

**It was twenty years ago today
Sgt. Pepper taught the band to play**

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Aalborg University went into production with the first commercial CRIS system worldwide

360° review of a CRIS environment

A case study from Aalborg University

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Dubrovnik May 13th. 2022

About AT-CRIS



Founded in 2016, 100% independent and autonomous owner-led company

- We support Universities, Research Organisations, Product Providers
- + 30 customers in Germany, Denmark, Netherlands, Austria, Thailand, South Africa.
- Consulting and implementation partner for CRIS, Campus, PhD, LMS systems and more.
- Operational experience in sales, implementation & development within the product environment for CRIS systems. Work experience as scientists & science managers in universities, universities of applied sciences & extramural research institutions
- 13 employees: 11 in Germany + 2 in Denmark

What is a 360°CRIS review

The 360°CRIS Review helps you identify potential rough edges in your use cases, services, and business processes.

We look into optimisations and unused system potential.

We make impact analyses of changes in the research environment (e.g. new mandates, Open Science, assessments, statutory returns, budget cuts).

We pay attention to user onboarding, training and satisfaction.

We check out hosting, system upgrades and your IT infrastructure.

We assess your data quality and data security matters.

We help you to prioritise your plans and consolidate the vision & value for your CRIS within the institution.



360°CRIS REVIEW

Benefits & outcomes

- ✓ Optimise your CRIS operation
- ✓ Stakeholder management
- ✓ Resource allocation
- ✓ Roadmap planning
- ✓ Process adjustments
- ✓ Identifying gaps to be closed

*Timespan **6 weeks**, Fixed price*

2. Collecting documentation & content usage

1. Survey & Kick-off meeting



3. Interviewing stakeholders

- A. Bird's eye view
- B. Digging into the details
- C. Data collection & governance
- D. Operating the CRIS

4. Presentation of findings and recommendations

Activities – 360°CRIS review

Activities	Customer involvement	Involved stakeholders
Contract and NDA sign off		CRIS owner & AT-CRIS
1. Kick-off meeting Introduction of the service and different components. Set expectations and workload. Appoint stakeholders to be involved. Schedule interviews and project time line.	1 hour online	All
2. Collecting documentation about the CRIS Hand over materials (internal presentations, future plans, common reports, integrations, IT infrastructure diagrams, DPA, internal audits, etc).	2 hours offline	CRIS administrator
3. Content usage – Report from CRIS Total amount/Created last 12 month/updated last 12 month.	2 hours offline	System librarian/ Data steward
Preparation of the interviews based on the collected material and content usage		AT-CRIS
4. Bird's eye view High-level interview to get an overview of usage, supported use cases in the system, business processes, services provided, what is good/bad, and future plans.	2 hours online	CRIS owner
5. Digging into the details Interview on detailed use case and business processes	3 hours online	CRIS administrator
6. Data collection & governance Interview on how data is added and used in the system, Integrations, Data security and protection	2 hours online	System librarian/ Data steward
7. Operating the CRIS Interview on infrastructure, technical issues, support, training	2 hours online	CRIS administrator/IT responsible
Preparation of the report		AT-CRIS
8. Presentation of preliminary results	1 hour online	CRIS owner
Amendments and revisions		AT-CRIS
9. Final presentation of findings and recommendations + Written report, including interview protocols and recordings of underlying findings	2 hours on site	All

STATUS, last 12 months

The CRIS system is well driven at Aalborg University. They have been using Pure for 20 years.

Pure team: 7 FTEs

System owner: The university library

Data in Pure is used in two main efforts*

1. Knowledge Sharing

2. Analysis and Bibliometrics

Pure is an established system both within dissemination and for decision support.

But there is still gaps in terms of communicating the potential of Pure, especially at the institute and research group level.

Data quality

Data quality is generally high, but a definition of data quality does not yet exist.

Data security

There are no problems or concerns regarding data security. DPA is in place.

Data coverage

For certain content types, e.g. persons, org. units, publications, student projects, PhD theses, the coverage is largely complete.

Other content types that have not been in focus, e.g. datasets, applications and grants, the coverage is low.

Integrations into Pure

Pure integrates with the following source systems:

- PDS (Internal HR)
- BFI*
- Sherpa Romeo
- Scopus
- Scival
- PlumX
- ORCID
- Infomedia
- Data Monitor (Elsevier)
- Digital Eksamen
- PubMed
- Bibliotek.dk
- Espacenet
- EBSCOhost

Help and support

There is a comprehensive e-mail support as well as a large number of guidance web pages on how to use Pure.

In addition, a number of courses are held, although not very well attended, with the exception courses for Ph.D. students.

Hosting and system infrastructure

Pure is hosted locally with a staging and production server. The Pure Portal hosted on Amazon Cloud. Service agreement with Elsevier regarding upgrades. The software is fully updated and the library usually orders the latest version shortly after it has been released.

Individuals are being synchronized with data from PDS, which is being phased out. Work started for replacement of the PDS integration.

**) BFI, the Danish research assessment was cancelled in dec. 2021 and is therefore no longer a priority.*

STATUS, last 12 months

Decision support

Report	Presentation format	No. of yearly reports
Annual report	MS Sway/Power BI	1
SRFI report (Strategic Council for Research and Innovation)	PowerPoint	1
Reports for institutes	PowerPoint	17
Reports for research groups	MS Sway/Power BI	17* (260)
Reporting support for Medical Library	Excel, Power BI	
Reporting support for accreditation reports	Excel	Ca. 2
Ad-hoc reporting	Excel, Power BI, PowerPoint	A lot

* All these reports are provided at departmental level.

There are 213 research groups and 47 sections under departments.

Knowledge sharing

Channels controlled by the Pure team

Pure research portal

The Digital Pro
projects)

Annual report

Status 2020 (M

Stories 2020 (

VBN themes (

VBN analytics

Info screens in

Info screens w
(Morresier)

Annual printe

> 260.000 Monthly pageviews

External use of Pure data

AAU Connect (Mobile app)

AAU CMS



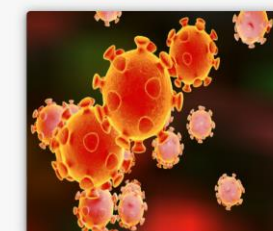
STATISTICS AND ANALYSES
Explore various statistics and analyses about data from VBN and Pure, visualized in MS Power BI
[Analysis](#)



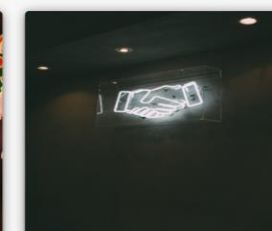
UN SUSTAINABLE DEVELOPMENT GOALS
Explore research from AAU contributing to the UN SDG's
[Theme](#)



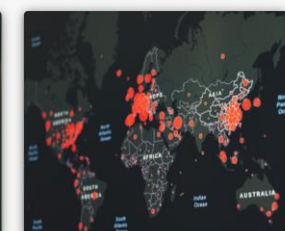
PHD THESES
Explore PhD Theses from Aalborg University published in our five PhD Series. Get the latest insights
[Theme](#)



COVID-19
Explore COVID-19 related projects, publications, press clippings & more from Aalborg University
[Theme](#)



COLLABORATION ON AAU STUDENT PROJECTS
Who are students at AAU collaborating with on their Student Projects?
[Visualization](#)



ATTENTION TO VBN
Explore some of the attention surrounding VBN though usage analytics, SoMe and statistics
[Visualization](#)

EDUCATION



RESEARCH



COOPERATION

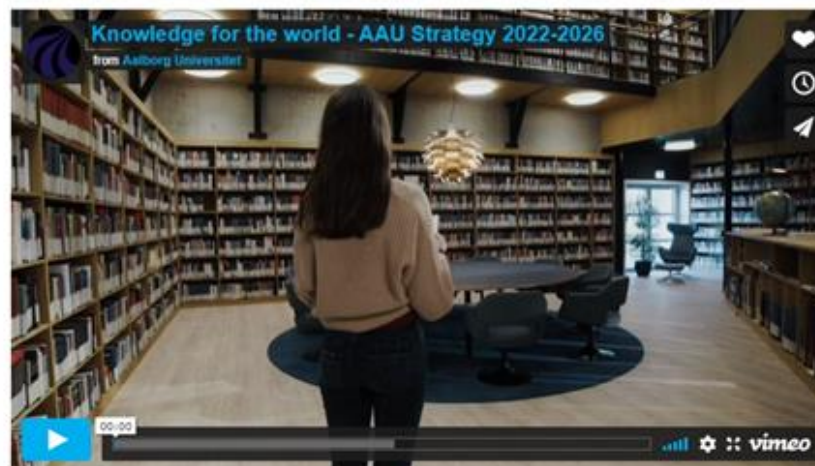


AALBORG UNIVERSITY / ABOUT AAU / STRATEGY /
MISSION-ORIENTED UNIVERSITY

AAU'S STRATEGY: KNOWLEDGE FOR THE WORLD

Aalborg University's strategy *Knowledge for the World 2022-26* makes the basis for the university's development. You can read about the university's strategic direction, characteristics and strategic focal points.

DOWNLOAD PDF
KNOWLEDGE FOR THE WORLD 2022-26



The world needs knowledge

Global dilemmas affect us all. More than ever before, the world's great challenges impact our daily lives.

Our longer lives and higher demands for quality of life are draining the earth's

We believe that knowledge can and must change the world.

Therefore, AAU is a university with ambitions that extend far beyond its walls, to the heart of the most pressing global and local trouble spots.

A photograph of three researchers in a large water tank. A man on the left, wearing a green life vest, holds a vertical pole and looks upwards. A man in the center, wearing a black wetsuit, holds a small electronic device. A woman on the right, also in a black wetsuit, is focused on a cable. The water is clear and blue, and the tank's structure is visible in the background.

AAU's strategic focus

Education

International level

We strive to provide education at the highest international level based on problem-based and digital learning.

Interdisciplinarity

We strive to produce graduates who think and work in an interdisciplinary manner.

Relevance

We strive to produce graduates who work effectively on real challenges. We strive to address labour market needs for competencies and upskilling through future-proofed and flexible degree programmes.

Research

Excellence

We strive to cultivate world-leading research environments that link scientific excellence with mission-oriented commitment.

Collaboration

We strive to show how research is strengthened by active collaboration with the world at large. We need the world just as the world needs our knowledge.

Transformative

We strive to create foundational, interdisciplinary and transformative research that helps solve the world's most complex and pressing challenges.

Innovation

First choice

We strive to be the preferred international, national and regional partner and provider of research-based innovation.

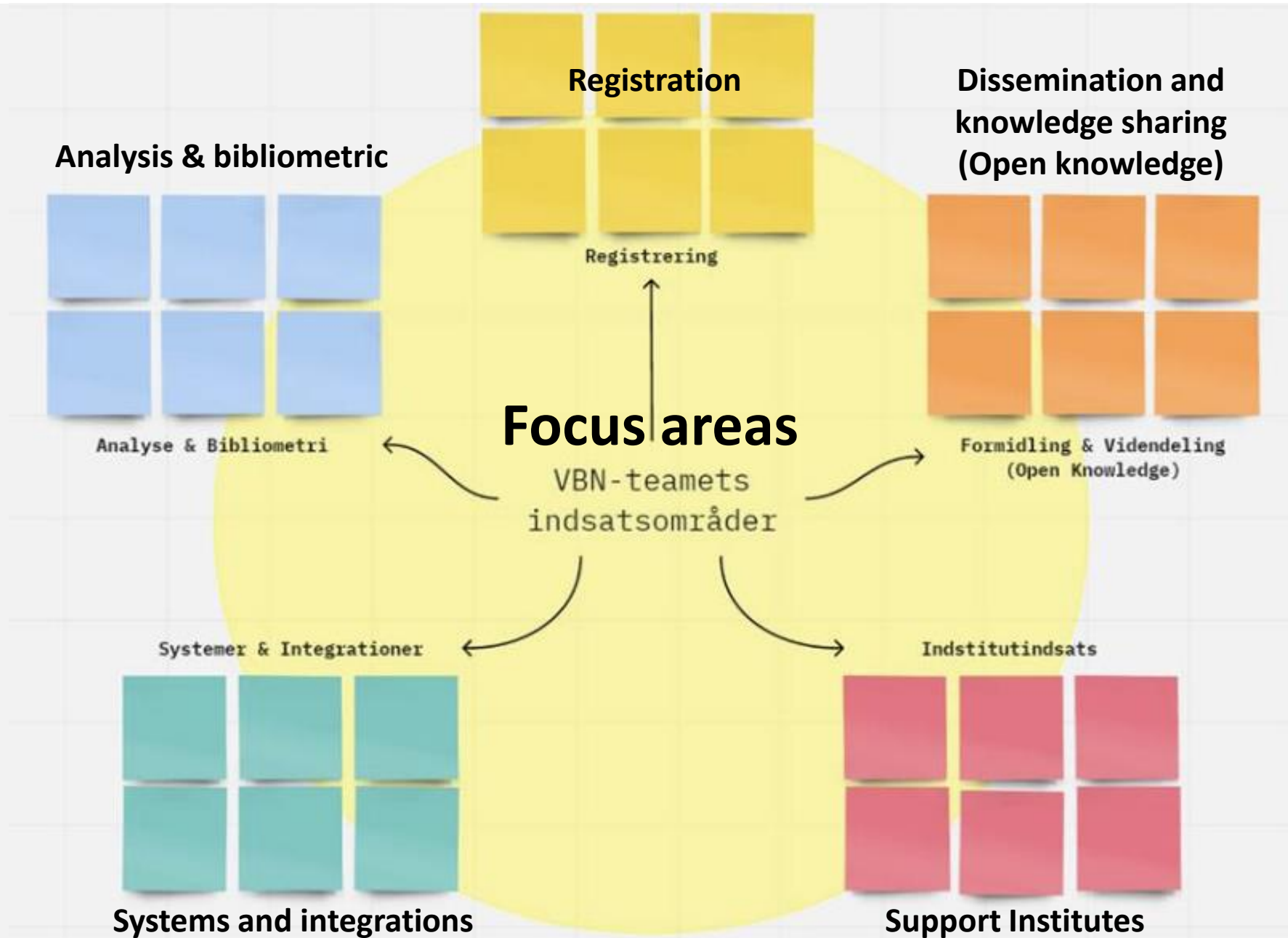
Agenda

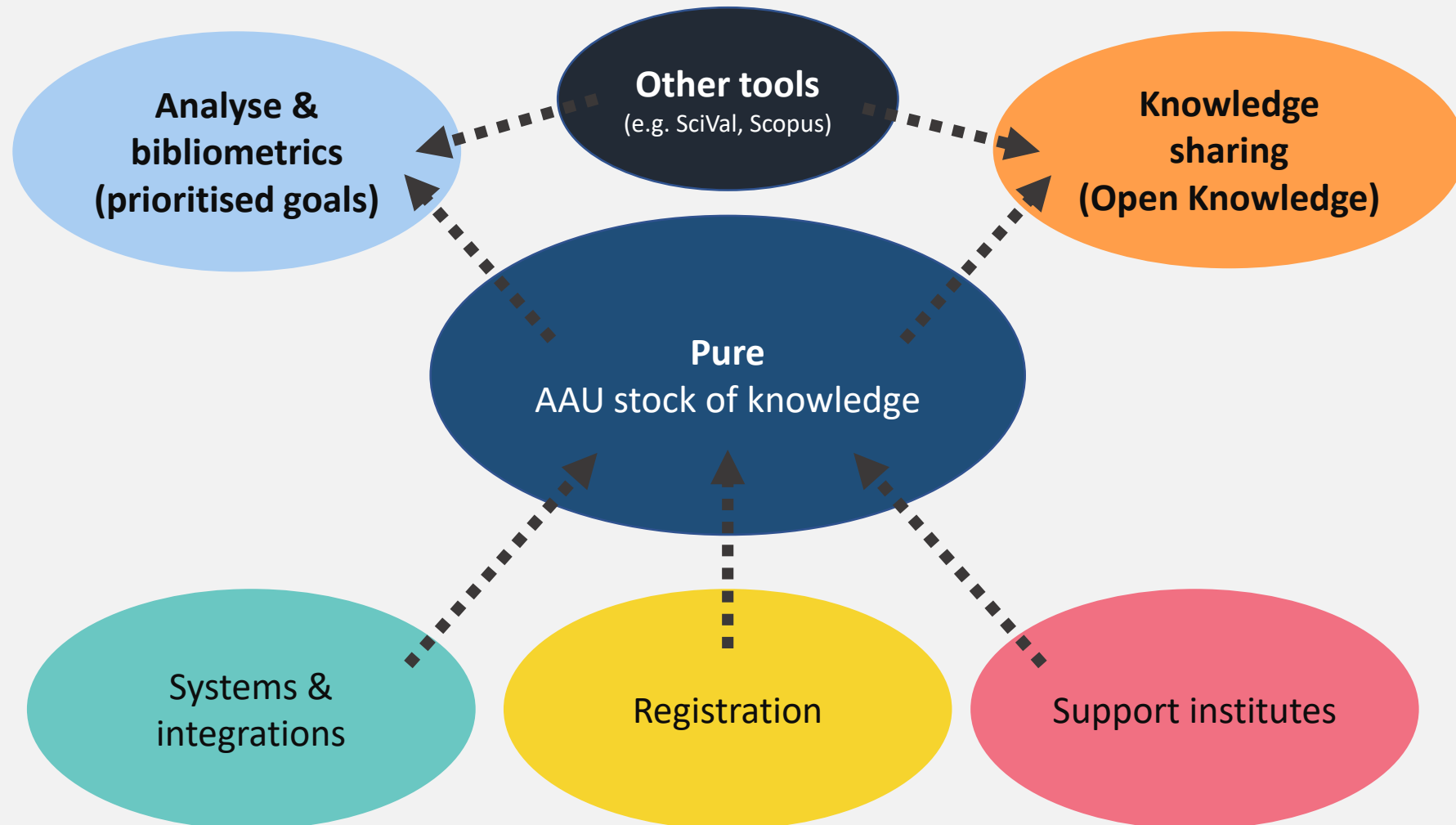
Through our partnerships with external actors, we strive to set agendas with innovative solutions to relevant problems.

Utilisation

We strive to make use of our knowledge to create tangible value for our partners and the world around us.

CRIS focus areas – From the Pure team strategy document





DECISION SUPPORT

Focus on AAU's
prioritised goals for 2022-

Recommendations: strategic areas 2022-26

KNOWLEDGE SHARING

Increase the impact in
digital dissemination

AAU STOCK OF KNOWLEDGE

RESEARCH REGISTRATION

Pure

OPTIMISATIONS

Operational optimisations

STRATEGY

Contribution to AAU's
Knowledge for the world
2022-26

Recommendations for initiatives in 2022->

DECISION SUPPORT

Focus on AAU's prioritised goals for 2022

1. Report on strategic goals
2. Focus on core data quality
3. Refer to help and guidance
4. Research group support
5. Decision support in Pure

OPTIMISATION

Operational optimisations

6. Core data
7. External collaboration
8. Support and guides
9. User involvement
10. Updates from import sources

STRATEGY

Contribution to AAU's Knowledge for the world 2022-26

11. Define data quality
12. Integration of datasets
13. integrations of projects
14. Integrations of applications & grants

KNOWLEDGE SHARING

Increase the impact in digital dissemination

15. VBN Themes
16. The Digital Project library
17. Branding

STATUS, LAST 12 MONTHS

Org units	#
Research groups/sections	260
- Created	65
- Updated	146
Number of research groups with ≤1 related academic person	14
Research groups/sections without pws (org ID)	147 (57%)

Persons	#
Affiliations without a classification	543
Updates (primarily synchronisations)	6.846
Updates from personal users	572
Manually created/updated (AAUH)	1.102
No of unique job academic titles	206
Portrait photos on research portal	less than 50%

Data extraction: Nov. 2021

RECOMMENDATION

Be honest – tell about the content quality – it is a shared responsibility!

Add a **Data Quality Awareness** element in all relevant reports. Thereby add focus and attention on core data quality (persons ↔ affiliations ↔ org. units) in Pure.

The purpose is to increase awareness of how data is registered in Pure, so that stakeholders have the opportunity to act if data is missing or erroneous.

This way, you get an increased awareness of the importance of high data quality among the stakeholders – *and you might cause them to act.*

“DATA QUALITY AWARENESS” ELEMENT IN REPORTING EXAMPLE FOR AN INSTITUTE/DEPARTMENT

Current affiliations	#
Academic staff	34
Admin staff	7
External staff	9
Hospital staff	1
[without affiliation]	2
No. of persons	43

Update: 14. Dec. 2021

Current research groups/sections	No. of persons
Database and Web Technologies	12
Human-Centered Computing	14
Distributed, Embedded and Intelligent Systems	9

Prioritised objectives for Aalborg University for 2022

The CRIS data and the Pure team can contribute with guidance and monitor 3 out of 11 goals:

1. *Collaborates with regional, national and international parties on mission-driven research...*
2. *Research based on digital data...*
3. *The Offices of the Danish Central Administration knows and collaborates with AAU...*

RECOMMENDATION

Support the priority objectives 2022 with insights from the CRIS

Support the registration in Pure through updated and targeted guides.

Communicate to the academics on how to register the prioritised objectives in Pure.

Provide evidence by monitoring the objectives.

All management reporting (SRFI, Annual Report, Department reports and research group reports) should include evidence from Pure evidence for prioritised objectives for Aalborg University for 2022

“PRIORITISED OBJECTIVES” ELEMENT IN REPORTING EXAMPLE FOR AN INSTITUTE/DEPARTMENT

External collaboration	Last 12 months	Previous period
Regional collaboration	2	3
National collaboration	13	9
International collaboration	21	3
Collaboration with the Danish Central Administration	2	3
Link to relevant online guides		
Digitale data in Pure		
Datasets (created)	1	0

Show the tables even if the department / research group has no entries during the period. This might trigger the group to add missing registrations.

RECOMMENDATION

Define data quality

Identify all primary content types that can play a role in the "Knowledge for the world" strategy.

Define **Data Quality Guidelines** at field level for relevant content types concerning:

- Knowledge sharing (Open Knowledge)
- Analysis and bibliometrics
- External collaboration

This activity will form the basis for decisions on metadata & be the reference for the majority of initiatives for the Pure team.

Set goals for amount of content

It isn't easy to know how much content there should be registered per year for specific content types.

But... give your best estimates and set annual target for all research products, e.g. 2,500 projects and 2,500 data sets.

Make it a monthly exercise to share a monthly report on the numbers within the Pure team.

		DATA QUALITY		
RESEARCH PRODUCTS		Decision support	Knowledge sharing	External collaboration
	Content in Pure			
	Current persons			
	Org. units			
	Facilities			
	External organisations			
	Grant applications			
	Awarded grants			
	Projects			
	Datasets			
	Activities			
	Publications			
	Press clippings			
	Impact			
	Prizes			
	PhD theses			
	Student projects			

Recommendations for initiatives in 2022->

DECISION SUPPORT

Focus on AAU's prioritised goals for 2022

1. Report on strategic goals
2. Focus on core data quality
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