# Synsicris Technical Highlights

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#### About me & 4Science



Andrea Bollini, CTO at 4Science Deputy leader of the euroCRIS CERIF TG for CRIS Architecture Member of the Working Group of COAR Next Generation Repository Leader of the DSpace 7 REST team

Started DSpace-CRIS back in 2009, open sourced in 2013



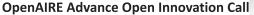




















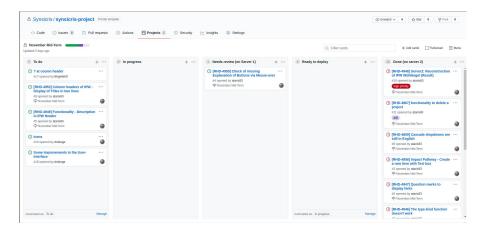


#### Technical approach

#### Agile methodology

- 4 weeks sprint
- incremental
- TDD: Continuous integration
- Wireframes → PoC → Implementation

Open source: DSpace-CRIS 7









The first open source CRIS system

More than 100 installations Worldwide, in all continents!

A working solution since 2009, open sourced 2013



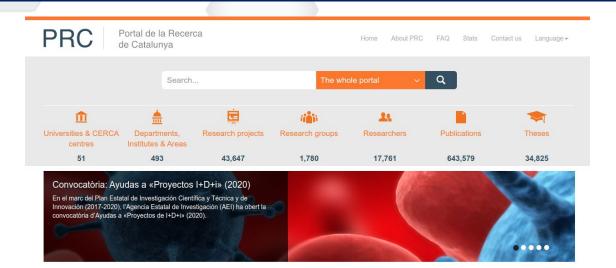




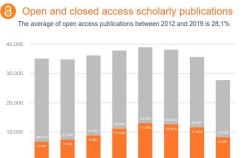






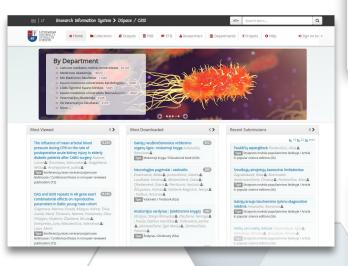


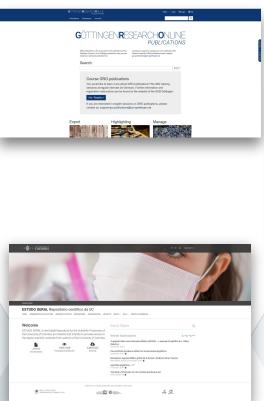


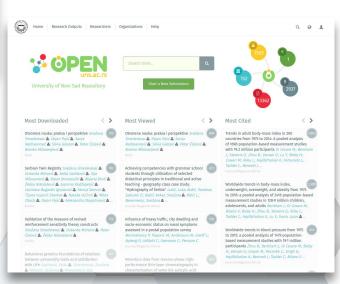
















### DSpace-CRIS 7: Ready to use, out-of-box

Default data model based on OpenAIRE information space and CRIS guidelines

Support for real CRIS workflows and use cases

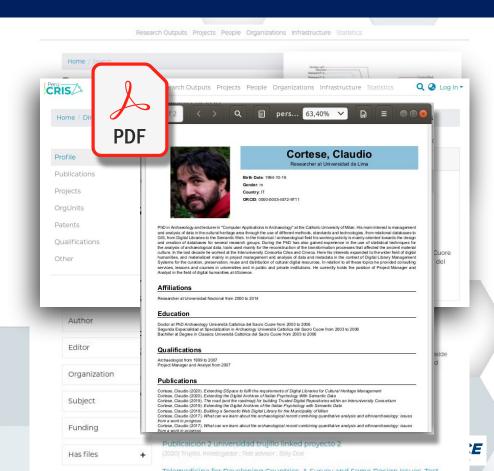
- Full ORCID integration (pull & push)
- Profile (self)management and curation, CV export
- data quality checks & tools: deduplication, publications claim/unclaim, publication-patent-project lookup
- fine-grain security

Easy to maintain, most frequent administrative tasks can be performed via UI

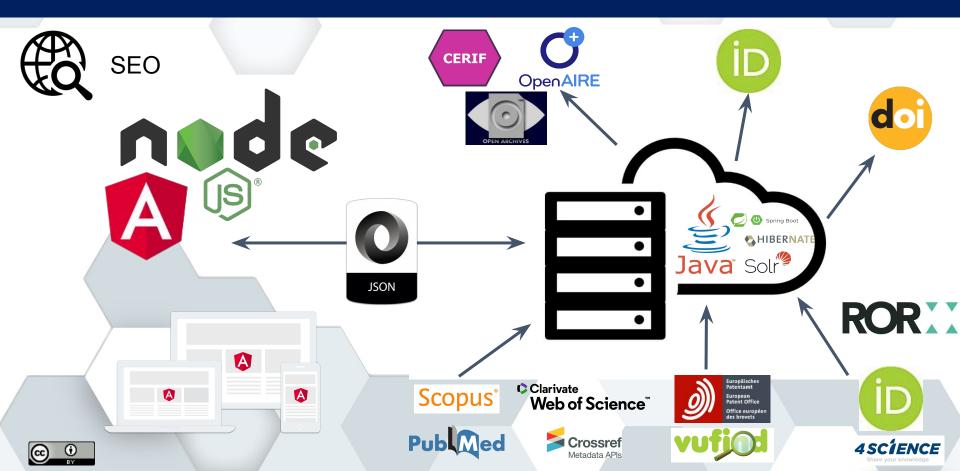
Modern UX, full REST API backend







### DSpace-CRIS 7: Modern, scalable, interoperable



# Synsicris challenges



Funder vs Institutional

Impact, Reuse, Dissemination vs reputation





Project design & monitoring **vs**"Simple reporting"



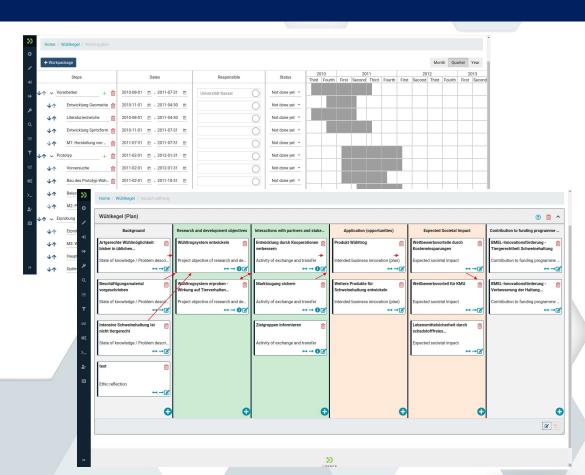


#### Synsicris challenges

#### Project centric

- New tools/features needed
- Additional entities
  (IPW, spinoff, ethics, ...)
- Planned and Result Entities
- Security and privacy implication







#### Contribution to mainstream

Improved handling of multi language: support for German and English is mandatory

Better UX: make easier to input data, hierarchical vocabularies, data validation, object scope

Offline Tool to simplify the entity configuration

Granular security in data access

Integration with European Patent Office







## Thank you for your attention!

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