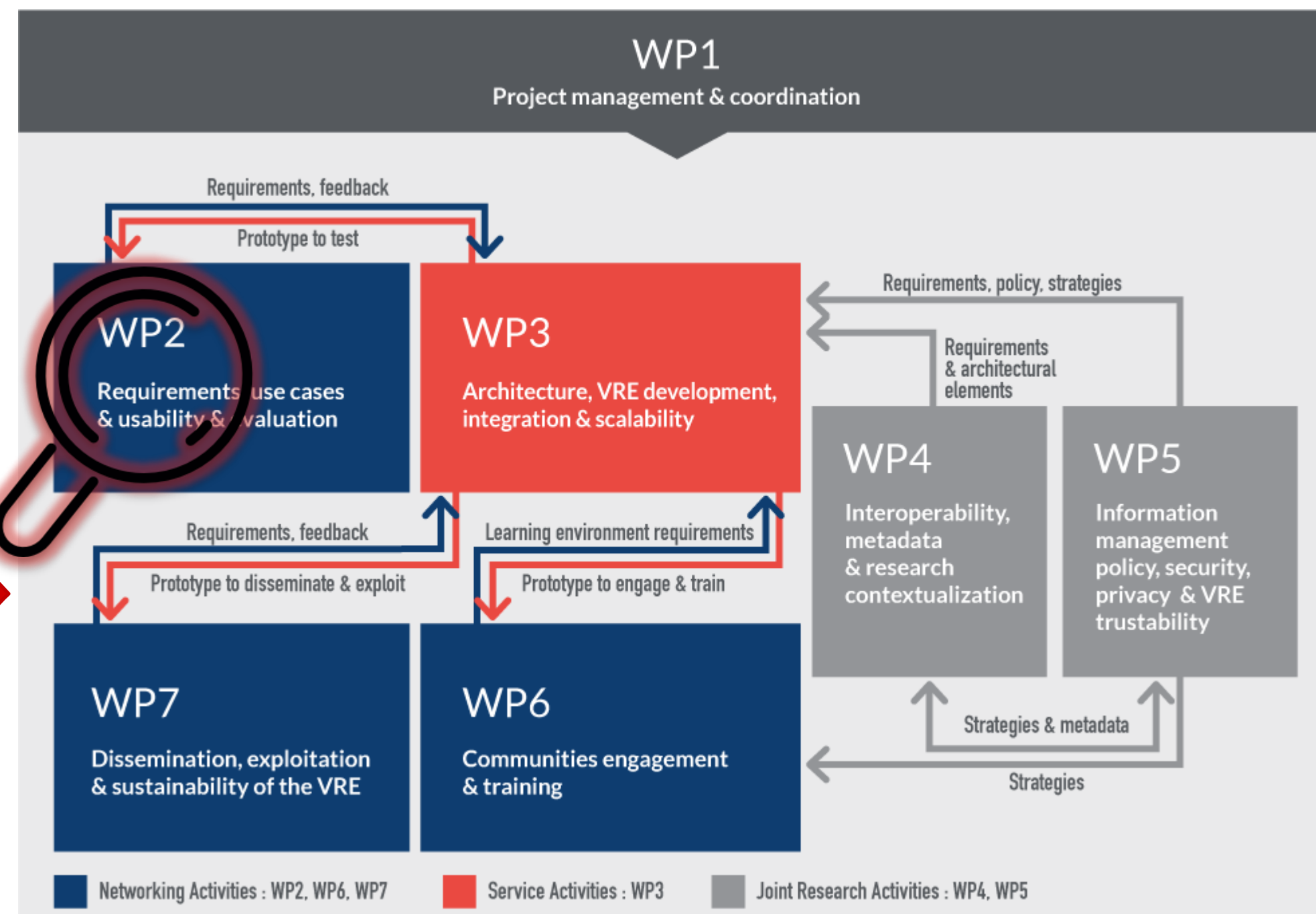


THE VRE4EIC PROJECT



Need for...

... **identification and citation**: provide *persistent identifiers* for datasets, data providers, publications... and *classifications* (raw, processed, finalized data)

... **curation**: use a *Data Management Plan*, follow *curation standards* (data & metadata), provide *data quality checking* abilities

... **catalogs**: of observation systems and lab equipments, data processing software and activities, data products, publication...

... **data processing**: discover, harvest, convert, compress, mine, visualize... data

... **optimization**: processing large datasets...

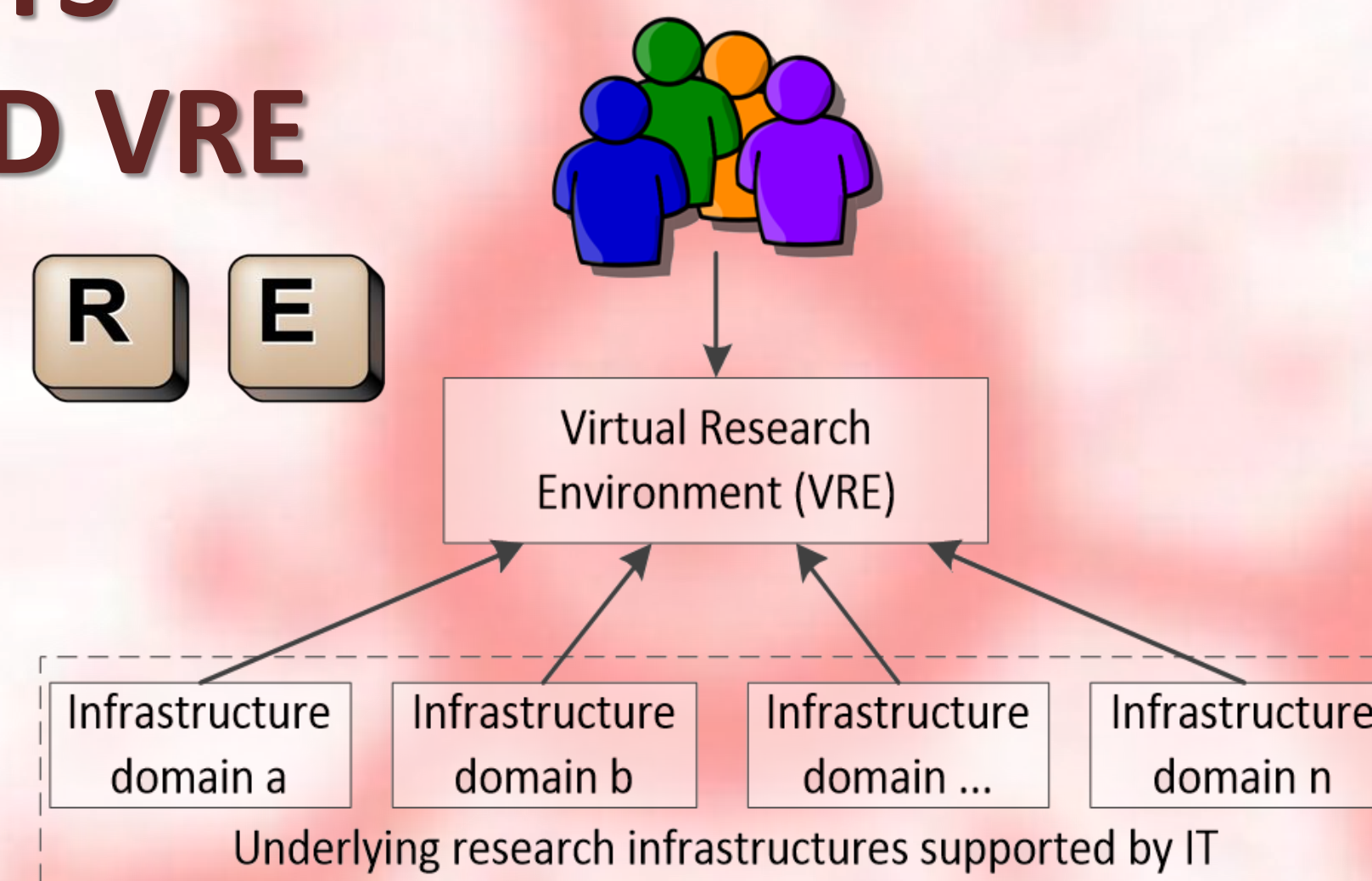
... **provenance**: keep the "*pathways of data*"...

... **collaboration, training & support**: forums, co-editing tools, e-learning modules...



The functional requirements

THE REQUIREMENTS FOR AN ENHANCED VRE



Integrate with the e-RI *catalogs* containing metadata about datasets, software services, resources, users...

Interoperate with the *standards* used by the e-RI catalogs

The reqs to connect e-RIs & e-VRE

The non-functional requirements

Performance efficiency: capacity, ability to extend it...

Usability: user assistance, improvements based on feedbacks...

Reliability: maturity, availability, fault tolerance, recoverability...

Maintainability: addition of modules, reusability, modifiability, testability...

Compatibility and portability: interoperability, adaptability, installability...

Security, Privacy and Trust: user access control, secure data storage and transmission, data backup...

Legal: data ownership, liability...

