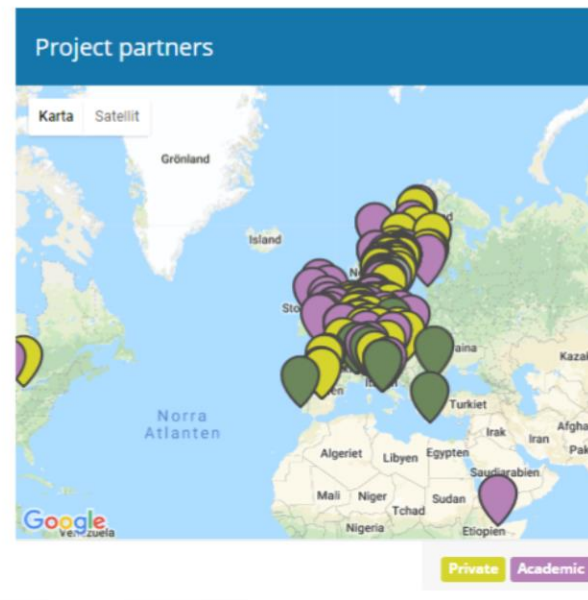
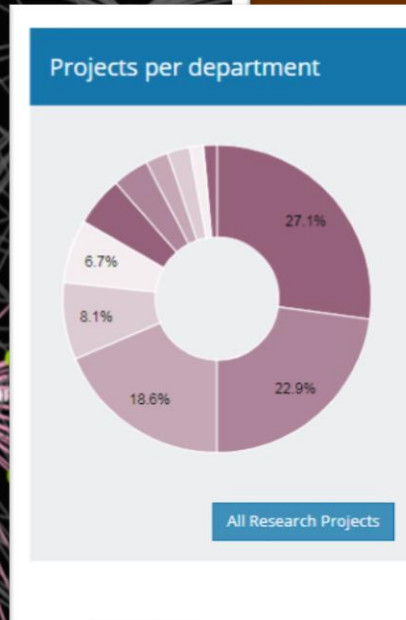
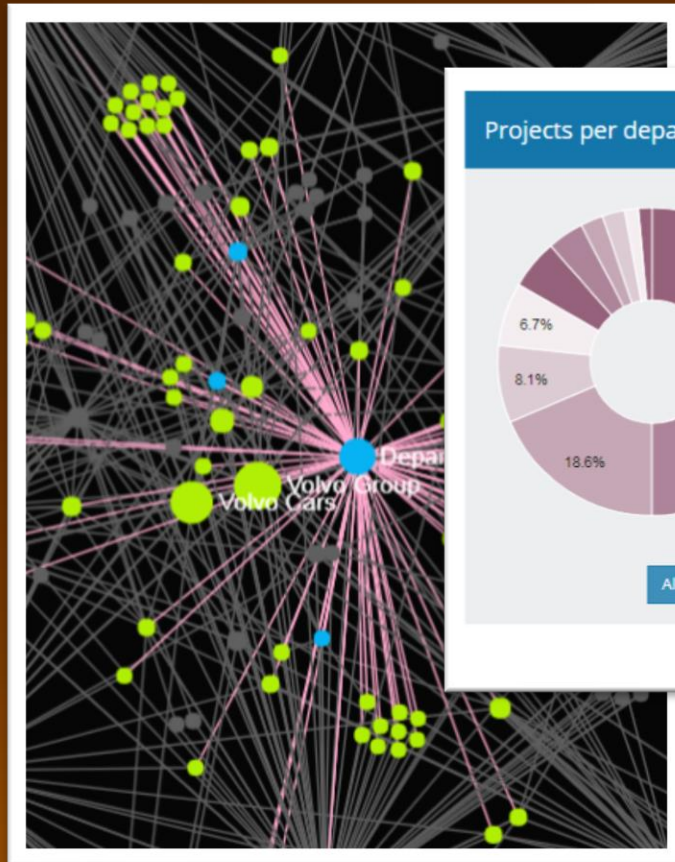


research.chalmers.se



RESEARCH-TEST | chalmers.se

CHALMERS RESEARCH (T)

RESEARCH INFORMATION

In research.chalmers.se you find information about research at Chalmers, projects, persons and publications. You can filter your search by organisation, funder, geographical data, people and collaborations.

FIND CHALMERS RESEARCH

Projects, publications, persons, organisations... Search

RESEARCH PUBLICATIONS

Researchers at Chalmers publish their results in a number of scientific journals, in the press and at conferences.

All Research Publications

RESEARCH PROJECTS

Researchers at Chalmers work in projects that explore everything from more effective wind turbines to super heavy black holes in space.

All Research Projects

SUSTAINABLE DEVELOPMENT

Chalmers is a pioneer in regards to how a university can take on, work with and take responsibility for sustainable development.

Sustainable Development

Research in Departments

- Architecture and Civil Engineering
- Biology and Biological Engineering
- Chemistry and Chemical Engineering
- Communication and Learning in Science
- Computer Science and Engineering
- Electrical Engineering
- Industrial and Materials Engineering
- Mathematical Sciences
- Mechanics and Maritime Sciences
- Microtechnology and Nanoscience (MCS)
- Physics
- Space, Earth and Environment
- Technology, Management and Economics

Research within Areas of Advance

- Building Futures
- Energy
- Information and Communication Technology
- Life Sciences and Engineering
- Materials Science
- Nanoscience and Nanotechnology 2010-2017
- Production
- Transport

International cooperation

A world map showing international cooperation. The map includes labels for 'Karta', 'Satellit', 'Google', and 'Karta 2014'. The map also shows 'Norra Atlanten' and 'Google'. A legend at the bottom indicates 'Private' (yellow) and 'Academic' (purple).

How to build a repository relevant for your institution, allowing the researchers to do research rather than administration

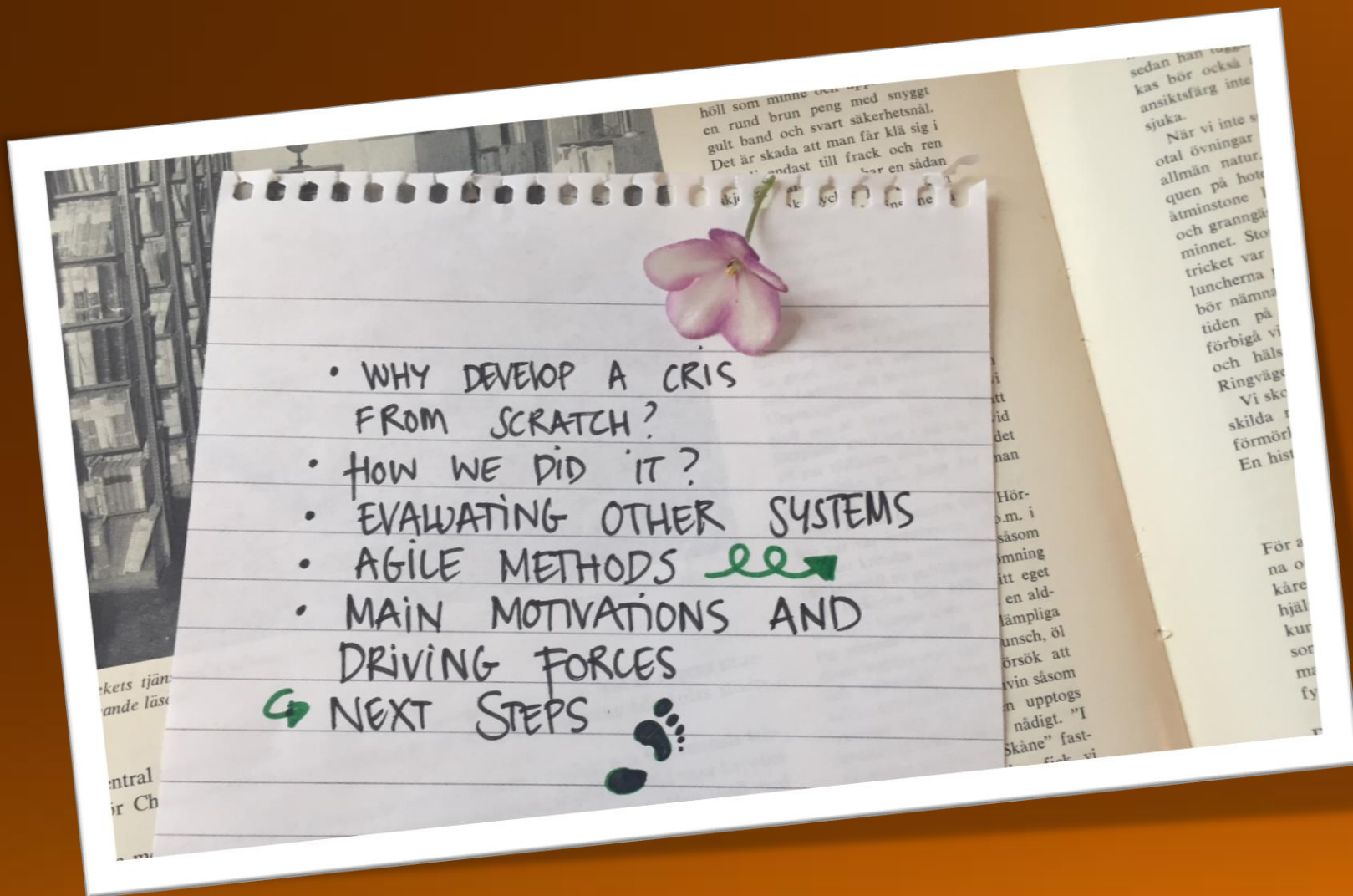
Jessica Lindholm




Chalmers University of Technology, Sweden

How to build a repository relevant for
your institution
research rather than
administrative

..OR THE STORY
OF WHY WE
CHOSE TO
DEVELOP A CRIS
IN-HOUSE!

Jessica Lindholm
Chalmers University of Technology, Sweden



- WHY DEVELOP A CRIS FROM SCRATCH?
- HOW WE DID IT?
- EVALUATING OTHER SYSTEMS
- AGILE METHODS 
- MAIN MOTIVATIONS AND DRIVING FORCES
-  NEXT STEPS 

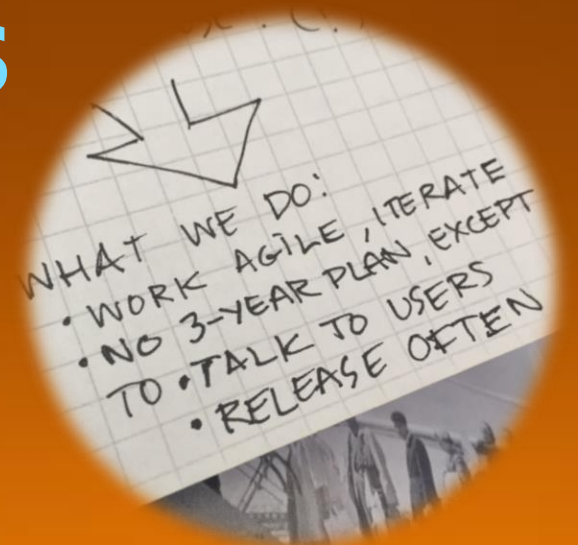
Assignment

**Create a research
information system
(projects first)**

for Chalmers University of Technology
and possibly others as well

The team

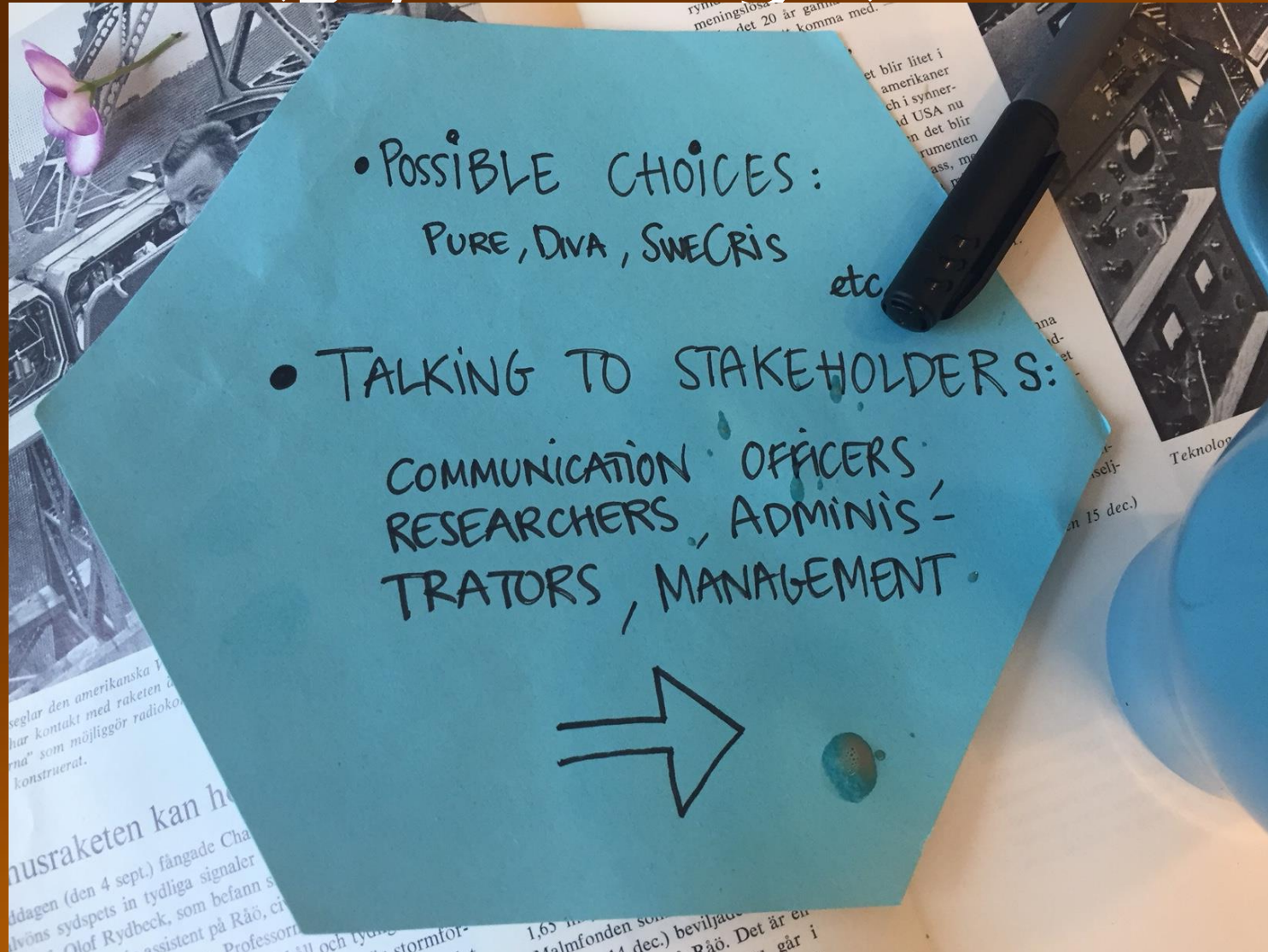
UX expertise, librarians and
systems developers



Roles in the dev team



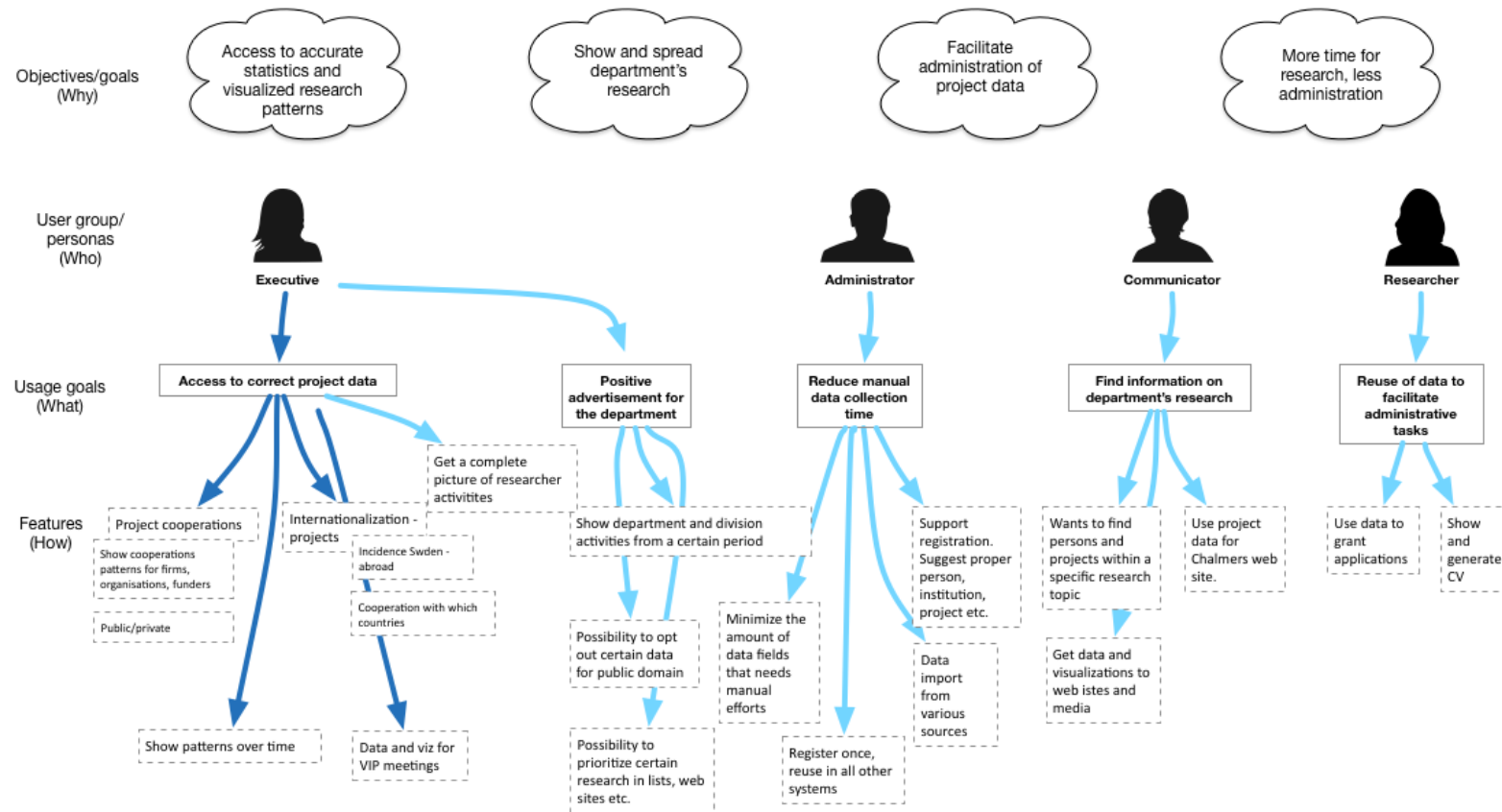
Initial work (5 years ago)



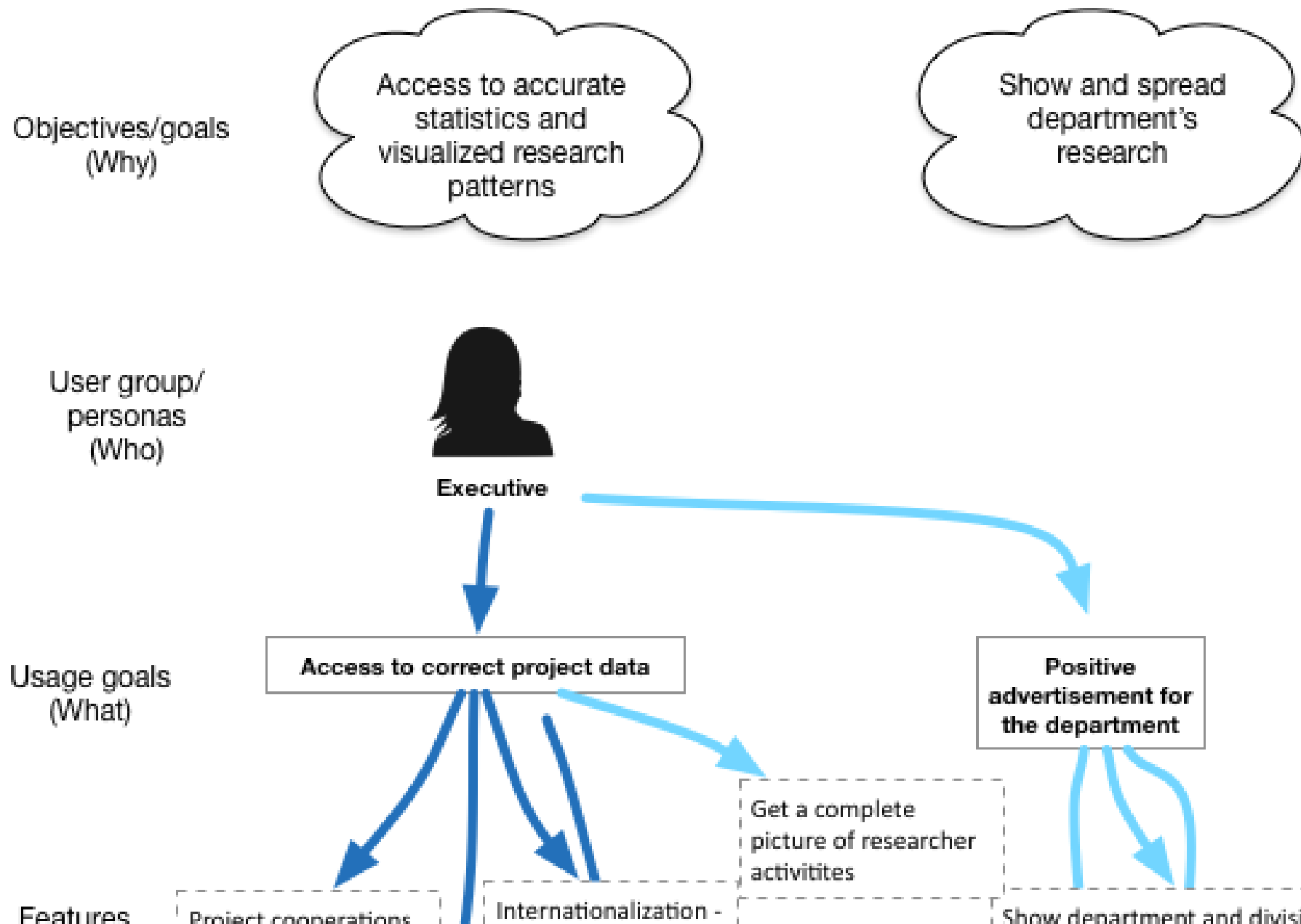
Input from stakeholders

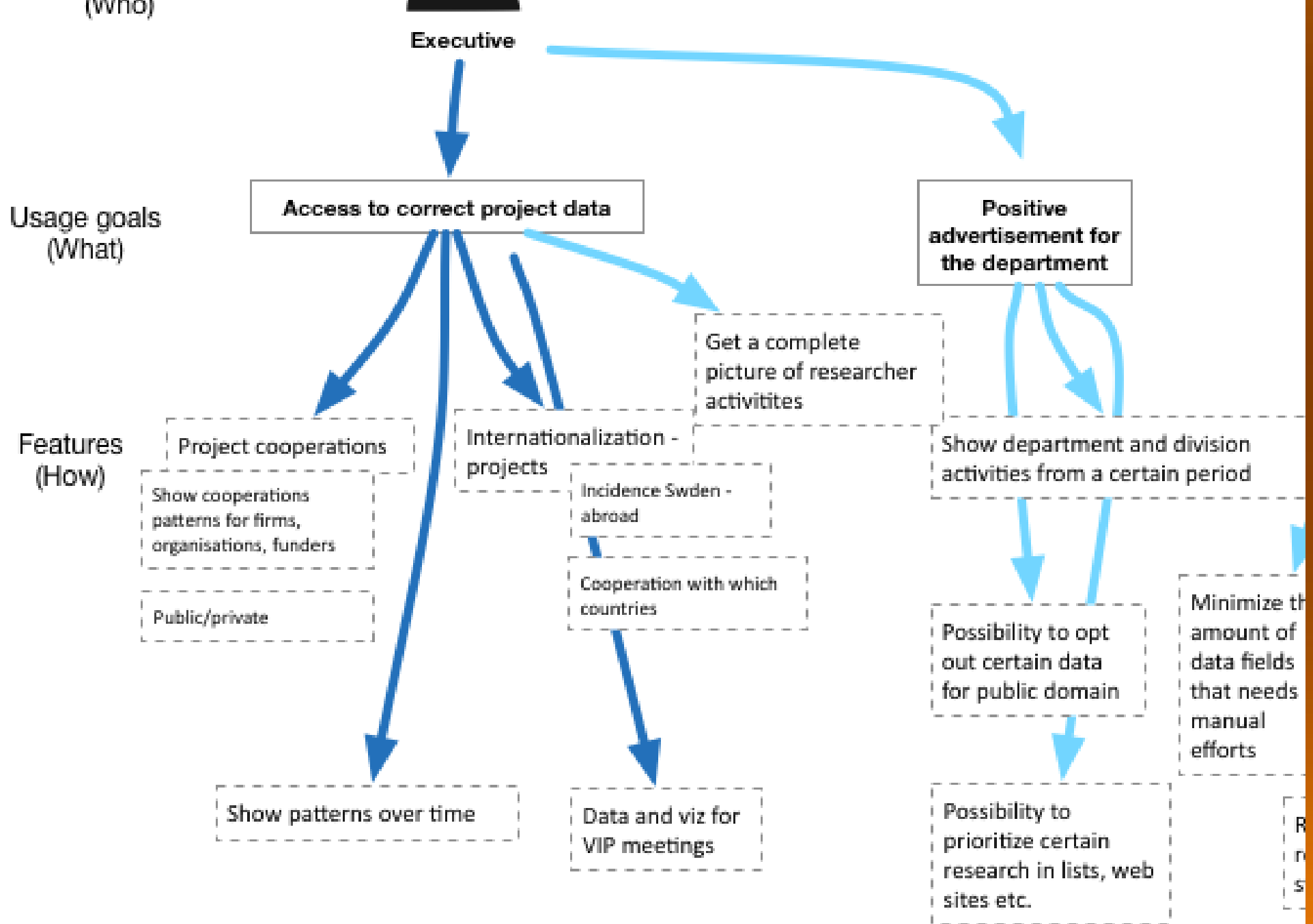
Example method for user input

Effect map research.chalmers.se



13 May 18 2015





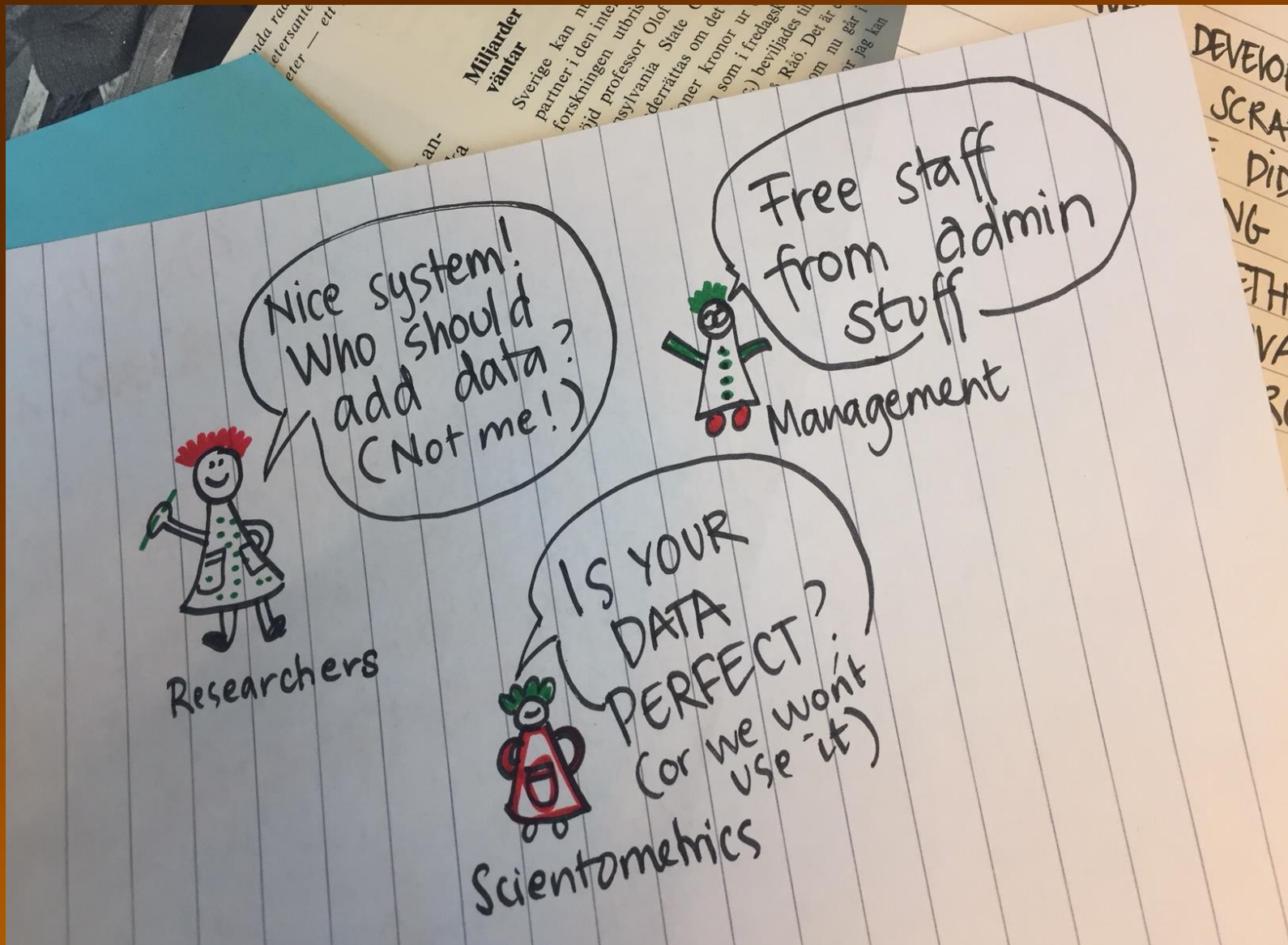
Librarians' perspectives

- Publication oriented
- Integrations with ORCID
- A way to use altmetrics
- Interoperability with national data providers, discovery systems, OPACs
- Advanced search end-user interfaces

Researchers' perspectives

- Visualize all our collaborations, e.g. with the industry
- Save our time
- Support scientometric analyses, show impact
- Integration with Google Scholar, ResearchGate etc.

Perspectives on administration



**Was there a system for
these needs?**

**Was there a system for
these needs?**

Not at that time!

What did you do?

What did you do?

**We started from scratch,
doing one thing at a time.**

How did it go?

How did it go?
I'll tell you now!

Release roadmap 2013-

2014

2015

2016

2017

2018

2019

Studies

Needs/UX
Inspiration

Collaborations

Project database

Persons

Visualisations

Theses

Semi-automated
classification

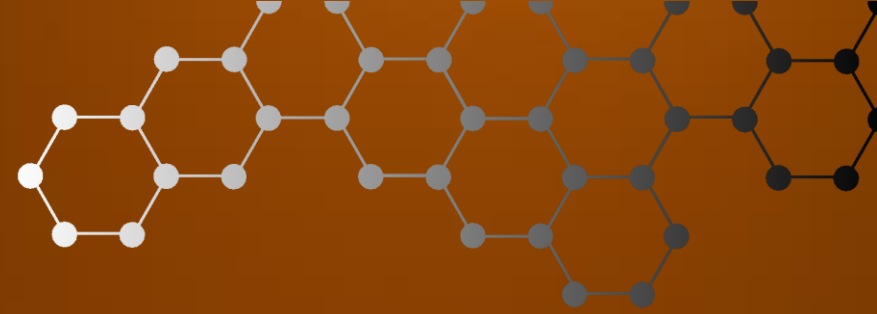
Institutional repository

Research da

Activitie

Impact stor

research.chalmers.se



Projects

- Visualising project information, cooperations and collaborations.
- Work flow



Import
Chalmers
contract
database



Metadata
enhancement
The library



Data validation
Project participants

Visible for staff.

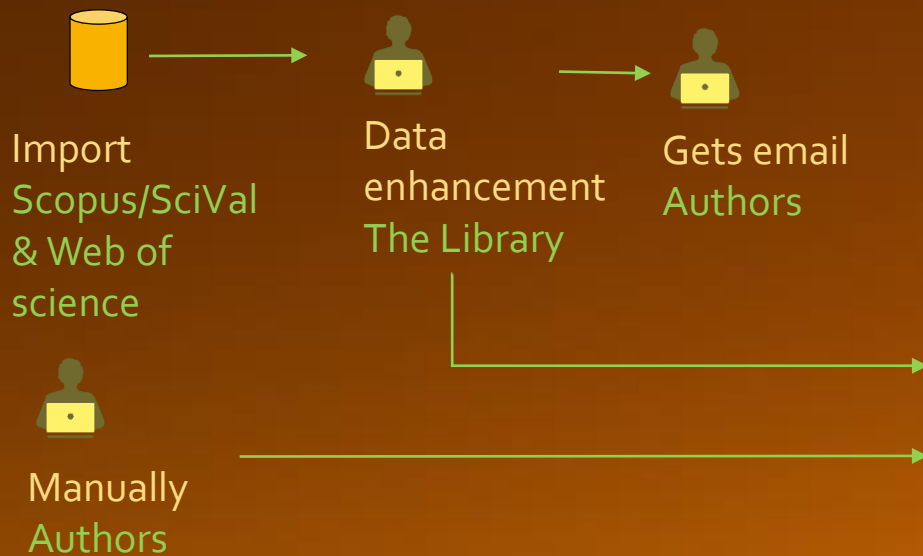


Once validated
visible on the web
and via API:s etc.

* research.chalmers.se contains
~3 400 projects (2019-06-07)

Publications

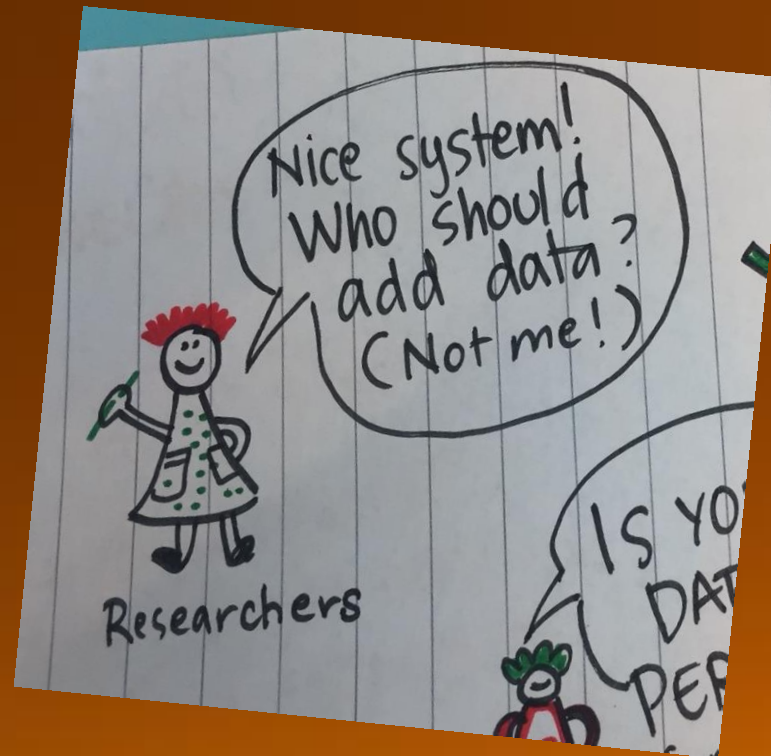
- Visualising co-authoring and collaborations, loads of identifiers.
- Work flow



Visible on the web
and via API:s etc

* research.chalmers.se contains
~70 000 publications (2019-06-07)

User needs



Data in and out

- Automatic import of publications from Scopus and Web of Science
- Prefilled forms for local authors (based on ISBN-orders)
- Automatic classification, based on abstract and publication channel, based on a text mining tool and data learning
- Projects come in from contractual database (Eko), initially also from Cordis and SweCris
- Person data from staff database and ORCID.org
- Data is exported to CMS, reference systems, the web (Google, Baidu, Yandex, etc), metrics database etc.

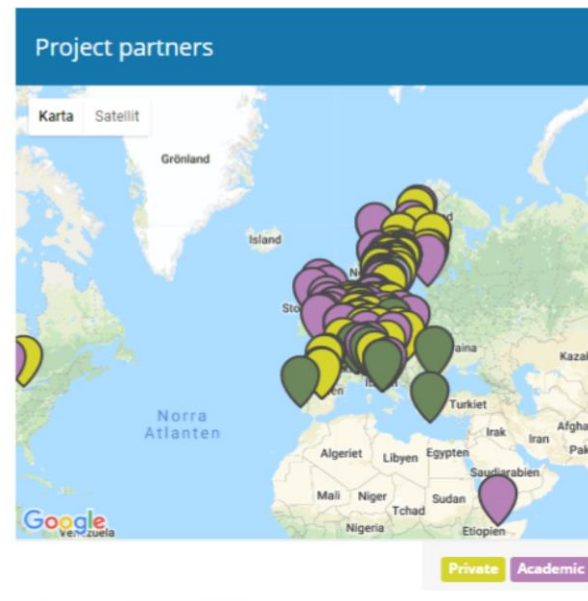
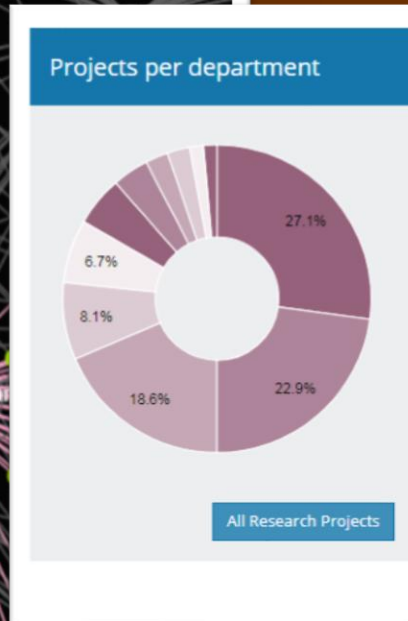
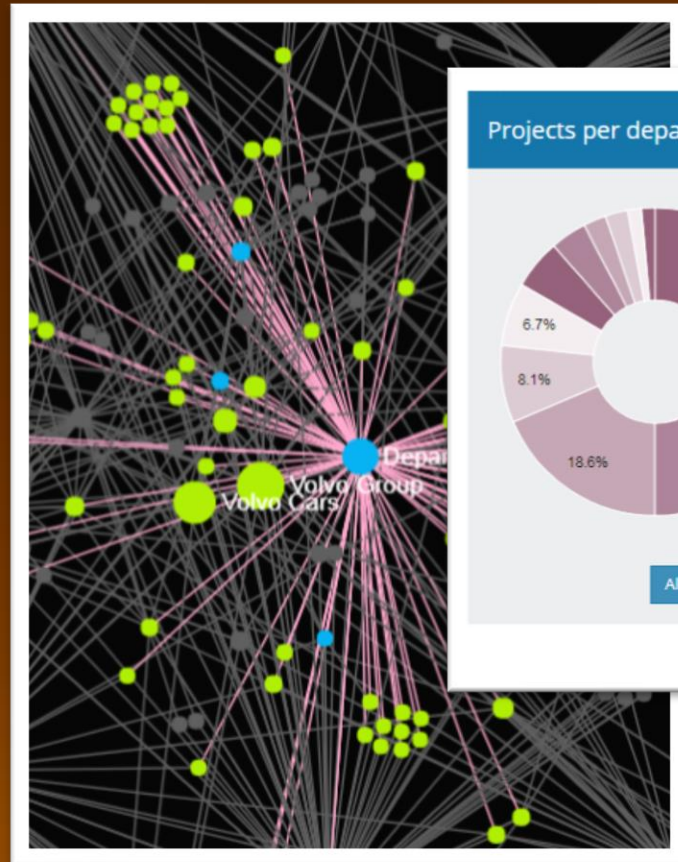
User needs



Helping administrators

- Automatic classification of publications
- Automatic ISBN-ordering
- Tools for mergeing and administering duplicates
- Easy-to-use interfaces
- Less metadata fields than before

User reactions



RESEARCH-TEST | chalmers.se På svenska Log in

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- Production
- Transport

International cooperation

A world map showing international cooperation with markers and numbers. The map includes labels for 'Karta', 'Satellit', and various regions like 'Norra Atlanten', 'Södra Atlanten', 'Stilla havet', and 'Indiska oceanen'. The Google logo is visible in the bottom left.

How to build
your ins
research
administr

Jessica Lindholm a
Chalmers University

06-08

BEFORE:

"I set aside a day and
warn my colleagues
before adding this
years' publications"

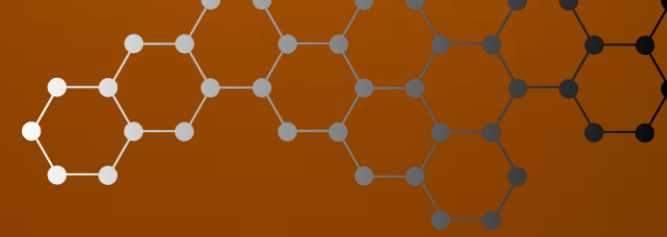
NOW:

Research is "the first
administrative system,
which is fun to use"

"This is a goldmine."

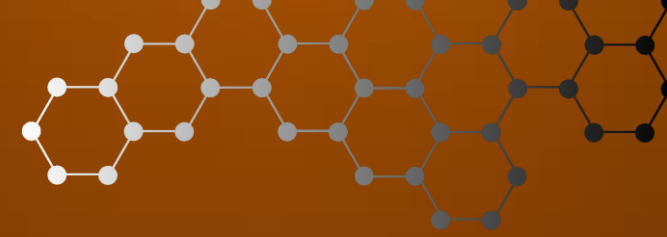
"A leap forward in
usability"

Lessons learned



- ✓ Let the developers choose the technology
- ✓ Talk to the users about what they need and show them stuff
- ✓ Do not plan years ahead, solve what is needed and creates value for the users now
- ✓ Work in iterations, i.e. release small things often
- ✓ Prioritise - do one thing at a time
- ✓ Dare to fail

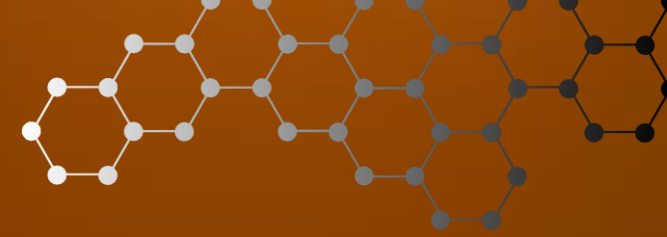
Lessons learned



- ✓ Prepare to adapt quickly to changes, since the world is moving fast
- ✓ Try your hypotheses with real users
- ✓ Requirements come to you as you develop
- ✓ Every busy researcher still seem to have 15 minutes for a meeting, when asked nicely.



Lessons learned



- ✓ Prepare to adapt quickly to changes, since the world is moving fast
- ✓ Try your hypotheses with real users
- ✓ Requirements come to you as you develop
- ✓ Every busy researcher still seem to have 15 minutes for a meeting, when asked nicely.



visit / use ↗

research.chalmers.se

The screenshot shows the homepage of the Chalmers Research website. At the top, there is a navigation bar with the URL 'RESEARCH-TEST.chalmers.se', a language selector for 'På svenska', and a 'Log in' button. The main header features the text 'CHALMERS RESEARCH (T) RESEARCH INFORMATION' and a brief description of the site's purpose. Below this is a search bar with the placeholder text 'Projects, publications, persons, organisations...' and a 'Search' button. The page is divided into three main content areas: 'RESEARCH PUBLICATIONS', 'RESEARCH PROJECTS', and 'SUSTAINABLE DEVELOPMENT'. Each area includes a representative image and a short text description. At the bottom of the page, there are two columns of links: 'Research in Departments' and 'Research within Areas of Advance'. The 'International cooperation' section at the very bottom features a world map with various countries highlighted in purple and blue, indicating global research partnerships.

Ask / email ↗

jessica.lindholm@chalmers.se

Open source software?
Yes, when we are done.

