





**FAIR Project Status** 

**RRB Meeting, 22.02.2022** 

# Jörg Blaurock

Technical Managing Director FAIR GmbH & GSI GmbH

























## FAIR ACC & EXP Highlights (Part 1)



#### October 2021

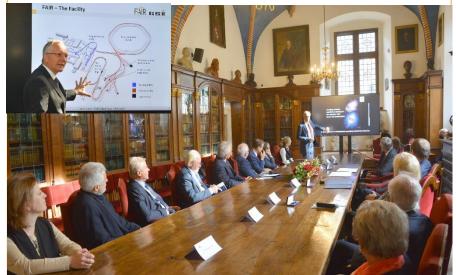
Successful test of CBM Data acquisition (DAQ) prototype - 3 Common

Readout Interface cards in an Entry Node



### October 2021

FAIR Management visited the Polish
Shareholder - Jagiellonian University to sign
a scientific Memorandum of Understanding
and a GET INvolved Partnership agreement



## FAIR ACC & EXP Highlights (Part 2)



### November 2021

The GET INvolved Partnership agreement was signed by Josef Stefan Institute (JSI) and the University of Ljubljana (Slovenia), with FAIR for training and development of people and future talents



#### November 2021

22 Ultra high vacuum chambers produced by Vacuum Technique Pvt Ltd. were flagged off to FAIR, by Prof. Uday Bandyopadhyay, Director, Bose Institute, in a ceremony at Bangalore (India)



## FAIR ACC & EXP Highlights (Part 3)



#### November 2021

31 Super-FRS Iron shielding blocks were delivered to FAIR site in November 2021.

#### December 2021

The prototype of the PANDA Central
Support Frame (CSF) was assembled. The
CSF will support beam-target-pipe, Vertex
Detector and Straw Tracker.



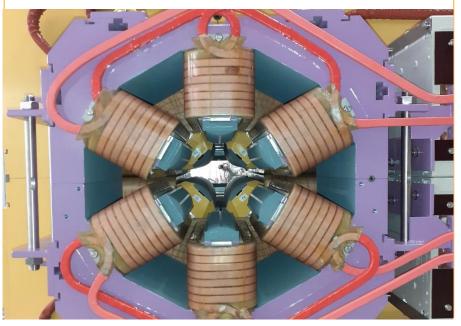


# FAIR ACC & EXP Highlights (Part 4)



### January 2022

All parts of the in-kind-contribution of Romania for the HESR (corrector magnets and its power converters) have been delivered to Jülich.



### January 2022

1st Collector Ring (CR) magnet arrived from BINP (Russia) at GSI Darmstadt on the assembly area in the Target Hall.



## FAIR Civil Construction Highlights (Part 1)





Civil Construction is progressing well for area north and area south

# FAIR Civil Construction Highlights (Part 2)





Coating and painting in SIS100 tunnel progressing well

## FAIR Civil Construction Highlights (Part 3)





## FAIR – GSI Campus Development Highlights









- FAIR Control Center
- 5 Levels 206 Office workplaces





- Parking garage
- 9 Levels 800 parking spots

### FAIR Project Time schedule



FAIR Council decided in February 2020 the Intermediate Objective (IO) (*marked dark green*) as an interim step towards full MSV.

### The IO comprises

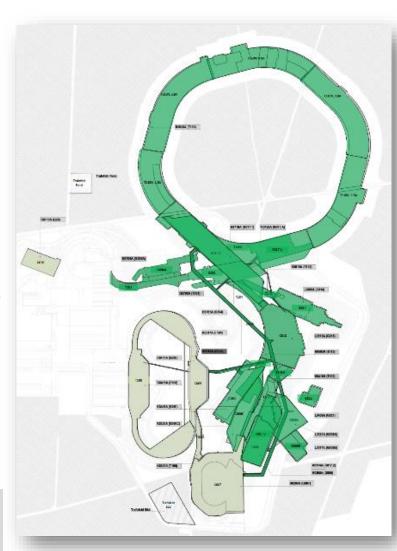
- the full scope of accelerator and experiments for the MSV
- the realization of the buildings for MSV except the buildings for CR, HESR and pLinac.

The engineering for the buildings HESR, CR and pLinac (*marked light green*) is continuing, while these buildings will be realized when funding is approved by FAIR Council.

Start of Early science IO is planned for end 2025 with parts of NUSTAR and APPA Cave.

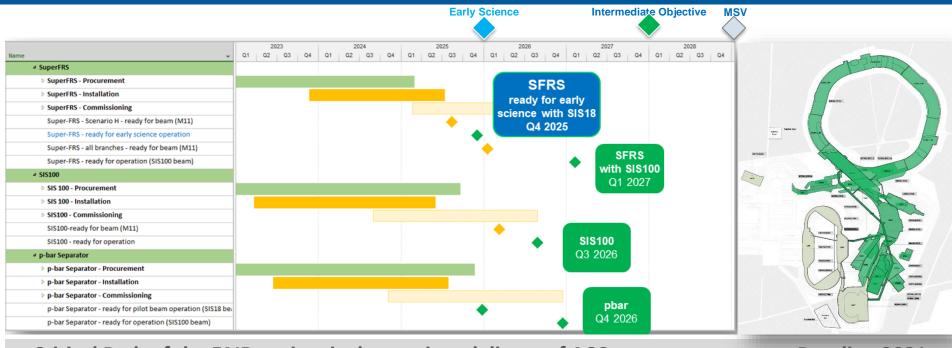
The completion of IO is foreseen in 2027.

Critical Path of the FAIR project is the on-time delivery of ACC components as per Baseline 2021

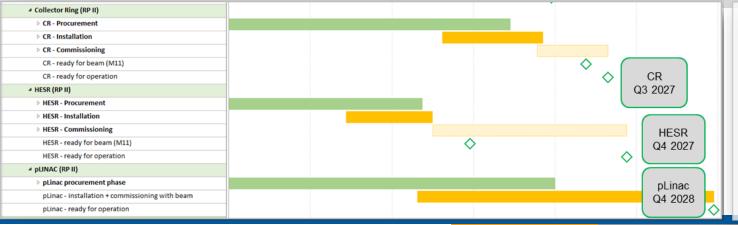


### FAIR Baseline schedule 2021





### Critical Path of the FAIR project is the on-time delivery of ACC components as per Baseline 2021



Realization timeline of the buildings for CR, HESR and pLinac currently not secured awaiting the funding approval by FAIR Council

## FAIR - Priorities, Focus areas and Challenges 2022



- Management of Covid-19
- Delivery of ACC components in time and in quality
- Development of FAIR control system and software interfaces to components
- Development of Personnel Access System (PAS)
- Installation planning and preparation for installation execution
- Increased usage of external resources for preassembly and installation
- Commissioning planning
- Human resources Capacity and leveling in line with priorities
- FAIR financing Budget and cashflow

### **Conclusion:**

The FAIR Project is currently progressing overall well, but financial challenges need to be adressed in 2022

