Hanseatic Life Science Research Infrastructure Consortium

HALRIC Final conference | 25 February 2026

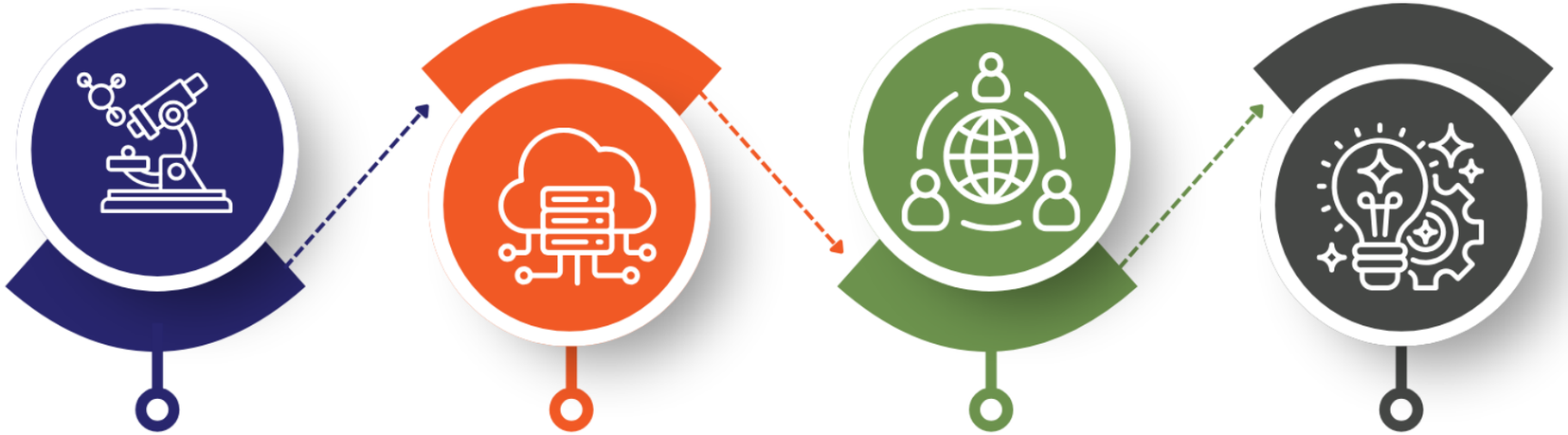
Unlocking access: HALRIC's journey with Research Infrastructures
Big picture: overview of HALRIC's achievements

Maria Sundh, HALRIC Head of Project Operations, Medicon Valley Alliance

Progress at a glance

HALRIC – Building Innovation Capacity Across ÖKS-Hamburg

From vision to impact



Innovation engine

Computational enabler

Strategic & industry bridge

Impact

HALRIC

HALRIC Pilot Projects

Building innovation capacity

Short pilot projects as instruments to:

Activate cross-border collaboration

Lower barriers to Research Infrastructures

Create innovation and translational pathways

One point of entry

Active matchmaking between sectors

New connections

Build new user communities (academia, industry, hospitals, RIs)

Trust & Knowhow

Short pilots build trust and knowhow

Follow-up collaborations

Early results build foundation for follow-up projects

Stronger regional ecosystem

Building long-term impact

The Hanseatic Science Cloud (HSC)

A uniform entry point to data and compute resources

Research Infrastructures generate complex data - Innovation depends on how well that data is accessed and handled

The aim of the HSC was to:

- Develop a cloud solution prototype for the management, handling and analysis of large and complex data sets from Research Infrastructures.
- Contribute to leverage the innovation potential of the ÖKS-Hamburg Region, by improving cross-border accessibility of the Research Infrastructures.

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The Hanseatic Science Cloud (HSC)

Insights for cross-border digital collaboration

Governance & institutional commitment

Clear steering structures and sustained institutional buy-in across participating research infrastructures.

Legal clarity & harmonisation

Legal fragmentation remains a major barrier - harmonisation essential to enable scalable, cross-border solutions.

Complementary competences

Technical, legal, research, and coordination competences must be integrated from project start to ensure feasibility and impact.

Strategic adaptation & integration

Existing platforms and technologies should be leveraged and built upon with early focus on integration and adaptation.

Strengthening the regional Life Science ecosystem

Industry engagement, advocacy & policy

The aim:

- A joint understanding and visibility of Research Infrastructure capacities.
- A joint dialogue of strategic and practical nature between all types of Life Science organisations.
- Contribute to long-term structures for continued cross-border collaboration.

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Strengthening the regional Life Science ecosystem

From regional coordination to European positioning

Policy influence & European positioning

Advocating for long-term structures for Life Science competitiveness in Europe.

Extending beyond the region

The NIHR Nordic Virtual Office – enabling regional companies to engage with the UK health system in product development and clinical collaboration.

Connecting the regional ecosystem

Established dialogue between Science Cities across the region, aligning regional development agendas.

Mapping of RIs

A structured overview of regional RI capacities – increasing visibility across borders.

Creating awareness

Actively communicated the value of RIs – positioning infrastructures as innovation assets.

Industry engagement

Bridged companies with pilot projects and infrastructures through targeted matchmaking and dialogue.

A shared success

HALRIC Pilot Projects – the innovation engine

Unlocking access to Reseach Infrastructures

From vision to impact

WE FACILITATE ACCESS TO RESEARCH INFRASTRUCTURES

This has already benefited more than 400 researchers from academia, hospitals and industry.

WE BRING TOGETHER ACADEMIA, HOSPITALS AND INDUSTRY

These collaborations improve dialogue across sectors, enabling research to move more efficiently from lab to clinic and to industry applications.

WE SUPPORT CURIOSITY-DRIVEN SCIENCE

By funding pilot projects, we provide access to new techniques allowing researchers to test bold ideas and accelerate discoveries that are essential for long-term innovation.

PILOT PROJECTS TACKLE MAJOR DISEASE AREAS

Areas include cardiovascular disease, cancer, Parkinson's, and antibiotic resistance. These studies generate new insights into disease mechanisms, opening possibilities for innovative diagnostics and therapies.

THEY ALSO ENABLE NEW TOOLS AND METHODS DEVELOPMENT

From structural biology to advanced proteomics and data analysis pipelines, these projects create enabling technologies that will support many different research fields in the future.

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How HALRIC has expanded opportunities

Unlocking access to Research Infrastructures

Capacity for mobilisation

National Coordinators

Kajsa M Paulsson
Lund University
Sweden

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University of Oslo
Norway

Michael Gejhede
University of Copenhagen
Denmark

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University of Hamburg
Germany

Working group

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Clement Blanchet (EMBL)	Marjolein Thunnissen (MAX IV)	
Esko Oksanen (ESS)	Michael Gajhede (UCPH)	
Gregers Rom Andersen (AU)	Nikolina Sekulic (UiO)	

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Unlocking access to Research Infrastructures

Capacity for mobilisation

CBIR Ambassadors

Emanuel Larsson
Lund University

Nikolina Sekulic
University of Oslo

Lucy Holt
University of Copenhagen

Taner Drace
Aarhus University

Steffi Tille
DESY

Hospital engagement

Jakob Øster
Rigshospitalet
& support to SUS, UKE

Industry engagement

Veronica Lattanzi
Medicon Valley Alliance &
Lund University

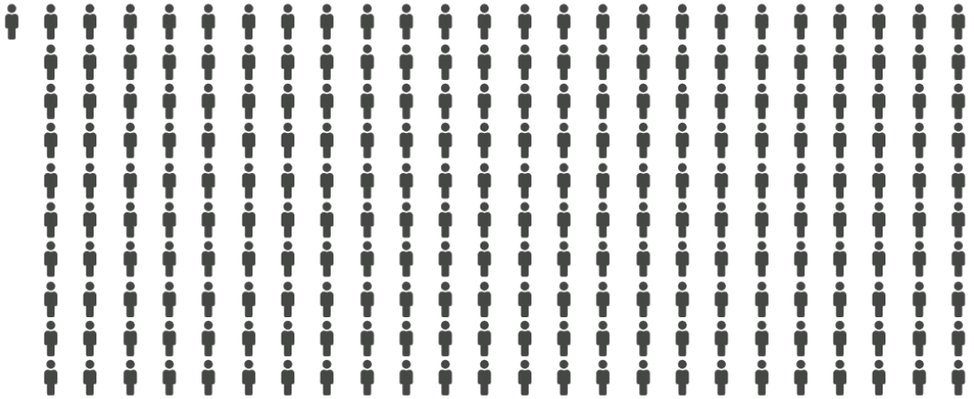
HALRIC Pilot Projects

- as instruments for life science research, innovation, and translation

82 PILOT PROJECTS

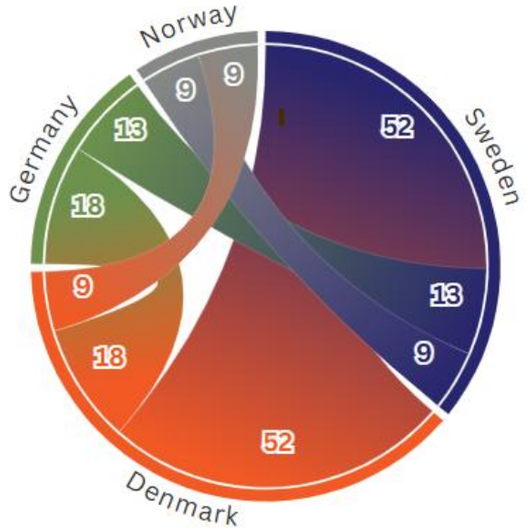
CROSS-BORDER
CROSS-SECTORAL

400 PARTICIPANTS



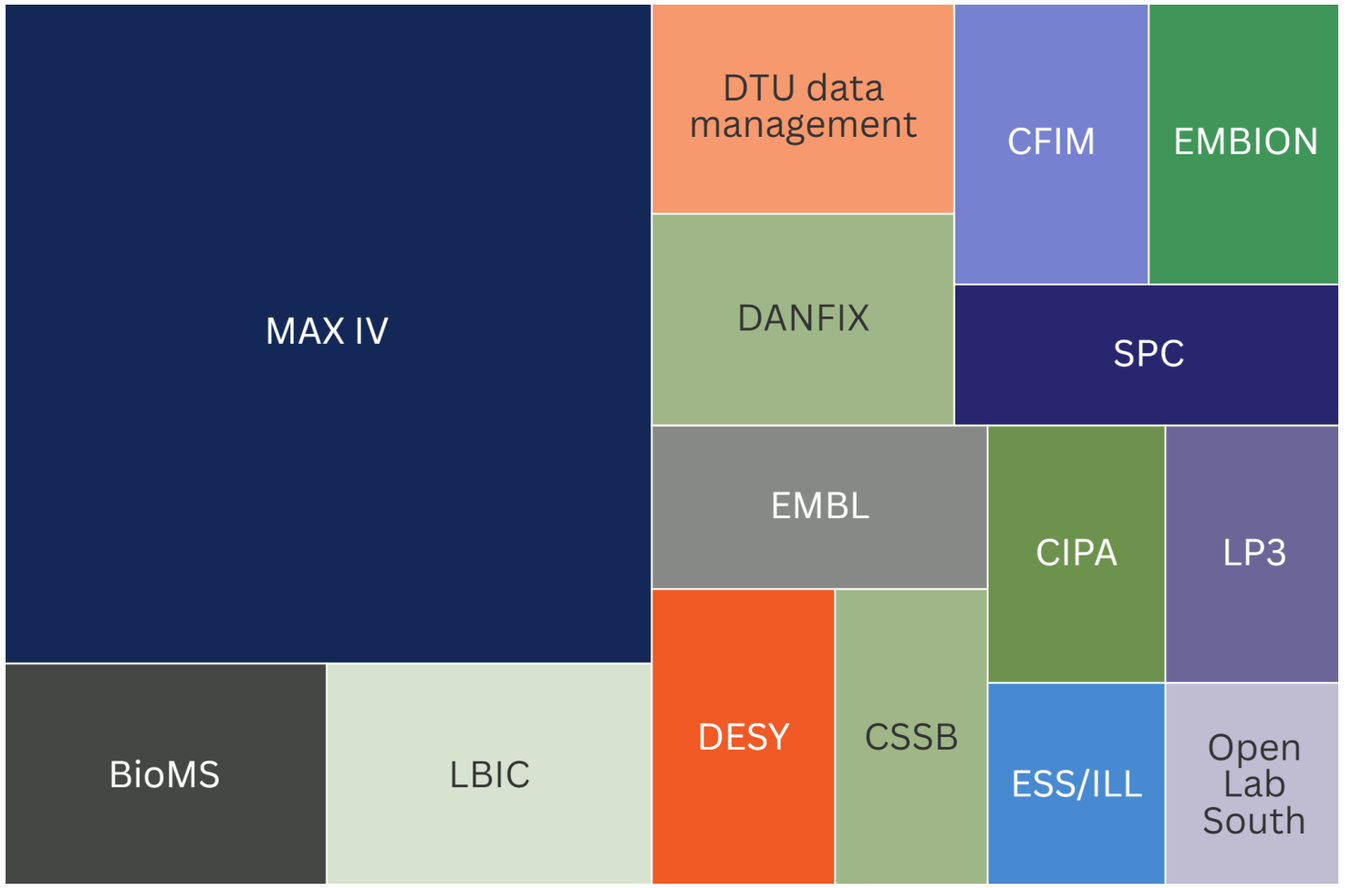
Collaboration thrives on complementary expertise

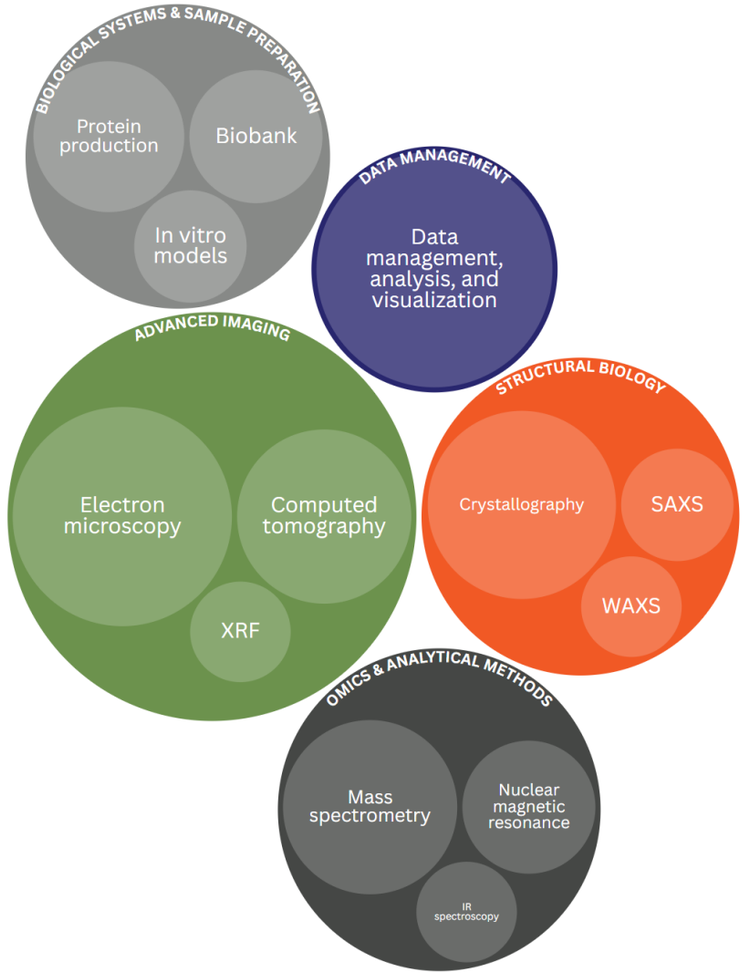
International cooperation on joint research infrastructures



HALRIC Pilot Projects

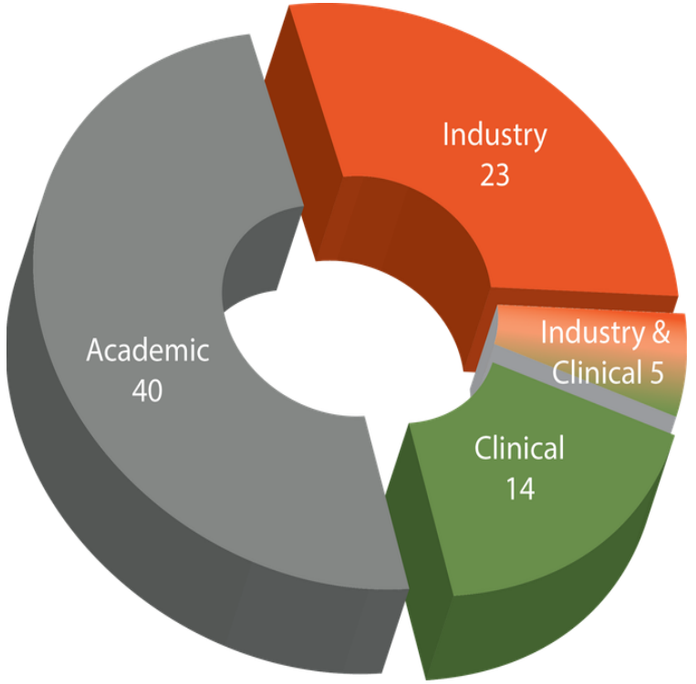
- as instruments for life science research, innovation, and translation





HALRIC Pilot Projects

- as instruments for life science research, innovation, and translation



HALRIC Pilot Projects

- as instruments for clinical translation

Integrating multimodal imaging and spatial proteomics in human atherosclerosis

HALRIC enabled: combination of synchrotron microCT, photon-counting CT, and spatial proteomics in patient derived tissue.

Clinical value: Improved identification of vulnerable plaques and refined cardiovascular risk stratification.

Collaboration: UCPH – LU – SUS

Decipher lung regeneration in chronic obstructive pulmonary disease ignited by exercise

HALRIC enabled: Integration of spatial omics and nanoscale X-ray fluorescence in patient-derived tissue.

Clinical value: Identification of regenerative pathways to guide precision treatment

Collaboration: LU – Rigshospitalet

Participant responses to survey

80%

Facilitated translation of research findings into clinical practice or improved patient outcomes

Accelerated progress in clinical validation / testing / implementation

HALRIC Pilot Projects

- as instruments for industrial innovation

AstraZeneca
ApoGlyx
CAMBIOTICS
CENTOGENE GUIDING PRECISION MEDICINE
Copenhagen Imaging
asgard THERAPEUTICS
Sai
IMPLEXION PHARMA
JD COILS
hoba THERAPEUTICS
Miltenyi Biotec
Linkster Therapeutics
PHOTOTHERMAL SPECTROSCOPY CORP
microdrop TECHNOLOGIES
Acesion Pharma
Sensach AB
NMD PHARMA NEUROMUSCULAR DISORDERS
nygen
truly labs
SERENDO THERAPEUTICS
STROMINNATE therapeutics
CYTELY
STRIKE Pharma
SURFACTO BioTech
inicure

Participant responses to survey

100%

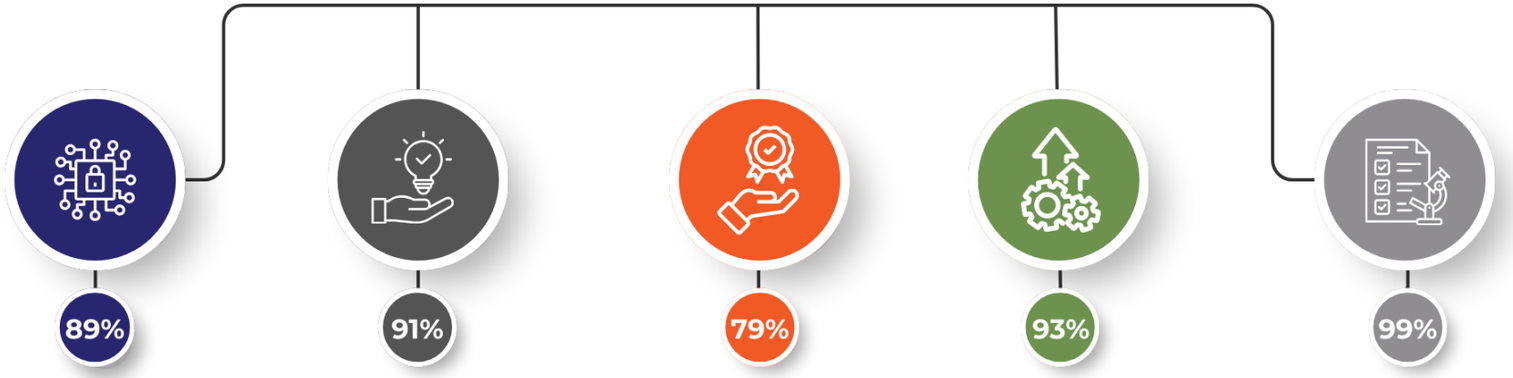
HALRIC contributed unique value to the company's goals

Pilot project leads to further collaboration between company and RI

HALRIC Pilot Projects

- as instruments for life science research, innovation, and translation

HALRIC establishes sustained collaboration around shared infrastructures



> Key collaborations would likely not have occurred without HALRIC's cross-border matchmaking mechanisms

Oxford Research final evaluation

> HALRIC has boosted Life Science research and innovation in the ÖKS–Hamburg region, contributing to increased research quality and pathways towards further funding, enabled by access to cross-border research infrastructures

Oxford Research final evaluation

Interreg

Co-funded by the European Union

Öresund-Kattegat-Skagerrak

Thank you!

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www.halric.eu