

Welcome to:

**Department New Years
Gathering 2026**

We're starting at 12.30/12.45

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Department New Years Gathering 2026

DEPARTMENT OF CHEMISTRY AND BIOSCIENCE



DEPARTMENT OF
CHEMISTRY AND BIOSCIENCE

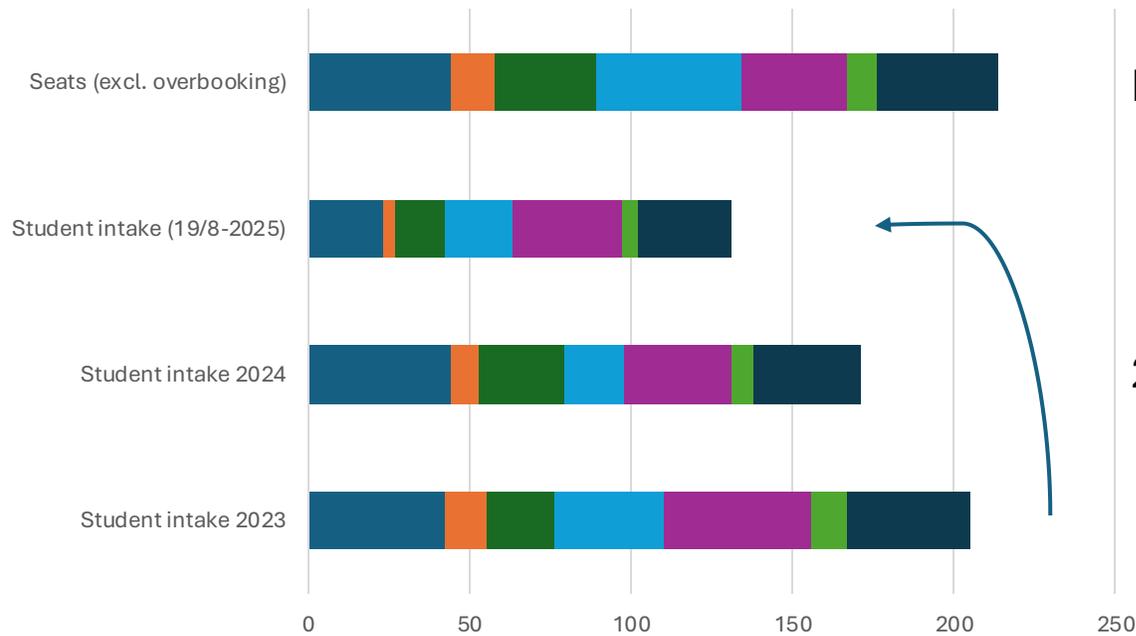
AALBORG
UNIVERSITY

PROGRAMME

- **12.45 - 13.30 Kim's Leadership Overview**
- **13.30 - 13.45 Time for questions**
- **13.45 - 14.00 Research Talk: Caitlin Singleton**

Economy – Looking back and forward

Economy: Student uptake B.Sc. & B.Eng.



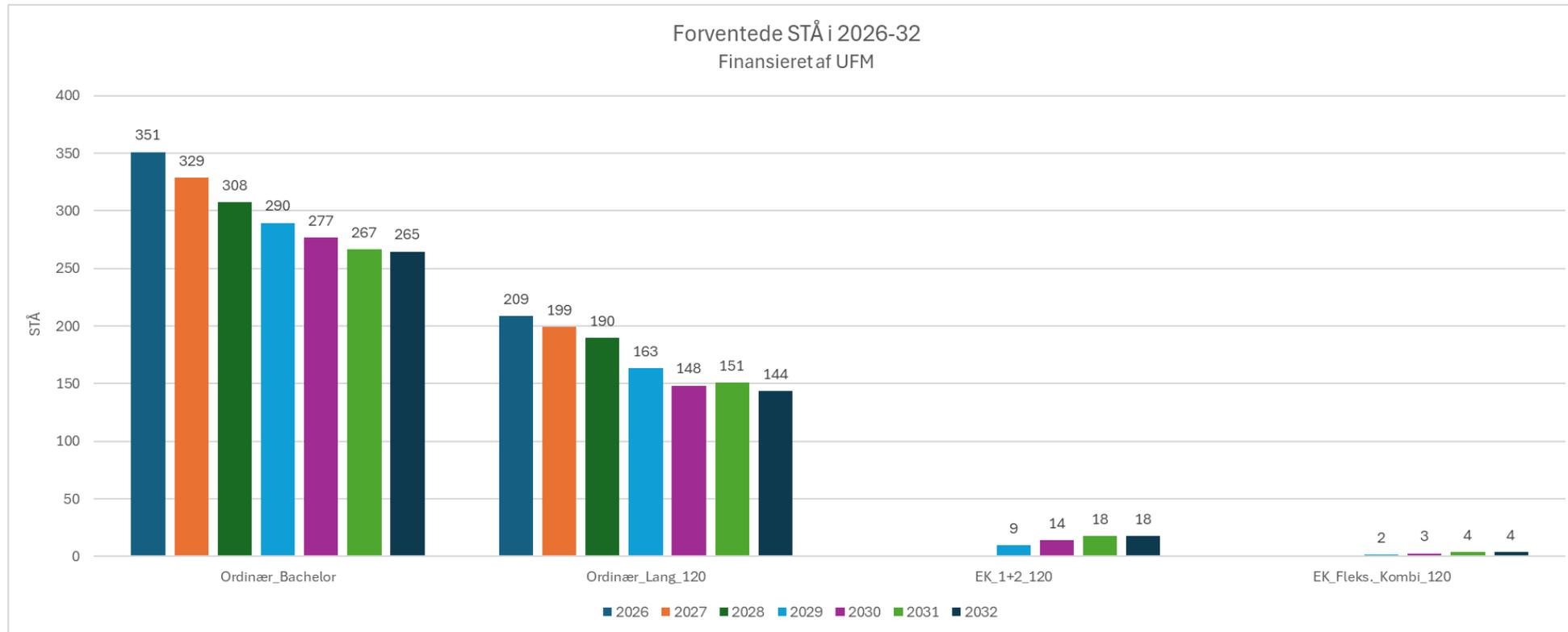
Number of **seats** determined by:
Candidate reform
Employability / capacity planning
+ others

25-70% drop in uptake from 2023 to 2025

- Biotechnology (Aalborg)
- Environmental Science (Aalborg)
- Chemical Engineering (Aalborg)
- Chemistry and Biotechnologi (Diploma) (Aalborg)
- Biology (Aalborg)
- Chemistry (Aalborg)
- Chemical Engineering and Biotechnology (Esbjerg)

Prognose for STÅ – nominelt

Institut for Kemi og Biovidenskab

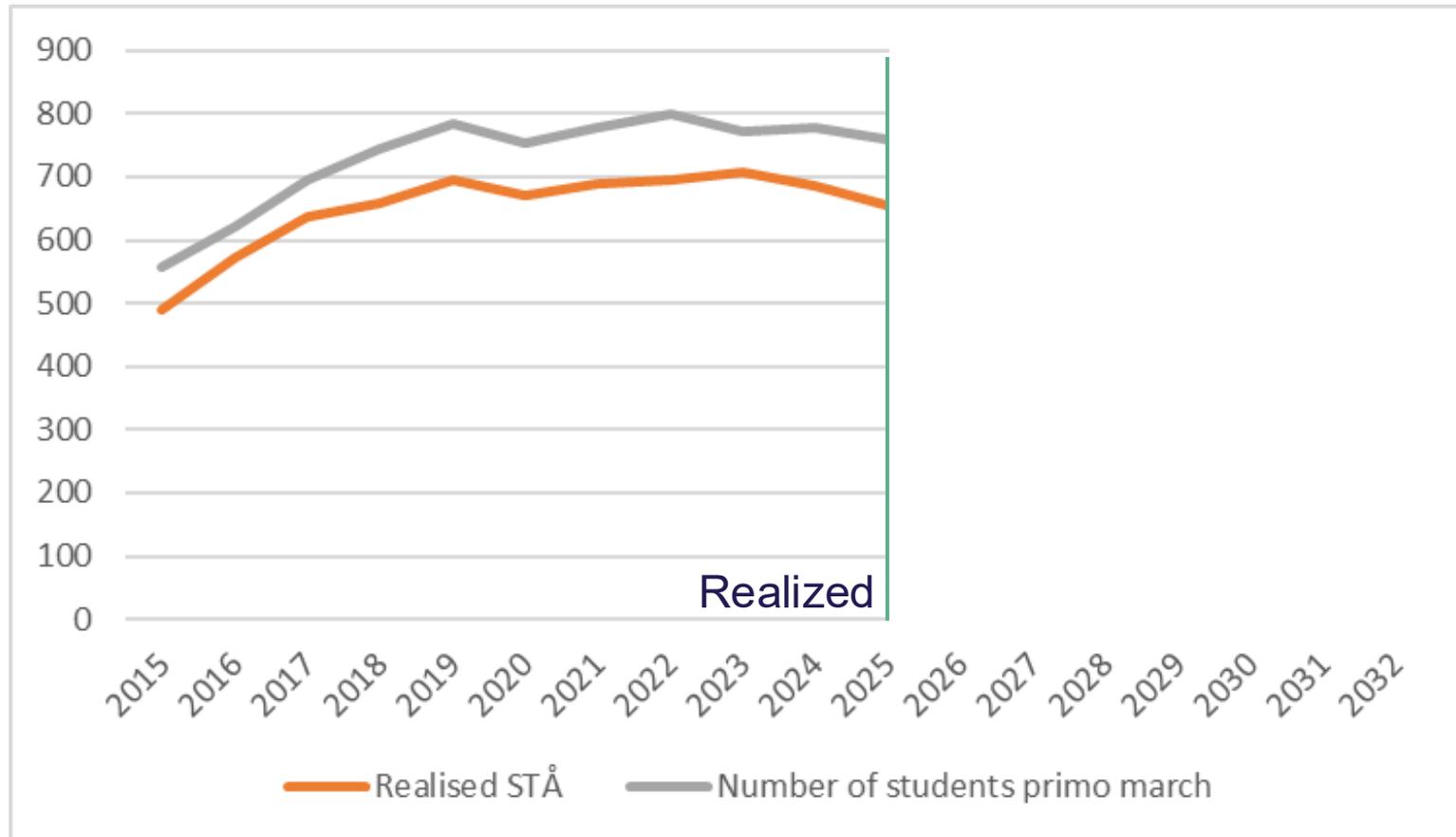


Bemærkning:

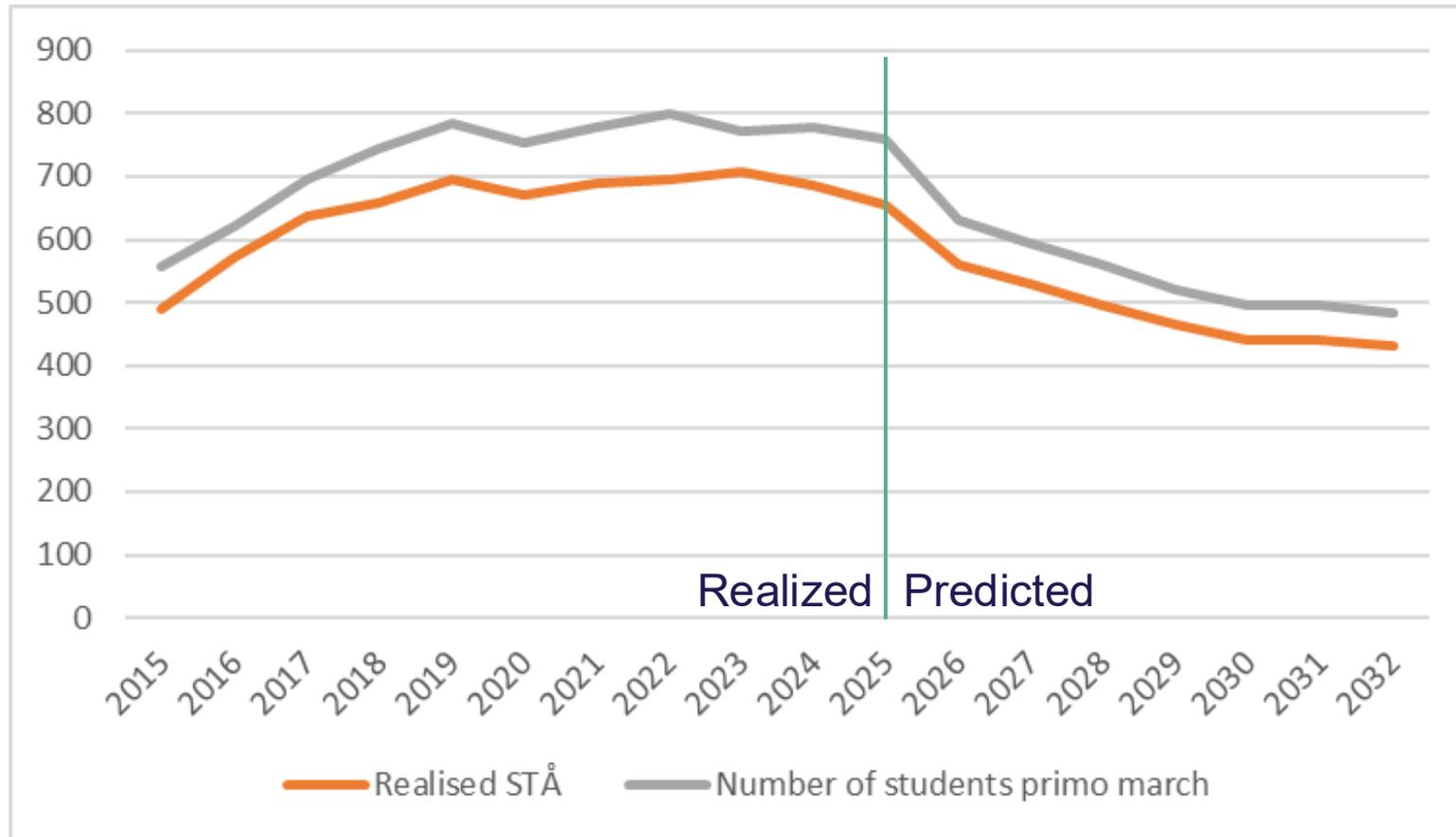
- Prognosen er for STÅ finansieret af UFM

Source: The Finance and Accounts Department, Aalborg University

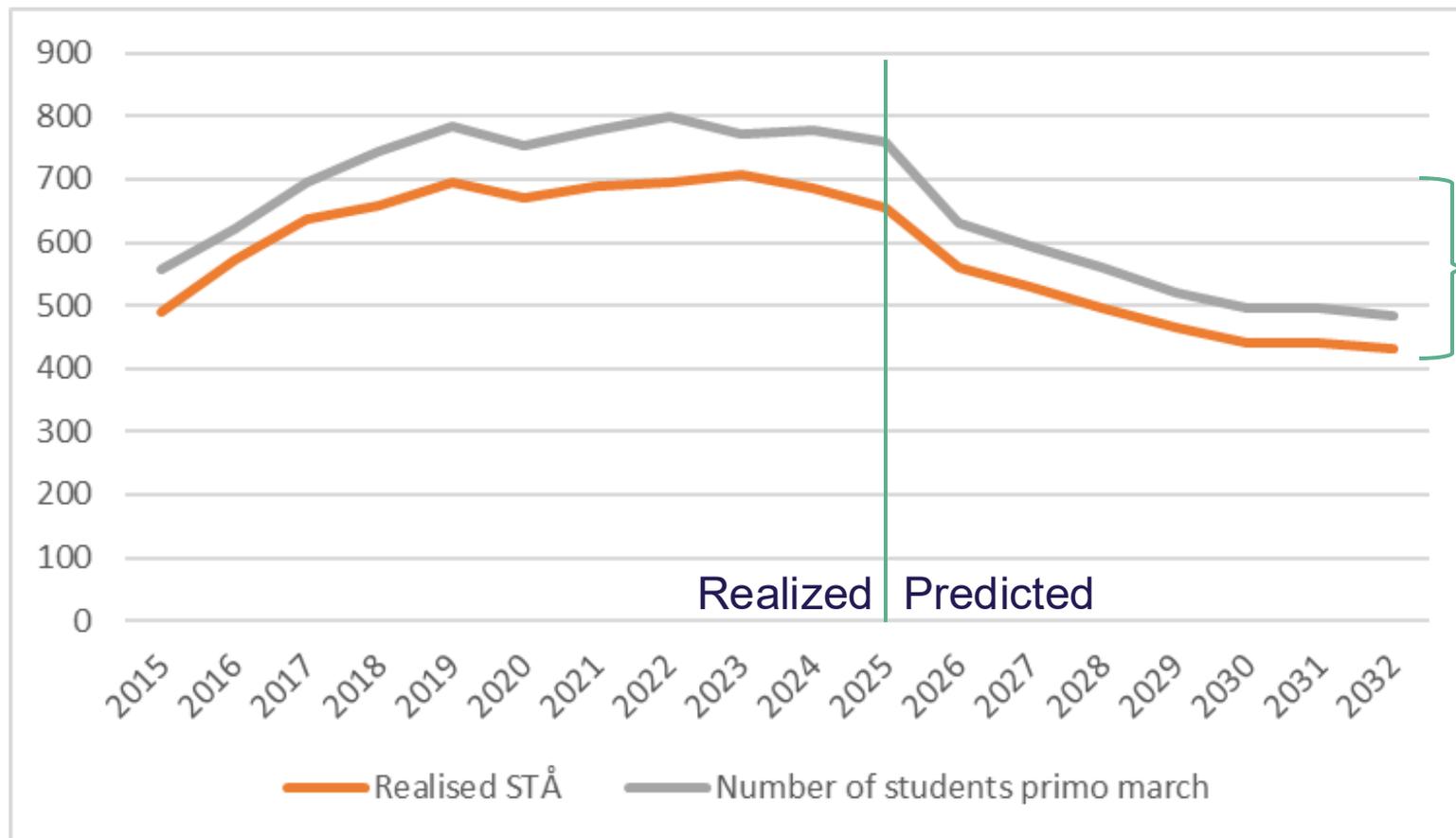
Predicted development in STÅ (Student year equivalents)



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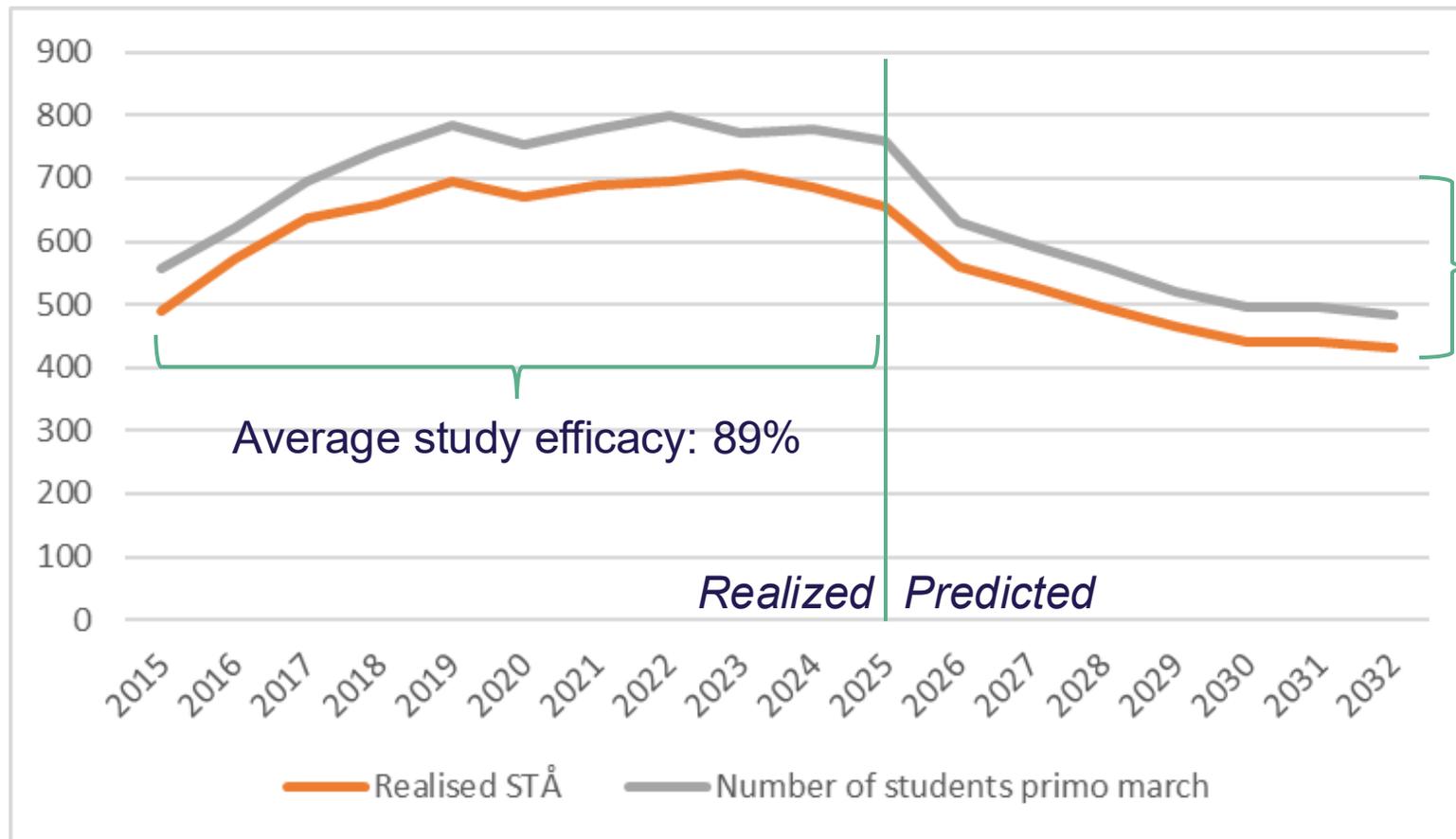


Predicted development in STÅ (Student year equivalents)



Prediction: 39% drop in STÅ until 2032

Predicted development in STÅ (Student year equivalents)



Prediction: 39% drop in STÅ until 2032

Regnskab 2025 & Budgetter 2026-2028 Interne Budgetmodel (internal budget model)	Project income		Project income		Project income		Project income	
	UK95	109.000	UK95	109.000	UK95	112.000	UK95	116.000
Indtægter i 1000 kr. (Income i 1000 kr.)	2025 Regnskab	2026 Budget	2027 Budget	2028 Budget				
1. Eksterne Indtægter (External income)								
1.1. Fakultet (ramme) (Governmental income)	137.591	142.508	142.974	141.238				
1.2. Anden ekstern indtægt (income sales)	110	200	200	200				
I alt	137.701	142.708	143.174	141.438				
2. Interne Indtægter (Internal income)								
2.1. Overhead	16.640	15.659	15.523	15.032				
2.2. BenchFee, Taxamter og institutbidrag (income from projects)	8.516	7.302	9.463	10.868				
2.4. Anden indtægt (Fakultet og andre enheder)(income from internal university units)	9.117	4.171	2.065	1.856				
2.4. Clearinger på årets Uk 95 udstyr (Technical income from equipment)	4.243	1.589	2.000	2.000				
I alt	38.516	28.721	29.051	29.756				
Samlede indtægter (Total income)	176.217	171.429	172.225	171.194				
Omkostninger i 1000 kr. (costs in 1000 kr.)	2025 Regnskab	2026 Budget	2027 Budget	2028 Budget				
3. Forbrugsomkostninger (Consumables)								
3.1. Forbrugsomkostninger (Consumables)	13.295	7.700	7.150	7.150				
3.3. Afskrivninger (Depreciations equipment)	5.379	8.002	8.780	8.824				
I alt	18.674	15.702	15.930	15.974				
4. Løn (Salary)	55.414	55.383	57.410	56.312				
I alt	55.414	55.383	57.410	56.312				
5. Husleje og bidrag (Rent and internal AAU contributions)								
5.1. Husleje +forbrugsomkostninger (Rent, heating and electricity)	33.142	32.613	33.655	34.561				
5.2. Fak bidrag (faculty contributions)	11.604	12.217	12.479	12.467				
5.3. Fælles service (FF bidrag) (Shared service e.g central economy service)	30.760	33.875	34.268	34.422				
5.4. Fælles udviklingsbidrag (Shared development contribution e.g. new technical systems)	20.391	22.179	23.283	23.225				
5.5. Innovationsbidrag (Contribution to AAU innovation)	903	942	958	964				
5.6. Omkostninger (Fakultet og andre enheder)(Faculty and other internal units costs)	8.464	4.299	2.023	1.813				
I alt	105.264	106.125	106.666	107.452				
Samlede omkostninger (Total costs)	179.352	177.210	180.006	179.738				
Resultat UK 10 (Yearly result)	-3.135	-5.781	-7.781	-8.544				
Resultat UK 90 (Result sales of goods and services)	-128	781	781	852				
Resultatmål (Budgetgoals)		-3.000	-3.000	0				
Resultat inkl mål (Result inkluded budgetgoals)	-3.263	-2.000	-4.000	-7.692				

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Result 2025: - 3.263.000 kr.

- Losses on projects (clean out of old projects)
- Depreciation equipment MHT transfer Esbjerg
- Kemishow accident: Cleanup and fine
- Layer fees (3 cases)

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Estimated results
Known and agreed buyout

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Budget goals

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Budget goals

Budget gap

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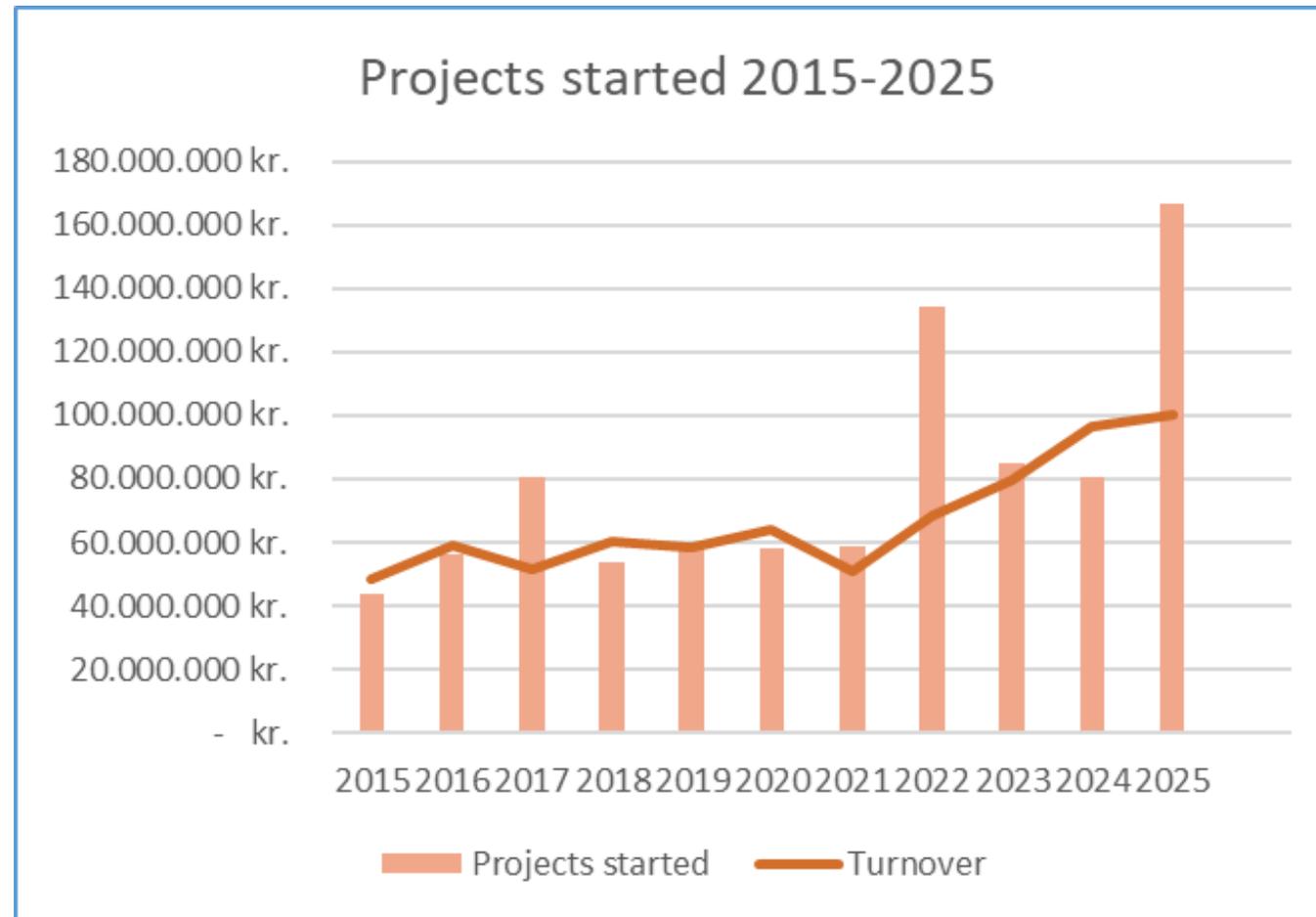
- *Securing and increasing buyout*
- *Reduction in staff by natural attrition*
- *Increase student intake / STÅ*
- *Balanced budgets*

Assuring balanced budgets

Appropriate pre-application workflow:

- 1. Initial assessment:** Contact your economy team representative to evaluate whether a sustainable budget can be achieved for the given call. If this is not possible, alternative funding opportunities should be considered.
- 2. Application preparation:** If a sustainable budget is feasible, you may proceed with planning and drafting the application, including preparing a budget draft in collaboration with your project economy team contact.
- 3. Final approval:** Once the budget draft is finalized, it should be submitted for formal approval.

Economy – projects started pr. year – new record



Research vs. teaching economy 2025

Total turnover:	243.300.000 kr.
Government revenue:	137.300.000 kr.
External turnover:	106.000.000 kr.

Research vs. teaching economy 2025

Total turnover:	243.300.000 kr.	Rent:	33.140.000 kr.
Government revenue:	137.300.000 kr.	AAU and Faculty contribution:	63.658.000 kr.
External turnover:	106.000.000 kr.	Research projects:	80.260.000 kr.

Research vs. teaching economy 2025

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Research economy / final accounts 2025	
Government revenue	46.140.000,00
	Kr.
Government revenue	46.140.000,00 kr.
Co- and in-kind co-financing	- kr.
Rent 50 %	16.570.000,00 kr.
Salary 50 %	30.300.000,00 kr.
AAU and Faculty contribution 50%	31.829.000,00 kr.
Operating expences 50 % + loss on projects	13.600.000,00 kr.
Internal income	6.184.000,00 kr.
OH, taxameter, benchfee, buyout etc.	25.740.000,00 kr.
INSTITUTE GEARING kr.	- 14.235.000,00 kr.

Teaching economy / final accounts 2025	
Government revenue	91.160.000,00
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Rent 50 %	16.570.000,00 kr.
Salary 50 %	25.100.000,00 kr.
AAU and Faculty contribution 50%	31.829.000,00 kr.
Operating expences 50 %	9.300.000,00 kr.
Internal income / trade	2.750.000,00 kr.
INSTITUTE GEARING kr.	11.111.000,00 kr.

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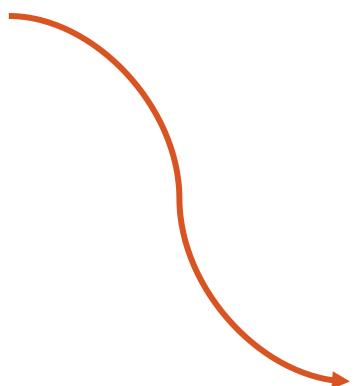
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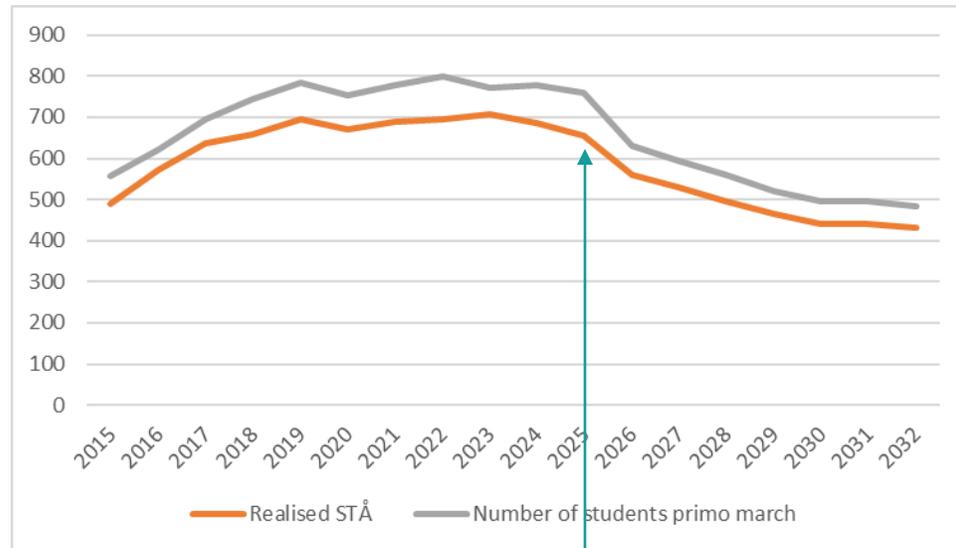
New economy model?

Extraordinary meetings on economy

Dates for the meetings

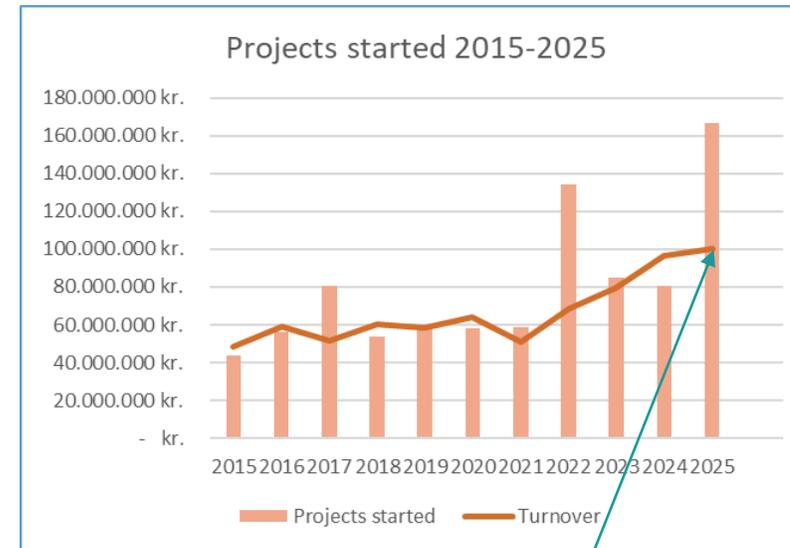
- 
- **27 January 2026 10-11**
 - **5 February 2026 11-12**
 - **10 February 2026 11-12**

Economy – Looking back and forward



+ 11 mio. and decreasing

Potential for limited growth



- 14 mio. and increasing

Potential for growth

Economy – Looking back and forward

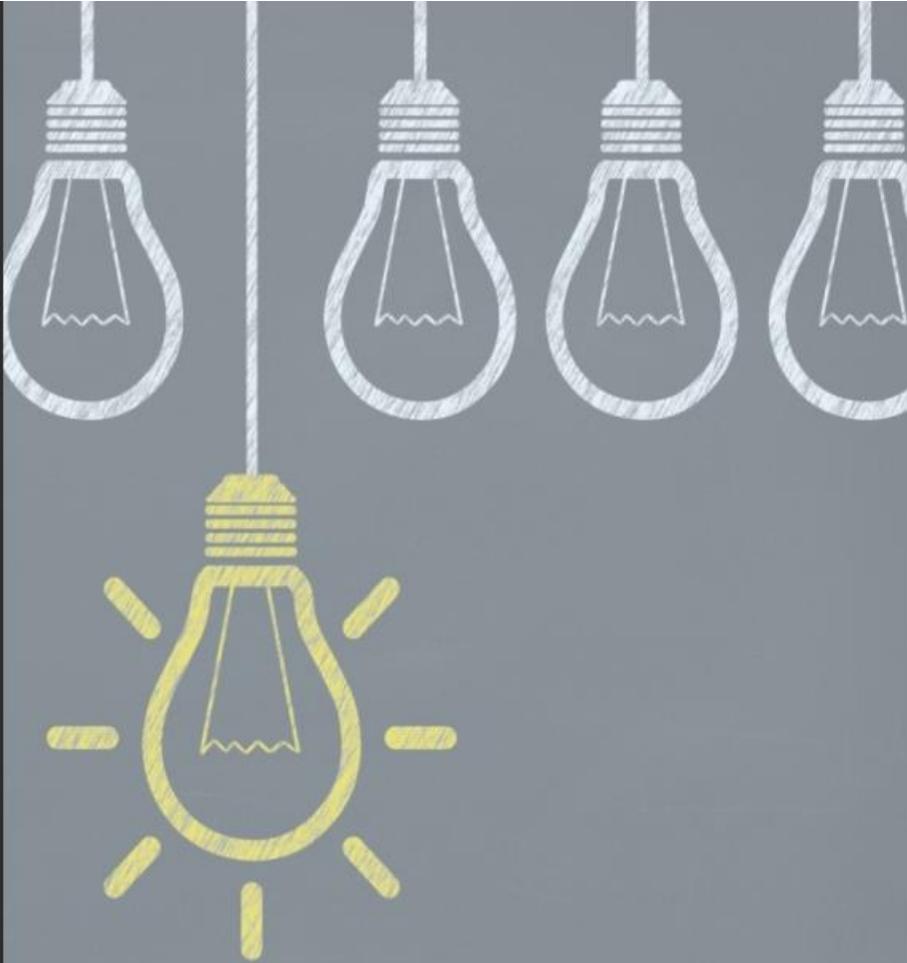
NYHED

AAU FÅR 653 MILLIONER KRONER TIL FRI FORSKNING OG INNOVATION

LAGT ONLINE: 07.11.2025

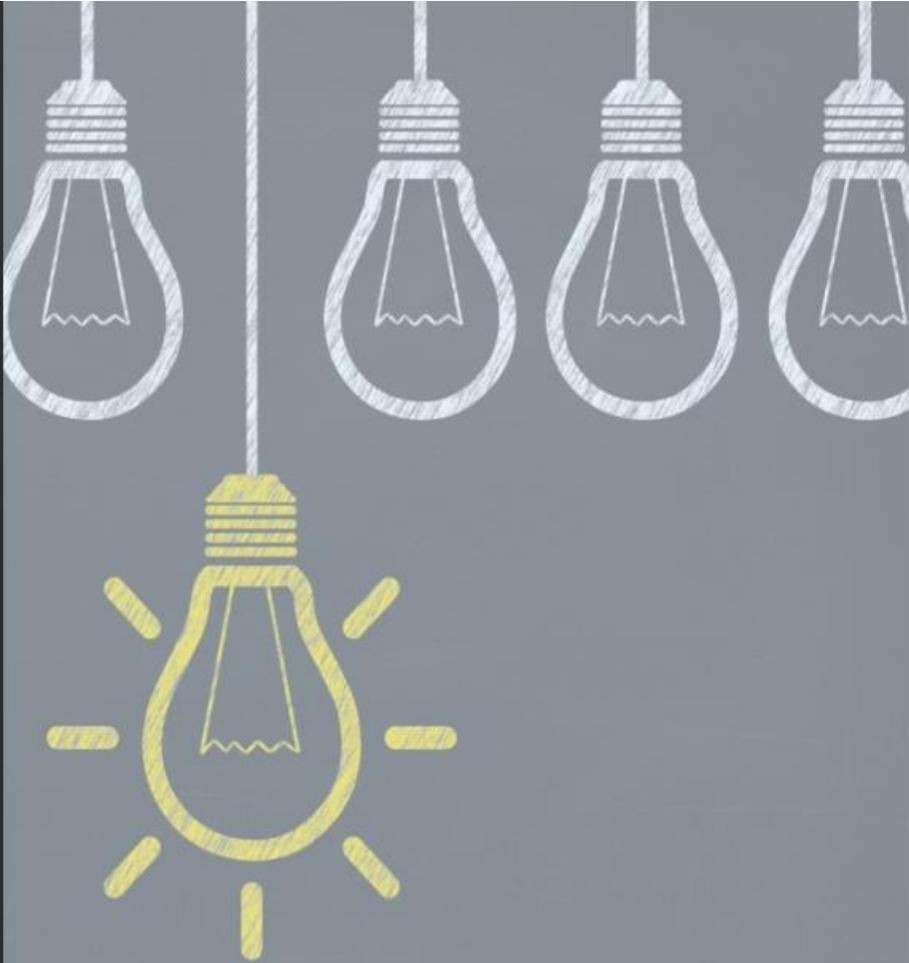
Regeringen og Folketingets partier har indgået aftaler om Forskning og Innovation 2026-2029, og her er der flere positive nyheder for Aalborg Universitet (AAU).





DIR-beslutning december 2025 vedrørende Innovationsmidler 2026 (52 mio. kr.)

- **POC+patent** 11 mio. kr.
- **Innofactory** 6 mio. kr.
- **Teknologisk innovation** 8 mio. kr.
- **Sund- og SSH-innovation** 6 mio. kr.
- **Innovationsakademi** 2 mio. kr.
- **Nynsættelser+fastholdelse** 5 mio. kr.
- **Investeringsfond** (7 mio. kr. – lovhjemmel...)
- **FB3B Vådlabs til BIO+innovation** (7 mio. kr. –
afsøges...)



DIR-beslutning december 2025 vedrørende Innovationsmidler 2026 (52 mio. kr.)

86 mio. kr. from 2027

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Research and Innovation funds 2026-2029 / Status

Innovation:

Technologic innovation: Pre-PoC projects, expected 2 x 400.000 kr., final decision pending.

Research:

Infrastructure (50 mio.): Process ongoing

Strategic funds for BIO: 2026: 5,3 mio. 2027-2029: 5,5 mio. pr. year. Prioritization pending.

Research and Innovation funds 2026-2029 / Status

Strategic investments:

New professor in single cell genomics, backed by 10 mio. kr. from Basic Research Funds 2025.

Expansion of laboratory capacity: Infrastructure application: 7 mio.

Pilot scale facilities (Aalborg / Esbjerg)

Fredrik Bajers Vej 7H garage

Supplemental containers in Aalborg and Esbjerg

Establishment of new labs in Fredrik Bajers Vej 3B

Microbiology and cell biology, 1st floor

Biobanks / freezers, basement



Empowering Northern Denmark's Life Science Innovators

BioHubNorth connects biotech startups with cutting-edge labs, expert mentorship, and a vibrant community to accelerate innovation in Aalborg and beyond.

Discover BioHub



TIL LEJE
FREDRIK BAJERS VEJ 3B
9220 AALBORG ØST

SAGSNR. 4251022

Domicilejendom til laborativirksomhed

- Udlejes for FREJA Ejendomme
- Hele ejendommen er indrettet som laboratorium
- Mulighed for køb af ejendommen
- Ejendommen er opført i 2005



**Since the Summer
Seminar,
WE HAVE
WELCOMED 'NEW'
COLLEAGUES**

... both new and familiar faces

Research Assistants (13)

- **Kristine Tilbæk, Medical Biotechnology**
- **Stine Søndergaard, Medical Biotechnology**
- **Iben Engell Paulsen, Functional Ecology and Genomics**
- **Nikolaj Klausholt Bak, Functional Ecology and Genomics**
- **Katrine Møller-Lassesen, Environmental Biomonitoring**
- **Mihaela Bejenari, Chemical and Bioengineering**
- **Sara Gariglio, Chemical and Bioengineering**
- **Anne Mette Fiil, Environmental Microbiology**
- **Søren Heidelberg, Environmental Microbiology**
- **Marie Riisgaard-Jensen, Environmental Microbiology**
- **Sofie Zacho Vestergaard, Environmental Microbiology**
- **Ruiqi Jing, Applied Supramolecular Chemistry**
- **Bastian Stiem Kirkebæk, Disordered Materials**

Enrolled PhD's (17)

- **Karen Ankersen Sønnichsen - 01.08**
- **Karl Hugo Bartolomeus Markoff - 01.08**
- **Lærke Valsted Bak - 01.08**
- **Albert Richard Lenk - 01.09**
- **Amalie Toftelund Poulsen - 01.09**
- **Julie Mathiesen - 01.09**
- **Kaihong Sun - 01.09**
- **Marc Bello Pintor - 01.09**
- **Søren Clement Juhl Hansen - 01.09**
- **Lorena Palomares Ruiz - 15.09**
- **Annika Fugl - 01.10**
- **Josefine Fly Larsen - 01.10**
- **Nathan Ernster - 01.10**
- **Pedro Martinez Alfaro - 01.10**
- **Yewushuang Chen - 01.10**
- **Andreas Svenning Andersen - 01.11**
- **Nilukshi Gupinathan - 01.11**

PhD defences (16)

- **Parisa Fereidounpour – 04.08**
- **Jette Fischer Petersen – 26.08**
- **Gustav Simoni – 11.09**
- **Yun Zhang – 15.09**
- **Jingbo Ni – 19.09**
- **Jing Gao – 25.09**
- **Rasmus Christensen – 10.10**
- **Tanzila Sharker – 22.10**
- **Morten Eneberg Nielsen – 27.10**
- **Rikke Hindsgaul Harders – 28.10**
- **Malene Heilskov Veje – 05.11**
- **Bastian Stiem Kirkebæk – 21.11**
- **Akam Petersen 26.11**
- **Hanne Lyngholm Larsen 28.11**
- **Mayra Evangelina Darre – 17.12**
- **Sebastian Mølvang Dall – 18.12**

Postdocs (8)

- **Anastasiia Bohush, Medical Biotechnology**
- **Simone Terp Karlsson, Medical Biotechnology**
- **Passanun Lomwongsopon, Bioresources and Process Engineering**
- **Sebastian Mølvang Dall, Environmental Microbiology**
- **Andreas Havbro Faber, Functional Ecology and Genomics**
- **Zhencai Li, Disordered Materials**
- **Jingbo Ni, Disordered Materials**
- **Antoine Vardon, Disordered Materials**

Researchers (2)

- **Virender Kumar, Bioresources and Process Engineering**
- **Varsha Kale, Environmental Microbiology**

Associate Professor (2)

- **Miguel Rodriguez Rojas, Environmental Microbiology**
- **Xinxin Xiao, Applied Supramolecular Chemistry**

Senior Researchers (2)

- **Maria Chuvochina, Environmental Microbiology**
- **Donovan Parks, Environmental Microbiology**

Professors (2)

- **Trine Rolighed Thomsen, Medical Biotechnology**
- **Irene Petrinic, Bioresources and Process Engineering (Guest Professor, Otto Mønsted)**

Technical Administrative Staff (3)

- **Nete Helt Zielke, Environmental Biomonitoring (Biologist)**
- **Martin Brandstrup Olesen, Disordered Materials (Lab-Engineer)**
- **Ane Louise Vendelin Olesen, Administration (AC-TAP)**

Time to say goodbye to

Assoc. Prof Casper Steinmann

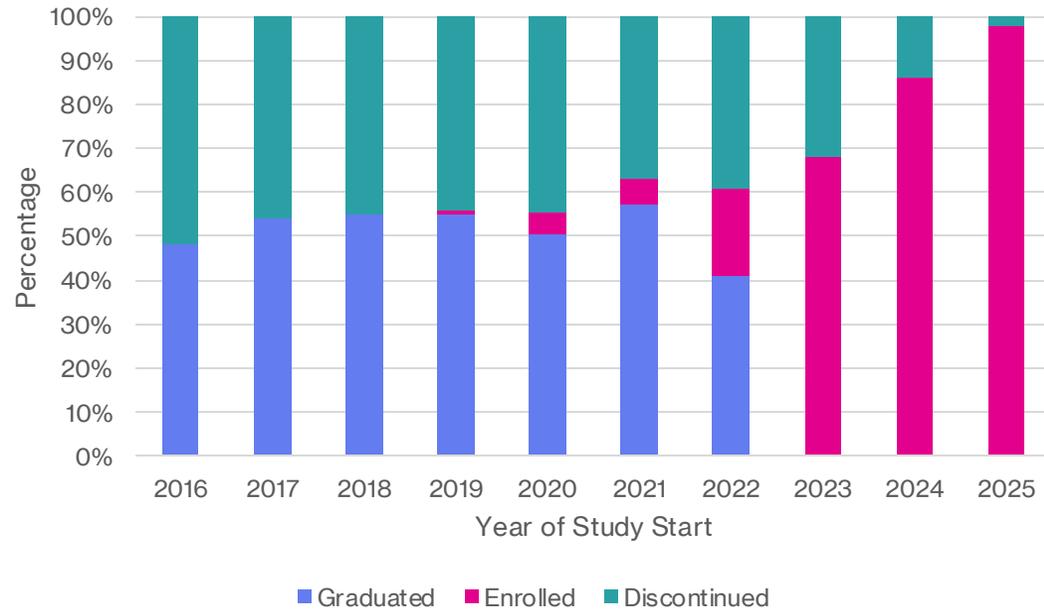


GOODBYE AND
GOOD LUCK!

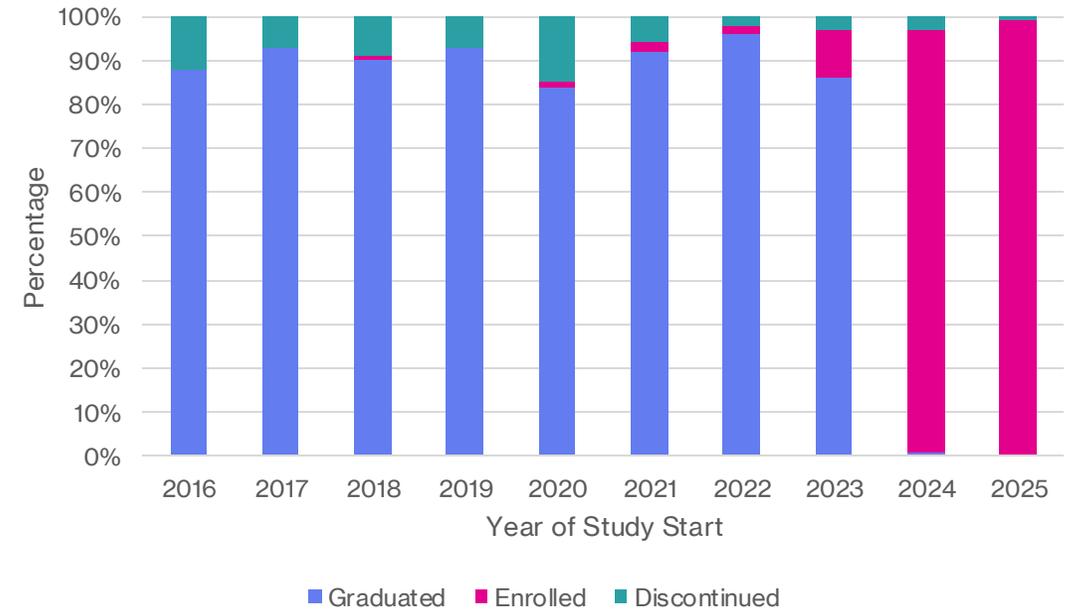


Studies: Student Retention and Completion

End Status on B.Sc. and B.Eng. Students per Year of Study Start

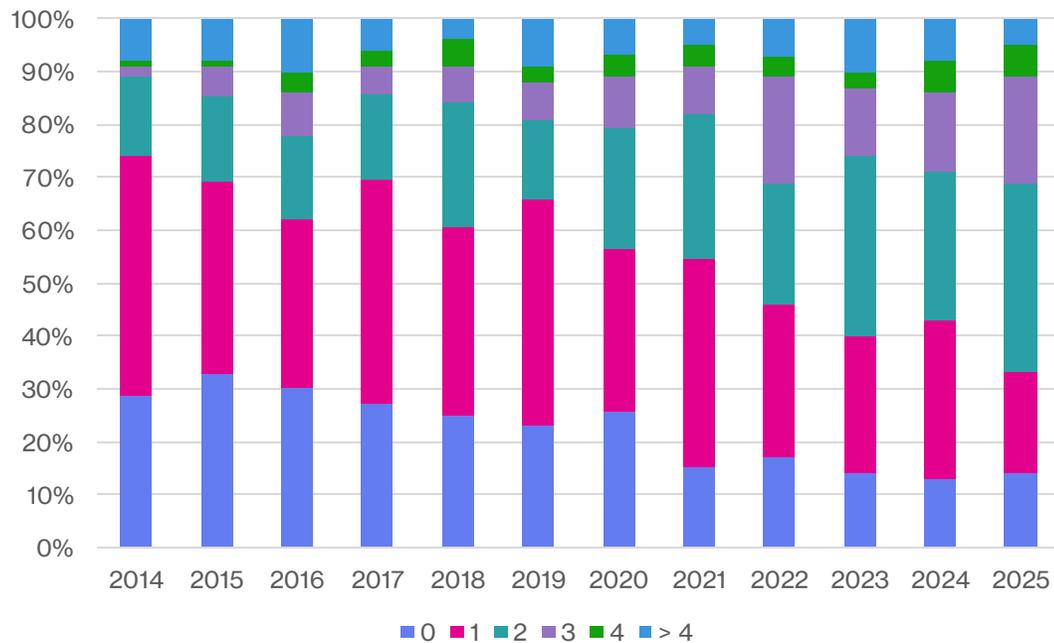


End Status on M.Sc. Students per Year of Study Start

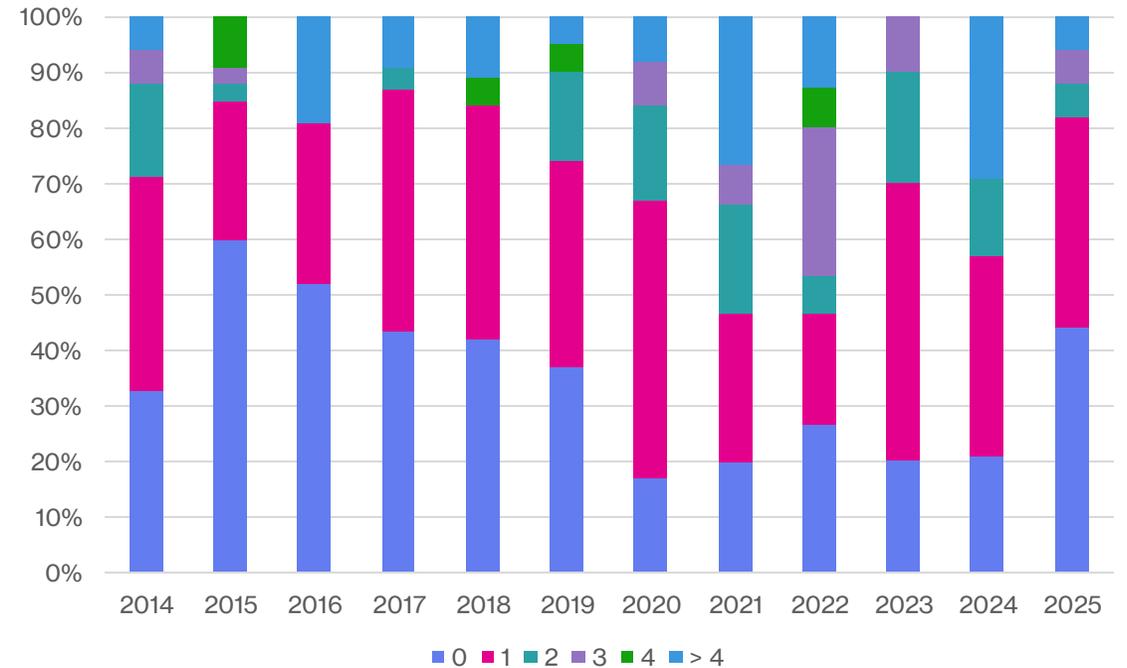


Studies: Uptake grouped by age at qualifying examination

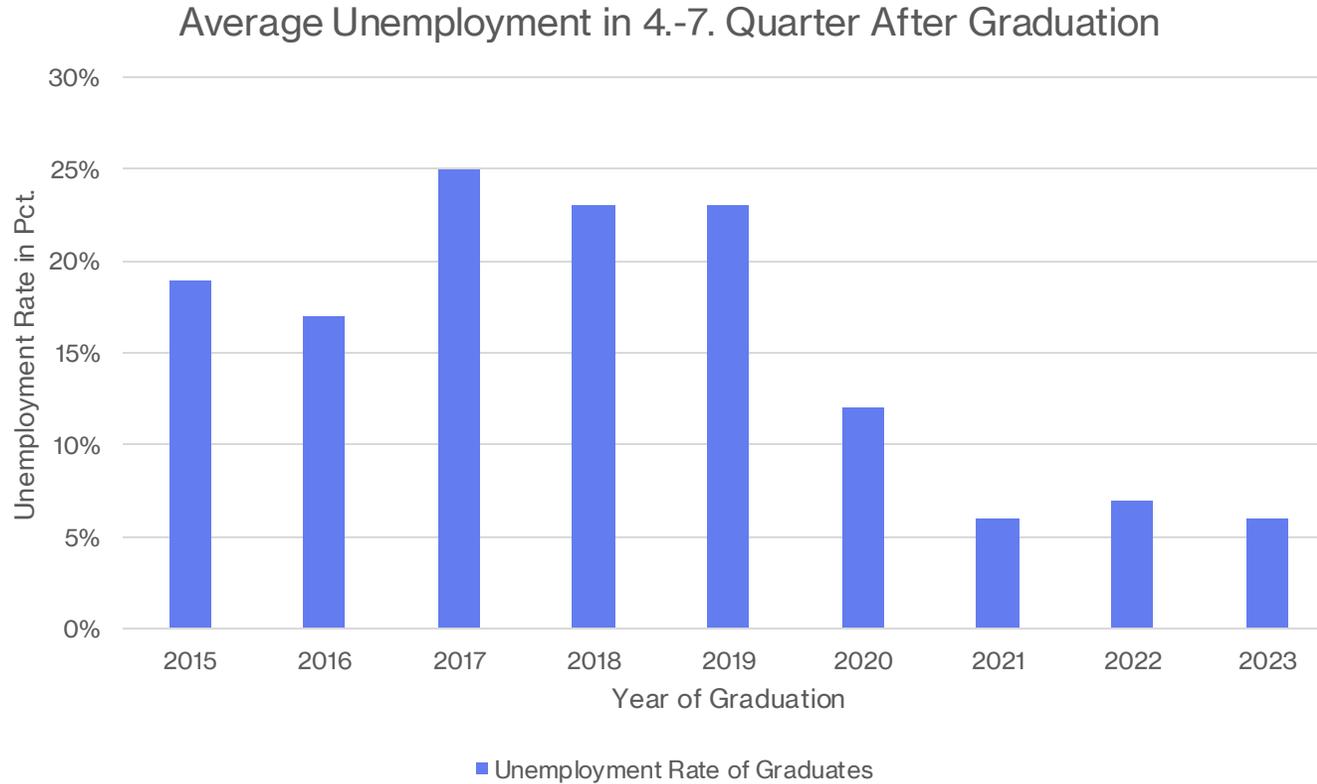
The proportion of admitted students in Aalborg via KOT, grouped by age at the qualifying examination.



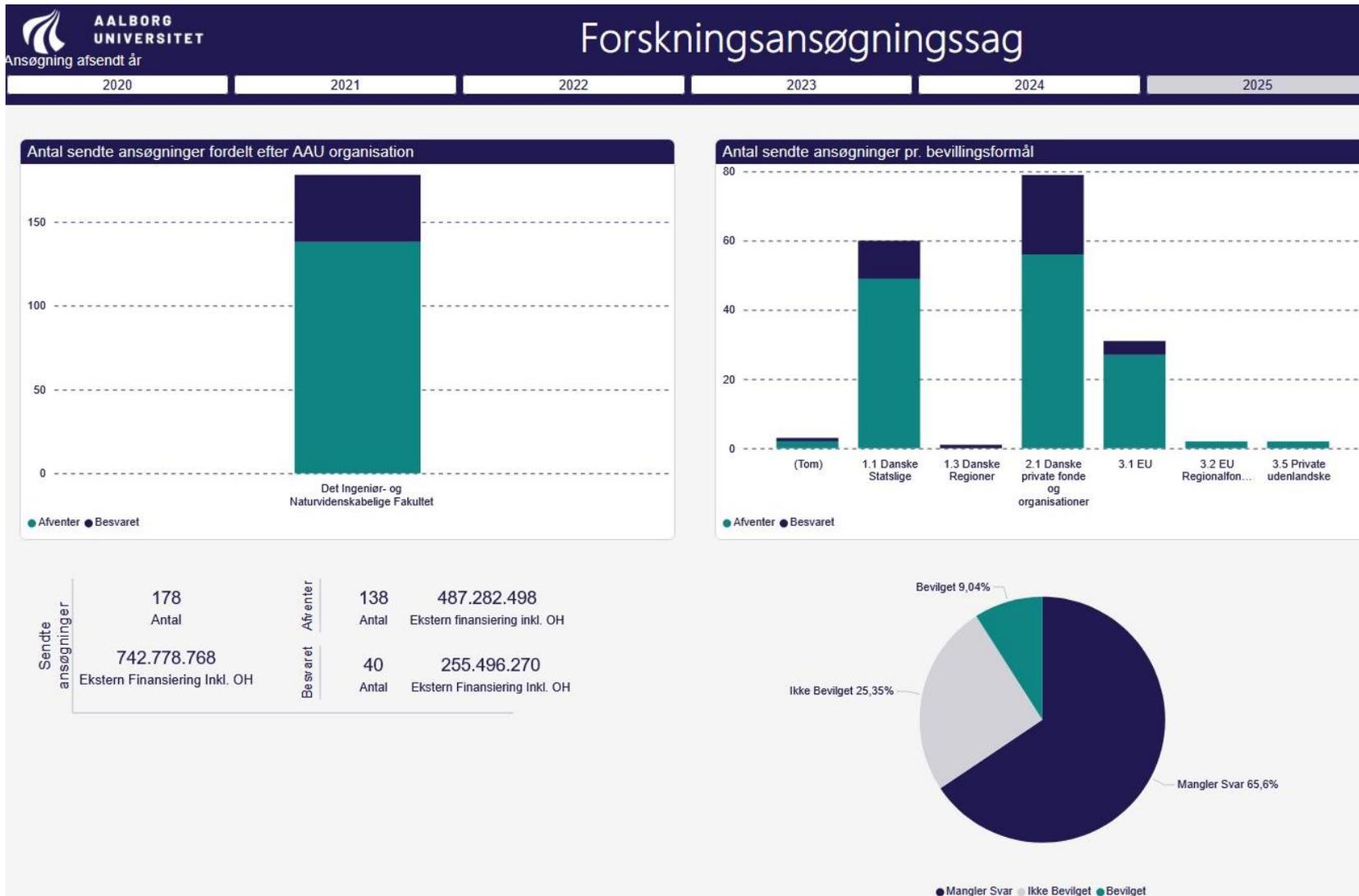
The proportion of admitted students in Esbjerg via KOT, grouped by age at the qualifying examination.



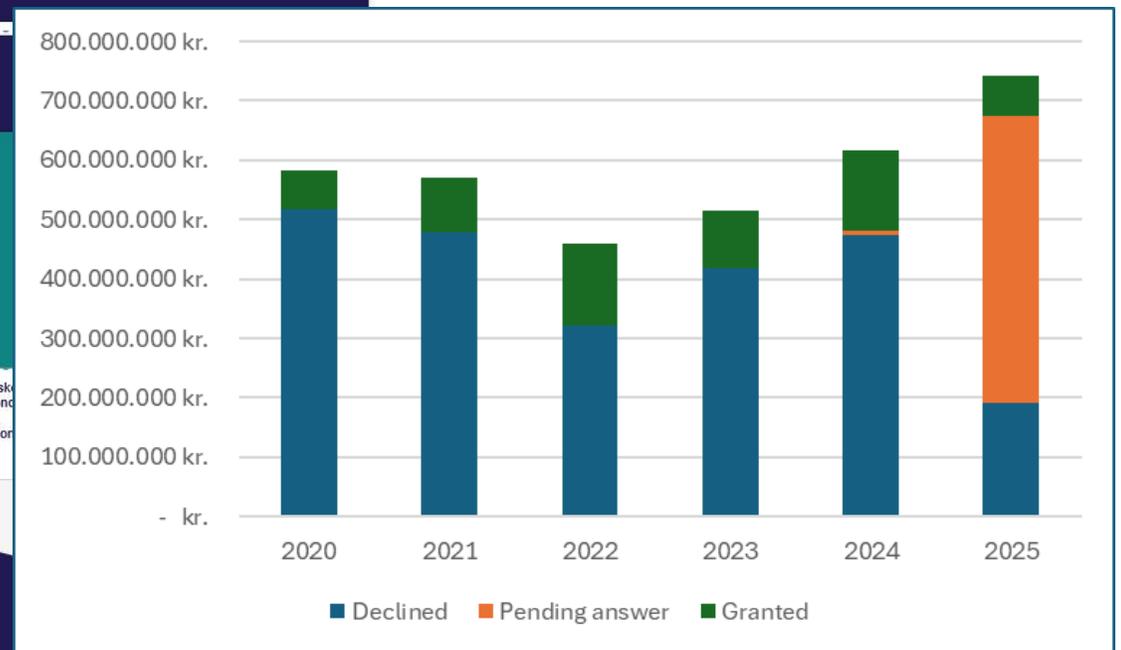
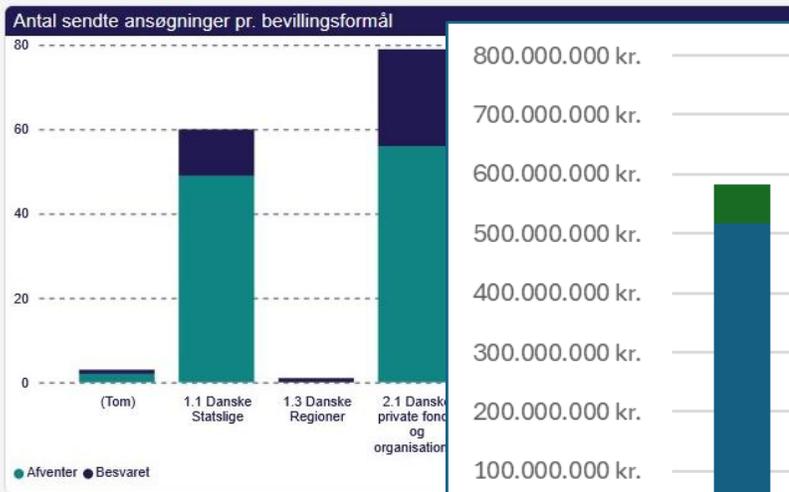
Studies: Unemployment of Our Graduates



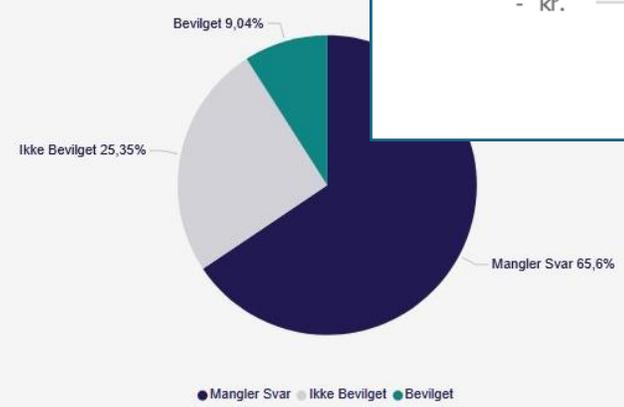
From applications to funding



From applications to funding



Sendte ansøgninger	Afventer		Besvaret	
	Antal	Ekstern finansiering inkl. OH	Antal	Ekstern finansiering inkl. OH
178	742.778.768	138	255.496.270	
		40	487.282.498	



Grants, Prizes & Awards

Arven efter "Mr. Offshore" lever videre: To ildsjæle hædret i Musikhuset

To ildsjæle blev torsdag hyldet i Musikhuset, da arven efter "Mr. Offshore" fik nyt liv gennem en pris, der skal sætte fokus på både erhverv og medmenneskelighed.



Kim Lambertsen Larsen ✓ • 1.
Professor, Head of Department, Department of Chemistry and Bioscience, Aalborg...
4md. • 🌐

As a leader, few moments bring greater pride than recognizing the achievements of employees and colleagues.

Friday the 29th of August, we celebrated two outstanding researchers at the [Institut for Kemi og Biovidenskab, Aalborg Universitet](#) – Professor [Yuanzheng Yue](#) and Professor [Morten Mattrup Smedskjaer](#) – for their remarkable contributions and well-deserved international recognition.

Both have been awarded the prestigious Dalton Horizon Prize from the [Royal Society of Chemistry](#) for their pioneering work on MOF-glass – a groundbreaking new class of glass with unique properties and vast potential for the green transition.



AAU Technology Transfer Office

2.458 følgere
4md. • 🌐

Congratulations to the team behind **AquaTerra** - A sustainable and green solution for desalination who has received an Innoexplorer grant from [Innovationsfonden](#) 💧



Institut for Kemi og Biovidenskab, Aalborg Universitet
5.455 følgere
3md. • Redigeret • 🌐

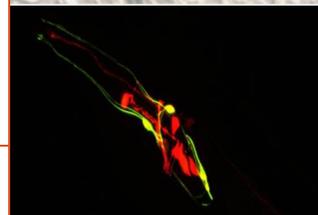
Du ligner en rundorm meget mere, end du tror 🐛
Ordene kommer fra lektor [Anders Olsen](#), der flittigt bruger rundormen *C. elegans* til sin forskning. I dag er han modtager af en stor Villum Experiment-bevilling ... mere

VILLUM EXPERIMENT-BEVILLING

Anders Olsen modtager bevilling til forskning i cellulær kommunikation



INSTITUT FOR KEMI OG BIOVIDENSKAB AALBORG UNIVERSITET



From Research to Public Understanding

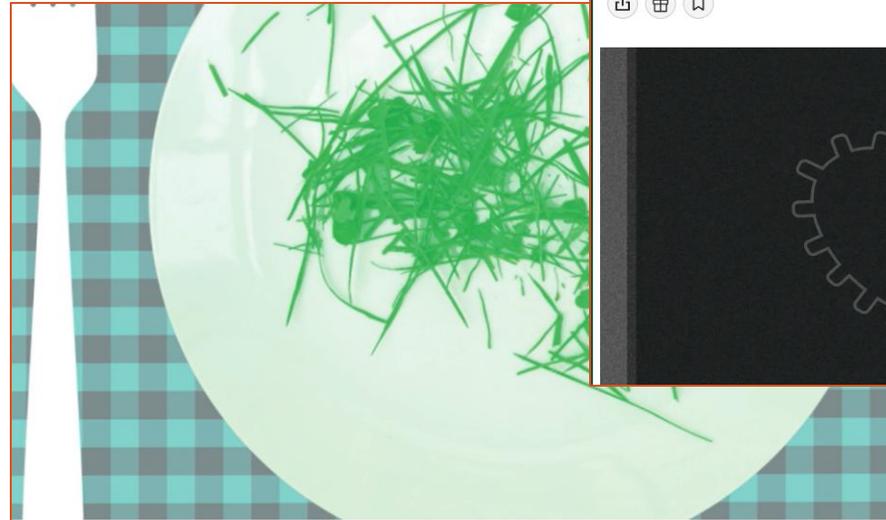
Top 3 Researchers in Media in Q2, Q3 2025

- Mads Albertsen, 29 mentions
- Sussie Pagh, 12 mentions
- Morten Eneberg Nielsen, 11 mentions
- Mette Lübeck, 11 mentions

Sygdommen rammer 20.000 om året, og hver femte dør: En ny metode stiller hurtig diagnose og kan redde mange liv

Døde bakterier i en simpel blodprøve skal fremover sikre, at patienter med livstruende infektioner langt hurtigere får den rette behandling.

 Tea Krogh Sørensen



 Indland • 23. jun. 2025 kl. 07:00

Køer og heste elsker at spise græs - nu skal det også på din tallerken



Dyr er styret af instinkter, mens vi mennesker er logisk tænkende væsner på et højere niveau. Eller hvad? Forståelsen af dyrs bevidsthed og evner har ændret sig gennem tiden, fordi der er kommet mere forskning og bedre undersøgelser. Så har vi undervurderet de andre arter?

Gæst: Seniorforsker Sussie Pagh, Institut for Kemi og Biovidenskab på Aalborg Universitet. Forfatter til bøgerne "Tænker dyr?" og "Nordens kloge kragefugle".

Værter: Biologerne Johan Olsen og Vicky Knudsen.

Producer: Carsten Nielsen.

vildtnaturligt@dr.dk

VILDT NATURLIGT >

Tænker dyr? Hvordan finder vi ud af det?

9. jun 2025 | 56 min. | P1

Danmarks Naturvidenskabelige Akademi



Industripris



Danmarks Naturvidenskabelige Akademi



Industripris

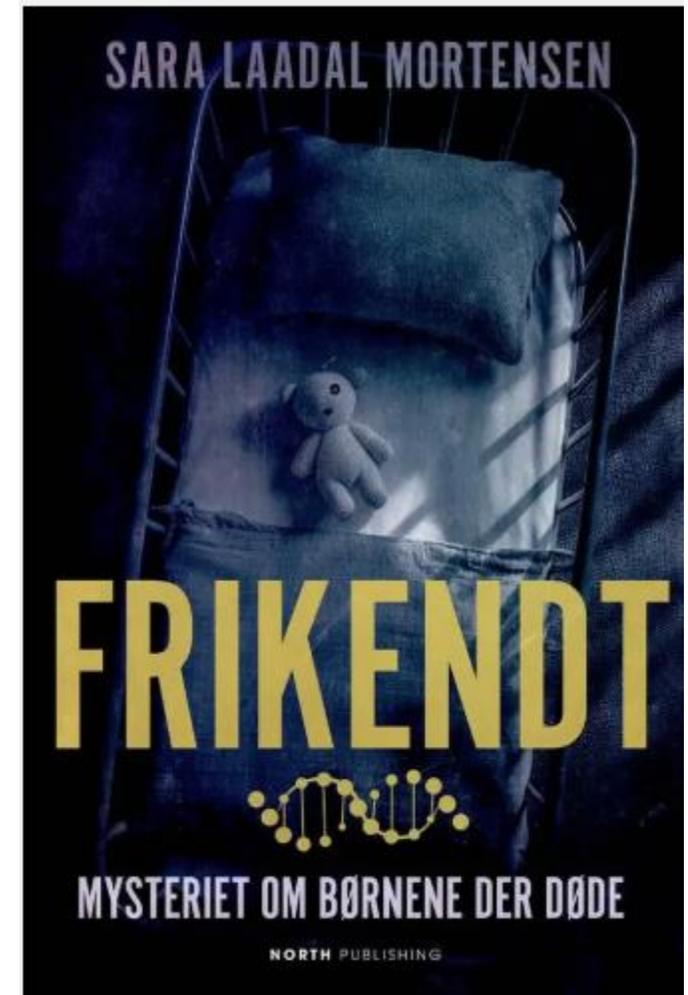
Hun stod bag tv-dokumentar om vildt rets-drama: Nu har hun skrevet bog om forløbet

22. JANUAR 2026 BY [PETER FROM JACOBSEN](#)



For nylig kunne Sara Laadal Mortensen (i midten) sammen med de to gen-forskere Mette Nyegaard og Michael Toft Overgaard fejre, at bogen "Frikendt", hvor hun fortæller hele historien om den dramatiske retssag, nu var klar til at blive sendt ud til boghandlerne.

Journalist Sara Laadal Mortensen fra Brabrand var hovedkraften bag den hjertegribende dokumentar om australske Kathleen Folbigg, som blev idømt 40 års fængsel for at have dræbt sine fire børn. Torsdag debuterer Sara Laadal Mortensen som forfatter, når hendes bog om dramaet udkommer.



More stories in the media

 **Institut for Kemi og Biovidenskab, Aalborg Universitet**
5.455 følgere
4t • 

Ny membranteknologi forvandler meget forurenet vand til rent og sikkert drikkevand 

Lektor **Vittorio Boffa** har sammen med kollegerne **Xinxin Chen** og **Yuanzheng** udviklet en avanceret keramisk membran, der kan rense meget forurenet spildevand fra f.eks. fiskeopdræt, spildevand fra vores byer og industrispildevand.



 **Institut for Kemi og Biovidenskab, Aalborg Universitet**
5.455 følgere
3md. • 

Hadersleviella, Glyngoereum, Rungstediana – måske har DIT sogn også lagt navn til en ny bakterie? ... mere



med Mads Albर्टsen

nature communications

Explore content ▾ About the journal ▾ Publish with us ▾

nature > nature communications > articles > article

Article | [Open access](#) | Published: 30 July 2025

Continuous structure modification of metal-organic framework glasses via halide salts



 **Institut for Kemi og Biovidenskab, Aalborg Universitet**
5.455 følgere
3u • 

Hils på Aalborg Universitets bæredygtige pølsemand  

Christian Enrico Rusbjerg-Weberskov var på gaden i går for at dele ... mere





VILDT NATURLIGT >

Laboratorie-larver og fluer i madpakken

11. aug 2025 | 56 min. | P1

Gæster: Postdoc Laura Skrubbeltrang Hansen fra Aarhus Universitet og postdoc Stine Frey Laursen fra Aalborg Universitet.

Værter: Biologerne Johan Olsen og Vicky Knudsen.

Producer: Carsten Nielsen.

vildtnaturligt@dr.dk

nature

Explore content ▾ About the journal ▾ Publish with us ▾

nature > articles > article

Article | [Open access](#) | Published: 03 December 2025

The Microflora Danica atlas of Danish environmental microbiomes



Department Seminar
at AAU Create



Several Birthday
Celebrations



Awards, Prizes etc.



Christmas Dinners

CELEBRATIONS & EVENTS 2025

Jubilees in 2026

**Morten Lykkegaard
Christensen
01.03.2026
(25 years)**

**Trine Rolighed
Thomsen
24.03.2026
(25 years)**

**Susanne
Schøneberg
21.05.2026
(25 years)**

**Professorial Inaugural
and Transfer Lectures
with reception
20 March 2026**

**Trine Rolighed Thomsen
Mette Hedegaard Thomsen**



AAU Strategy

Joint meeting on new AAU strategy-
Department Council and the Consultation
Committee 29/10

→ Inputs provided to Rector's Office

Next: Comment period in the organization
(Jan/Feb) and University Board meeting -
Strategy for approval (9 April)

Four themes

- Develop AAU's leading engineering position
- Strengthen AAU's mission initiatives
- Foster regional innovation
- Attract and develop talented researchers

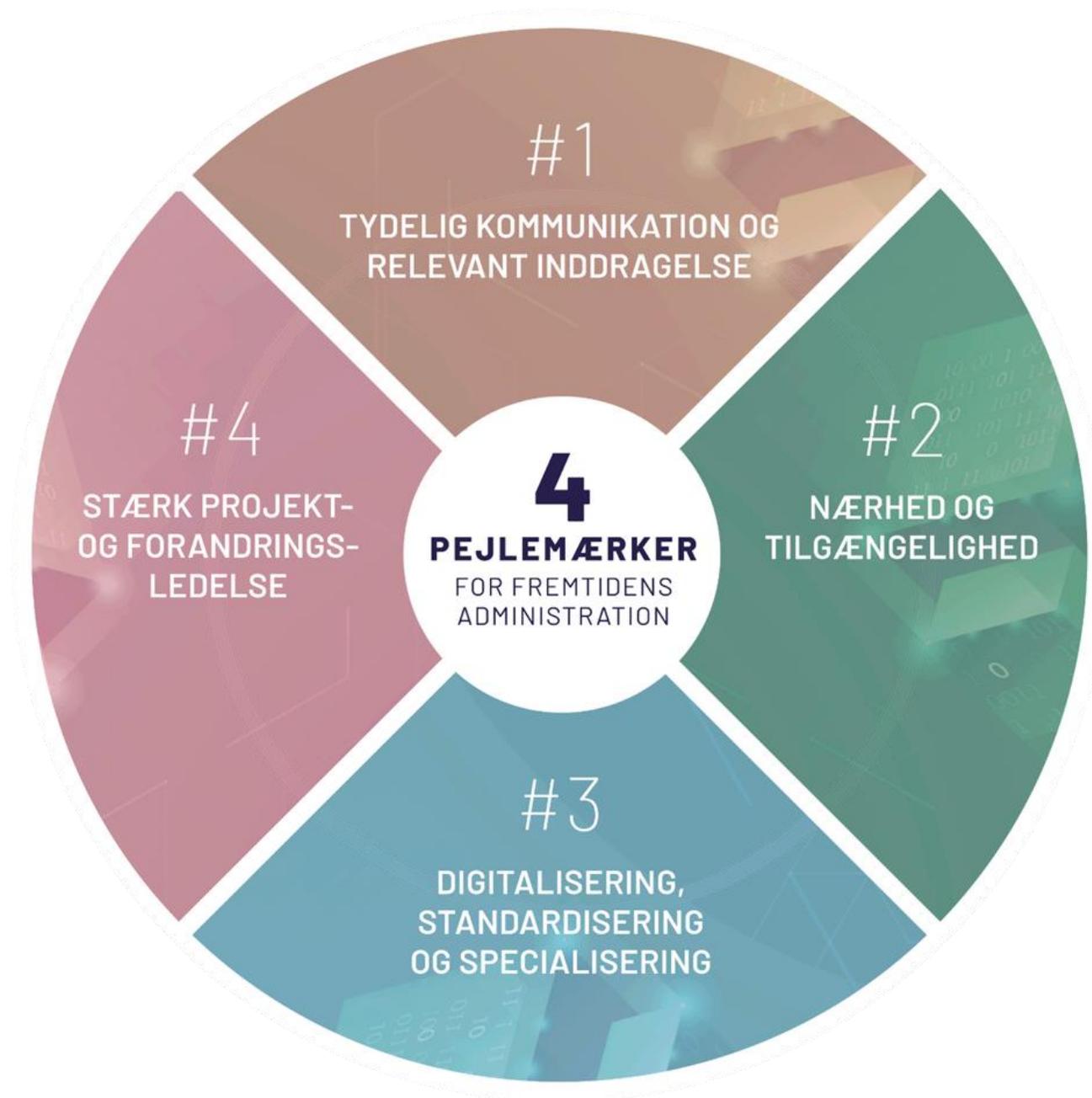


**Department
Evaluation 2026
4 May – 8 May**

HR & Economy Analysis 2025/2026

Information about the Executive Board's
decision will be given to Head of Department

26 January 2026



Working Environment and Well-being

Thank you for participating in the AAU Staff and Well-being barometer. The response rate for the Department ended at 87%

→ Results will be sent to the Management February 6, 2026 and the Staff February 13, 2026

Next

The Consultation Committee will discuss the results February 9, 2026 and each Section will have a meeting about the Section's results in February or March. At these meetings the Section's will receive their prize.

Response rates

Unit	Dec. 1st	Dec. 8th	Dec. 15th	Final	Prize
Dept. of Chemistry and Bioscience	43 %	62 %	77 %	87 %	
Secretariat	53 %	79 %	89 %	95 %	Cake
Applied Supramolecular Chemistry	33 %	56 %	67 %	67 %	Biscuits
Bioresources and Process Engineering	29 %	43 %	79 %	83 %	Muffins
Chemical and Bioengineering	43 %	79 %	90 %	93 %	Cake

High-score

Response rates

Unit	Dec. 1st	Dec. 8th	Dec. 15th	Final	Prize
Disordered Materials	25 %	50 %	86 %	93 %	Cake
Environmental Biomonitoring	69 %	69 %	77 %	85 %	Muffins
Environmental Microbiology	42 %	61 %	78 %	81 %	Muffins
Functional Ecology and Genomics	57 %	65 %	83 %	87 %	Muffins
Medical Biotechnology	57 %	71 %	90 %	90 %	Muffins

Time to find the winner(s) of
THE BIG BIO QUIZ:
What happened at
BIO in 2025?

So... Where Was the Quiz?

ARTIKEL

CHRISTMAS GREETINGS AND NEWS FROM THE HEAD OF DEPARTMENT

LAGT ONLINE: 18.12.2025



[Read the latest news from the desk of the Head of Department here](#)

So... Where Was the Quiz?

ARTIKEL

CHRISTMAS GREETINGS AND NEWS FF DEPARTI

LAGT ONLINE: 18.12.2025

A CHANCE TO WIN A PRIZE

Congratulations—you've reached the end of the Head of Department news segment for this final newsletter of the year! As a thank-you, you now have the chance to win an attractive prize at the New Years Gathering on 23th January by participating in our 2025 Year in Review Quiz.

[Participate here \(Click on the text\)](#)

Hint: All answers can be found in this year's department newsletters.



THE BIG BIO QUIZ: What happened at BIO in 2025?

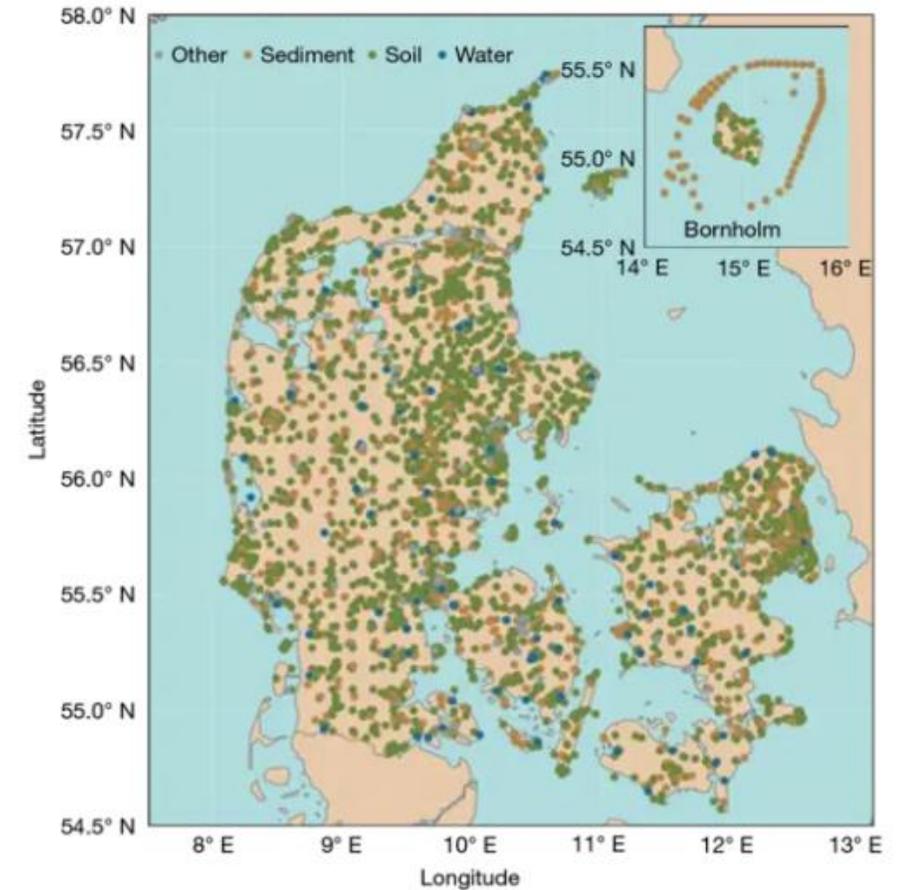
1. When was the Department Summer Seminar 2025? August 21-22, 2025
2. Which Professor was one of the 2025 EliteForsk recipients? Morten Mattrup Smedskjær
3. What did the Minister for Green Tripartite (Grøn Trepert), Jeppe Bruus, taste when he visited BIO March 21, 2025? Grass protein
4. How many Strategic Focus Areas do we have in the BIO Strategy 2025-2029? 5
5. How many PhD defenses have been held at BIO in 2025? 25
6. Who received the Teacher of the Year 2025 award at BIO? Sergey Kucheryavskiy
7. Who received the Royal Danish Academy of Sciences and Letters Gold Medal in 2025? Per Halkjær Nielsen
8. When is the best day at BIO - also known as "Brunsvigerens Dag"? 9. October

The Microflora Danica atlas of Danish environmental microbiomes

[C. M. Singleton](#), [T. B. N. Jensen](#), [F. Delogu](#), [K. S. Knudsen](#), [E. A. Sørensen](#), [V. R. Jørgensen](#), [S. M. Karst](#), [Y. Yang](#), [M. Sereika](#), [F. Petriglieri](#), [S. Knutsson](#), [S. M. Dall](#), [R. H. Kirkegaard](#), [J. M. Kristensen](#), [C. K. Overgaard](#), [B. J. Woodcroft](#), [D. R. Speth](#), [S. T. N. Aroney](#), [The Microflora Danica Consortium](#), [M. Wagner](#), [M. K. D. Dueholm](#), [P. H. Nielsen](#)  & [M. Albertsen](#) 

Nature **649**, 971–981 (2026) | [Cite this article](#)

25k Accesses | **155** Altmetric | [Metrics](#)



The MFD samples cover the land of Denmark and its surrounding waters. The map depicts the locations of the samples used for metagenomics.

The Microflora Danica atlas of Danish environmental microbiomes

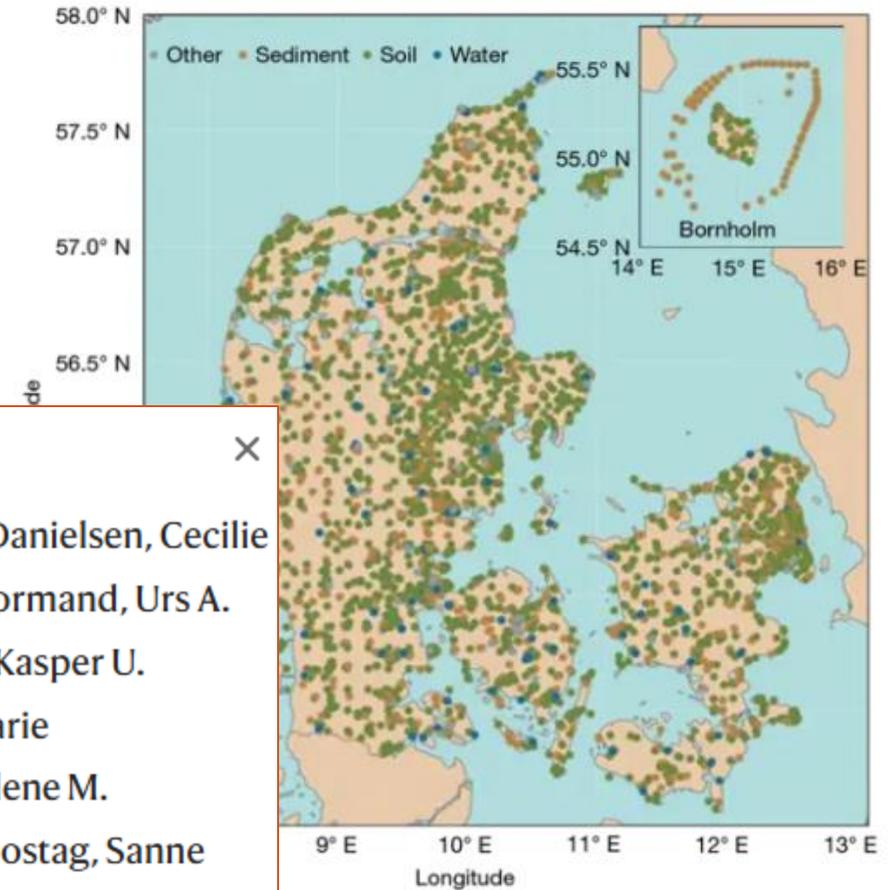
[C. M. Singleton](#), [T. B. N. Jensen](#), [F. Delogu](#), [K. S. Knudsen](#), [E. A. Sørensen](#), [V. R. Jørgensen](#), [S. M. Karst](#), [Y. Yang](#), [M. Sereika](#), [F. Petriglieri](#), [S. Knutsson](#), [S. M. Dall](#), [R. H. Kirkegaard](#), [J. M. Kristensen](#), [C. K. Overgaard](#), [B. J. Woodcroft](#), [D. R. Speth](#), [S. T. N. Aroney](#), [The Microflora Danica Consortium](#), [M. Wagner](#), [M. K. D. Dueholm](#), [P. H. Nielsen](#) ✉ & [M. Albertsen](#) ✉

[Nature](#) **649**, 971–981

25k Accesses | **155**

The Microflora Danica Consortium

Henning C. Thomsen, Bent T. Christensen, Lis W. de Jonge, Anne-Cathrine S. Danielsen, Cecilie Hermansen, Mogens H. Greve, Rasmus Ejrnæs, Thomas A. Davidson, Signe Normand, Urs A. Treier, Bjarke Madsen, Andreas Schramm, Ian P. G. Marshall, Ann-Sofie Dam, Kasper U. Kjeldsen, Kai Finster, Philip F. Thomsen, Eva E. Sigsgaard, Martin J. Klepke, Marie Vestergård, Erik Aude, Lene Thomsen, Camilla Lemming, Rita Hørfarter, Marlene M. Jensen, Tobias G. Frøslev, Lone Gram, Peter B. Svendsen, Morten Dencker Schostag, Sanne Kjellerup, Torben L. Skovhus, Ditte A. Søborg, Kasper Reitzel, Jørgen F. Pedersen, Andrew Giguere, Inge S. Pedersen, Mads Sønderkær, Jes Vollertsen, Fan Liu, Peter Roslev, Niels Iversen, Kåre L. Nielsen, Nadieh de Jonge, Dan Bruhn, Jeppe L. Nielsen, Torsten N. Kristensen, Chenjing Jiang, Marta A. Nierychlo & Giulia Dottorini



over the land of Denmark and its surrounding
picts the locations of the samples used for

29 BIO staff!

??

Time for
Questions

Next up: Research Talk

Caitlin

Singleton

**MicroFlora Danica:
Diversity,
homogenisation, and the
hidden nitrifiers of
Denmark's microbial
atlas**

Singleton CM & Jensen TBN, Delogu F,
Knudsen KS, Sørensen EA, Jørgensen VR,
Karst SM, Yang Y, Sereika M, Petriglieri F,
Knutsson S, Dall SM, Kirkegaard RH,
Kristensen JM, Overgaard CK, Woodcroft
BJ, Speth DR, Aroney STN, The Microflora
Danica Consortium, Dueholm MKD,
Wagner M, Nielsen PH, Albertsen M

MICRO
FLORA
DANICA



Who am I? Assistant Professor – Nordjyske sampling model

Lørdag 27. december 2025 NORDJYSKE

7

KUN I E-AVISEN
Artiklerne på denne side
udgives kun digitalt

Telefon 9935 3535
E-mail aalborgpolitik@dnmh.dk
Adresse Østre Havnegade 63-65, 9000 Aalborg



Mads Albertsen, Per Halkjær Nielsen og Thomas B. N. Jensen på prøvetagning.

Foto: Aalborg Universitet v. Lasse Møller Badstue

FLORA DANICA Microflora Danica

*“generous attitude
[...] towards
natural science
and applied art”*



1752 – 122 years

*Microbial
diversity,
distribution
and function
at a national
scale*



Per H Nielsen



Mads Albertsen

POUL DUE JENSEN GRUNDFOS
FOUNDATION

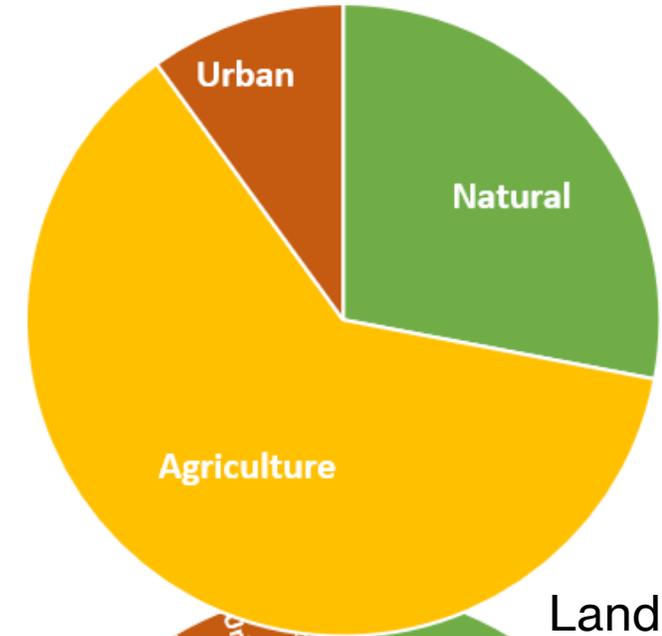
2019 – ongoing



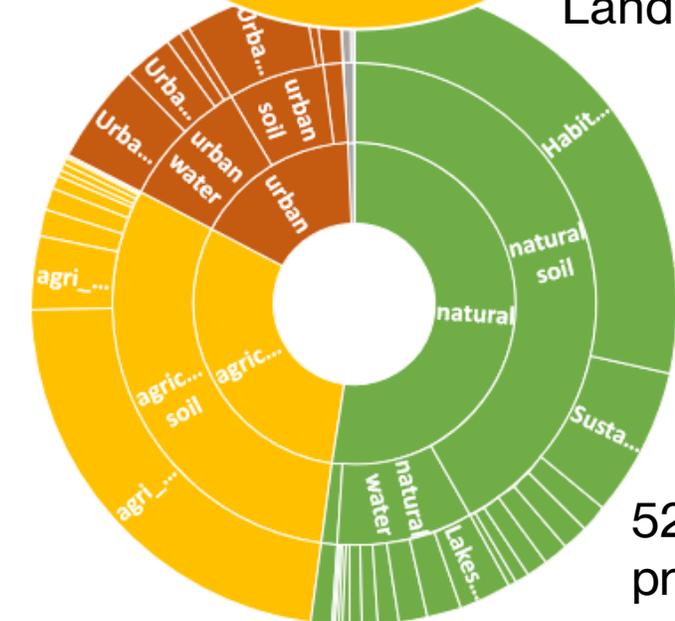
Sampling Danish habitats



Land use in Denmark



Land use in MF



52 sampling projects



Vibeke Rudkjøbing



Prof. Per H. Nielsen

Microflora Danica – The microbiome of Denmark



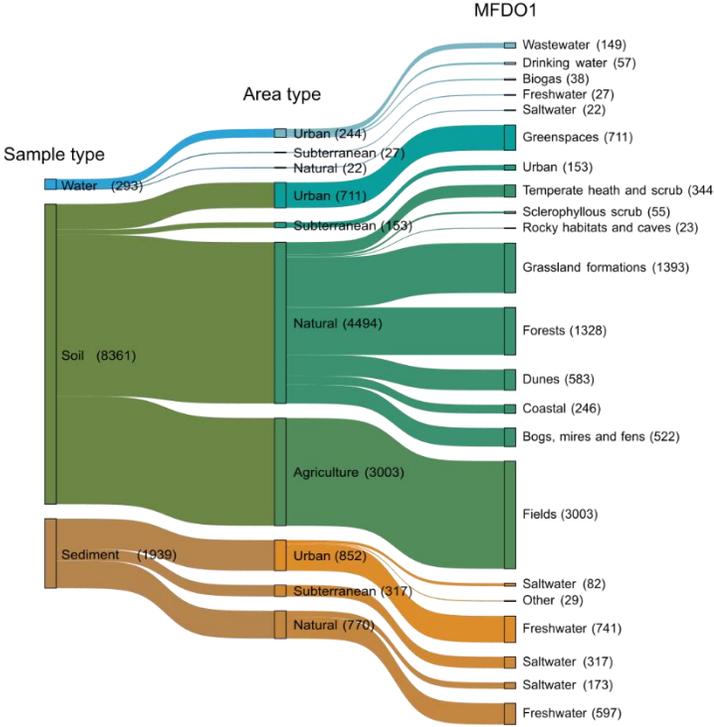
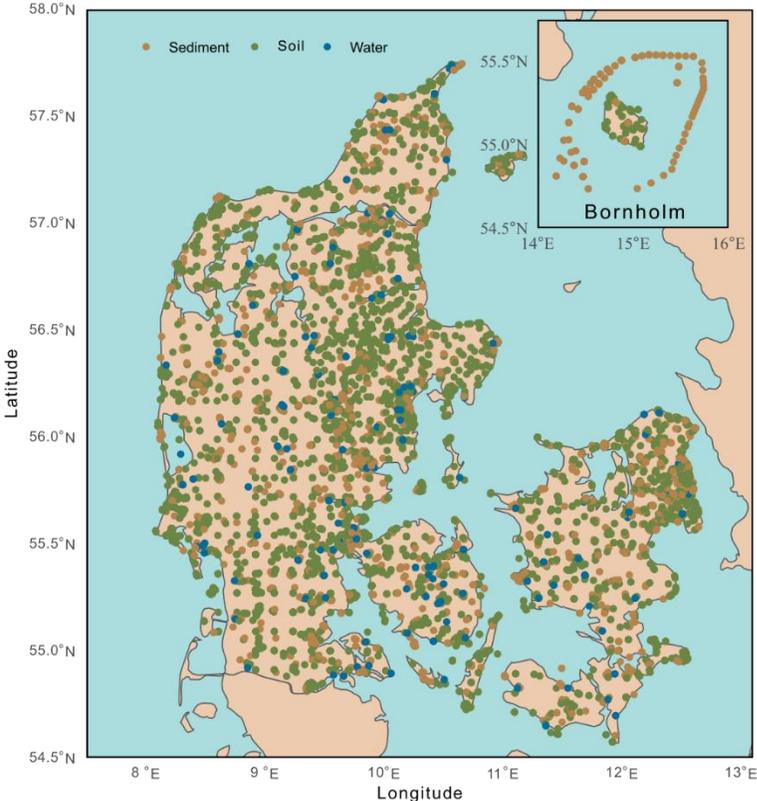
Thomas (PD)



Francesco (PD)



Average resolution:
1 sample per 4 km²

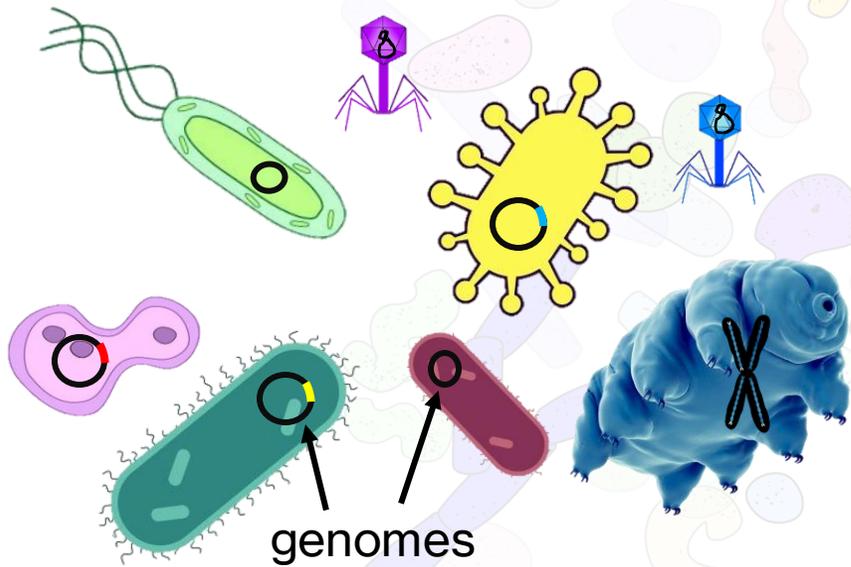




Tough luck Australia

Historical investigation using specific marker genes

“Who is there” based on a fingerprint



Function?

amplicon sequencing



Can't find what we don't know already

We need more to link microbes and function

What is the output from Microflora Danica?

450 samples

rRNA amplicons



Collection of fingerprint gene sequences "species database"



Emil A. Sørensen



Morten (AP)

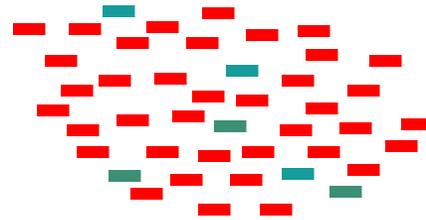


Thomas (PD)

Est. 114,400 terrestrial bacterial species (82.5%)

10,693 samples

Shotgun Metagenomics [Illumina, 5 Gbp, 150 bp]



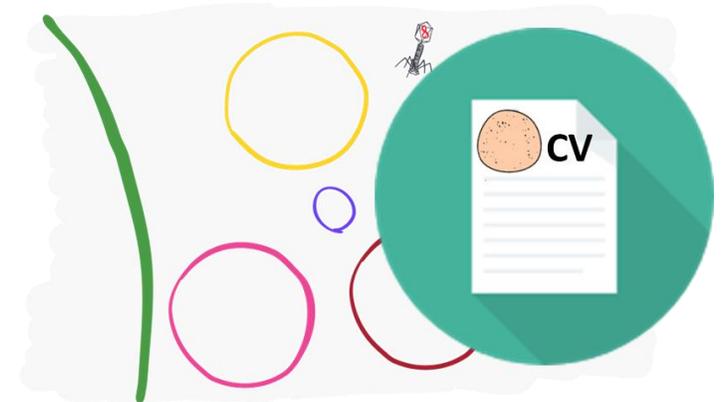
- **Abundance** of fingerprint genes across all samples.
- Investigation of fragments of **functional genes (*amoA*, *nxrA*)**
- **Retrieve genomes from novel bacteria**



Thomas (PD)

154 samples

Deep Metagenomics [Nanopore, 100 Gbp, 10,000 bp]



Retrieve **genomes** from novel bacteria
Link functions to new species

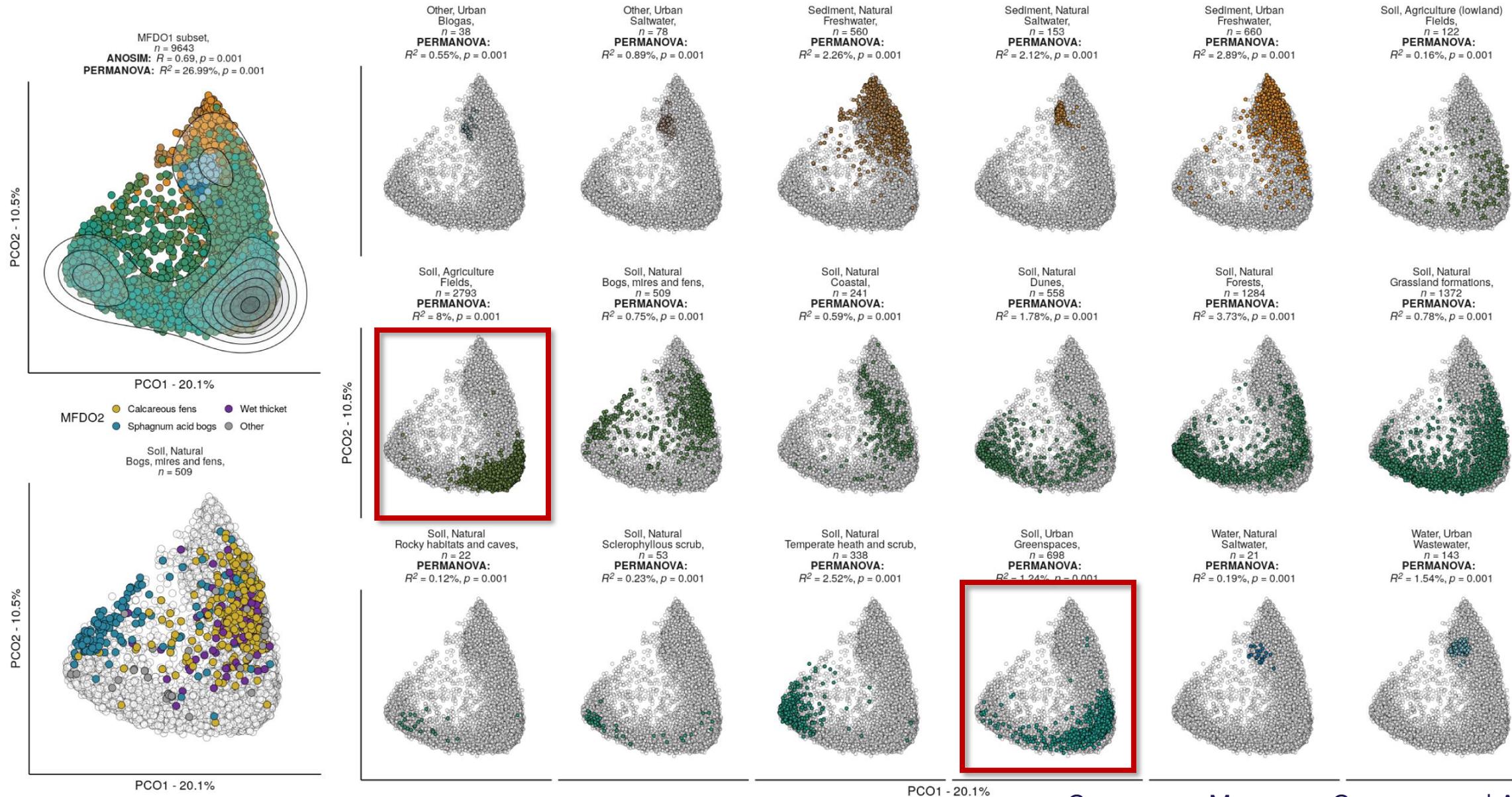
Ingeniør result of the year

Over 40,000 new genomes



Mantas (PD)

Major Danish habitat types display unique microbial communities



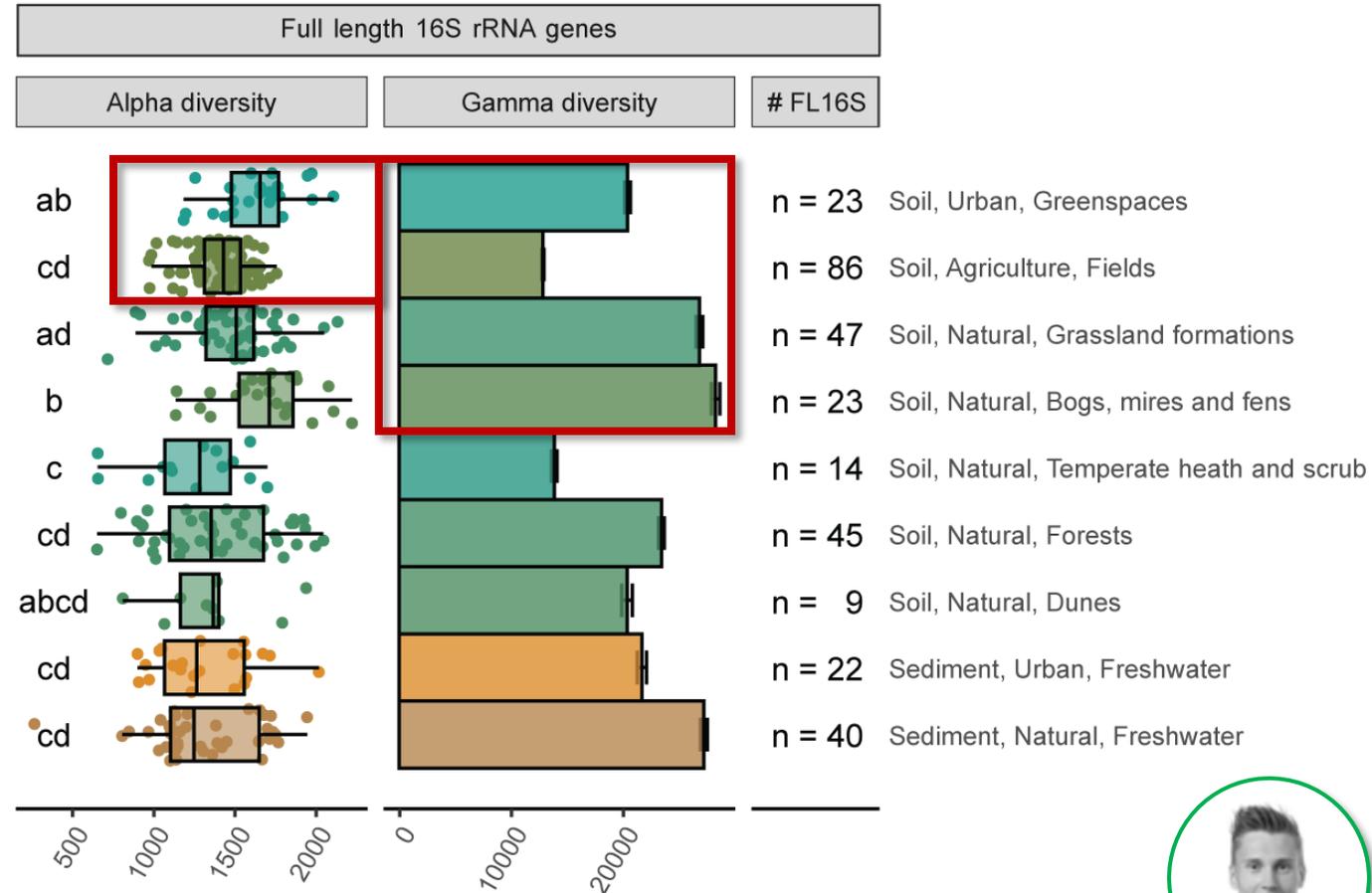
Thomas (PD)

Human disturbed habitats have high alpha diversity

Managed habitats display high alpha diversity

- Urban greenspaces
- Agriculture

But they have the same species! (hidden homogeneity)



Why care? Urban parks are for us, not nature



Thomas (PD)

The functional focus: Nitrogen cycling

Denmark is heavily cultivated

- More than 60% of Denmark's land is used in agriculture
- Impact of fertilisers is very important (116 kg per hectare in 2022)

Associated problems

- Nitrate leaching
- Contamination of surrounding ecosystems
- Nitrous oxide emissions (79.5% of Denmark's total N₂O emissions)



<https://www.britannica.com/place/Denmark/Resources-and-power>



Nitrogen cycling: The nitrifiers

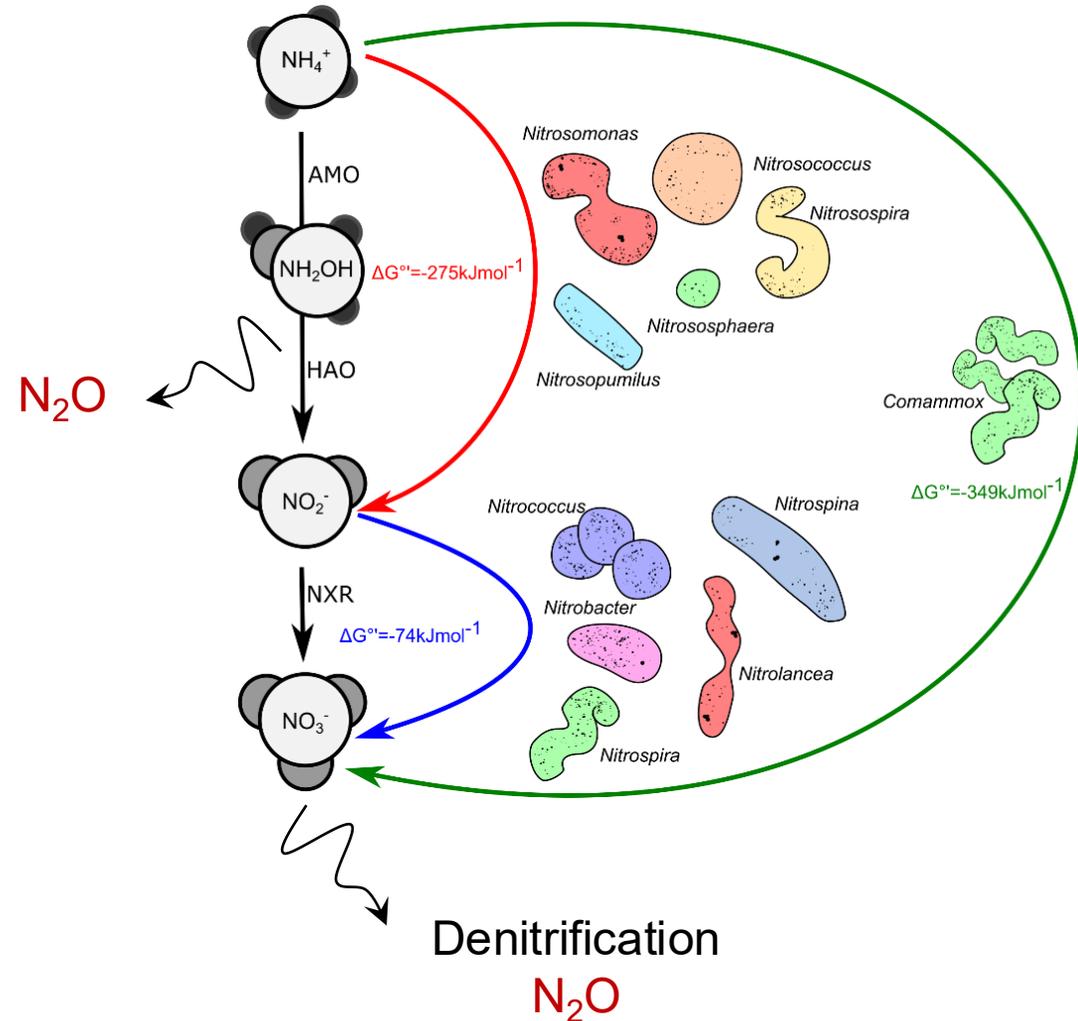
Nitrifiers are abundant across Denmark

Who are they?

Can we identify new nitrifiers?

Do we see a nitrifier fingerprint in disturbed vs natural environments at the *species* level?

Why care? Nitrifiers have different N₂O production



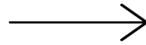
Approaches for investigating function



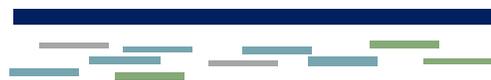
Kalinka (PhD)

Gene-centric approach – investigate functional genes in known groups

10 000 shallow metagenomes
[Illumina 5 Gbp]



Gene-centric classification
[Illumina 5 Gbp]



Ammonia monoxygenase subunit A
Nitrite oxidoreductase subunit A

Functional potential ≠ activity

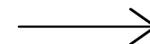
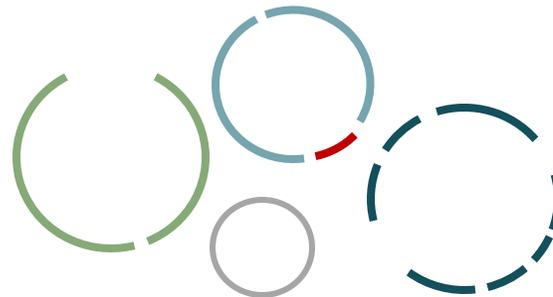


Genome-centric approach – find new nitrifiers

150 Deep metagenomes
[PromethION 100 Gbp]



Generation of MAGs
Metagenome assembled genomes



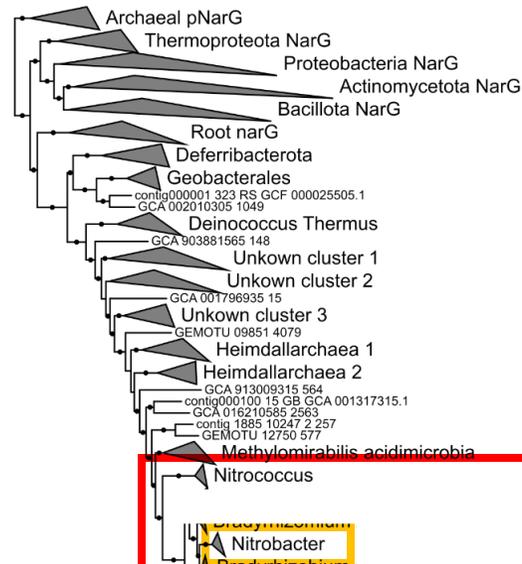
New species with functional genes?

We found new potential nitrifiers



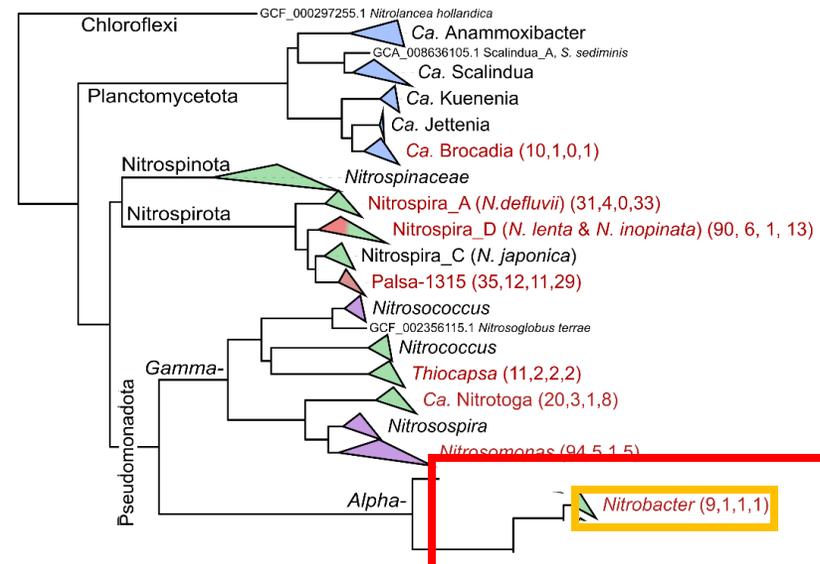
Kalinka (PhD)

Gene tree cNxrA/NarG



Tree scale: 0.1
Bootstrap > 95%

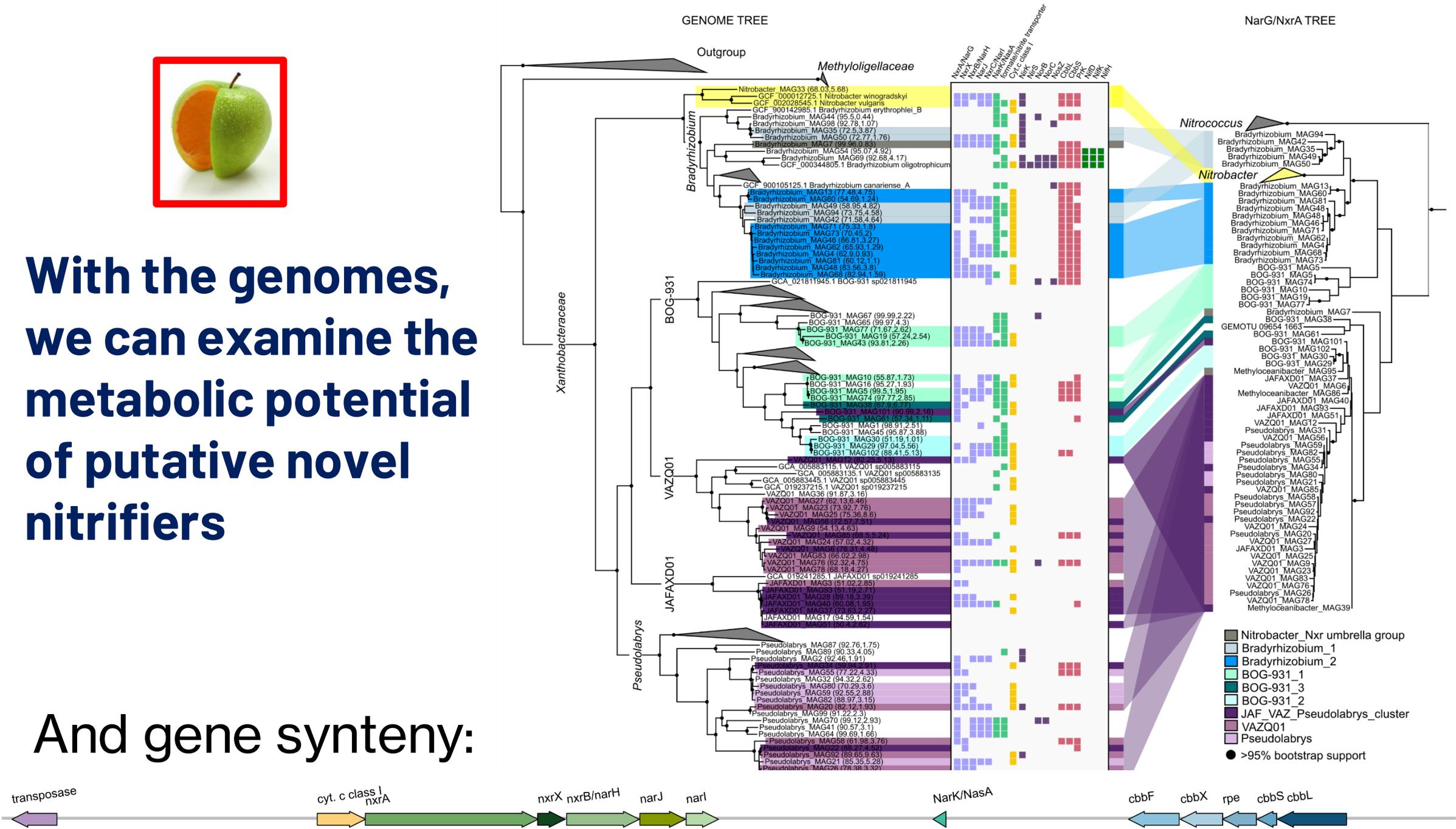
Genome tree



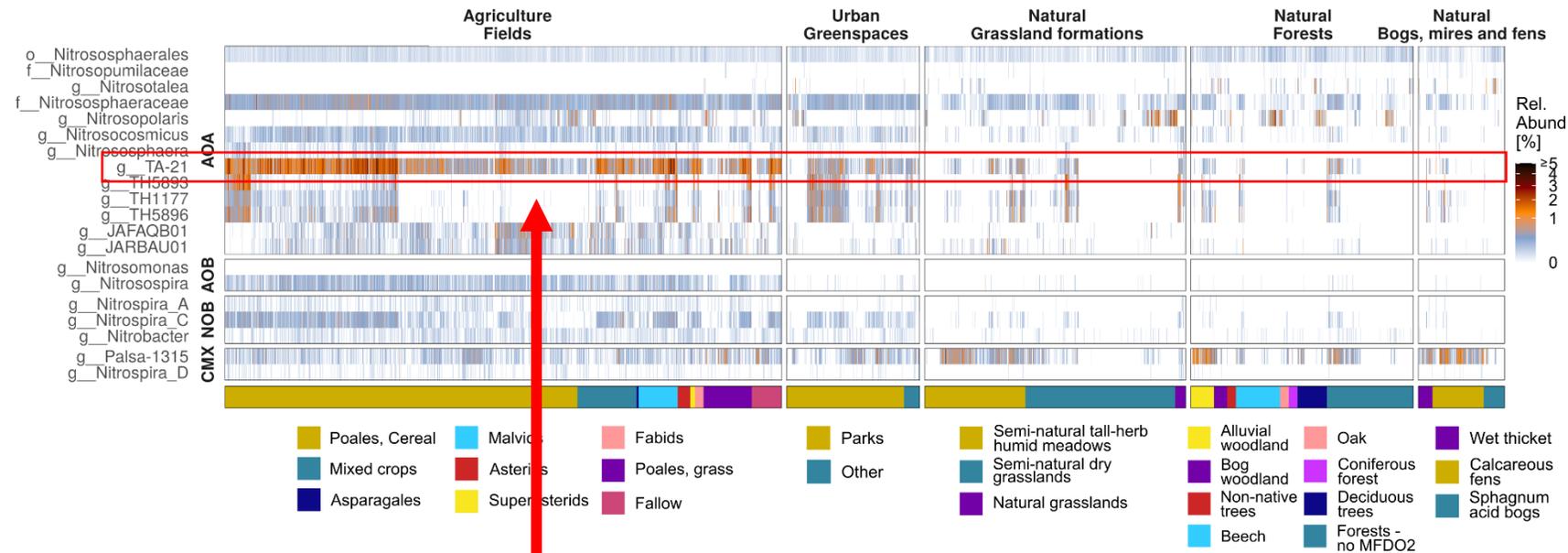


With the genomes,
we can examine the
metabolic potential
of putative novel
nitrifiers

And gene synteny:



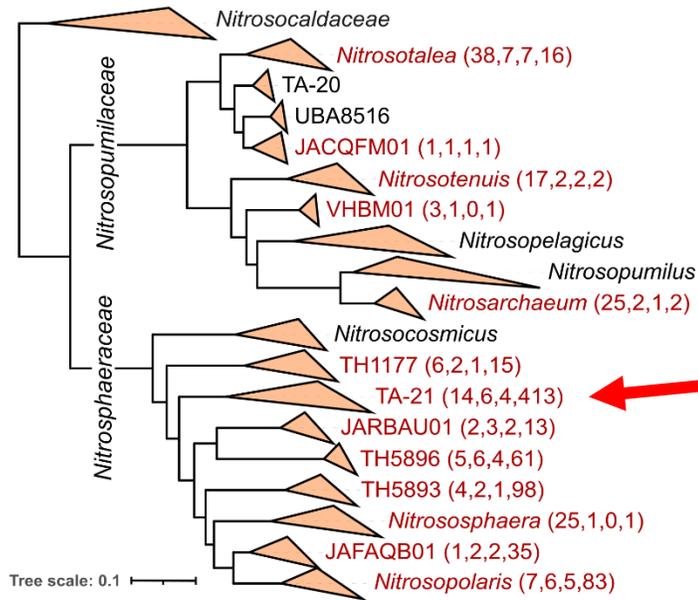
Archaeal ammonia oxidisers most abundant in **disturbed** habitat types



Legend for Nitrospira groups:

- AOB
- AOA
- NOB
- Nitrobacter-like putative NOB
- Anammox
- Comammox

(GTDB # spp. reps, MfD # spp. reps, MfD # spp. reps not in GTDB, MfD total # MAGs)

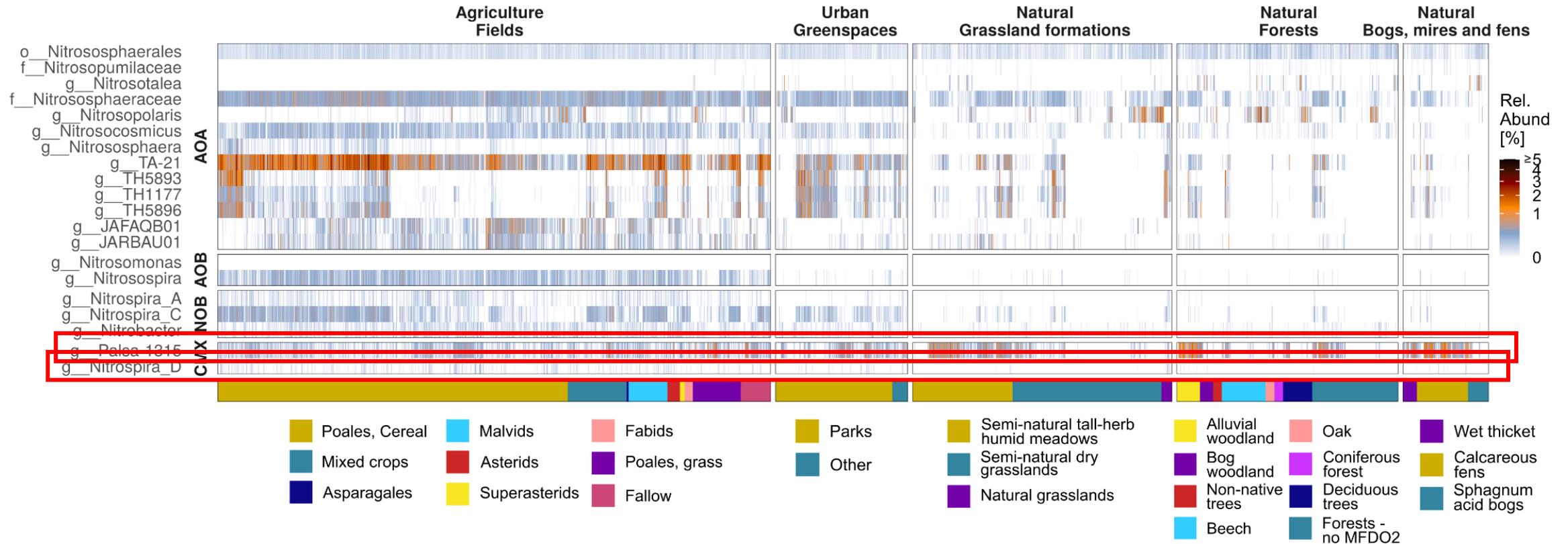


One **uncharacterised species** (within NS- δ) in particular is widespread in disturbed soils (we have 320 genomes)



Kalinka (PhD)

Distribution of Comammox



CMX clade A is present:

- In wastewater
- In sediment
- Only added 1 new species not already in public databases (GTDB)

CMX clade B is widespread in agriculture but *especially* nature:

- Humid grasslands
- Alluvial woodlands
- Fens

Recovered 12 species, only 1 in public databases

What implication do these findings (diversity and distribution) have for N₂O emissions/nitrate leaching?

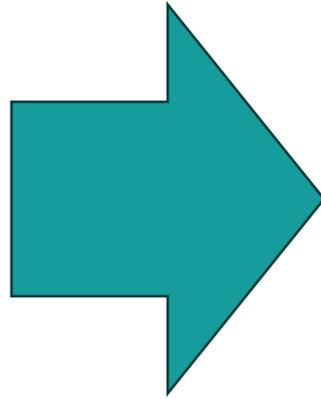
Next steps:

- linking to real data from sites
- how far away are we from natural?
- predict restoration outcomes?
- prioritise areas for restoration?

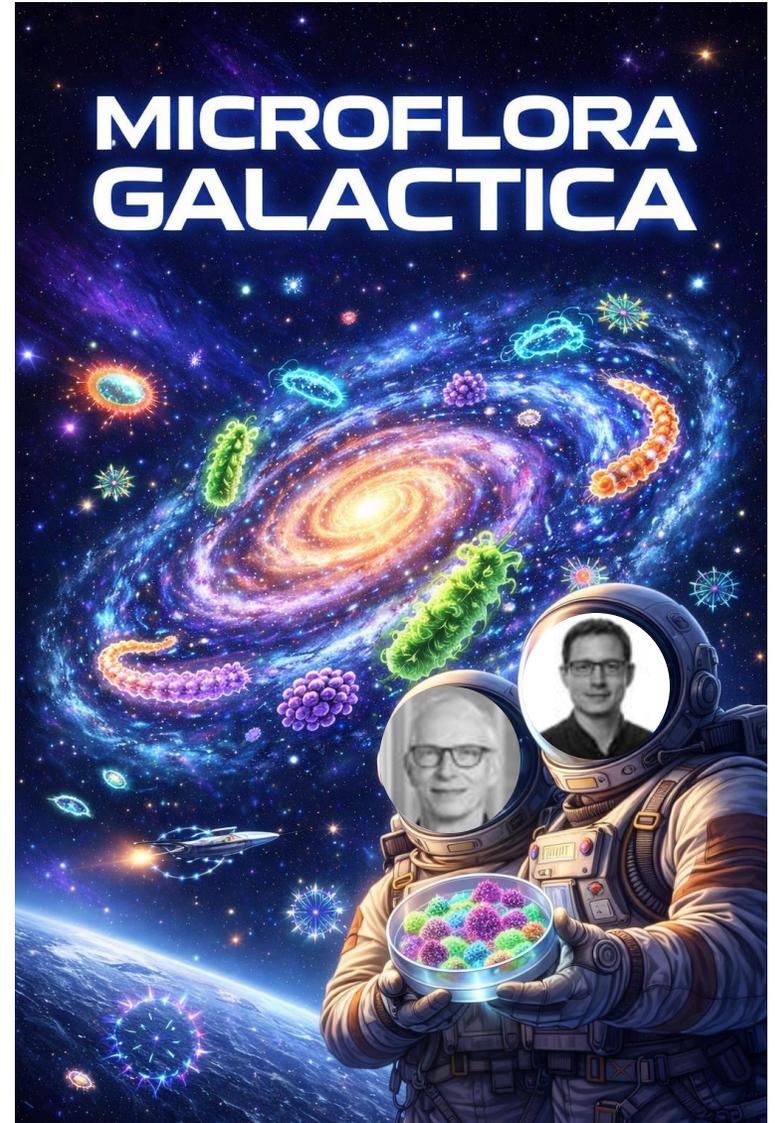


Next step for me: the garden! Learn and encourage the native plants of our area.

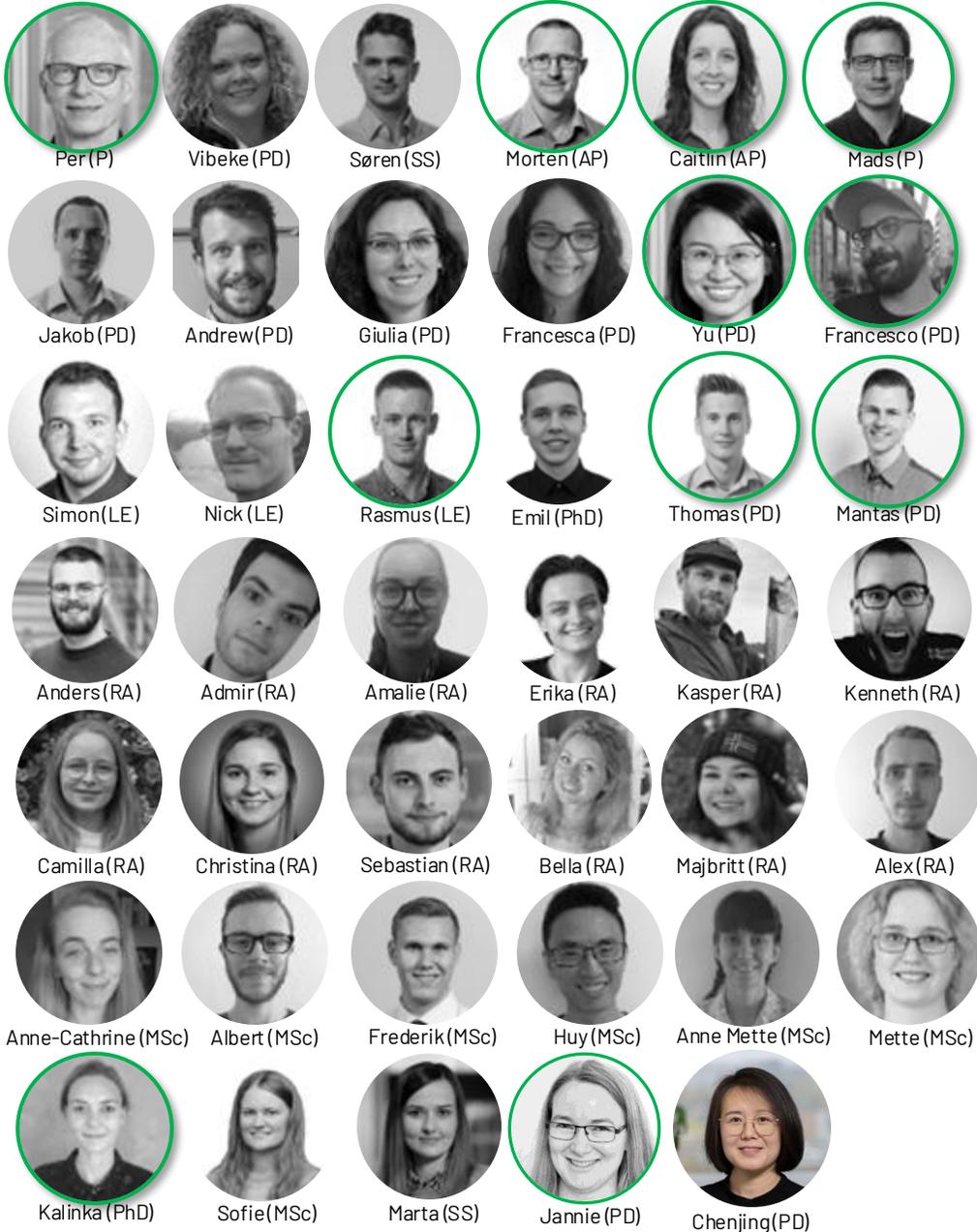
MICROFLORA DANICA



MICROFLORA GALACTICA



Acknowledgements: You!



Contact now for bookings:

- Emotional range = happy (10%), disgust (80%), fatigue (10%)
- Guaranteed photogenic in maximum 5% of photos