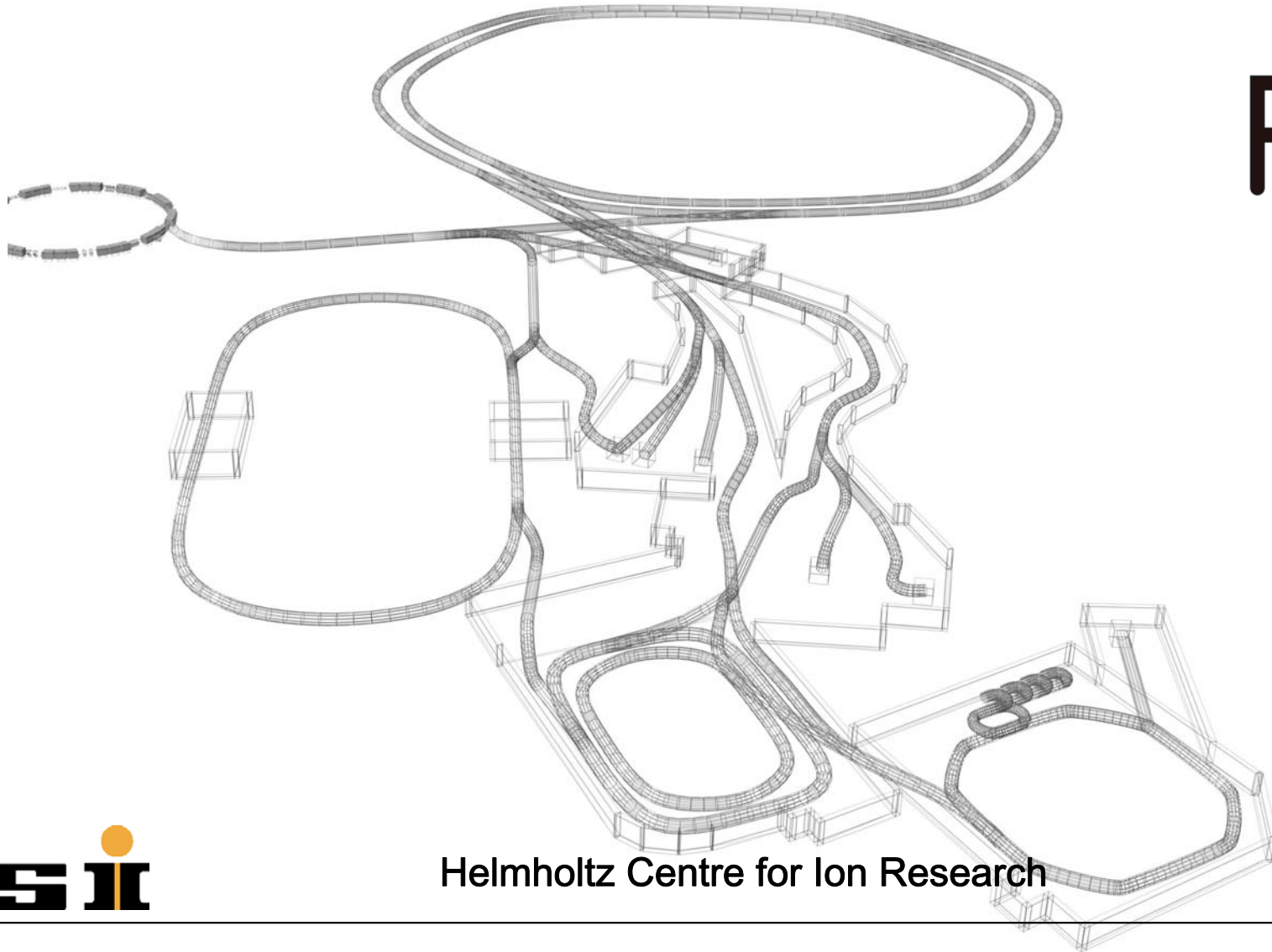


CR Pre-Collaboration Meeting



Helmholtz Centre for Ion Research



Welcome

Special thanks to representatives from China (IMP), RUS (BINP, ITEP)

July 4, 2008: Mandate of ISC

Start pre-collaboration on dedicated FAIR accelerators

**ISC supports the creation of pre-consortia/pre-collaborations
on the dedicated FAIR accelerators**

What are the Topics of Today?

Overview on CR

- Status of planning
- Status of Eols

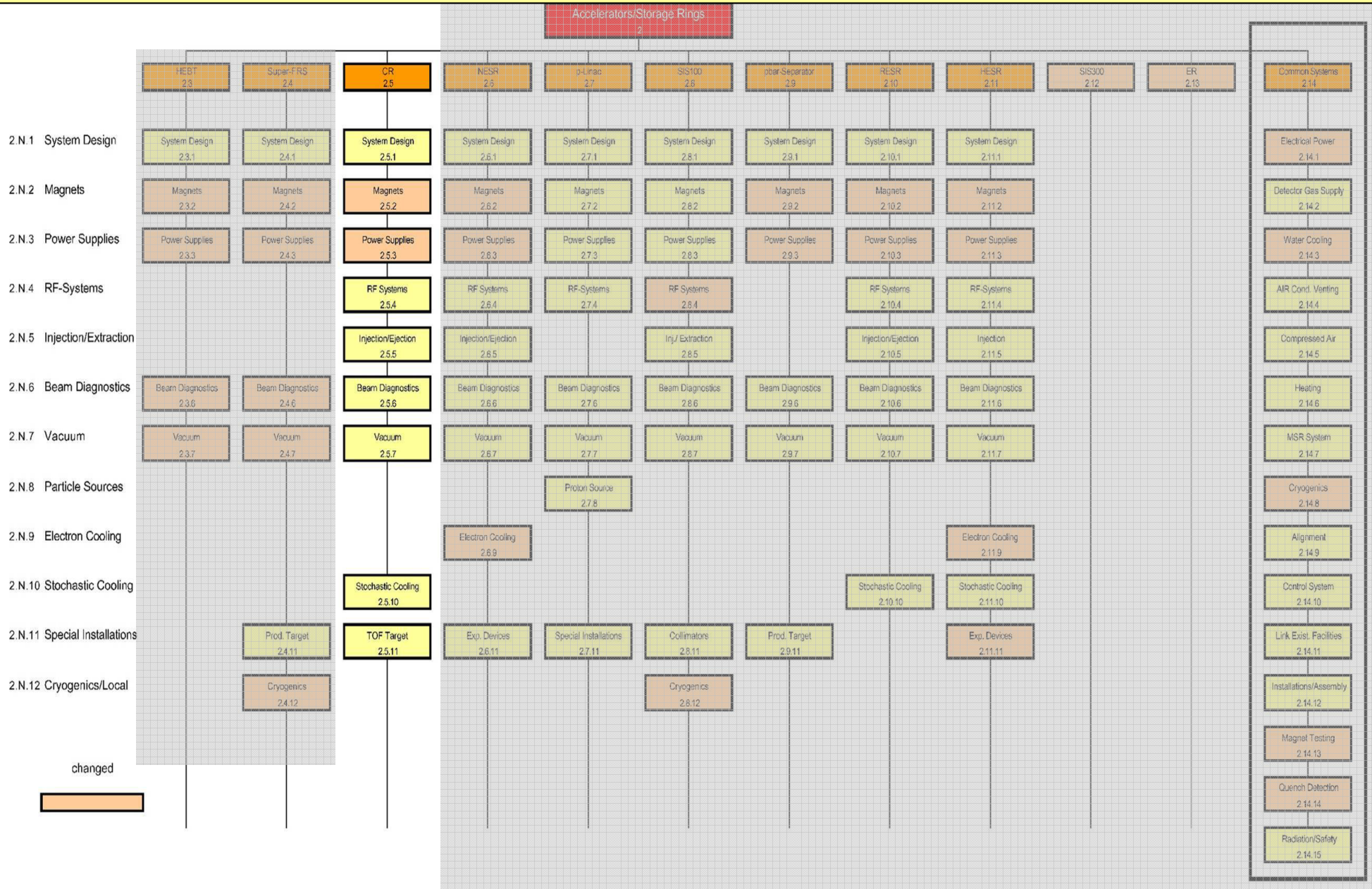
Communication

- EDMS & data exchange
- procedures, rules

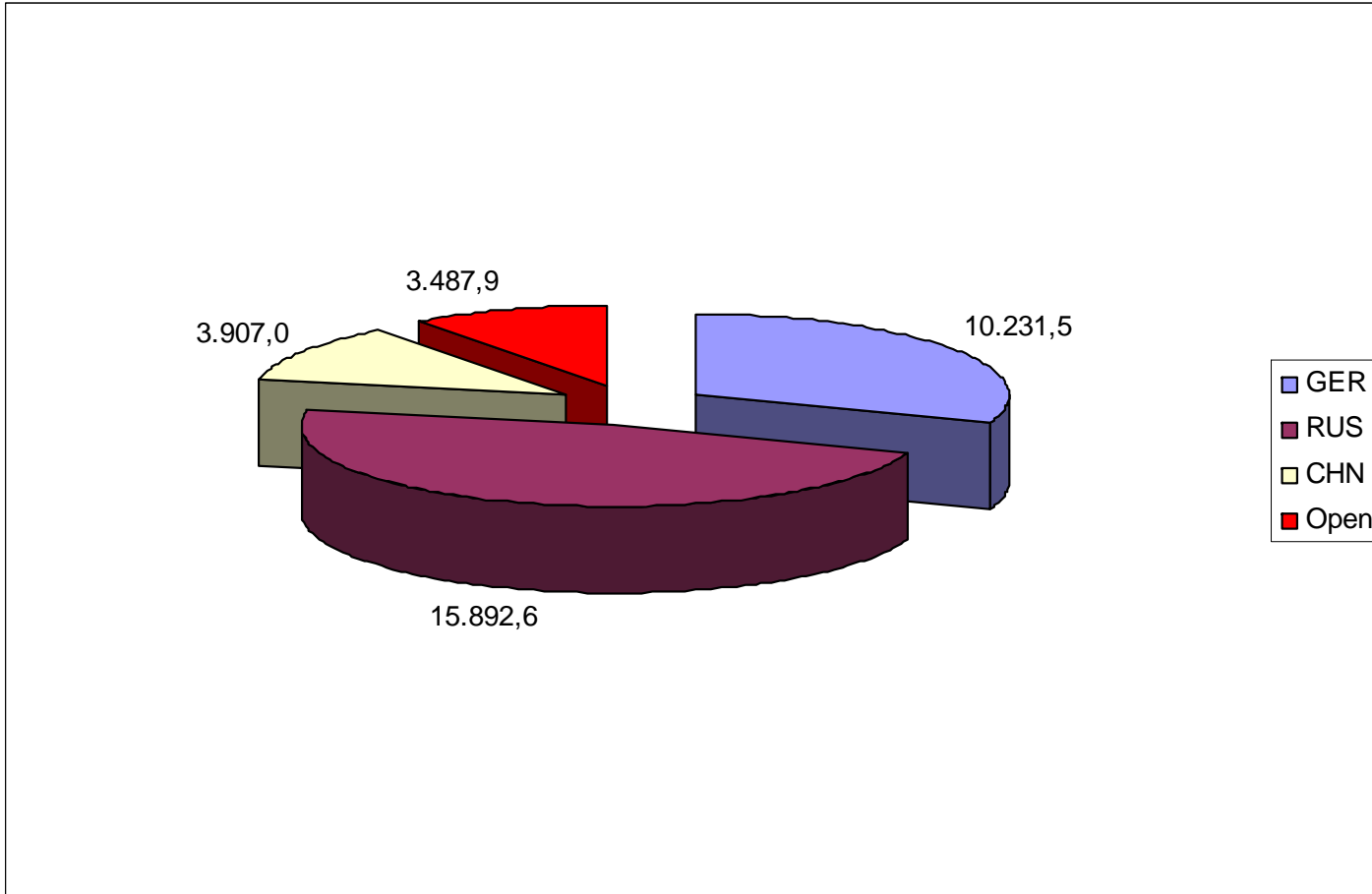
Main Goal

- Derive a Road Map
- take the first steps in the project

CR WBS



Status of Eol to CR



More than 89% of WPs are covered by Eols

Technical Background Documents

FAIR Baseline Technical Report
March 2008

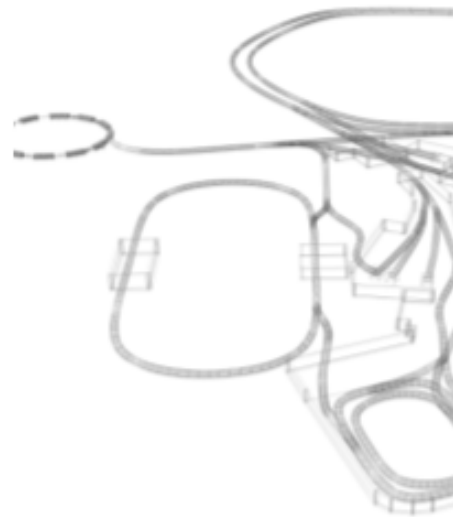
Table of Contents

Volume 1	Executive Summary
Volume 2	Accelerator and Scientific Infrastructure
Volume 3a	Experiment Proposals on QCD Physics
	3.1 CBM
Volume 3b	Experiment Proposals on QCD Physics
	3.2 PANDA
	3.3 FAIR
	3.4 ASSTA
Volume 4	Experiment Proposals on Nuclear Structure Physics (NUSTAR)
	4.1 LEB-SuperFRS
	4.2 HESR/BC/DSPEC
	4.3 MGTB
	4.4 LAMPBC
	4.5 R ² B
	4.6 SIDA
	4.7 AN
	4.8 ELIS
	4.9 EXL
Volume 5	Experiment Proposals on Atomic, Plasma Physics (APPA)
	5.1 SPARC
	5.2 HEDgMFB
	5.3 WDM
	5.4 FLAIR
	5.5 BOMAG
Volume 6	Civil Construction and Safety

Accelerator

Parameter List

of the International Facility for
Antiproton and Ion Research
FAIR



Helmholtz Centre for Heavy Ion Research

Version 1.0
October 22, 2007



FUR

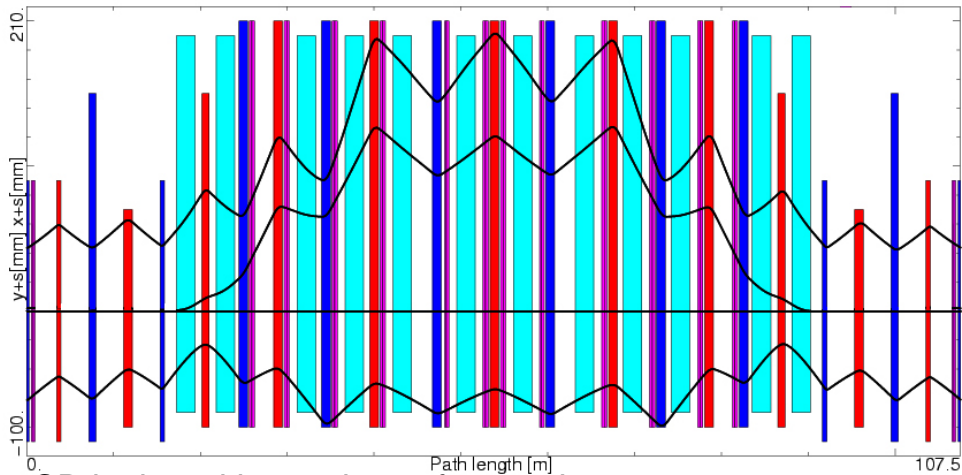
SCHWERIONENFORSCHUNG



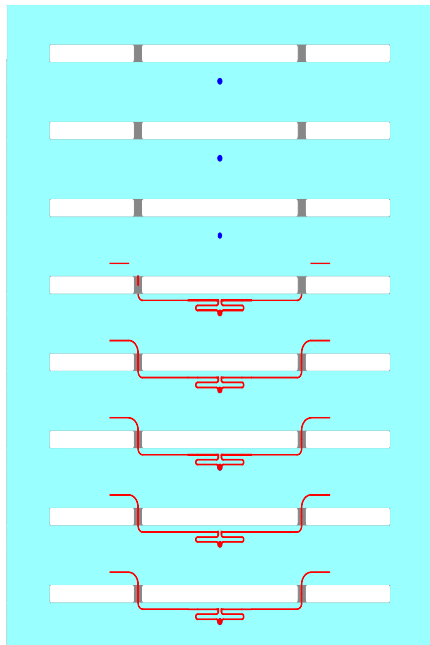
FAIR - Facility for Antiproton and Ion Research
Technical Design Report
Collector Ring (CR)

March 2008

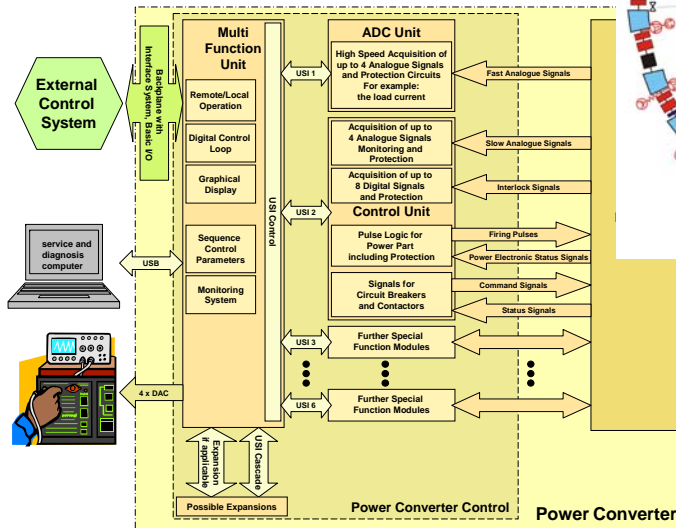
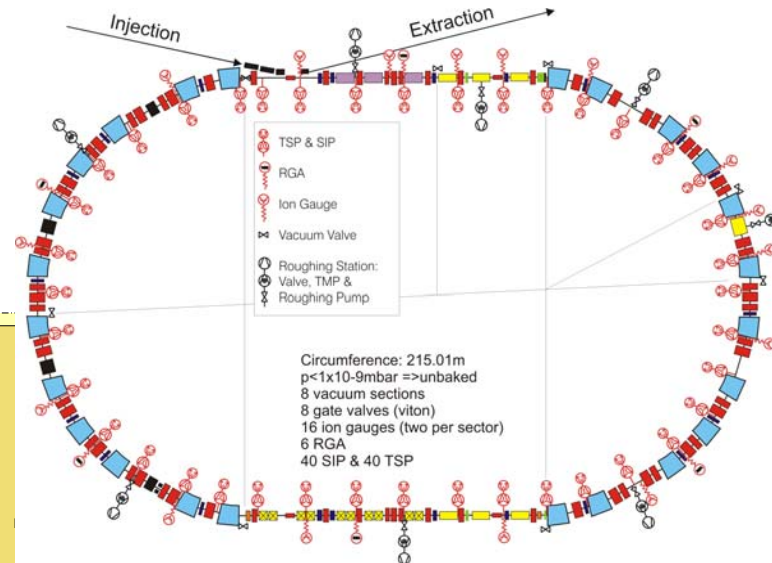
CR System Design



CR lattice with envelopes for rare isotopes.



Slotline array with eight slots arranged perpendicular to the beam



Status of Dipole Prototypes

Iron dominated magnets:

Radiation resistant nc dipoles

for Super-FRS

by BINP Novosibirsk

EU/GSI funded

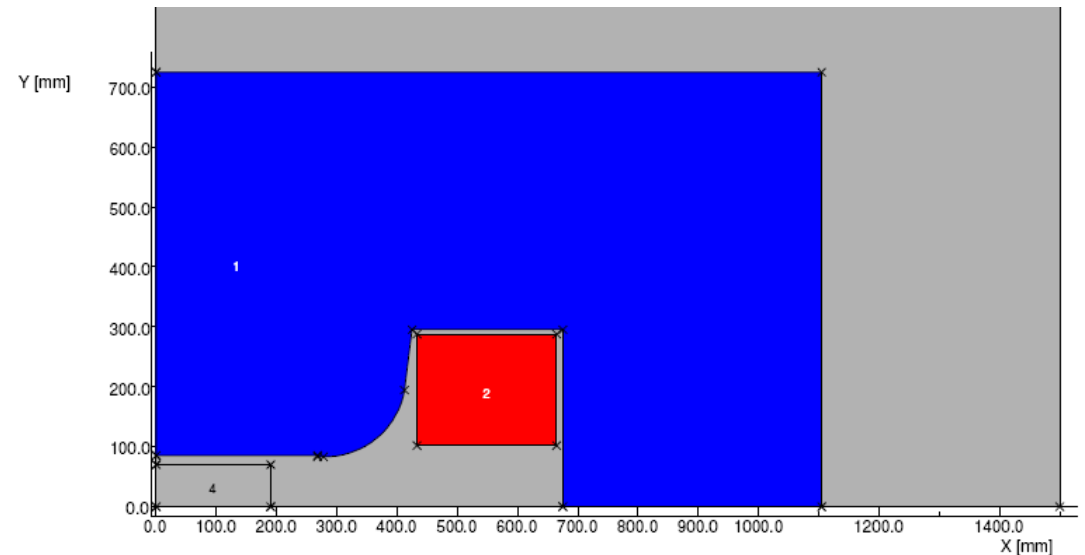
- Yoke ready
- inorganic insulated Cu bars ordered in Canada
- Coil production prepared coil finished in 2008 (?)
- Delivery Feb. 2009

Superferric dipoles Super-FRS

by FAIR China Group

China/GSI funded

- Yoke ready
- Coil reads
- cryostat under production
- Tests scheduled for early 2009

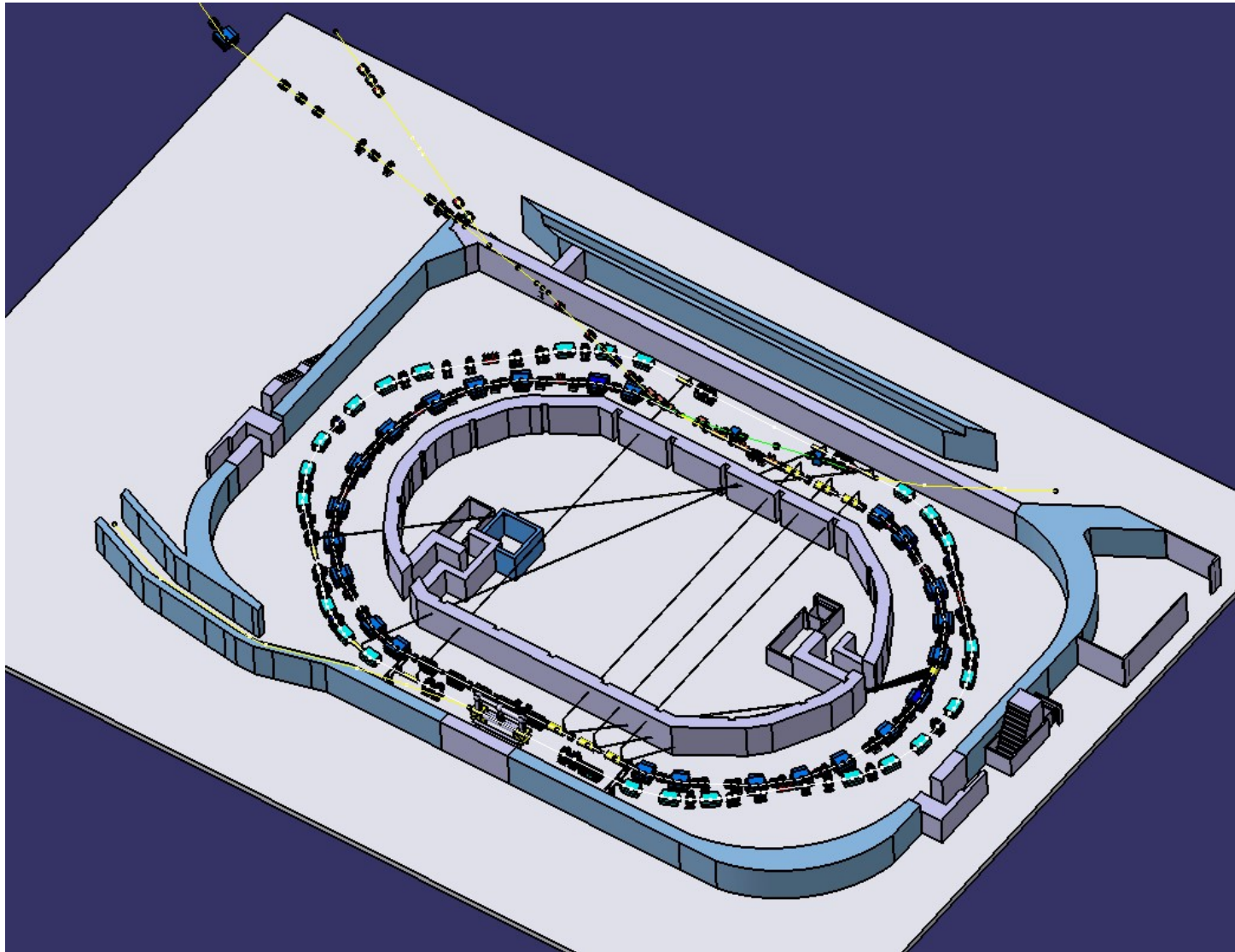


2D-cross section of one quarter of the CR dipole magnet.

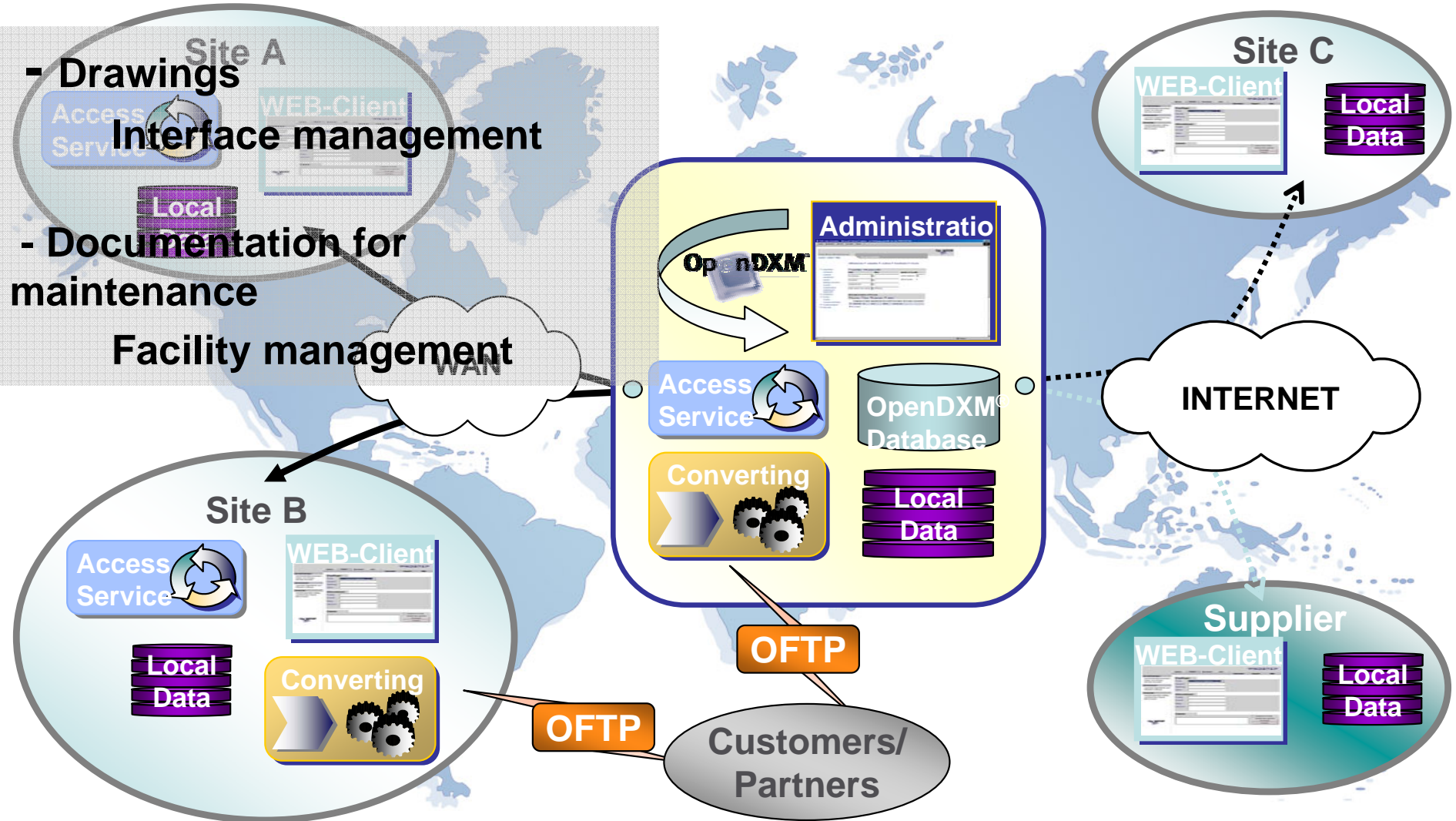


Dipole half-yoke at IMP

CR System Design cont'd



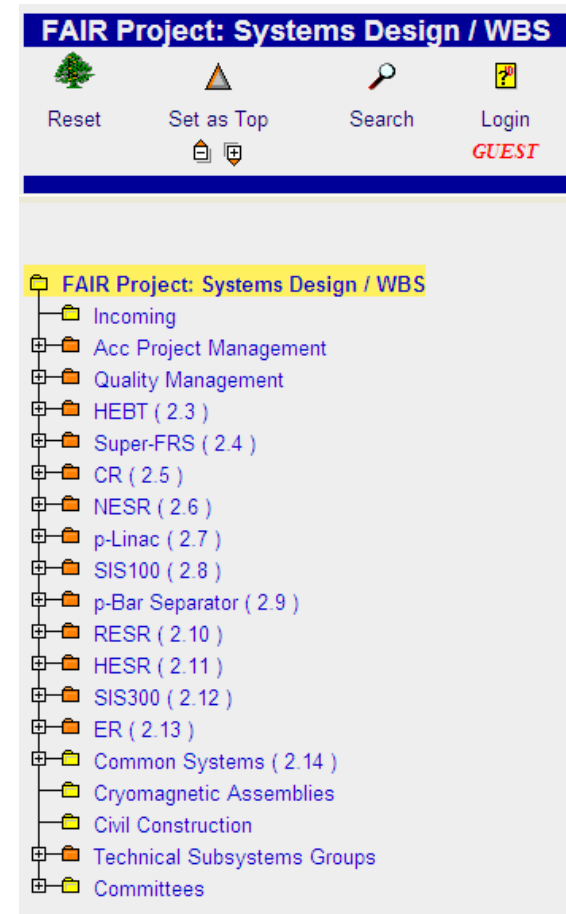
Standardization in Communication



Communication

FAIR Project EDMS is ready for usage

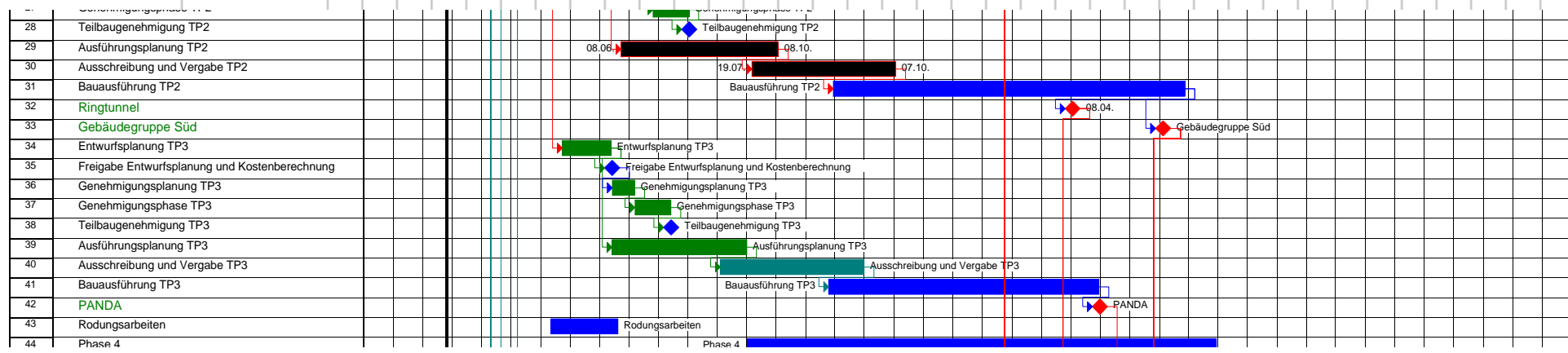
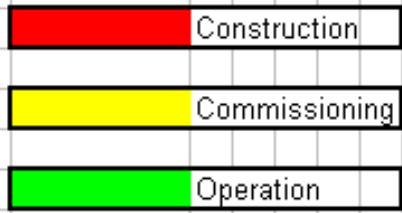
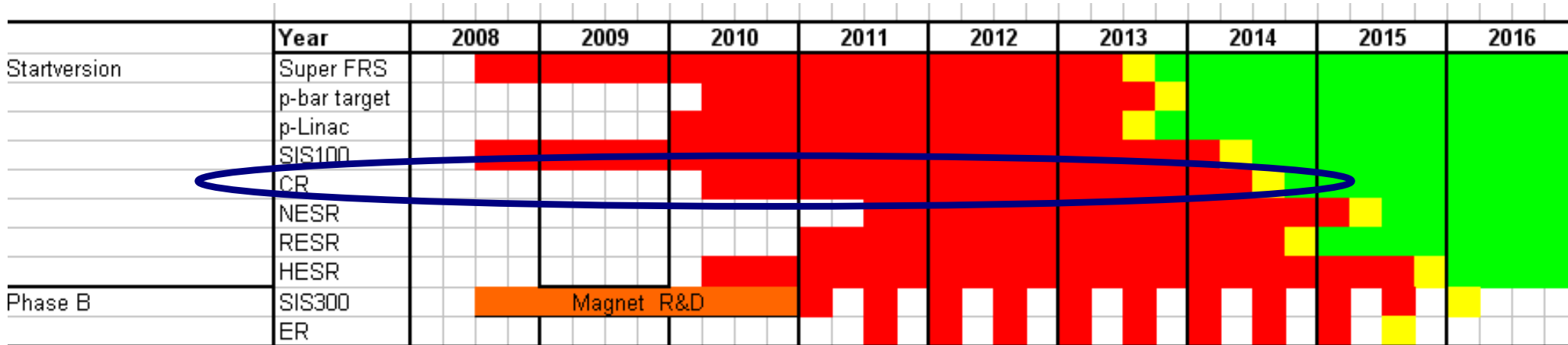
- The FAIR Project Data and Documents are categorized (Naming Convention)
- The Project Structure (WBS) is installed in EDMS
- Groups and Users with read, write access as well as comment/review and approval rights are defined



FAIR Project Document Naming System		Version 1.0	
Document Types		here: Example Engineering	
		23.07.2008	
Example	Document Types	Document Code	
Engineering (Plan, Act)		E	
	Technical Design Reports	E	T
	Functional Specifications	E	F
	Interface Specifications	E	I
	Detailed Design Specifications	E	D
	Quality Assurance, Test Specifications	E	A
	Change Requests	E	C
	Drawings	E	W
	Technical Illustrations	E	L
	Parameter Lists	E	P
	Minutes of Reviews	E	M
	Engineering reports	E	R

Schedule – FAIR Start Version

How to manage to get CR ready in the 5 ½ years left?



Out-Come of Today

There will be contracts between Labs, Funding Agency and FAIR GmbH

Derive a Road Map on CR

- What is the status of preparation in the partner labs on proposed EoI WPs?
wrt. project structures implemented, resources allocated

Agenda

[Wednesday 08 October 2008](#) |

Wednesday 08 October 2008

[top](#) ↑


09:00 Welcome and Goals of the Meeting (20') Hans-Dieter Krämer (*Gesellschaft für Schwerionenforschung mbH*)

09:20 Status CR (20') Markus Steck (*Gesellschaft für Schwerionenforschung mbH*)

09:40 CR EoIs - Confirmation (10') Wolfgang Jacoby (*Gesellschaft für Schwerionenforschung mbH*)

09:50 Coffee Break

10:05 Form and Status of Specifications (30') Hermann Kolb (*Gesellschaft für Schwerionenforschung mbH*)

10:35 Data Exchange - Rules, Procedures (30') ( document) Simone Richter (*Gesellschaft für Schwerionenforschung mbH*)

11:05 Discussion of CR Roadmap - 1 (1h30') Markus Steck (*Gesellschaft für Schwerionenforschung mbH*)

- CR Work Package Distribution (10')
- CR Magnets (10')
- CR Power Converters (10')
- CR Beam Diagnostics (10')
- CR UHV-System (10')
- CR Controls (10')
- CR Stochastic Cooling (15')
- CR RF-System (15')

12:35 Lunch

13:35 Discussion of CR Road Map - 2 (1h00') Markus Steck (*Gesellschaft für Schwerionenforschung mbH*)

14:35 Coffee Break