

Research In Context at Utrecht University

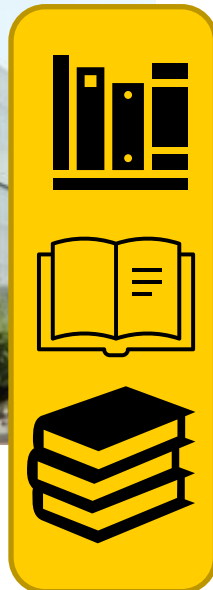
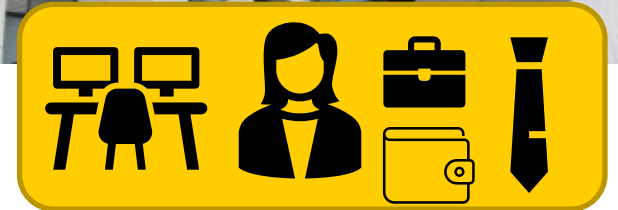
RINN Symposium June 27, 2024

 Felix Weijdema / f.p.weijdema@uu.nl / University Library

 Rik D.T. Janssen / r.d.t.janssen@uu.nl / IT Services

Research Intelligence at UU

- Library
- Corporate Offices
 - IT
 - Policy



Research Intelligence at UU



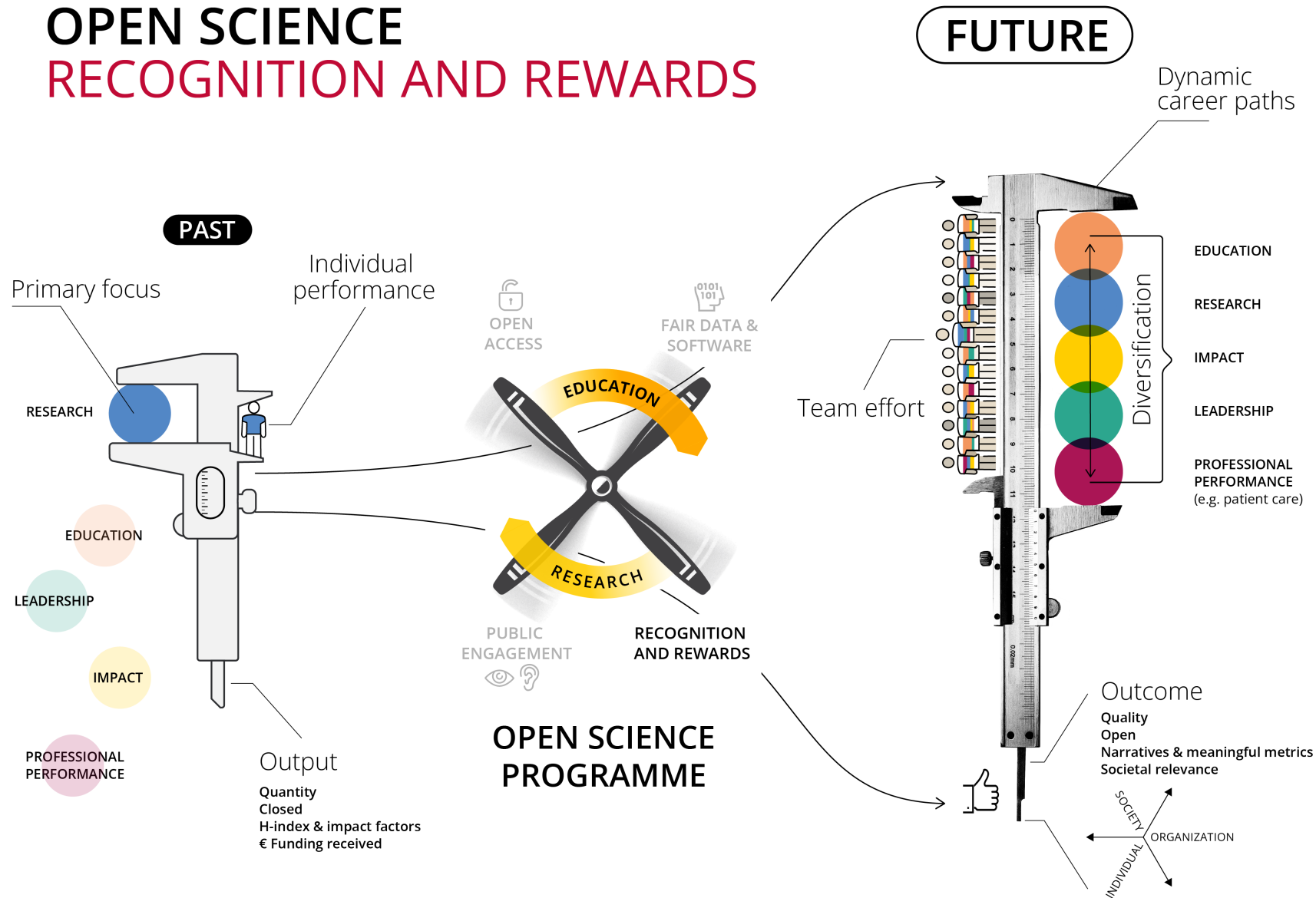
- No Research Intelligence department or group working on
- No licences for SciVal / InCites / Altmetric



- Corporate Offices
 - IT Services
 - Business Analytics
 - CRIS -> Pure
 - Research Policy & Evaluation
- University Library
 - Repository -> Dspace
 - Open Access monitoring
 - ...



OPEN SCIENCE RECOGNITION AND REWARDS



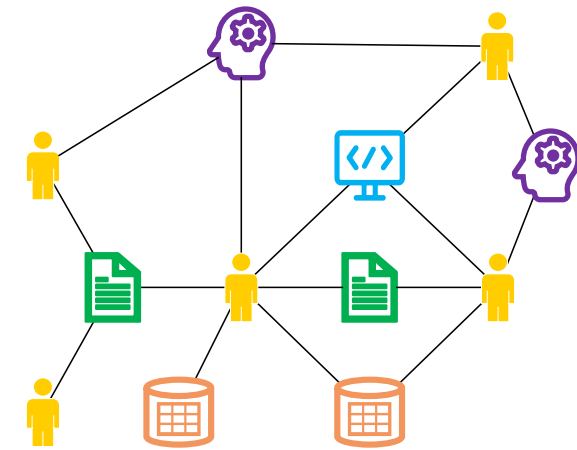
Now there's Ricgraph – a short introduction



What is Ricgraph?

Ricgraph, also known as Research in context graph, enables the exploration of researchers, teams, their results, collaborations, skills, projects, and the relations between these items.

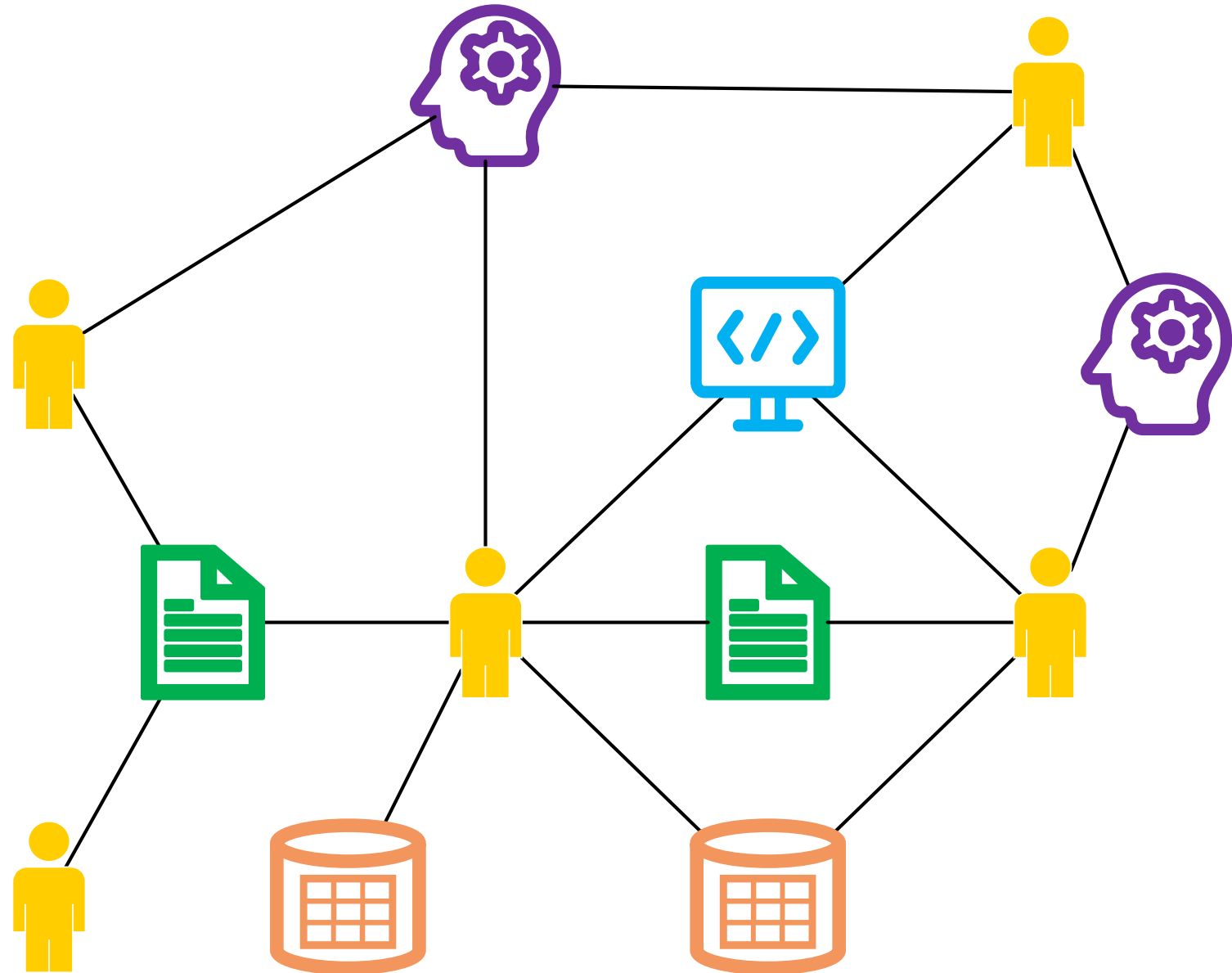
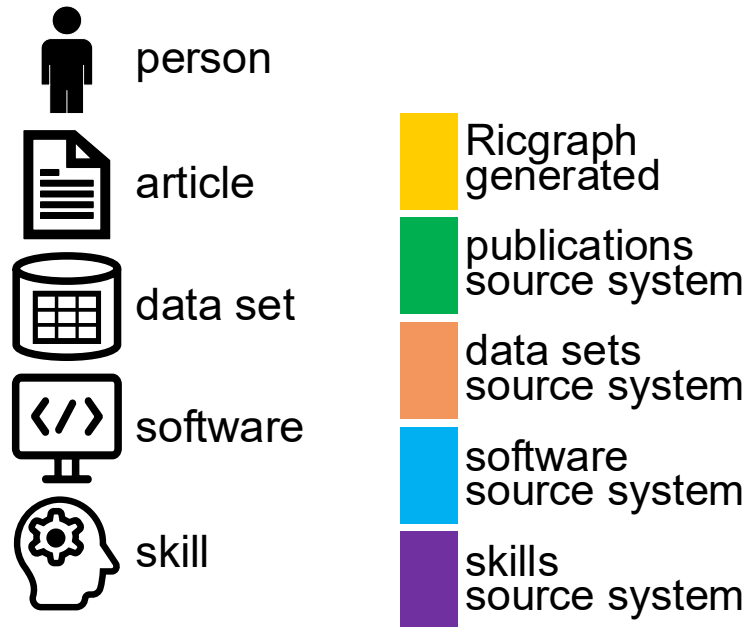
What is Ricgraph - Research in context graph?



- Ricgraph can store **many types of items** in a single graph
- It harvests **multiple source systems** into a single graph
- Ricgraph **facilitates reasoning** because it infers new relations between items
- Ricgraph Explorer is the **exploration tool**
- Ricgraph **can be tailored** for an application area

What is Ricgraph?

- many types of items in a single graph
- multiple source systems
- facilitates reasoning: infers new relations between items

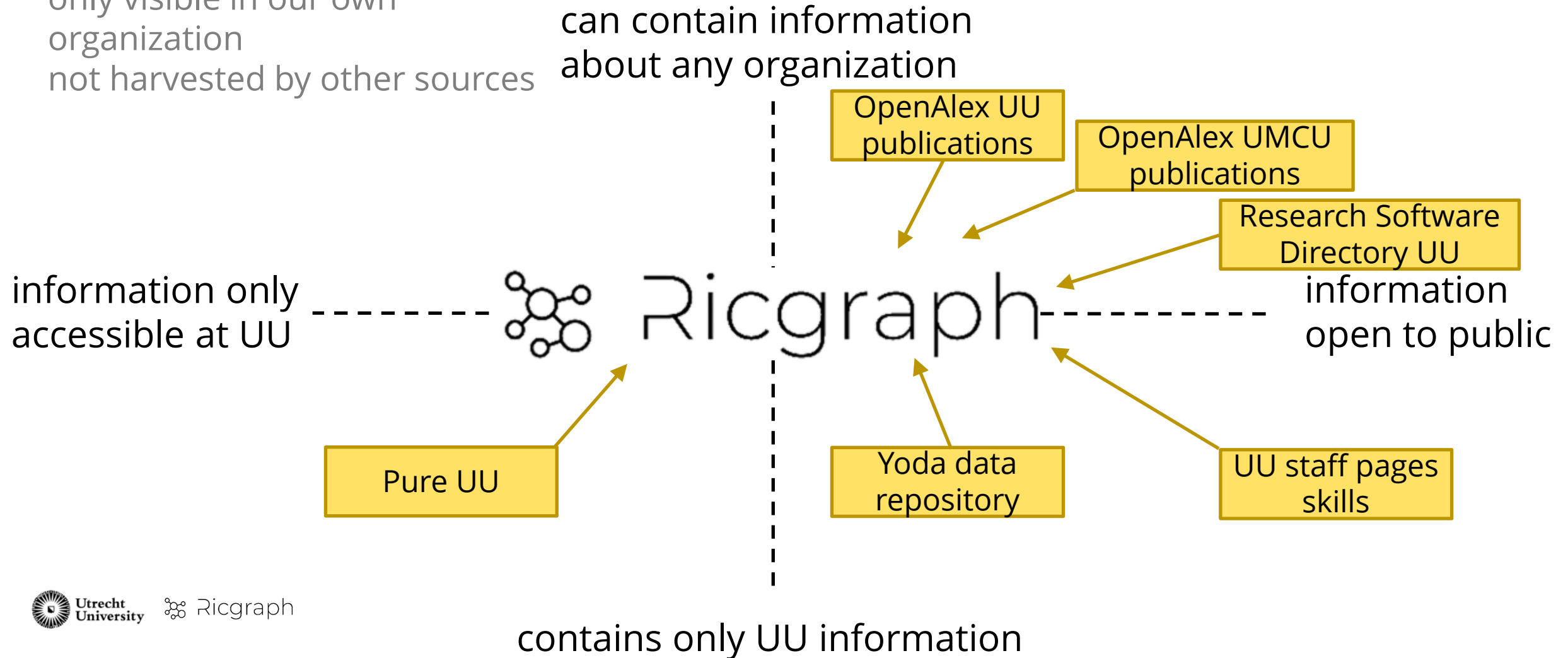


What if...

we can harvest any source we'd like?

We can collect information that is:

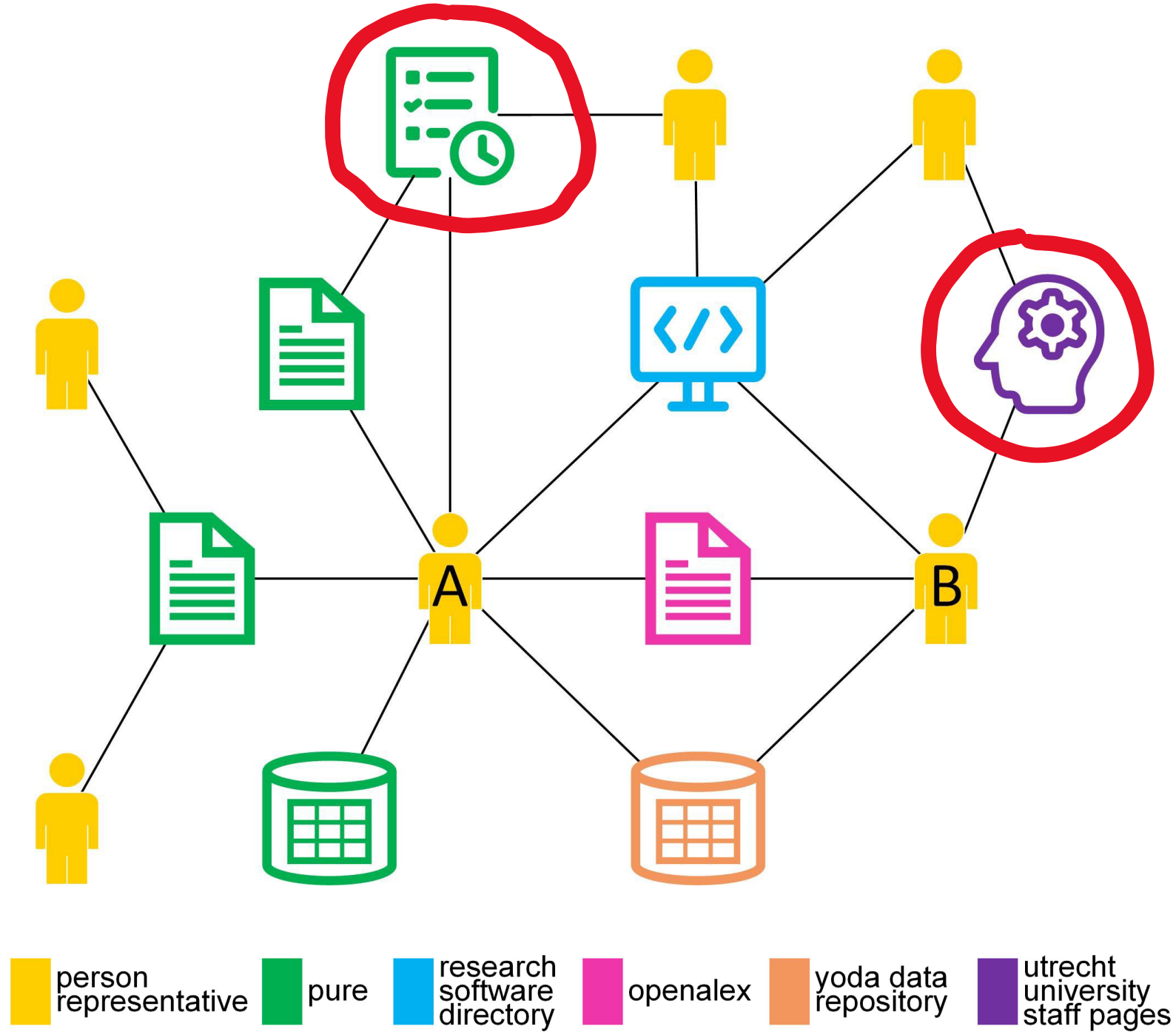
- from multiple organizations
- of specific interest (not more)
- only visible in our own organization
- not harvested by other sources



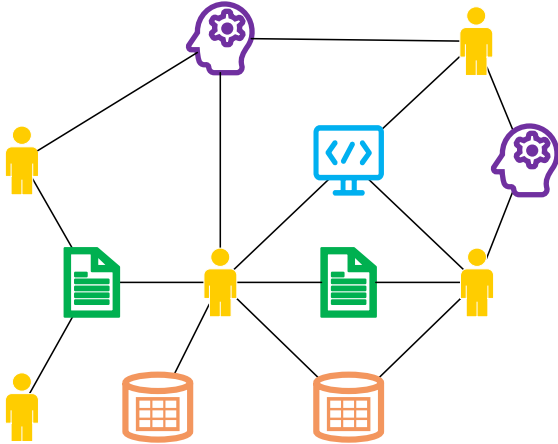
Add any entity you'd like

E.g. projects, skills

-  person
-  article
-  data set
-  software
-  skill
-  project



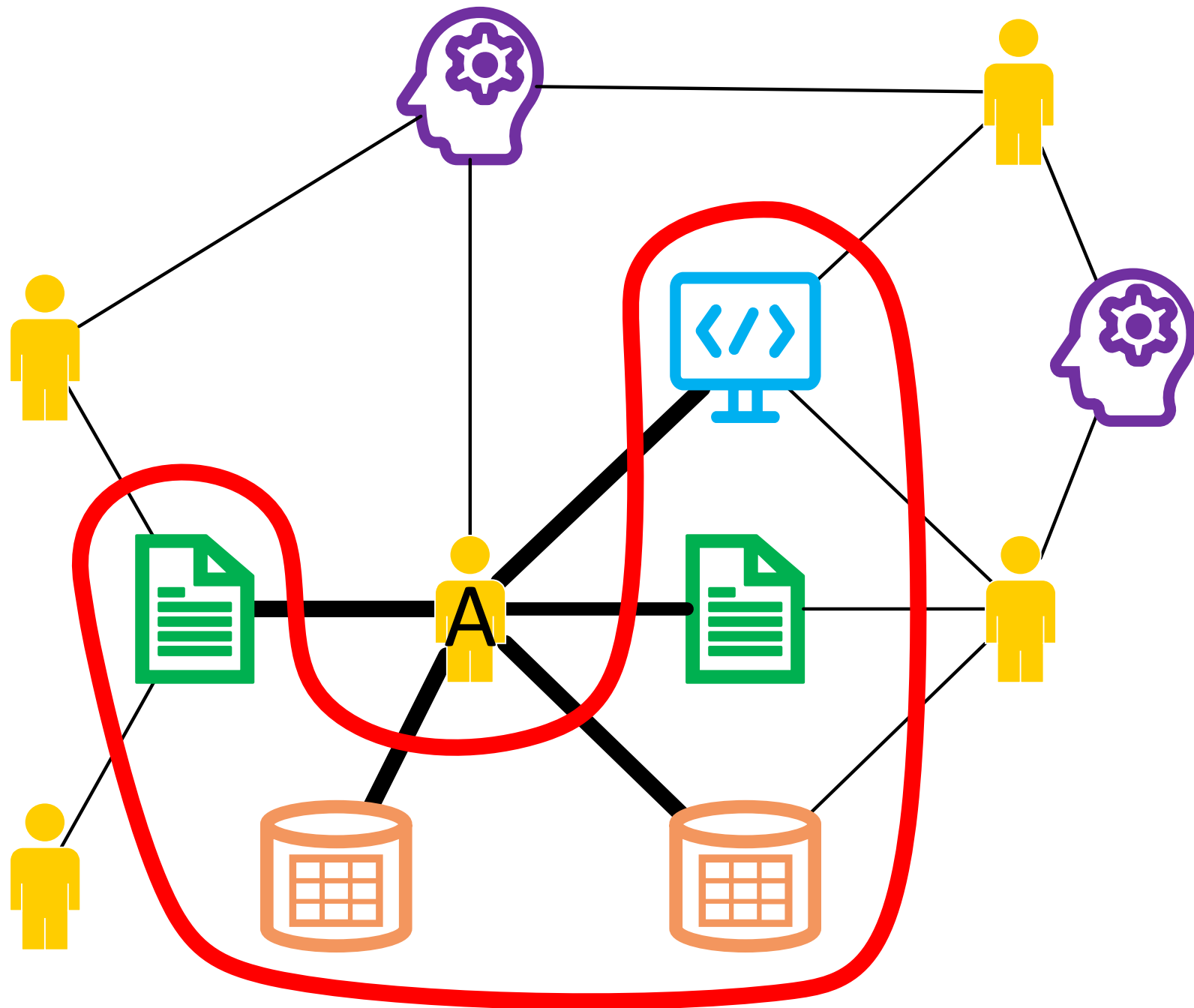
Information in typical sources



	persons	child orgs	pubs	research outputs		
				datasets	software	other
OpenAlex	√		√	√		
Pure	√	√	√	√	√	√
Research Software Directory	√				√	
UU staff pages	√					√
Yoda	√			√		

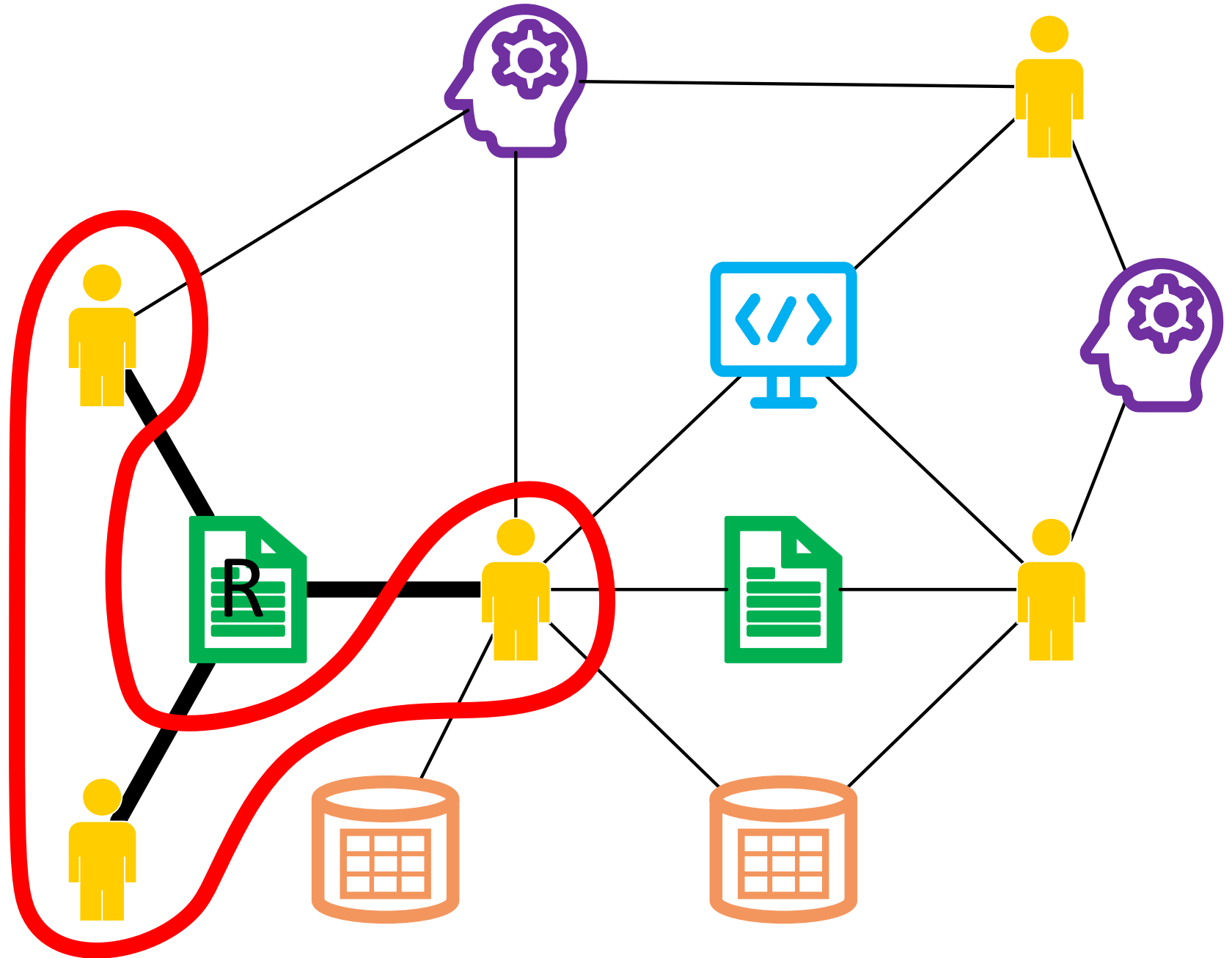
What can Ricgraph do?

What are the research outputs of person A?



What can Ricgraph do?

Who has contributed to research output R?





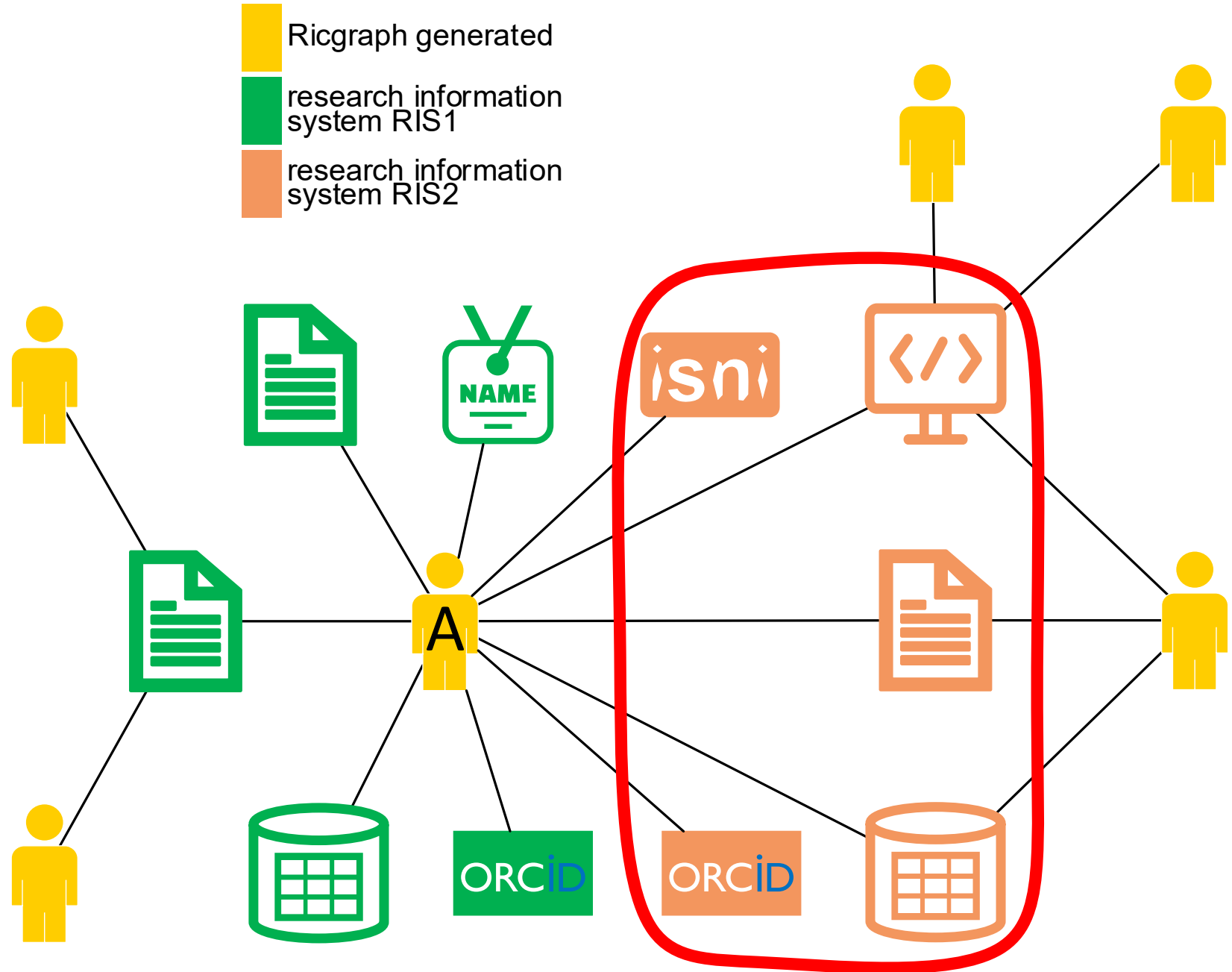
Ricgraph demo:
find people who contributed
to a publication



What can Ricgraph do?

Use case

As a **librarian**, for researcher A, I want to **enrich** my local **research information system RIS1** with identities and research results that are in other systems but not in ours, so that we have a **more complete** view of research at our university

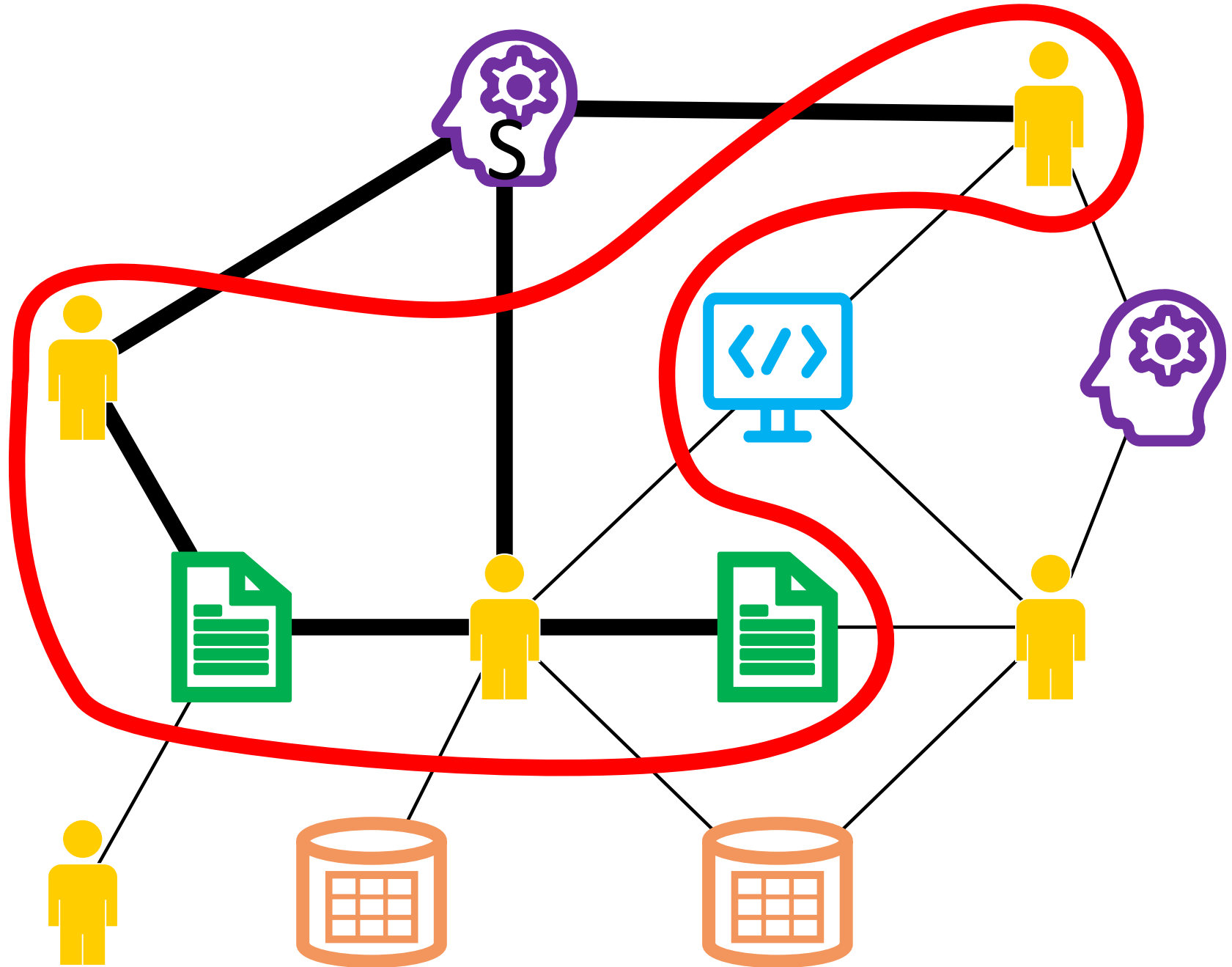


What can Ricgraph do?

Use case

As a **journalist**, I want to **find researchers** with **skill S** and their **publications**, so that I can interview them for a newspaper article

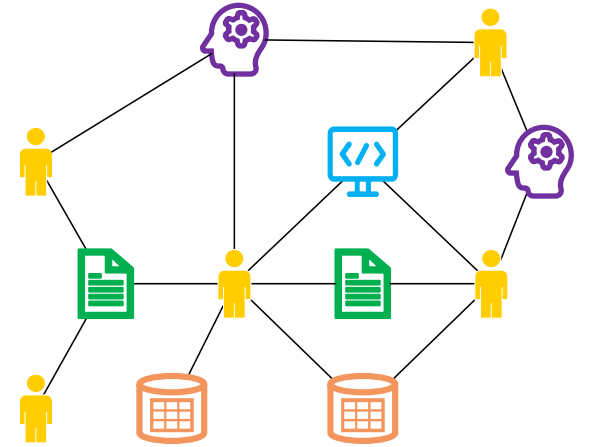
Example skill: climate change, stem cells



Some lessons learned

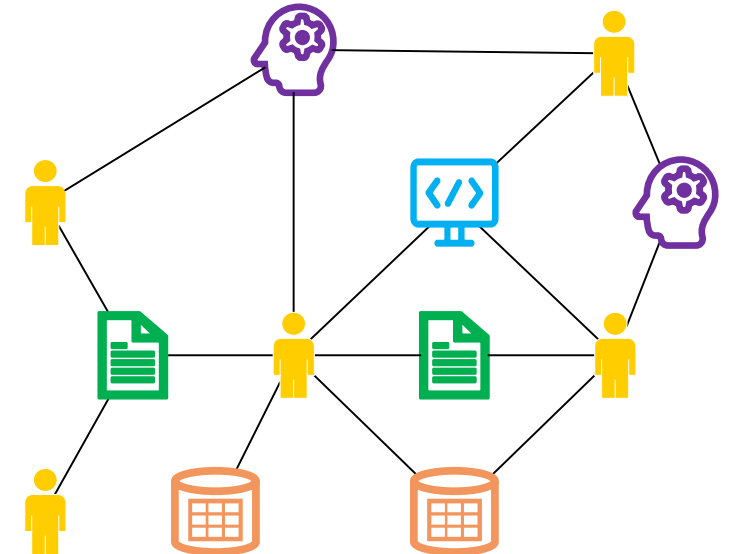
- Without identifiers we are nowhere
- We need to be able to resolve any identifier to any other
- I think only one preferred identifier will not work
- A graph is the way to go! 😊

You can install and use Ricgraph yourself!



Research Intelligence at UU – outlook

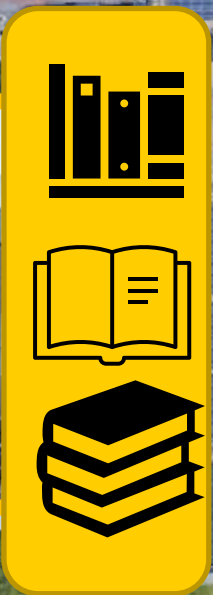
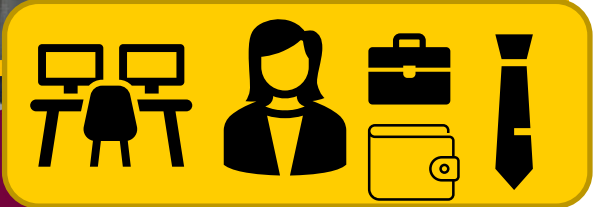
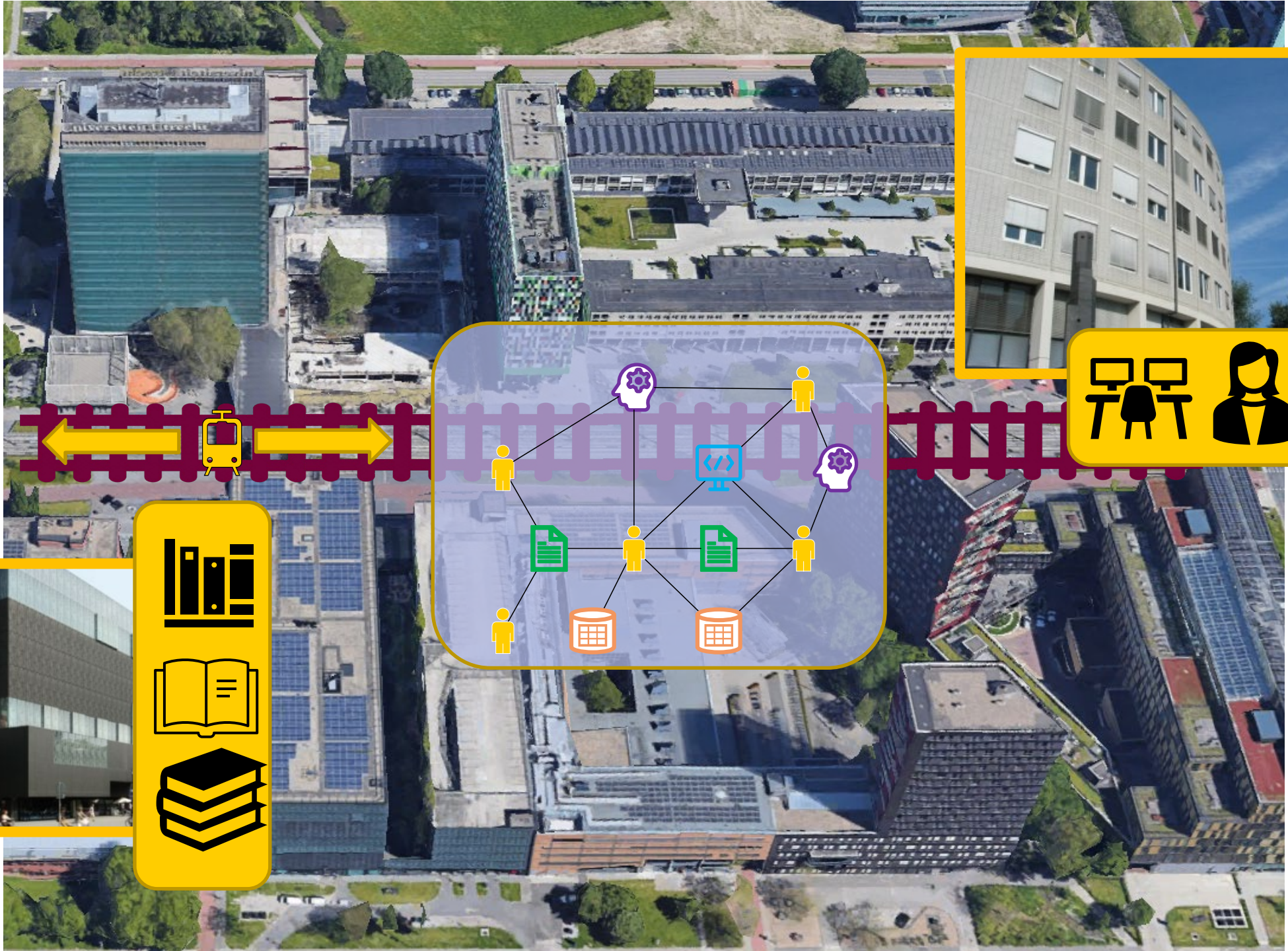
- Monitoring the diverse and open research landscape
 - Various types of output in various systems
 - FAIR data assessment (F-UJI)
 - Societal impact indicators
 - Pure Portal
-
- Hosting Ricgraph?
 - > Barcelona Declaration
 - > Data governance and control at UU



Research Intelligence at UU

- Library
- Corporate Offices
 - IT
 - Policy

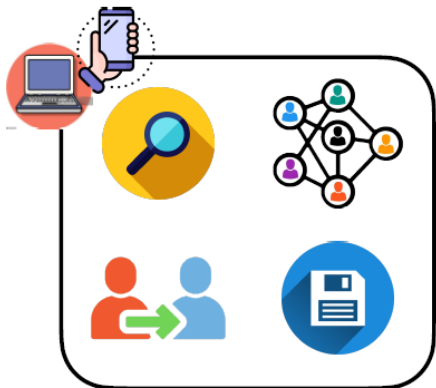




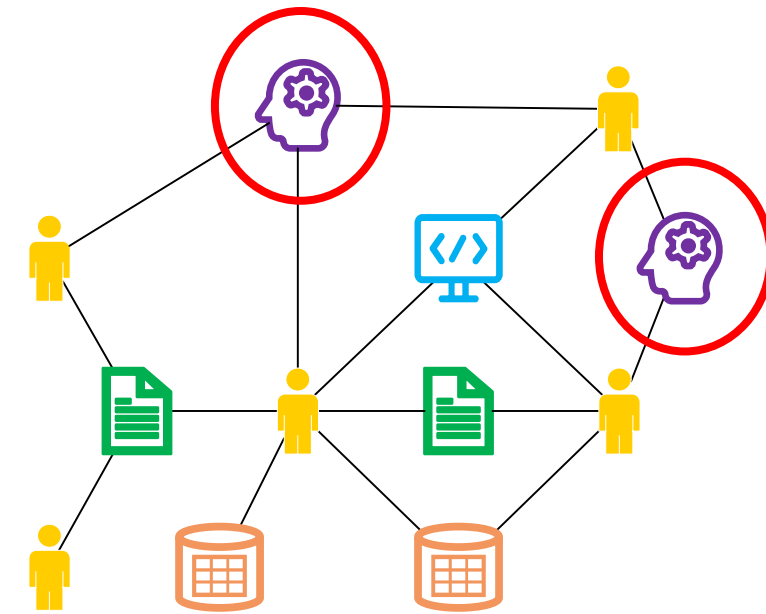
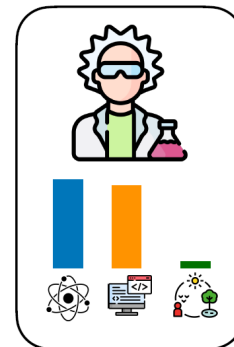
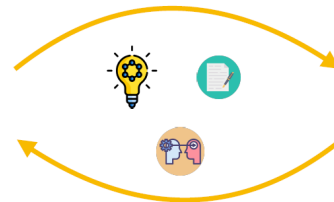
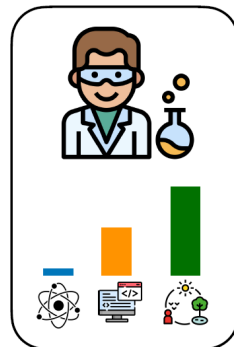
Connectome → Ricgraph → research skills



Synapses ultimate goal



Search, Find, Connect, Learn



Profile

Publications

Contact

Areas of expertise

Citizen science

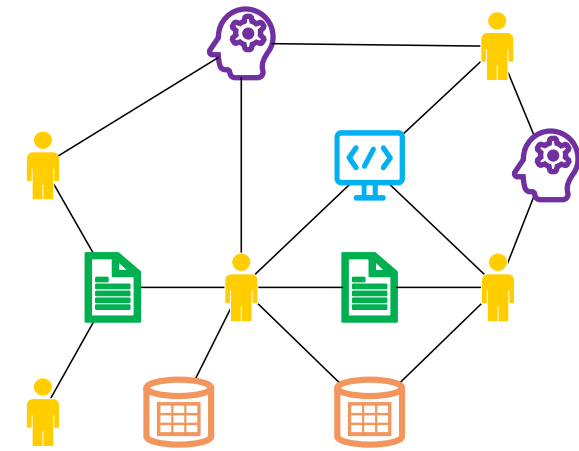
Skills

Public Engagement

Advice on the Application of IT in Research

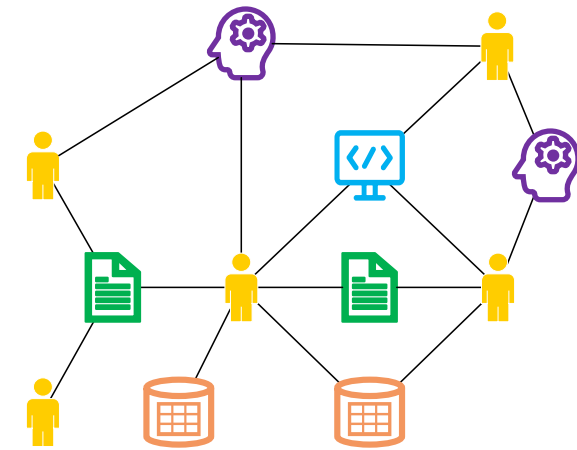
<https://www.uu.nl/staff/DTJanssen>

Questions?



Links

- Website: <https://www.ricgraph.eu/>
- GitHub: <https://github.com/UtrechtUniversity/ricgraph>
- Research Software Directory: <https://research-software-directory.org/software/ricgraph>
- Zenodo: <https://doi.org/10.5281/zenodo.7524314>
- Rik D.T. Janssen (2024). Ricgraph: A flexible and extensible graph to explore research in context from various systems. *SoftwareX*, 26, 101736. <https://doi.org/10.1016/j.softx.2024.101736>
- Preprint: Rik D.T. Janssen: A Flexible and Extensible Graph to Explore Research in Context from Various Systems. <https://doi.org/10.2139/ssrn.4712466>



More information, presentations, demos, install workshops:

- Rik D.T. Janssen, r.d.t.janssen@uu.nl



**Utrecht
University**

Sharing science,
shaping tomorrow