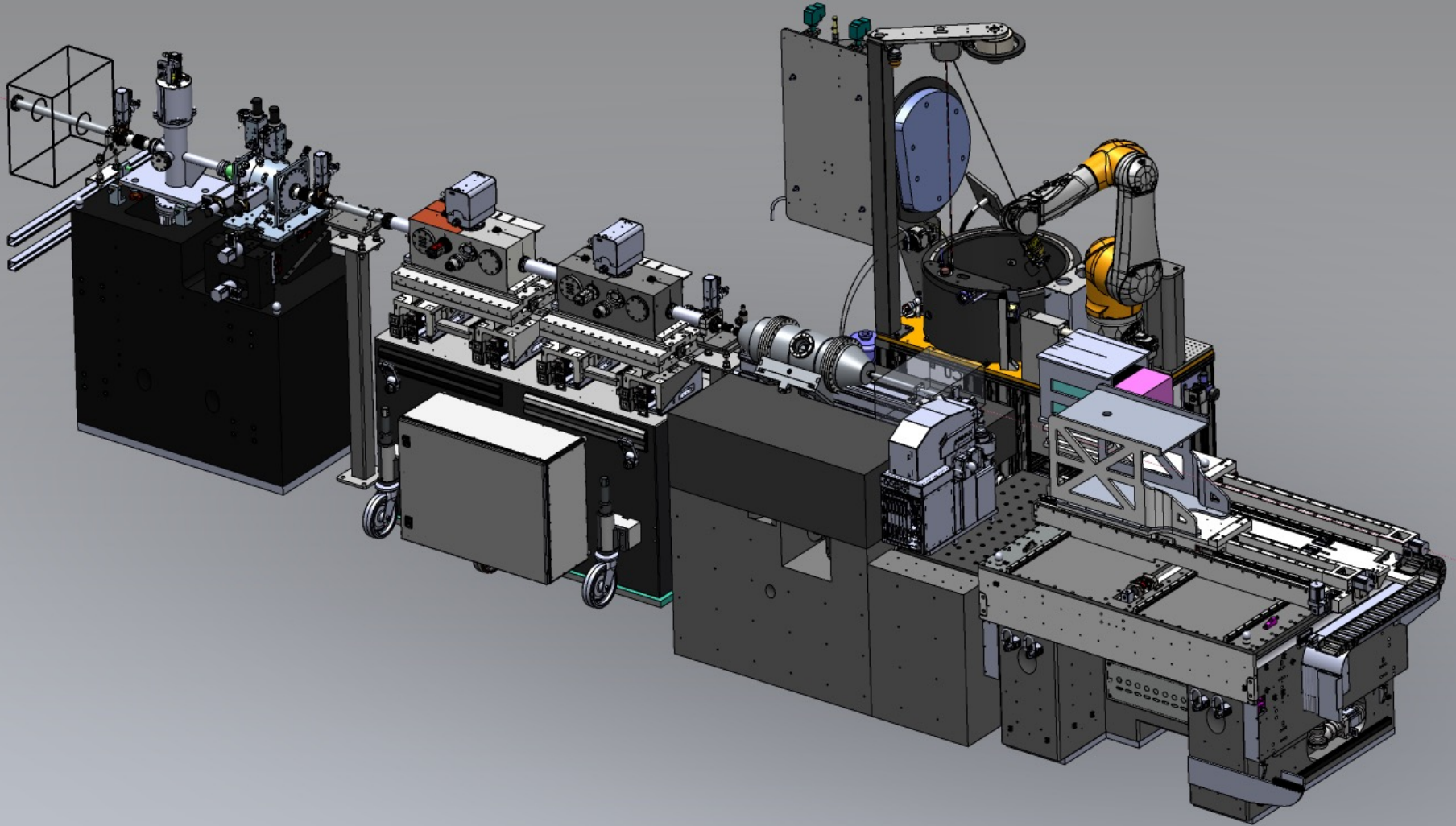




MicroMAX

MicroMAX



ново nordisk fonden

MAXIV

MicroMAX

Microfocus MX Beamline for:

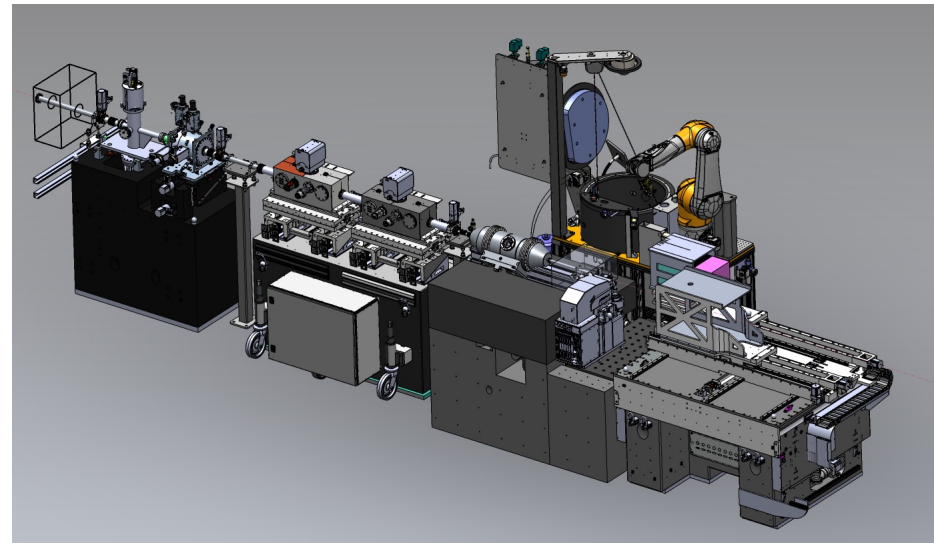
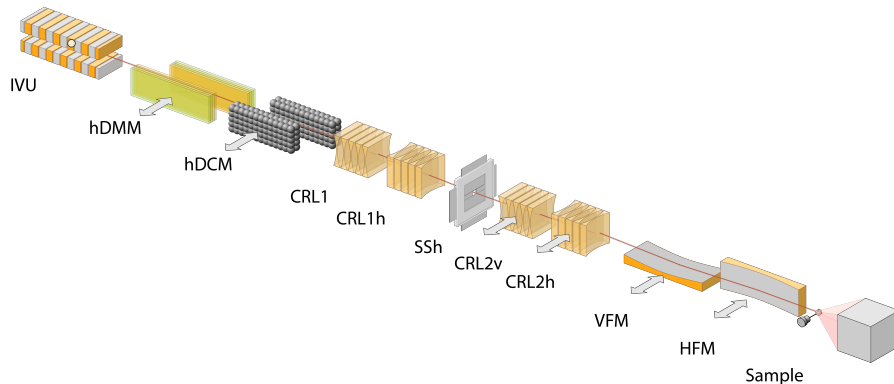
- serial crystallography
- time-resolved experiments
- high-throughput oscillation data collections

New Structural Data for New Science:

- Structural data from more challenging samples
- Structures at physiologically relevant temperatures
- Information on flexibility and structural dynamics

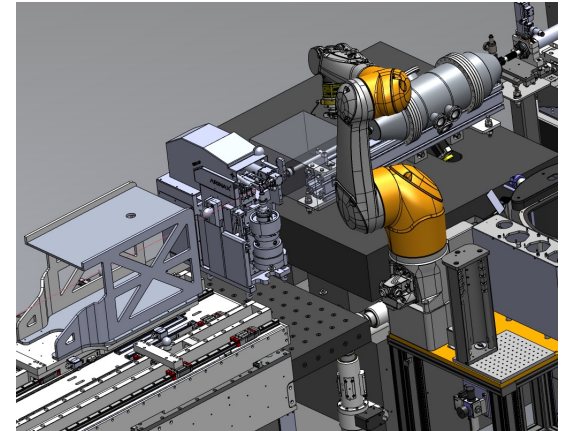
Beam size down to $1\ \mu\text{m}$
Flux up to $10^{15}\ \text{ph/s}$
Exposures down to $<10\ \mu\text{s}$

Two experiment hutches
Different sample delivery systems
Diffractometer
Sample changer
Integrating detector
Sample preparation laboratory
Sample environment laboratory
Computing infrastructure



MicroMAX complements BioMAX

- More powerful and flexible optics, new instrumentation:
 - flux density three orders of magnitude higher
 - challenging samples
 - μ s scale time-resolved studies
- A more flexible sample environment:
 - serial crystallography as routine experiments
 - different optimised sample environments
 - in-house tunable laser system for pump-probe experiments
- **BioMAX** continues to be a versatile, state-of-the-art beamline covering a wide range of experimental techniques,
MicroMAX is aiming at more demanding samples, techniques and experiments



MicroMAX – Start of operation

Infrastructure in place

Installations early 2022:

Insertion device, Optics, Experiment setup

First light expected before summer shutdown 2022

Installations summer shutdown 2022:

Sample changer, Detector

Rotation crystallography:

Autumn 2022 commissioning

First general users Q2 2023

In parallel (starting autumn 2022) commissioning of:

Serial crystallography & time-resolved crystallography

KB mirrors & Integrating detector in 2023

MicroMAX - Outlook

Implement functionality and develop use cases

Making the functionality easily accessible to the user community

Education and Training Initiative

Support user education and offer training for users

SSX & TR as easily accessible as “standard crystallography”

But also for other structural biology applications at MAX IV

Develop EH2

MicroMAX opens many new possibilities

What are the future needs of the user community?

What should we prioritize?