
MAX IV
Enabling next level industrial research

MAX IV is a national laboratory where you can study materials at sub-atomic levels in unprecedented ways.

INDUSTRIAL RELATIONS OFFICE

Supported by academia and industry

Swedish Research Council

VINNOVA

Knut and Alice Wallenberg Foundation

SKÅNE

novo nordisk fonden

NIB

Co-funded by the European Union

SLU

LUND UNIVERSITY

UPPSALA UNIVERSITET

CHALMERS UNIVERSITY OF TECHNOLOGY

UNIVERSITY OF GOTHENBURG

MALMÖ UNIVERSITY

KARLSTADS UNIVERSITET

UMEÅ UNIVERSITET

STOCKHOLMS UNIVERSITET

LINKÖPINGS UNIVERSITET

KTH VETENSKAP OCH KONST

KAROLINSKA INSTITUTET ANNO 1810

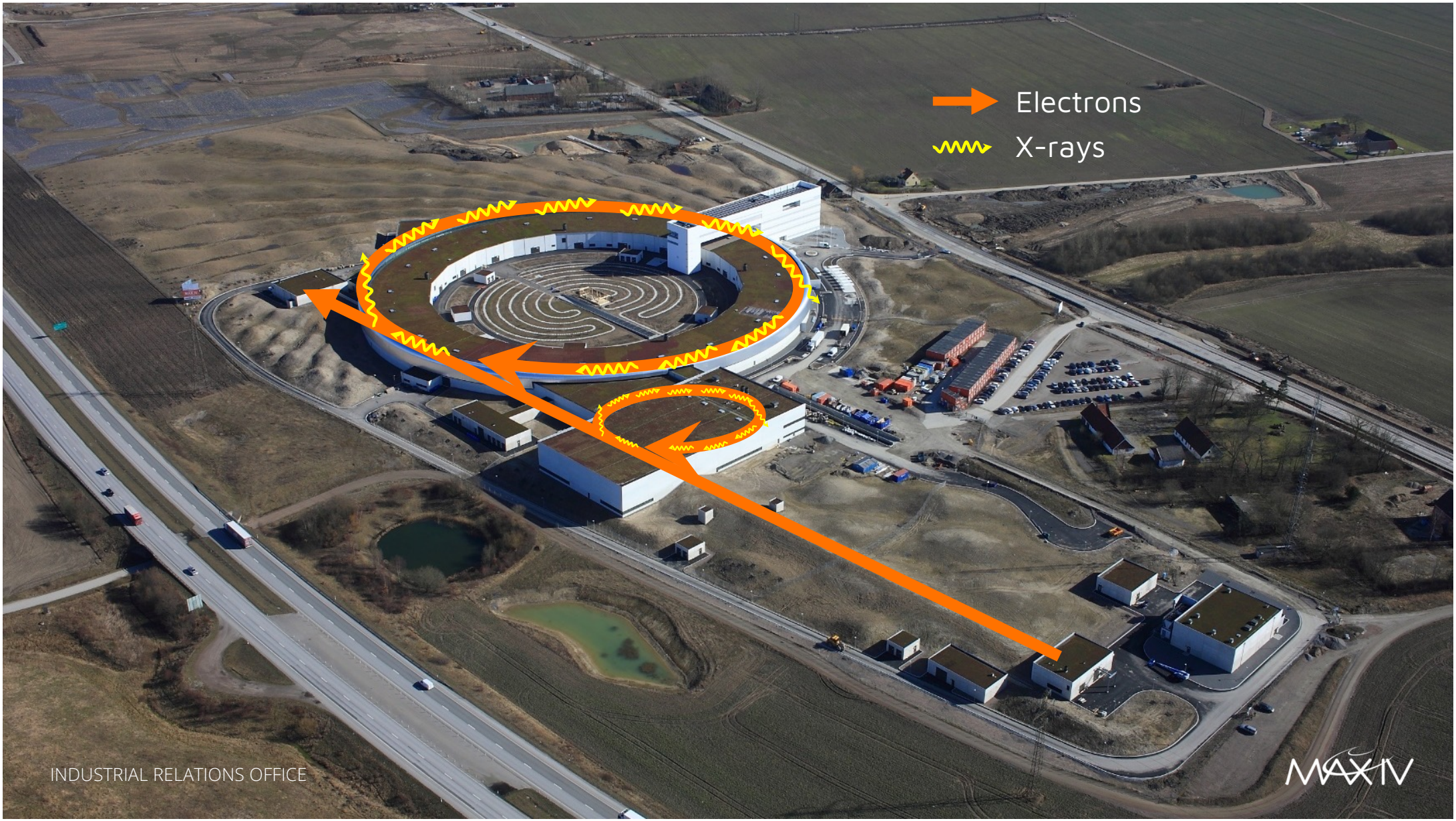
Karolinska Institutet

LULEÅ TEKNISKA UNIVERSITET

TREESEARCH

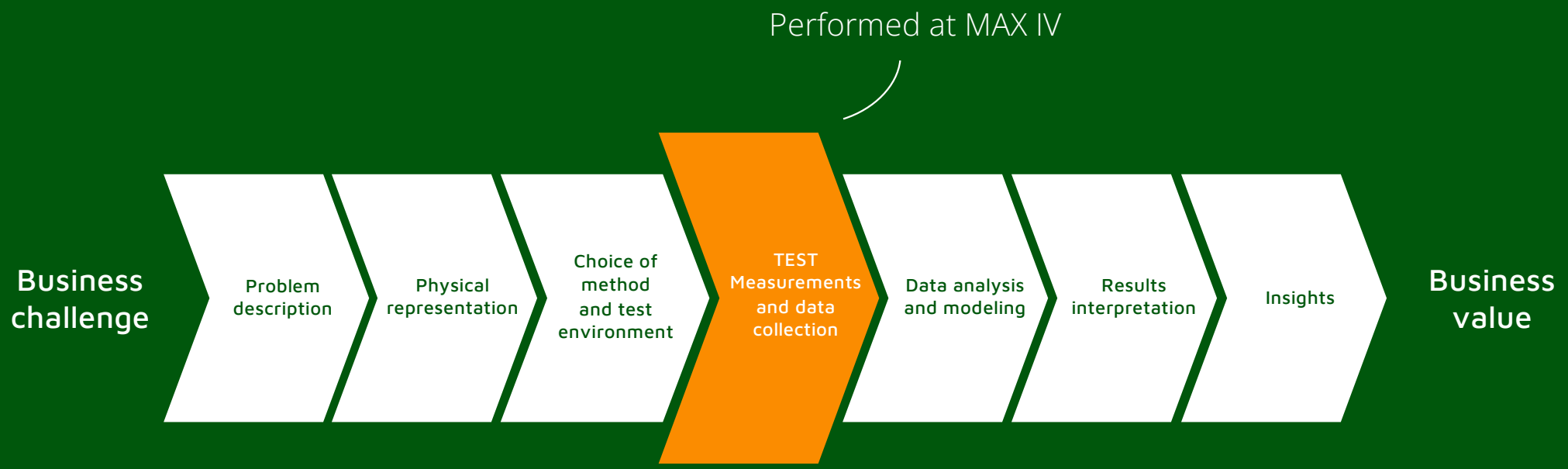
Linnéuniversitetet

How does it work?


Electrons
X-rays
INDUSTRIAL RELATIONS OFFICE
MAX IV

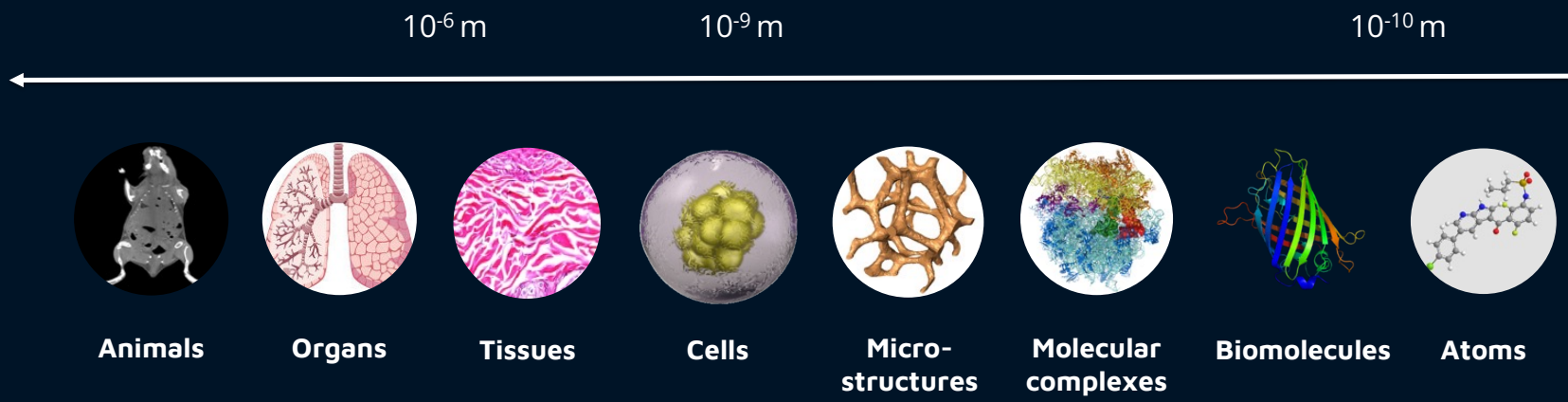
Accelerating life science R&D

Your R&D partner

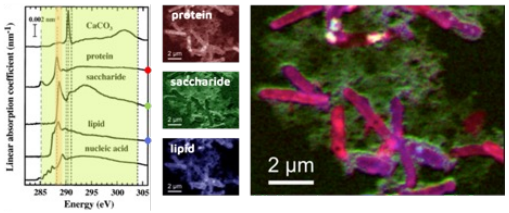


INDUSTRIAL RELATIONS OFFICE

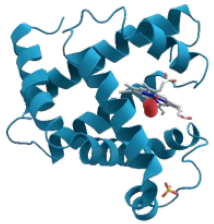
Look at biology at different length scales



Data from MAX IV can reveal...



What your material consists of (spectroscopy techniques)

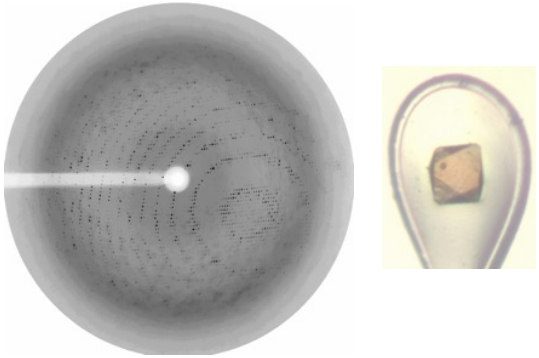


How the atoms in your material are organised (scattering and diffraction techniques)

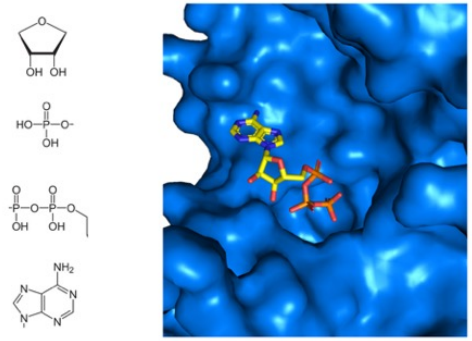
Multi-dimensional images of your material (imaging techniques)


Unlocking new business value
INDUSTRIAL RELATIONS OFFICE
MAX IV

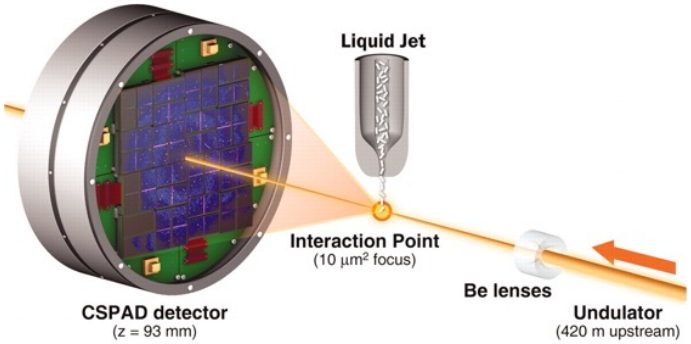
Macromolecular crystallography



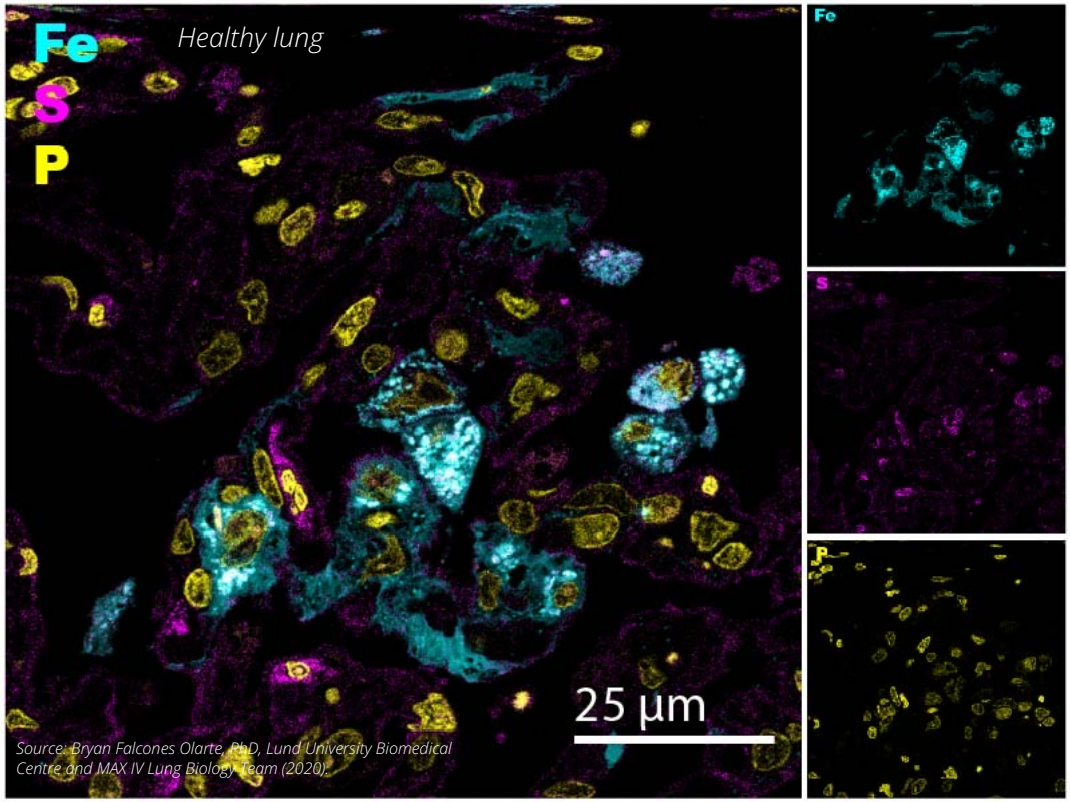
Structure-based drug design



Serial crystallography



Structural biology



Source: Bryan Falcones Olarte, PhD, Lund University Biomedical Centre and MAX IV Lung Biology Team (2020).

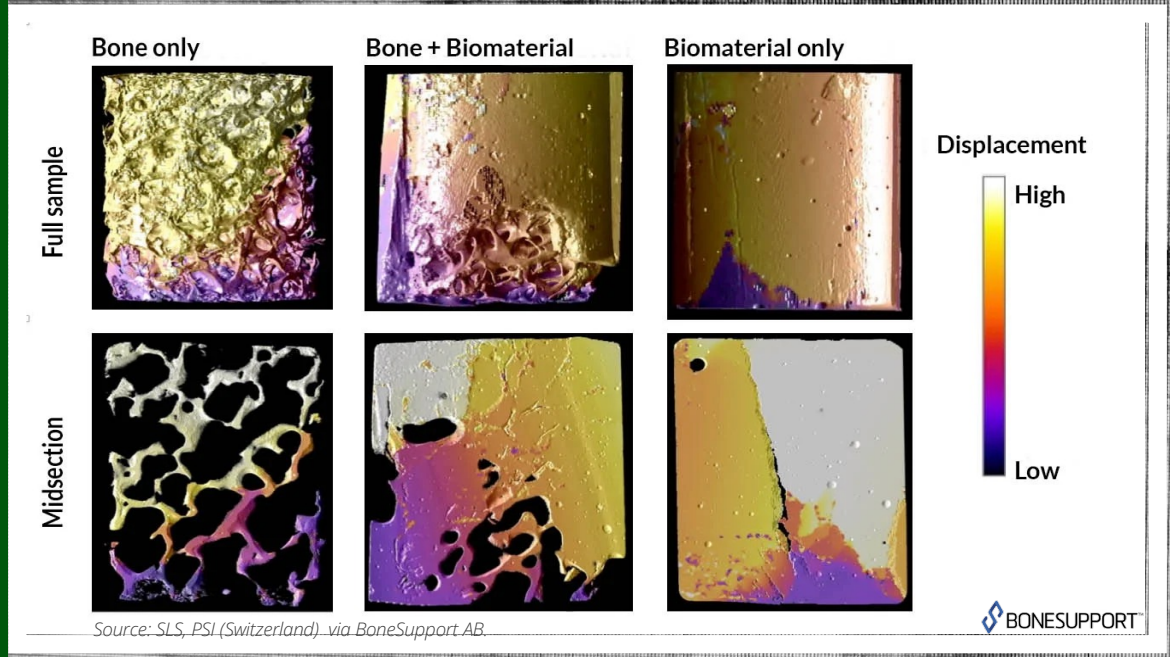
"These nanometric-resolution images can only be obtained by synchrotron X-ray imaging techniques. The insights could shed light on complex multifactorial diseases and contribute to future pharma development."

BRYAN FALCONES OLARTE, PhD, LUND UNIVERSITY BIOMEDICAL CENTRE & MAX IV LUNG BIOLOGY TEAM

Life science companies can study elemental features in human tissue to understand diseases and pathophysiology

MAX IV

Biotech companies can study the behaviour of bone substitute inside the human bone



Source: SLS, PSI (Switzerland) via BoneSupport AB.

Using high-resolution X-ray tomography with *in-situ* mechanical loading at PSI in Switzerland, BoneSupport AB observed how their bone support product responded to loading inside the human bone.

Outreach and collaboration initiatives

User community building

Academia, industry, institutes, trade associations, infrastructures, and funders exploring synchrotron opportunities together.

MAX IV

How can I get access?

Two main ways to get beamtime

- ✓ Free
- ✓ Apply for beamtime (2 open calls/year)
- ✓ Collaborate with an academic research partner
- ✓ Proposals ranked on scientific merit
- ✓ Publish your results

- ✓ Paid
- ✓ Faster, industry-tailored access
- ✓ Full confidentiality and IP rights
- ✓ One-time project or long-term frame-work agreement
- ✓ You own your results

INDUSTRIAL RELATIONS OFFICE

MAX IV

Meet the industry office

MAGNUS LARSSON
Head of Industrial Relations

MARC OBIOLS-RABASA
Industrial Relations Officer

CLAIRE LYONS
Project Coordinator InfraLife

MAGNUS FREDRIKSSON
Program Manager (Alfa Laval)

ANNA SANDAHL
Communication Officer

INDUSTRIAL RELATIONS OFFICE

MAX IV

Thank you!

Industrial Relations Office
+46 725 54 63 09
industryoffice@maxiv.lu.se

www.maxiv.lu.se/industry