

The INSYTE Cooley Laboratory

A Survey of Key Themes, Recent
Research and Future Directions



Centre for
Information Systems
and Technoculture



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

www.wit.ie/insyte

Who are we?

- INSYTE Centre for Information Systems and Technoculture - Est 2001
- Full PhD Programme est 2003, MSc Taught est 2007
- Smart Data and Cultural Heritage 2016... Cooley Lab est 2020 □



Inspiration for Lab Mike Cooley



Why do we exist?
To Honour Mike Cooley's Legacy



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The Cooley Lab: Context



**Somewhat related cartoon,
instead of twelve bullet points**

Till now...

1. Survey the tech

- Interoperability (metadata standards)
- Digitisation techniques
- Machine intelligence applications for semantics
- **New digital architecture**

Key message – some great tech out there, but

Doesn't fit comfortably together

The legacy trap - hard for archivists etc. to get real value



Till now... 2. Survey the methodologies

Uh oh!

development methods are pretty ropey!

No appreciation of the interplay between human and machine intelligence, TK under-valued.



Systems Development Themes: Reinventing the wheel

Systems Development Manifesto

Human-Centred Meta-method: Enricher

Revise Standards

Extend and Integrate KMS, M/C Intelligence and UX
Components

Towards our North Star

To name a few!

- **Digital Cultural Heritage “KM Value Chain”**
 - Acquisition, Capture, Store, Dissemination, Application, KM Learning Cycle
- **Technology:**
 - Deliver the Architecture: Expand the Tech beyond Semantics: e.g. Process Intelligence through FCM, Knowledge Graph integration, UX (Jena integration etc.)
 - Leadership on Standards
- **Methods:**
 - Operationalise and refine Enricher (e.g. QA)
- **The Lab as PAR**
- **Digital Humanities**
 - Deeper integration into the Educational Process (beyond computing)
 - Leveraging our HMS insights – e.g. “Human Ballast 2022”
 - ***D&I – digital culture at the margins e.g. Magdalene Laundries, LGBTQ+..***
....introducing Jennifer