

20 European Partners realize a platform supporting comprehensive projects for multidisciplinary research at the nanoscale extending from synthesis to nanocharacterization to theory and numerical

an and international researchers from diverse disciplines to carry out advanced proposals impacting science and innovation. NFFA-EUROPE offers access to growth, advanced nano-lithography, nano-

forming the research, including appropriate access to analytical large scale facilities and to theoretical nanoscience and relevant access to high-performance computing. The users access will be realized through a single entry point at the NFFA.EU portal that will activate an advanced user-infrastructure dialogue leading to successful and personalized access programme and science and innovation production. The successful projects will include sever-

al "installations" as NFFA-EUROPE has the goal to enable coordinated access to different aspects of the nanoscience research that is currently not available at specialized infrastructures, without duplicating the scope of those. The own research activity of NFFA_EUROPE will address key bottlenecks of nanoscience research: nanostructure traceability, protocol reproducibility, in-operando nanomanipulation and analysis, open data.

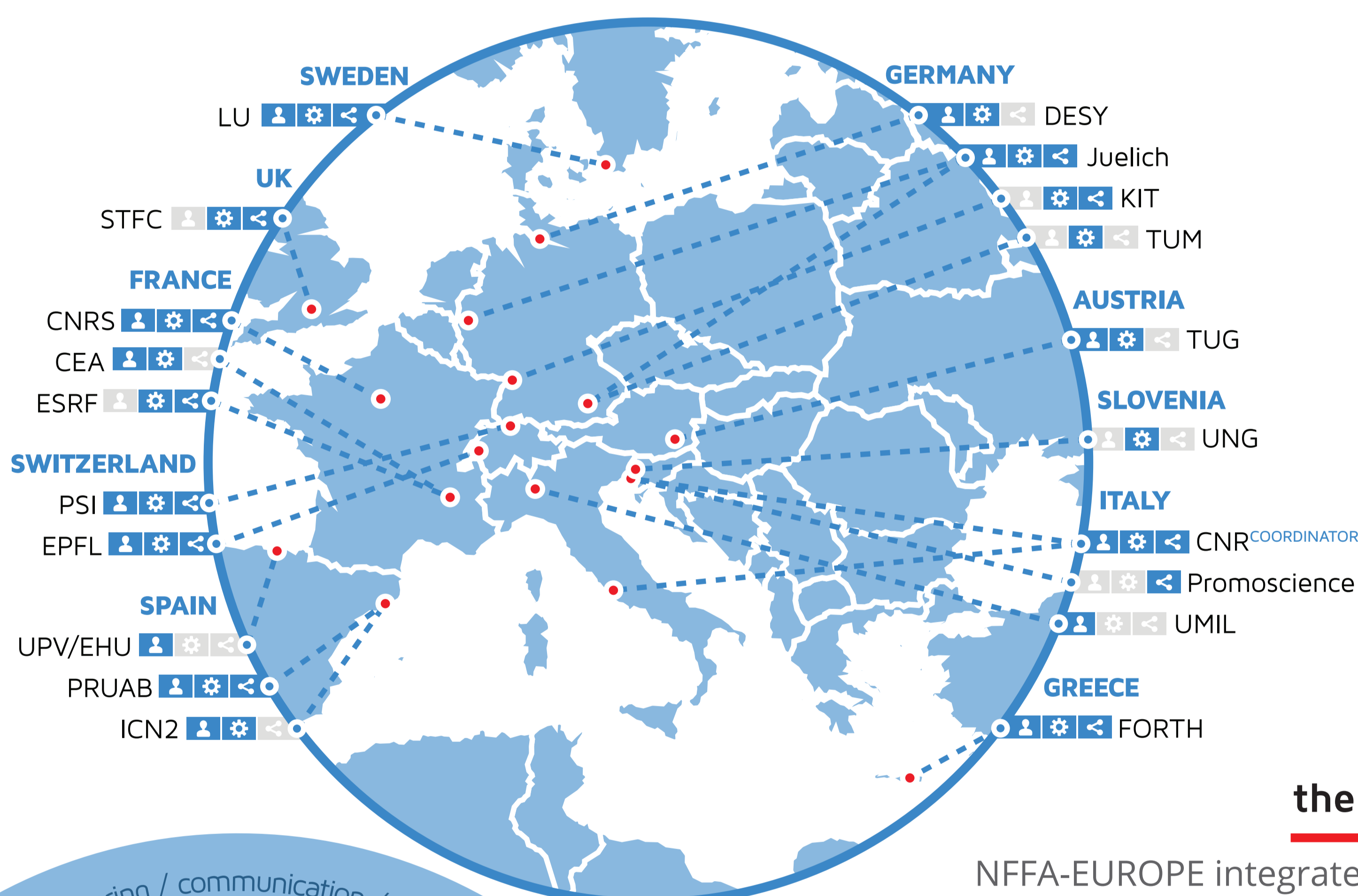
an open access resource for experimental & theoretical nanoscience

simulation. Specialized synthesis, growth and nanofabrication infrastructures co-located with facilities for the fine analysis and simulation are integrated to develop frontier research on methods for reproducible nanoscience research and to enable Europe-

characterization and fine-analysis with Synchrotron, FEL and Neutron radiation sources in a multi-site combination of the state of the art experimental methods. Successful users projects will access the best suited instruments and support competences for per-

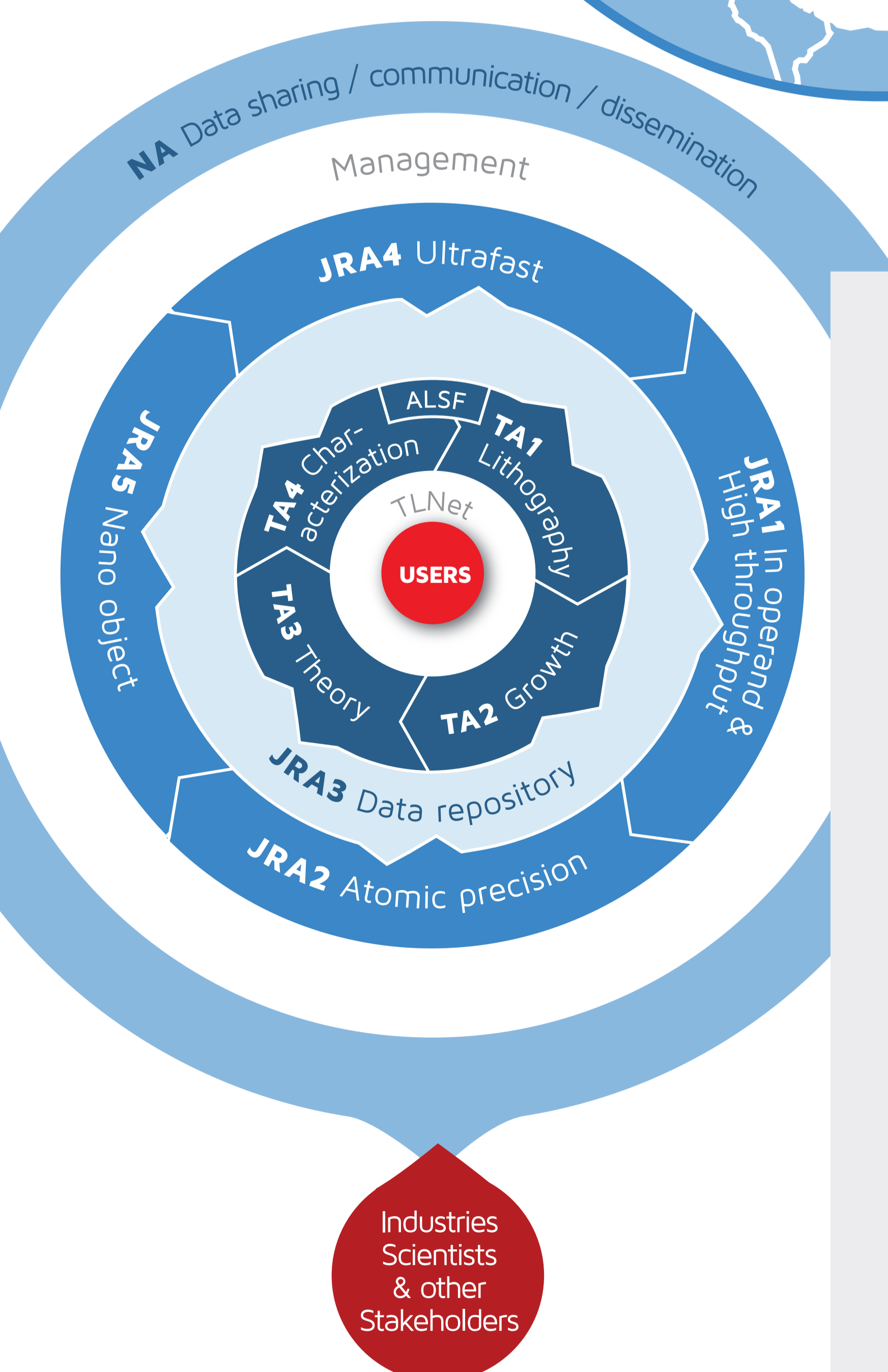
the first open-access Research Infrastructure with a single entry point

The access management structure ensures optimized service provision to users and guarantees scientific excellence and innovation of the selected proposals as collected via a Single Entry Point (SEP) portal with the assistance of the Technical Liaison Network (TLNet).



the consortium

NFFA-EUROPE integrates 20 Partners, half of which are nano-foundries that are co-located with Analytical Large Scale facilities.

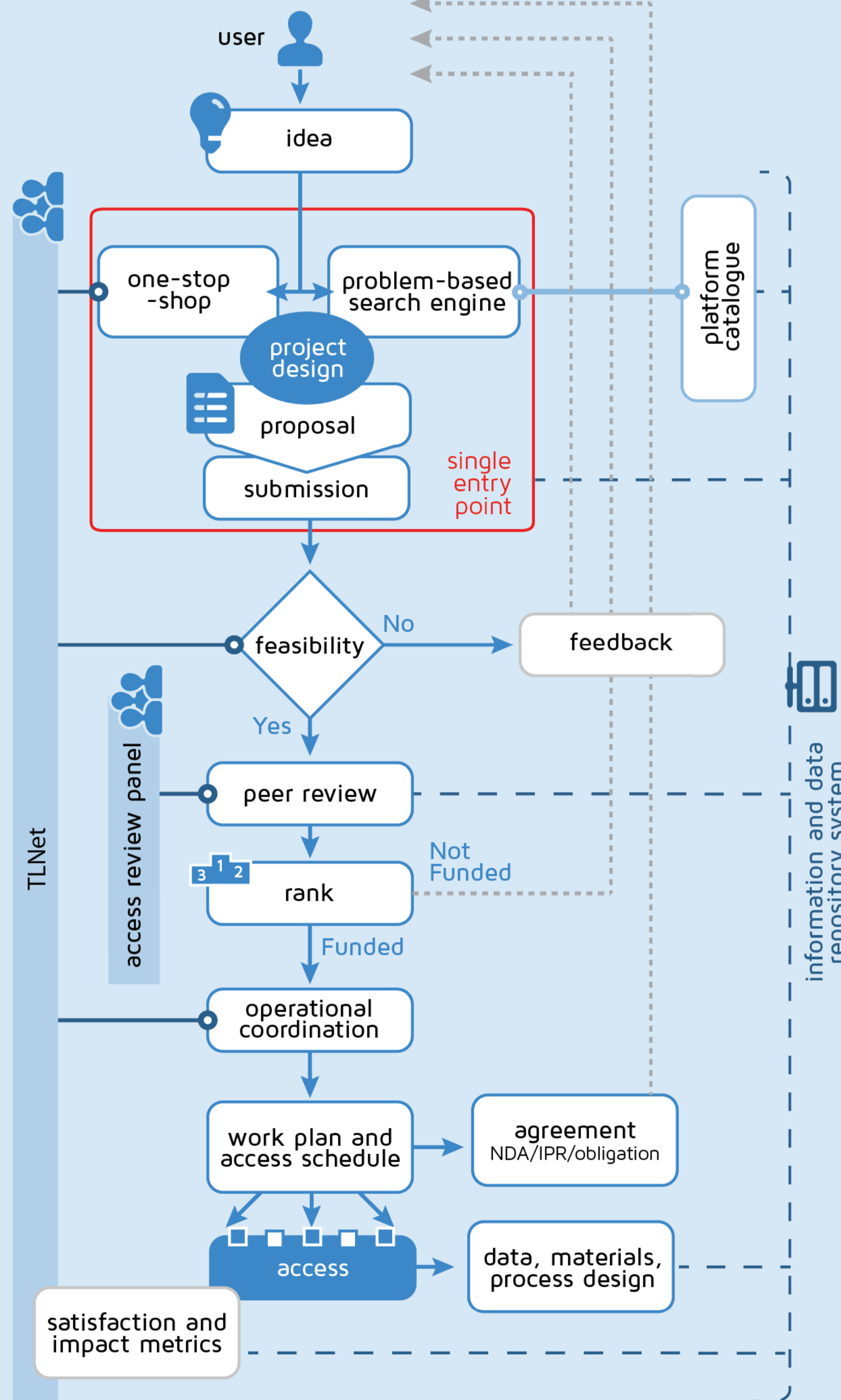


the overall offer

TA Transnational access activities performed at nano-laboratories and ALSFs, will provide the opportunity to integrate theory and numerical analysis, structural and morphological characterization, electronic and chemical characterization, and magnetic, optical and electric characterization.

JRA Joint research activities will develop methods and tools at the frontier in nanoscience research and will feed back into an improved offer of the research infrastructure to carry out academic as well as industrial projects.

NA Networking activity is designed and organized to foster an effective interface with the wide-ranging user communities, as well as looking ahead to make experimental data suitable for industrial exploitation.



The first overarching information & data management repository platform for nanoscience, defining a metadata standard for data sharing as an open collaborative initiative within the framework of the Research Data Alliance (RDA)