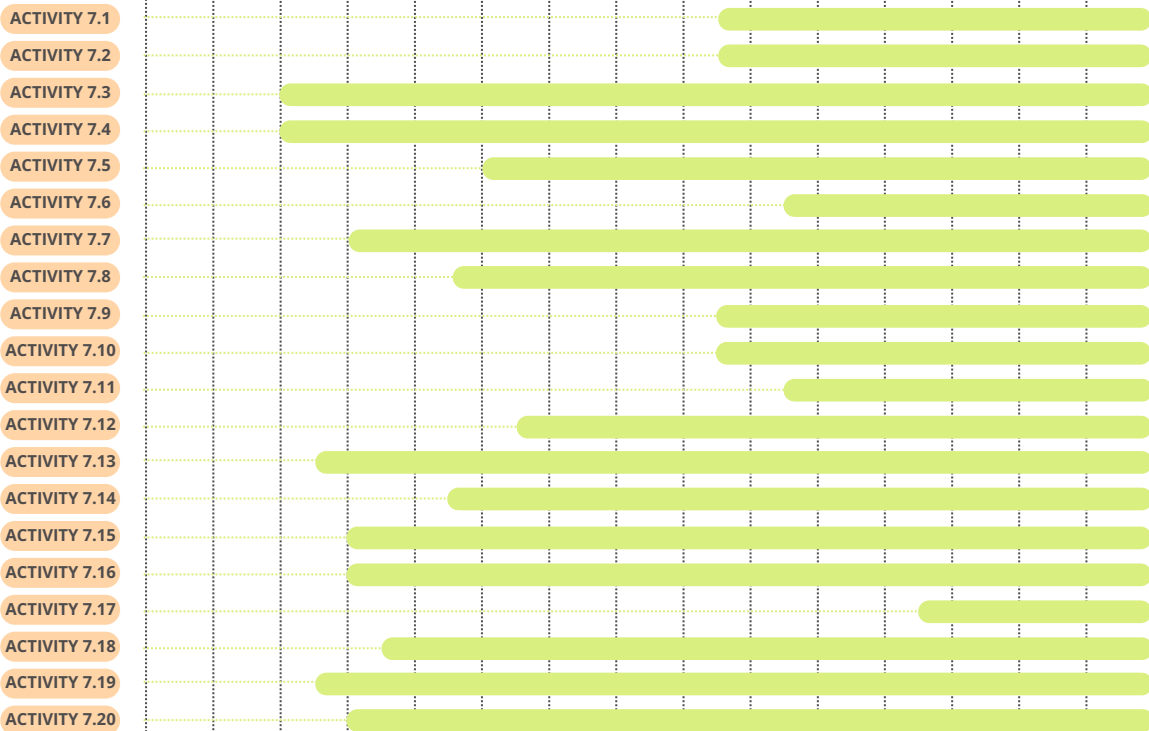
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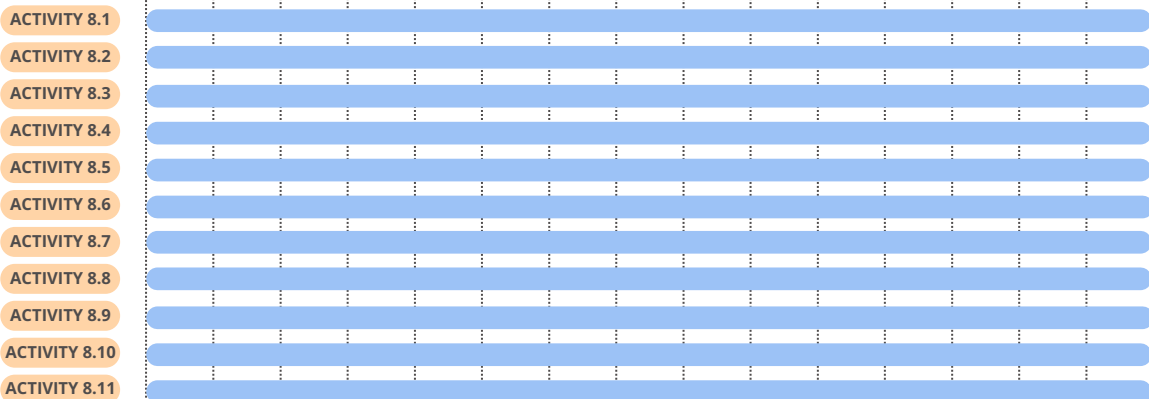
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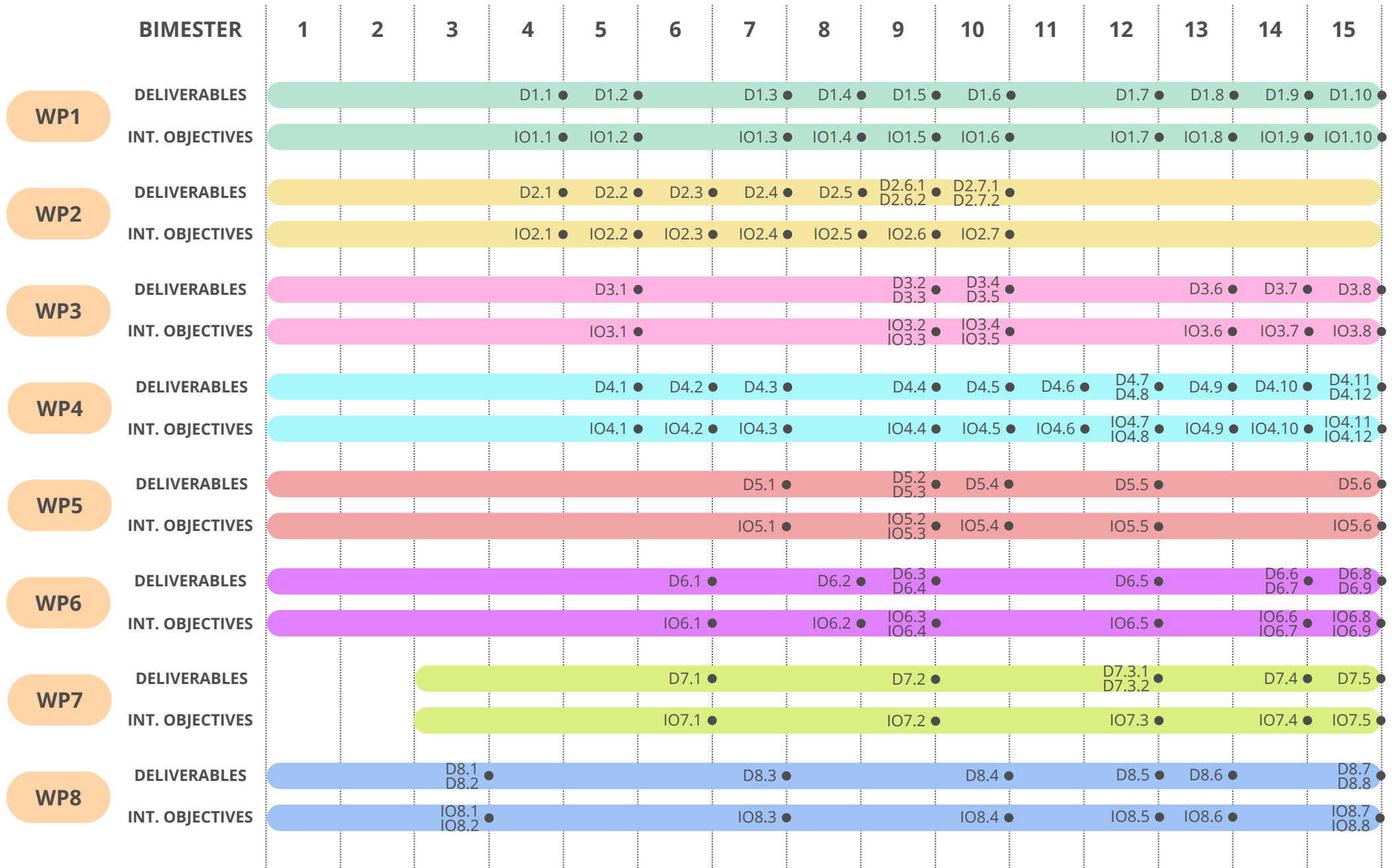
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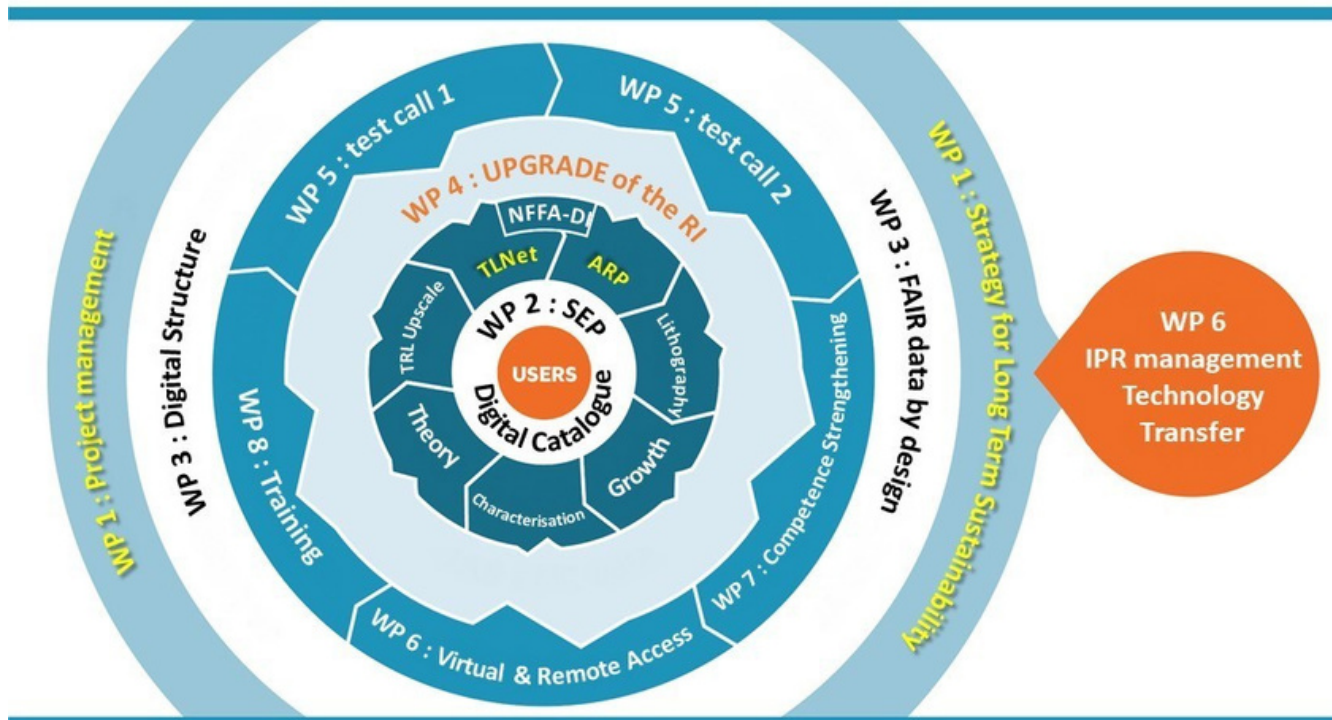
WP8



Gantt chart with Deliverables and Intermediate Objectives



WP inter-relation with other WPs



WP1 manages and orients the progress of the whole project.

WP2 complements WP1 for the management of the RI, focussing on the technical coherence, technical interoperability, and operational aspects. It will execute relevant decisions from WP1, and will inform the tailoring of the digital infrastructure developed by WP3 for optimizing the access provision. The close link with WP4 will lead to timely inclusion as online-options of the upgraded instrumentation just after commissioning. It regulates, coordinates, and makes possible the activities of WP5 concerning the early commissioning of access that may overlap with some of the WP7 Upskill in-house research. All data acquired or generated under this WP will be at the heart of the Digital Infrastructure and feed the FAIR overarching Data System in WP3. WP2 connects with WP6 for the integration of virtual access services and the management of the IP generated during access as well as possible actions for technology transfer. It will monitor the new developments produced in WP7 and contribute to the training activities of WP8.

WP3 interrelates with WP1 for data management plans and data policy definition, with WP4 for FAIR-by-design implementations on upgrades, with WP6 for interaction with remote access and virtual access, AI-augmented research infrastructure, and with data management services commercial and industrial exploitation, with WP7 for specific advanced research topics on data.

WP4 describes the core of the upgrade investment as it coherently distributes to all operating units (nodes) of NFFA-DI the resources to strengthen the service potential for users at the forefront of research in nanoscience. As such WP4 is deeply interlinked with all WPs that describe the organization, management, and Digital Operation of the RI. WP3 is ruling the Digital Infrastructure and impacts on WP4 providing the rules of operation of all new instruments that shall be equipped with FAIR-by-design technology and generate data ready for interoperability. Open source or interfaceable software shall be a requirement for operating the new instruments. WP5 will connect the upgrades, through the TLNet, and ensure the upload of technical and commissioning data to the Digital Catalogue, as well as the operational status of the instrumentation. WP7 is key in setting the upskill of staff for optimal usage of the upgraded instrumentation and data protocols, and to set the basis for the continuous upgrade of RI. In fact, in-house research activity will be finalized to strengthen the competences with the upgraded/new methods and instruments, bringing them to full exploitation and readiness for user access, as well as to perform frontier exploratory research on methods and instrumentation to be developed by the RI even beyond NPPR. WP7 will be seeding the continuous upgrade of NFFA-DI. WP8 will include training with the upgraded/new instrumentation to be shared at RI level.

WP5 builds on coordination from WP2 and WP3 and extends on outcomes of WP4, benefitting from training activities in WP8.

WP6 connects with WP3 for data and computational platform, with WP7 for innovative work of partners, with WP5 for innovative way to provide interactive remote access.

WP7 describes the upskilling – strengthening of competences – connected with the upgrade WP4 in order to fully exploit, through in-house research ad-hoc programmes, the potential of the upgrade and transfer the newly acquired competences to the service provision. WP7 is interlinked with WP3 as the FAIR-by-design implementation shall be tested through ad-hoc in-house research programmes in parallel with early opening to users. WP7 is interlinked with WP8 for the training of new/young scientists, technology developers, and technical operators through research with the upgraded facilities.

WP8 is deeply interlinked with all WPs as all aspects of the upgrade and the full digital-transition of the RI require specific training actions for staff and users and, at the same time, represent excellent training offers for students on nanoscience and on FAIR-data management and FAIR-by-design technologies. WP1-Management: The management of NFFA-DI will be strengthened by participation to RITRAIN-Plus managerial school. WP3-Fair data: Fair data will be interlinked and offer opportunities for Internships and MSc theses Practicum and Sandwich courses as apprenticeship experiences in connection with the digitalization of NFFA-DI. WP4-Upgrade of the RI nodes: will provide an ideal environment, distributed in all nodes, for hosting Master-thesis students and young graduates on research apprenticeship with focus on the FAIR-by-design and FAIR data technologies as applied to advanced experimental and theoretical data production. WP7-Strengthening competence and leadership in research services through in-house research: will offer excellent opportunities of PhD research projects both in connection with the strengthening of the competences for operating and exploiting at the optimal level the new instrumentation and in connection with those exploratory projects that pursue the medium/long term competitiveness of NFFA-DI by adding future unique facilities.

The Scientific Coordinator

The legal representative
for the applicant