

FAIR AT BIG SCIENCE MORNING

REMOTE HANDLING AND
BUSINESS OPPORTUNITIES



9.00-11.00 4th of February 2021

Welcome everybody! Swedish Suppliers



ec konsult



FieldRobotix AB



Fureho AB

CARLSSON & MÖLLER



LUNDINOVA
by Sigma Connectivity



Habia Cable



YOUR PARTNER FOR PASSIVE RF COMPONENTS



KUKA



DETAILS MAKE THE DIFFERENCE



Welcome everybody!

European suppliers

The logo for Jacobs, featuring the word "Jacobs" in a large, bold, black sans-serif font.

INDUCIENCIA, the Spanish
Science Industry
Technological Platform

Welcome everybody!
Representatives from Academia, institutes and
Research facilities



LUNDS
UNIVERSITET



UPPSALA
UNIVERSITET



EUROPEAN
SPALLATION
SOURCE



Facility for Antiproton
and Ion Research
in Europe GmbH

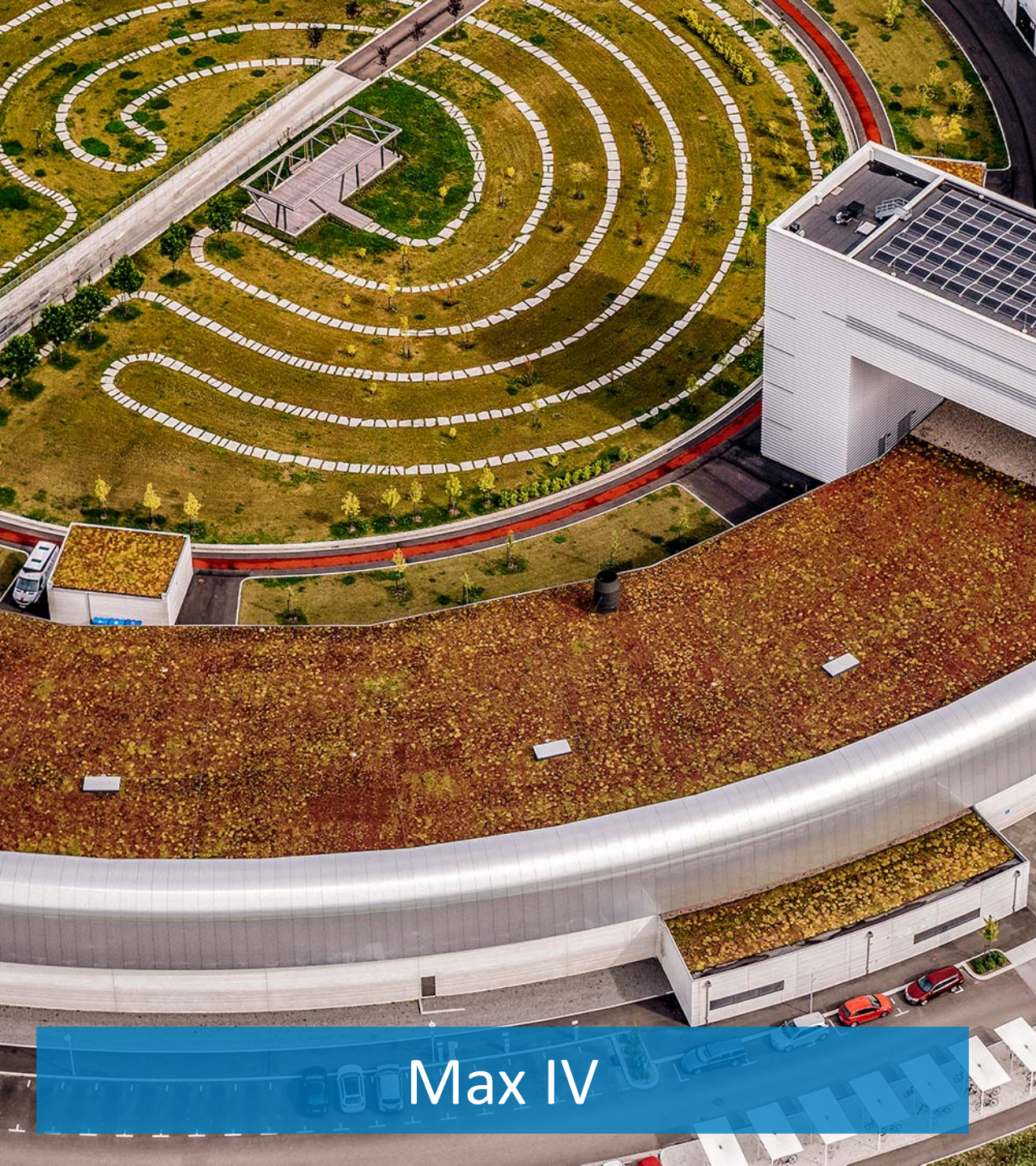


CHALMERS
UNIVERSITY OF TECHNOLOGY



Agenda

	Programme	Length of presentation
09:00	Introduction Big Science Sweden Director Anna Hall, Big Science Sweden	10 min general BiSS Sweden and our role in the eco-system
09:20	Experimental development at PANDA, a part of FAIR, Professor Tord Johansson, Uppsala University	5 min presentation
09:30	Status and business plans FAIR, Dr. Sonia Utermann, In-kind and procurement at FAIR	15 min presentation + 5 min questions
09:50	Coffee break	
10:00	Remote handling in the Super-FRS (Super-Fragment Separator) at FAIR Dr. Faraz Amjad, Design and Planning Engineer at FAIR	15 min presentation + 15 min questions
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11:00		END



Max IV



ESS

Particle Accelerators



CERN, ESS, MAX IV, ESRF, ILL, ISIS, XFEL, DESY, FAIR

Fusion

ITER
DONES



Space

ESO, SKA, EISCAT



Research Facilities which Sweden are investing in

MAX IV

CERN
EISCAT
ITER
ESO

ESS

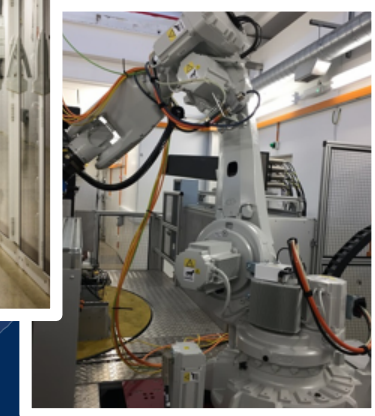
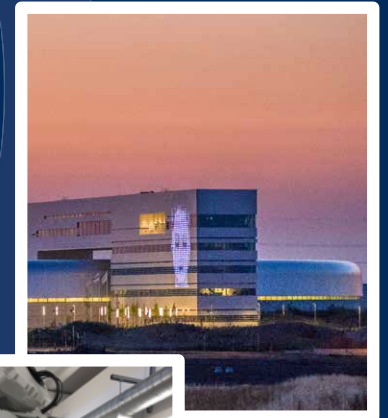
XFEL
ILL
DESY
SKA

DESY
FAIR
ESRF



A range of competences needed

- Accelerator technology
- Construction and Civil Engineering
- Coating, Joining and Casting
- Electronics, RF and Microwave Technologies
- Magnets
- Materials
- Mechanical Engineering
- Optics, Sensors and Diagnostics
- Power Supply
- 3D printing
- Big Data
- AI/ML
- Data handling & Visualization
- Remote Handling
- Cryogenics
- Robotics
- Software and Control Technologies
- Utilities and Instrumentation
- Vacuum and Low Temperature Technologies
- Others



Funded by:



Swedish
Research
Council

Big Science Sweden is led by a consortium:



CHALMERS



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UNIVERSITET



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UNIVERSITET



Teknikföretagen



Big Science Sweden - Mission

- **Support Swedish industry, institutes and universities** to contribute to building up excellent big science facilities.
- **Focus in high-tech contributions** that drive research, innovation, international collaboration and generate **good business for Sweden**.
- Create value for Swedish industry and society by **transferring new knowledge, technology and competence** to diverse areas of application.

Directors



Anna Hall
Director Big Science Sweden
Industrial Liaison Officer (ILO):
CERN, ESS, MAX IV, FAIR
Purchasing advisor: ESRF, ILL
Contact point: ISIS, DESY, XFEL



Patrik Carlsson
Co-Director Big Science Sweden
Industrial Liaison Officer (ILO): ITER,
ESO, SKA

Göteborg



Sven-Christian Ebenhag
Business Development &
Project Management



Håkan Nilsson
Business Development &
Project Management



Julia Hellström
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Project Management

Lund



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Uppsala



Fredrik Engelmark
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Industrial Liaison Officer
(ILO): CERN



Ernesto Gutiérrez
Business Development &
Project Management

**THE SWEDISH GUIDE IS AVAILABLE.
THIS YEAR'S EDITION, AN EXTENSIVE
PUBLICATION OF 356 PAGES.**

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> 220 companies in the network, all with the capacity and knowledge to supply solutions to leading research facilities. Listig and collaborating with **69 Swedish academic contributions** to Big Science.



EVERY WEDNESDAY MORNING
10-10.30 • JOIN US

BUSINESS CORNER



FAIR (The Facility for Antiproton and Ion Research) is currently under construction in Darmstadt at a cost of EUR 1.7 billion.

At the facility, matter that only exists in outer space will be produced in a lab for research, and it will be possible to accelerate ions of all the natural elements in the periodic table, as well as antiprotons.

Ten countries are shareholders of FAIR and more countries are partners. Three thousand scientists will visit and use FAIR each year.

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00:00



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Next step...

