## Bring Your Research Asset Data to Life!

AAU

## Driving Interaction through Dynamic Data Visualizations and Engaging Content

Anne Lykke (AAU), Søren Vidmar (AAU) & Kristian Toland (Elsevier)

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# Aalborg University – KNOWLEDGE FOR THE WORLD

# THREE CORE AREAS

- Research
- Education and PBL
- Cooperation







# AAU FACTS



## RESEARCH AND EDUCATION

- Social Sciences & Humanities (2022)
- Medicine
- Engineering and Science
- IT and Design



- 20,200 students (excl. part-time students)
- **3,200** part-time students
- 840 PhD students



## RESOURCES

- 2,230 staff members in research and education
   > Of which 700 international researchers
- 1,260 administrative staff
- Total budget of 3.08 billion DKK (460 million US\$)



# **RESEARCH AT A HIGH INTERNATIONAL LEVEL**



U.S. News & World Report names AAU as the best university in Europe in the field of Engineering and the world's 4<sup>th</sup> best.

ENGINEERING





## AAU IS AMONG THE WORLD'S TOP UNIVERSITIES

According to Times Higher Education, Aalborg University is ranked 201-250 (no. 219) in the overall world university ranking. AAU is ranked as the world's best university in SDG 4: Quality Education.



## AAU IS THE BEST YOUNG UNIVERSITY IN SCANDINAVIA

According to Times Higher Education AAU is ranked 23<sup>th</sup> of the world's top universities under 50 years old, making AAU the highest ranked young Scandinavian university.

# AAU SHARED SERVICES

Søren Lind Christiansen University Director

#### AAU SHARED SERVICES

Maj Rosenstand	Flemming Koch	Mogens Juul Møller	Henrik H. Søndergaard		jørling	Lone Vestergaard	Morten Winterberg	Martin Vive Ivø	Anders S. Kristensen
Acting Head Librarian	IT Director	Director of Campus Services	Head of the HR Department		Secretariat	Director of Studies	Chief Financial Officer	CPH Campus Director	Esbjerg Campus Director
Aalborg University Library • Accessions Team • Administration Team • Service Team • Information Team • VBN Editorial Office (publications and ranking) • Electronic Resource Management (ERM) • Secretariat	IT Services • Strategy and Portfolio • Project and Systems Management • Support Services • Infrastructure Services • Information Security	Campus Services <ul> <li>Administration and Planning</li> <li>Construction and Operations</li> <li>Building Services</li> </ul>	<ul> <li>HR</li> <li>AAU Competence Development</li> <li>HR Service Centre HSF</li> <li>HR Service Centre EST</li> <li>HR Specialist Centre</li> <li>International Staff Unit</li> </ul>	Rector's Office Administrative support to the Rector and Pro-rector, the Executive Management, the administrative management group, etc. Meeting preparations for the Rector and Pro-rector AU Strategy Secretariat Strategic analysis Policy advice Legal issues Events	Communication Communication on the AAU Strategy Communications consultancy to senior management Coordination of cross-faculty communication activities Marketing Press and media Web: aau.dk and intranet Events	Study Services • Elite Sports • Secretariat • Student Society Secretariat • Strategy and quality • Study administration • Legal resources • AAU Student Guidance and AAU Student Guidance and AAU Career • International Office and Accommodation Office • Admissions and Continuing Education • State education grant and student administration systems	Finances Controller unit Master Data Management Finance Management Unit (Partner Team, Analysis Team, Planning and Process) Accounts (Project Finance, Service Team, Accounts Team) Procurement Unit (Tenders & Procurement Unit, iProcurement Team) Support & Travel (ØSS Team, BI Team, Travel Administration, Communication)	AAU Shared Services CPH • Campus management and administration • IT Services • Construction and operations • Business partnerships • Study Services • Communication etc. • Overall operations and development of AAU CPH • External entertainment, events, etc.	<ul> <li>AAU Shared Services Esbjerg</li> <li>Campus management and administration (finance, HR, etc.)</li> <li>IT Services</li> <li>Campus and building services (technical services, operations, maintenance, cleaning)</li> <li>Student guidance, International Office and Accommodation Office</li> <li>Study administration (student services, timetabling, room booking, etc.)</li> <li>Communication etc.</li> </ul>





# The VBN Team at AAU

## CORE AREAS

- CRIS (Pure)
- Portal (VBN)
- Research registration
- Research analysis
- Research dissemination

## History:

- Pure was developed in a cooperation between AAU and Atira (Aalborg)
- First version of Pure/VBN (in the world) was launched at AAU in 2003

**AALBORG UNIVERSITY** 

DENMARK

- Acquired by Elsevier in 2012



VBN is Aalborg University's research portal. The research portal is publicly available and supports the aim to aid the accessibility to research carried out at or in cooperation with AAU. The research portal promotes contact to and collaboration with the university's researchers and research communities, VBN is based on Pure, the system used at AAU for registering research, research portal system care at a more more. The VBN ream works with user support, the day-to-fag maintenance and development of research registration, research analysis, and research development of research registration, research analysis, and research development of research day. Additional information can be found on the homepage of the VBN ream







# Working with data from Pure et al. – dissemination and approach

AALBORG UNIVERSITY DENMARK

**Traditional approaches** Reports (Excel, PDF)

PowerPoints

Portals (Pure Portal and custom portal)

## Pros:

- Reliable
- Fast
- Standardized

## Cons:

- Static
- Level of detail
- One size doesn't fit all



# Let's spice things up a bit!

## What are our goals?

- ✓ Supplement to traditional reports and portals
- Less text, more visuals!  $\checkmark$
- $\checkmark$  As dynamic as possible
- Give the user the ability to start simple & drill down  $\checkmark$
- ✓ Interactive when possible
- "Curate" the data avoid information overload  $\checkmark$













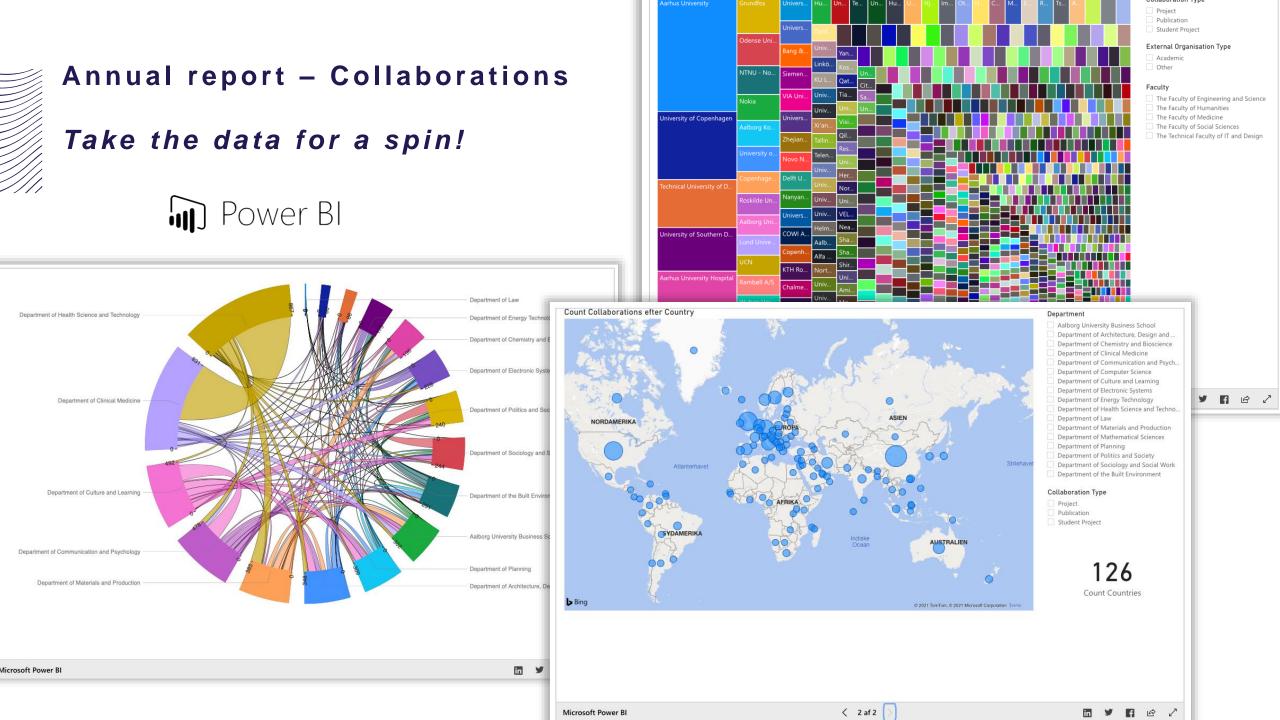




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https://doi.org/10.5278/392000340





## Themes

- Subsite to our Pure Portal
- "Curating" content
- Visualizations
- Attention to AAU research



#### UN SUSTAINABLE DEVELOPMENT GOALS

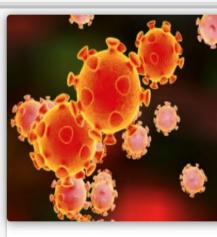
Explore publications from AAU contributing to the UN SDG's New Theme



### PHD THESES

Explore more than 3000 PhD Theses in our research database. More than half are available as Open Access

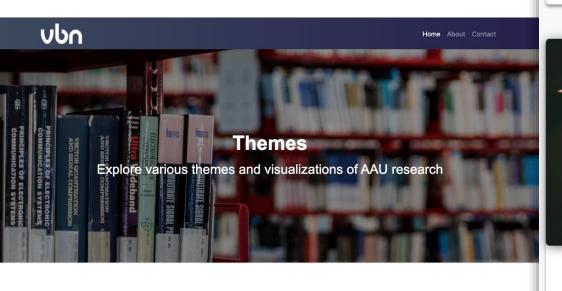
Theme



#### COVID-19

Explore COVID-19 related projects publications, press clippings & more f Aalborg University







#### COLLABORATION ON AAU STUDENT PROJECTS

Who are students at AAU collaborating with on their Student Projects?



#### ATTENTION TO VBN

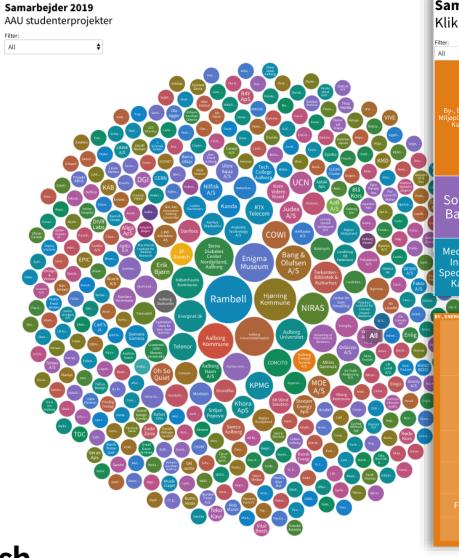
Explore some of the attention surrounding VBN though usage analytics, SoMe and statistics

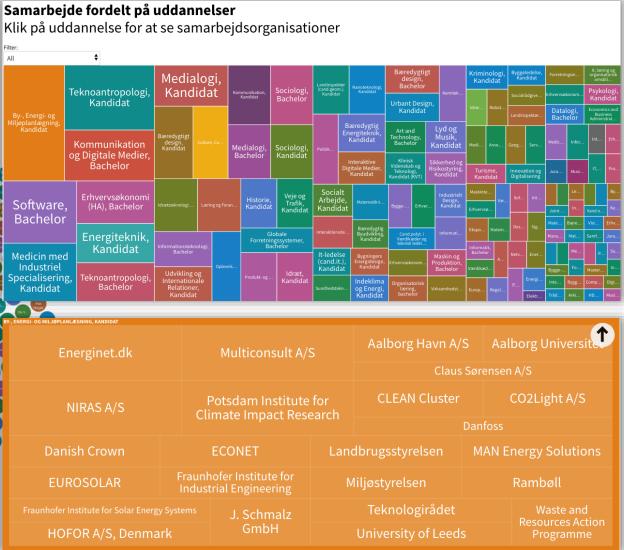


https://vbn.aau.dk/themes



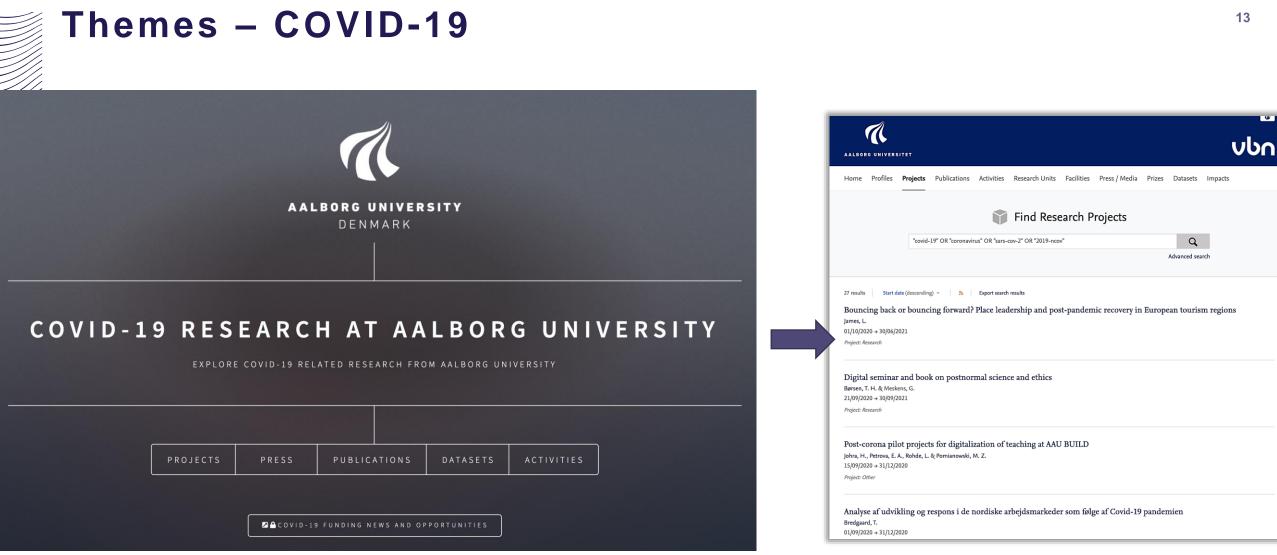
# Themes – collaboration on student projects





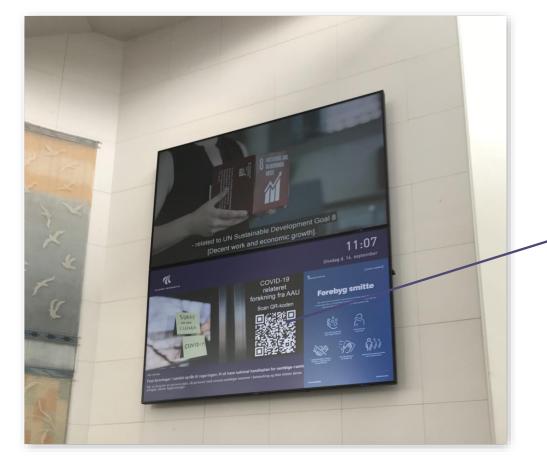
## Flourish

AALBORG UNIVERSITY DENMARK





# Themes – bring data into a physical space





### COVID-19 RESEARCH AT AALBORG UNIVERSITY

EXPLORE COVID-19 RELATED RESEARCH FROM AALBORG UNIVERSITY

PROJECTS PRESS PUBLICATIONS DATASETS ACTIVITIES	PROJECTS PRESS PUBLICATIONS DATASETS ACTIVITIES					
		PROJECTS	PRESS	PUBLICATIONS	DATASETS	ACTIVITIES
		·				





# **Themes – Attention – Portal traffic**







# Themes – Attention – who's linking to our research on Twitter?



Tweet	Tweeter	URL	Date 🔻
At få indvandrere/flygtninge ind på arbejdsmarkedet har været en central ambition siden 1970erne/1980erne i de nordiske lande. Der findes ingen nemme virkemidler https	@KBreidahl	http://twitter	3 Feb 2021
@SvendErikAnder7 Det er bl.a. den slags spørgsmål @m_outreach, Niels Madsen og jeg arbejder med i det Fiskeafgiftsfonds-finansierede 'Fiskens Fodaftryk' (https://t.co/lsL4W	@TroelsHegland	http://twitter	3 Feb 2021
New position as assistant professor at Aalborg University (yay!). Looking forward to joining @banglindegaard's @DFF_raad funded project on environmentally sustainable mobil	@TobiasBoelt	http://twitter	1 Feb 2021
Check out this research output at Aalborg University's Research Portal: Publishing social enterprise rooted in lived experience of diversity and disadvantage doi:https://t.co/vfD	@val_valpo	http://twitter	31 Jan 2021
RT @kaaretraberg: @KHegaard Du bør måske inddrage nogle af professorerne i hvad der der så bør stå for at kunne medtage det i skyldsspørgsmålet. Jørn Vestergaard eller Le	@GitteKJP	http://twitter	30 Jan 2021
@KHegaard Du bør måske inddrage nogle af professorerne i hvad der der så bør stå for at kunne medtage det i skyldsspørgsmålet. Jørn Vestergaard eller Lene Wacher Lenz? #	@kaaretraberg	http://twitter	29 Jan 2021
RT @BrianVad: Do you know the four generations of #districtheating? And did you know there are significant benefits with district heating in combination with energy savings a	@BrianVad	http://twitter	29 Jan 2021
RT @BrianVad: Do you know the four generations of #districtheating? And did you know there are significant benefits with district heating in combination with energy savings a	@HeatRoadmapEU	http://twitter	29 Jan 2021
I kan læse hele vores rapport her: #covid19dk #arbejde #sundhed #arbejdsmiljø 4/4 https://t.co/hozaU0MBik	@clausdh	http://twitter	26 Jan 2021
https://t.co/k5M5WUTIVT https://t.co/KbbBdFQ8ic https://t.co/sQewLCNF0j https://t.co/YBdRZP9IT	@Peaceful1979	http://twitter	26 Jan 2021
#ResearcherOfTheMonth Ole Ravn has investigated how AAU's PBL model can bridge the gap between doing the formalisms and calculations of abstract mathematics and appl	@CfU_AAU	http://twitter	25 Jan 2021
@MaksBitter @jeSperl @JEOCPH @Jakobsorgenfri @politiken Jeg tror svaret er at "alle" bliver gemt, op til 10 år efter din død. https://t.co/2oWBzlCpQg Vævsanvendelsesregister	@SvendJ	http://twitter	23 Jan 2021
@mzjacobson @2TVolts @stevehurcombe https://t.co/t6pPz6rDqw	@husmanden	http://twitter	23 Jan 2021
Influence of Multilingualism & Mutual Intelligibility on Wikipedia Reading Behaviour https://t.co/HktvDuaAGp	@michaelgraaf	http://twitter	22 Jan 2021
RT @WikiResearch: "The Influence of Multilingualism and Mutual Intelligibility on Wikipedia Reading Behaviour - A Research Proposal" https://t.co/SATJX0dQFR	@wikimediaid	http://twitter	22 Jan 2021
"The Influence of Multilingualism and Mutual Intelligibility on Wikipedia Reading Behaviour - A Research Proposal" https://t.co/SATjX0dQFR	@WikiResearch	http://twitter	22 Jan 2021
Congratulations to co-authors @PedersenTorp and Mikkel P. Andersen from @aausund. Their article was the second most discussed in 2020, out of the 3.4 million works tracke	@VBNTeamet	http://twitter	21 Jan 2021
The AAU PBL model is investigated and contextualized in #RotM Ole Ravn's collaborative 2016 article alongside CfU colleague Annie Aarup Jensen. They discuss the contempora	@CfU_AAU	http://twitter	21 Jan 2021
RT @KlausKblog: Another scientific account 'doesn't exist': Kim Varming, ledende overlæge i klinisk immunologi på Aalborg Universitetshospital, er sendt til Gulag / forsvundet f	@journalistpip	http://twitter	21 Jan 2021
RT @KlausKblog: Another scientific account 'doesn't exist': Kim Varming, ledende overlæge i klinisk immunologi på Aalborg Universitetshospital, er sendt til Gulag / forsvundet f	@crypto_1cat	http://twitter	21 Jan 2021
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Google Data Studio



# Themes – Attention – who's linking to our research on Twitter?



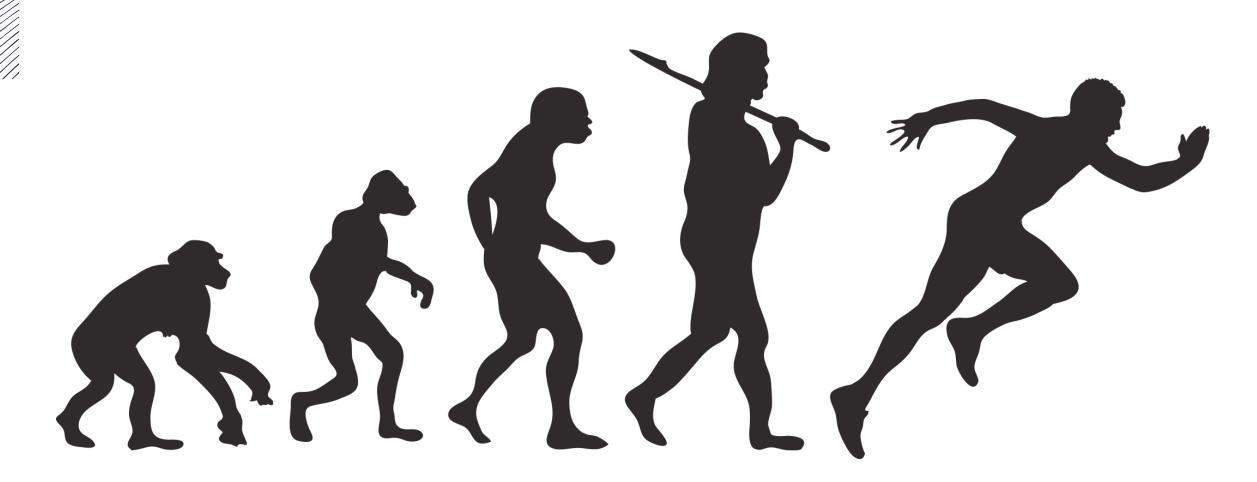




Google Data Studio



# **Evolving the Pure Portal: "Project Stella"**



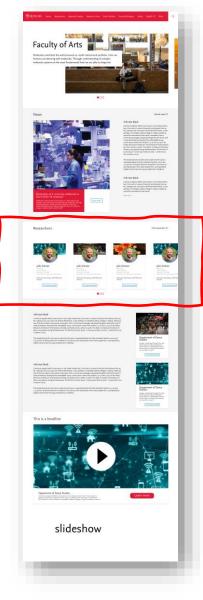


# Project Stella: Core areas to build on

- 1. Easy management of what data to show, on all levels
- 2. Simple integration of multimedia and other external content
- 3. More control over branding and institutional identity
- 4. Content curation:
  - a) Highlighting/promoting top content
  - b) Bringing content together around key topics (e.g. SDGs, Covid-19...)
- 5. Simple configuration of basic page layout and display (WYSIWYG)
- 6. Integrating Portal content/visualisations into external pages



# Move towards a modular design



### Researchers



John Earnes Рислетько Оком асказанос Ономакиот по роде Органицат от роде

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Visit research profile



John Earnes Реализате Отам аскаровск Иминалист от РОЛЕ: Орталивент от высымися Диястански

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Visit research profile

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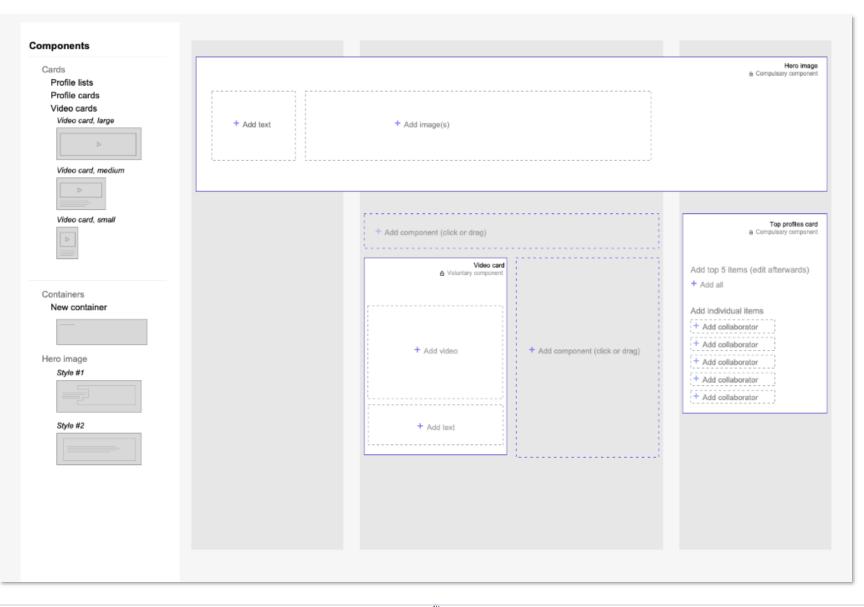
Find researcher Q.

John Earnes Рионскион Били наиление Окончаниет от РОЛЕ Беликтическо от вилолисе В, чете

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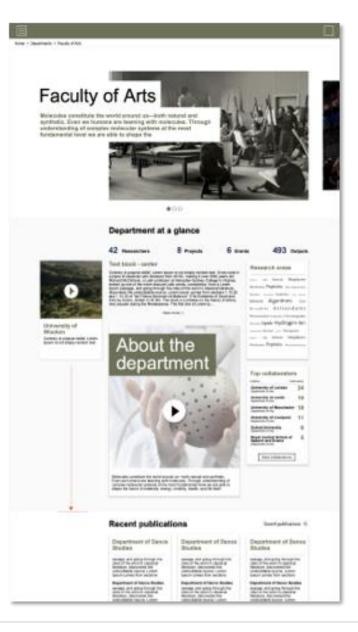


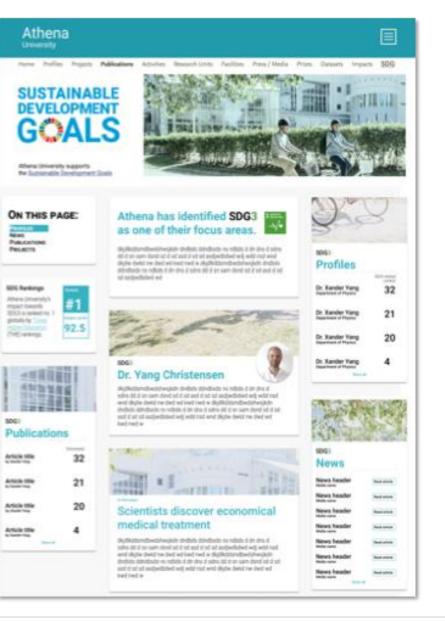
















# **Current status**

- This work is ongoing, parallel to our other portal work.
- Successfully completed working prototype at the end of last year.
- Target: Core portal delivery in H2 2021/Q1 2022: Persons, Organizational Units, Research output
- Working in close collaboration with Pure clients to review progress regularly together and get feedback



# THANK YOU

VILDE,

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Vi håber at fvil lede dett imod ken vildere natur, og øl fvil ride de mange brakeltge blanter og insekter, der indfinder sig

vildmedville, dis 'a.a.U AALBORG UNIVERSITY Denmark

Aalborg Universities Campus Service