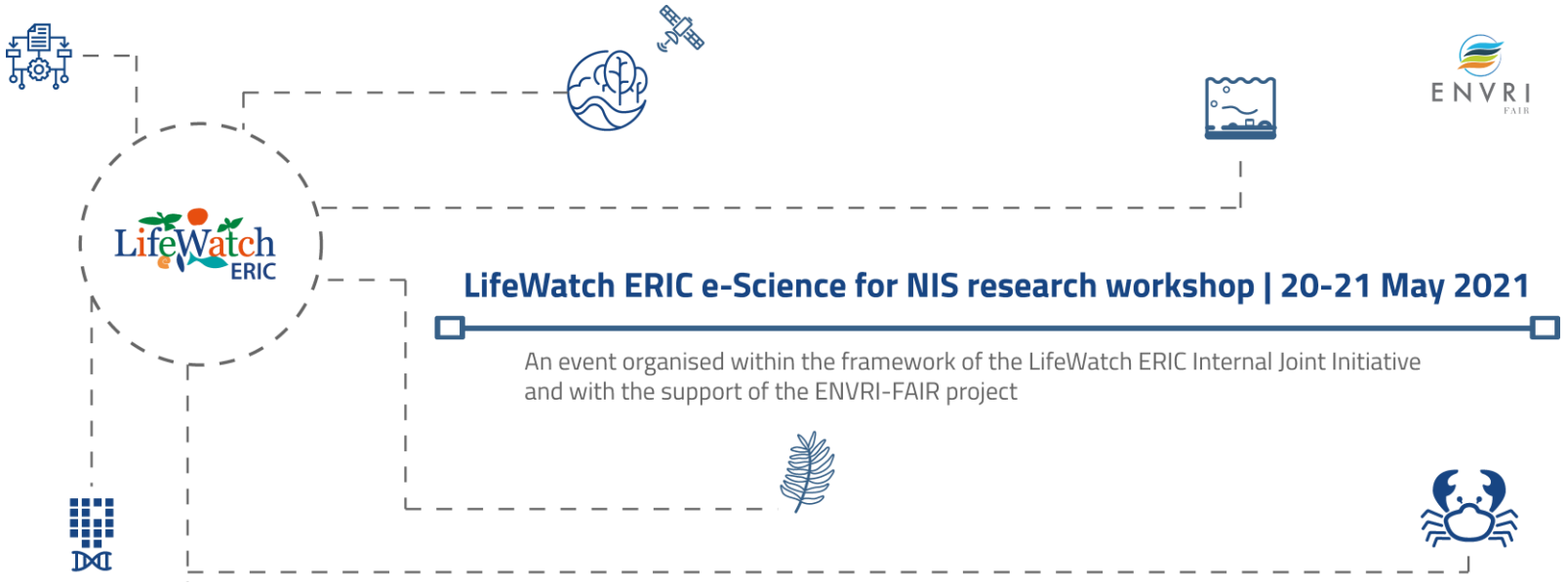


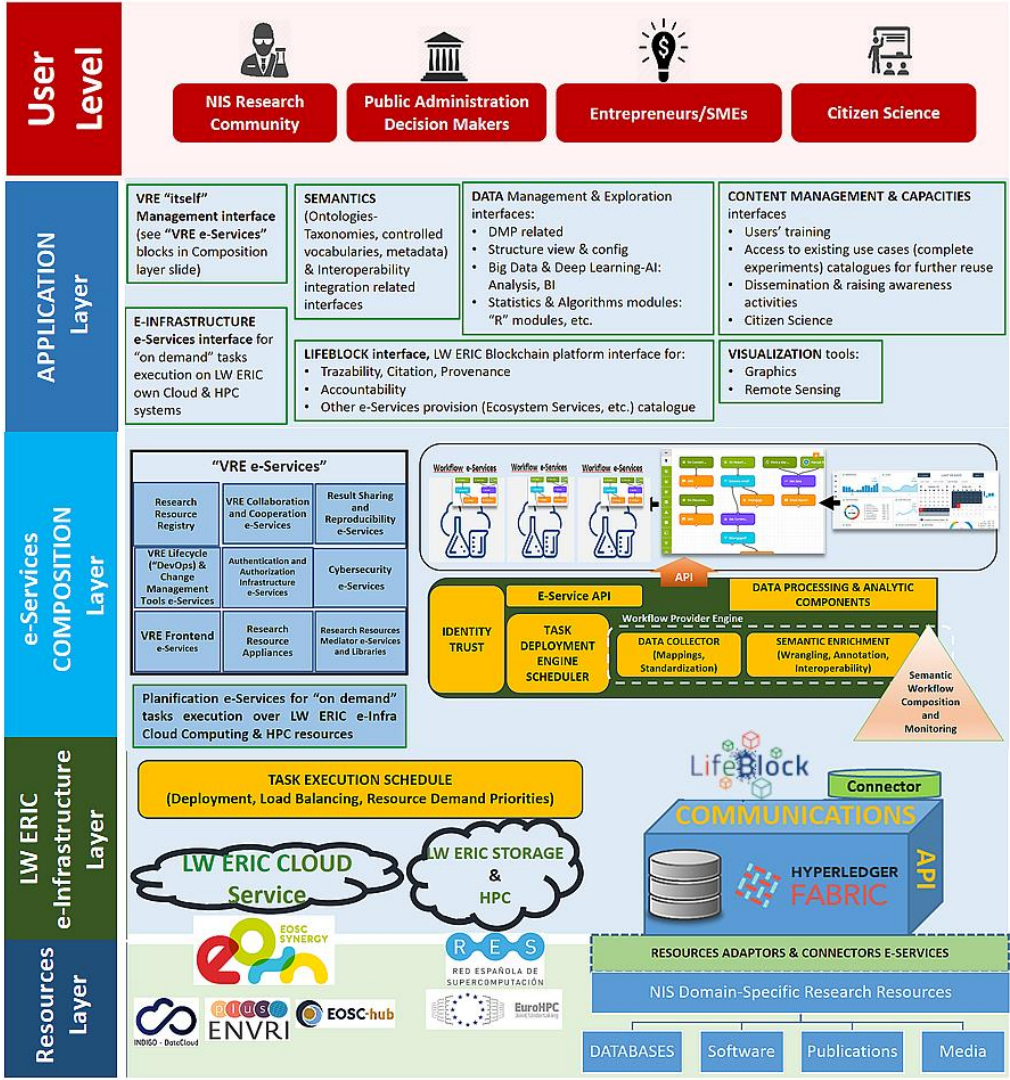
Round table 5: IJI e-services and disruptive technologies for NIS research session

Integration within LifeWatch ERIC Tesseract VRE

Antonio José Sáenz-Albanés | LW-ERIC ICT-Core Operations Coordinator

LifeWatch ERIC Tesseract

Conceptual Architecture



LifeWatch ERIC

LifeWatch ERIC
Tesseract

11 Working Groups

WG A: Providing AAAI & cybersecurity components. Backend of accountability

WG B: Linking every of the workflows to Tesseract VRE in the form of a Workflow Catalogue

WG C: Providing “on demand” e-Services to Cloud –EOSC– & HPC (RES-EuroHPC) resources

WG D: Providing semantics applications & e-tools interface (including taxonomic backbone)

WG E: Providing statistics packets (R, Jupiter python-based, etc.) virtual labs interface (apart from their proper integration into workflows themselves)

WG F: Providing DMP and external databases access mechanisms (INTERNAL TO APPs & ADMINs, e.g., see point k. LifeBlock)

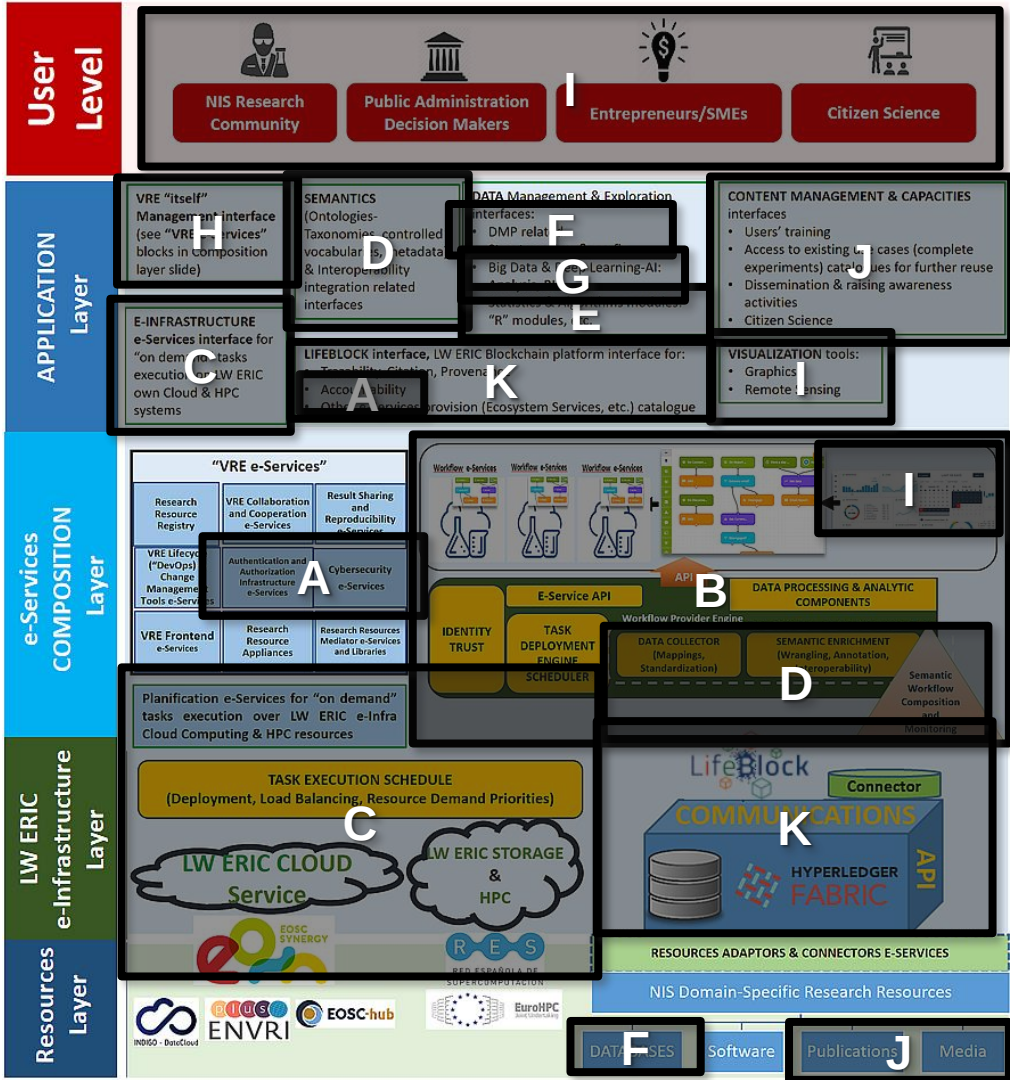
WG G: Big Data & AI-Deep Learning applications for Modelling

WG H: Providing VRE management components (INTERNAL TO APPs & ADMINs)

WG I: Providing visualization: GIS-Remote Sensing & graphical analytic: KPI & socioeconomic impact visualization, including EBVs & ecosystem services analysis tools

WG J: Providing interfaces to online Training Seminars; “Success case studies”; Dissemination (publications, media) thematic-related resources (e.g. on NIS-IAS); and links to thematic-related Citizen Science activities

WG K: LifeBlock: Transparent to users, not existing any “specific” interface, but embedded to all of system e-Services provided. Therefore, cross-cutting to previous a. to j. set of components (INTERNAL TO APPs & ADMINs)

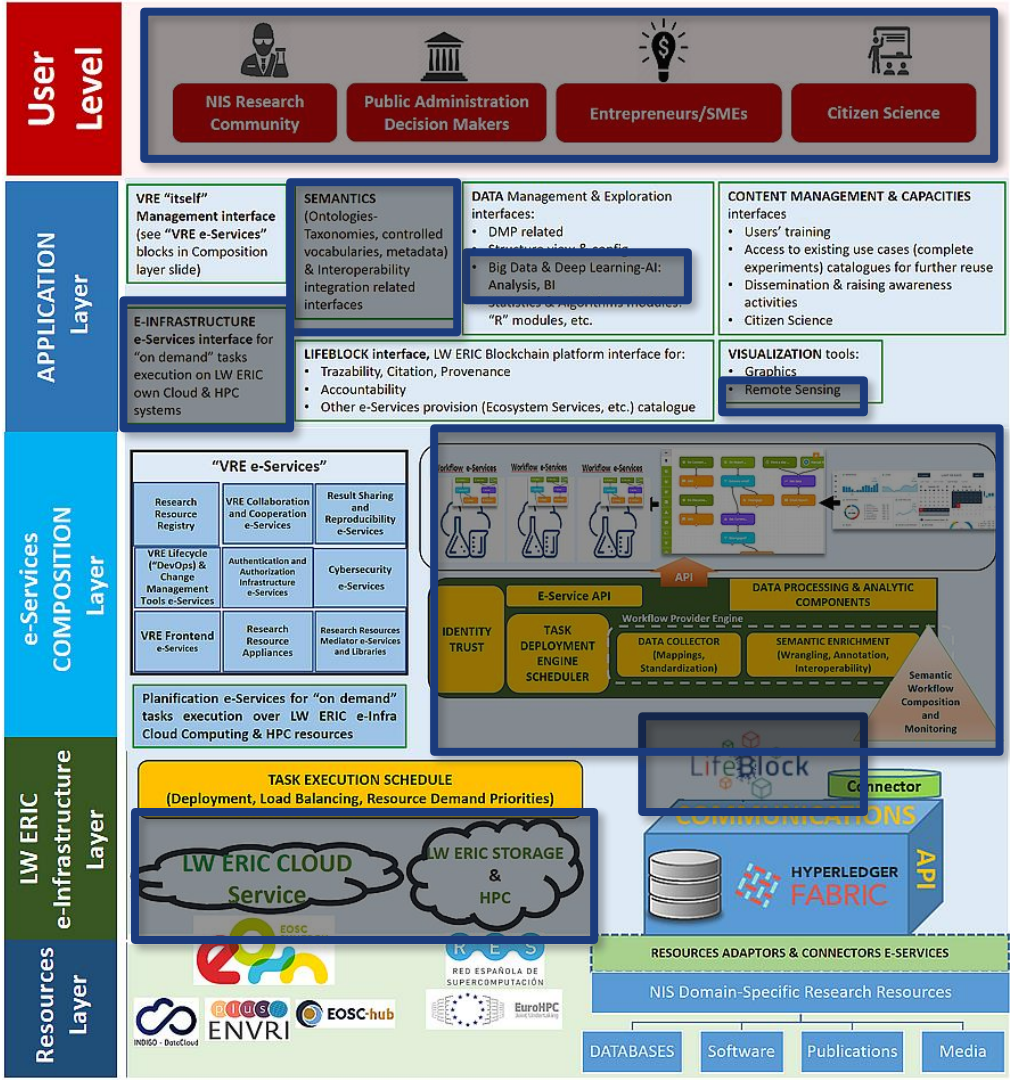


LifeWatch ERIC

LifeWatch ERIC
Tesseract

No-surprise Conceptual Integration

- LifeBlock (-chain)
- EBVs, Remote Sensing Workflows-related
- Semantics & Ontologies
- High Performance Computing & EOSC(loud) synergy
- Big Data
- User-friendly interfaces
- Artificial Intelligence-Deep/Machine Learning for Remote Sensing



LifeWatch ERIC

Tesseract

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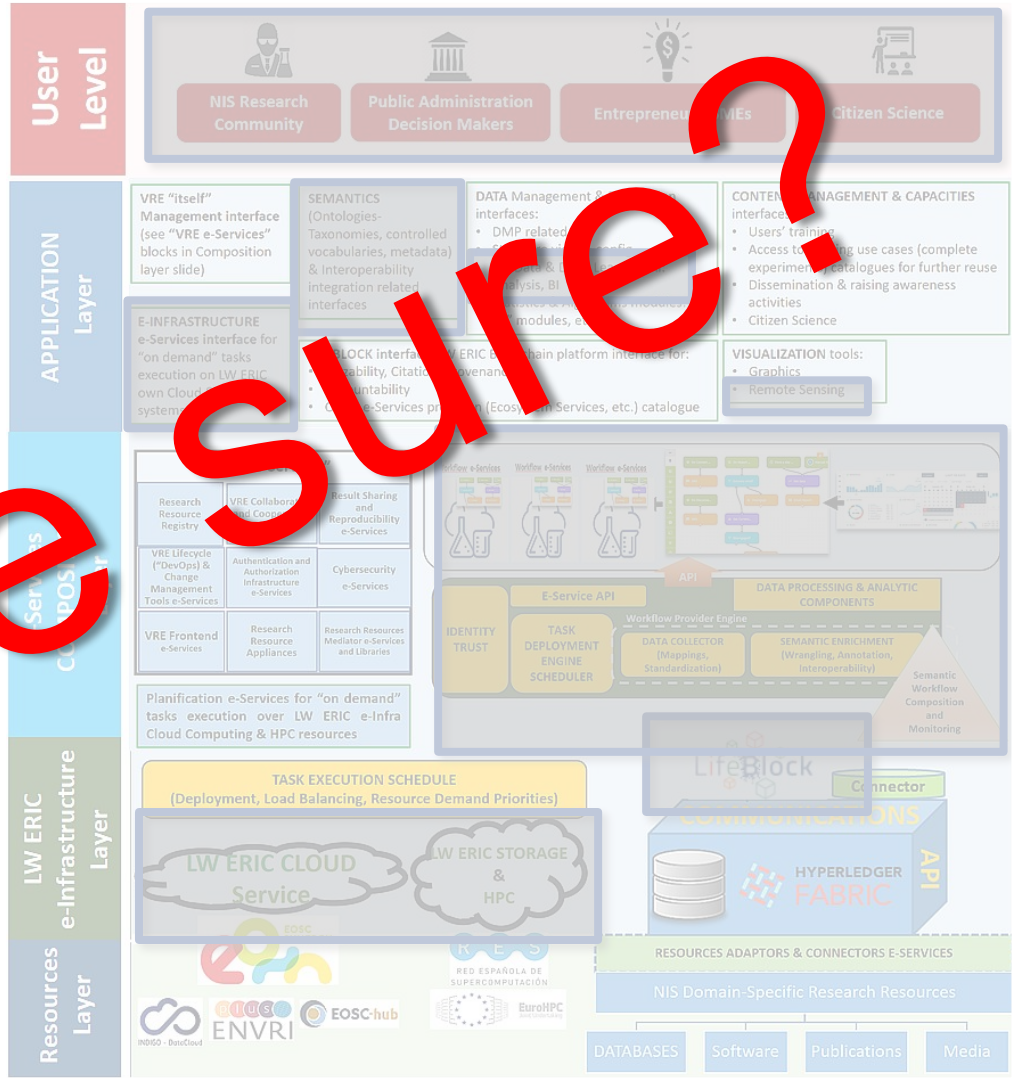
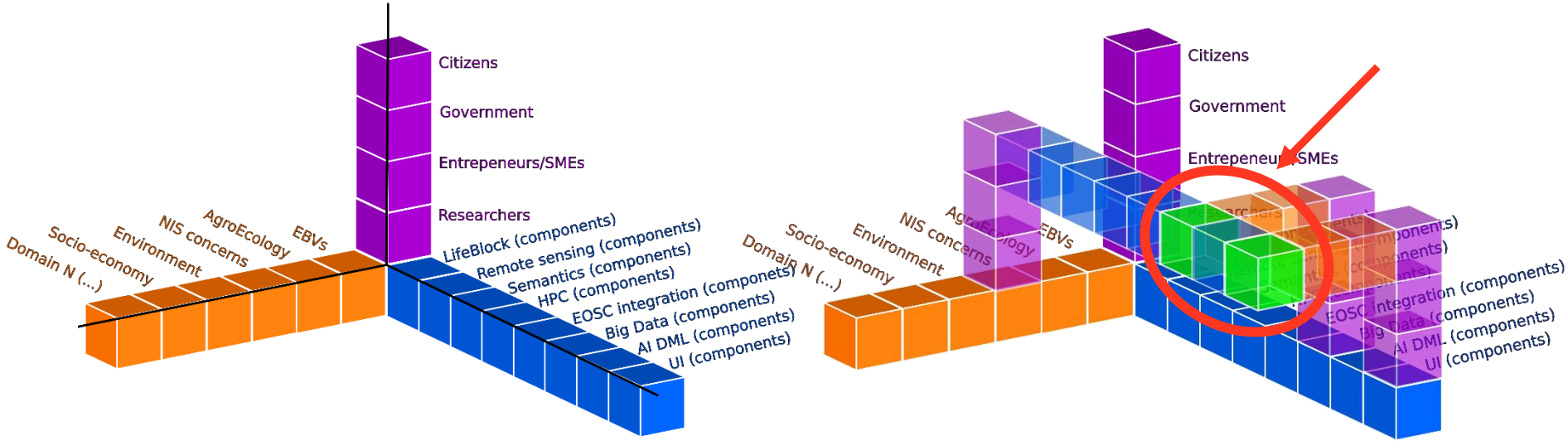
Are we sure?



What do/don't we want?

- ✖ Poorly integrated systems
- ✖ Wasting our budget, time and effort developing components without clear applicability
- ✖ Mismatches in development milestones
- ✓ Tested components in production
- ✓ Access to functionalities as soon as possible
- ✓ Continuous refinements and improvements

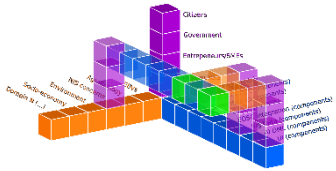
Development process guided by **clear-goal use-cases***



*As we are doing for IJI NIS development

We need those cases (for example from Andalusian ERDF projects)

And of course the rest of best practices



Selected use-cases

Stakeholder community requirement holders

ICT external ticketing system at LwOS Desk

Shared folders at LwOS Workdrive

Online meetings

ICT managers

Managed Services

ICT internal ticketing system

Managed PaaS

Kanban

Managed IaaS

Repositories CI/CD

Training material

Deployed functionalities associated to use-cases

Thanks!

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