

FAIR 2021

Re-Baselining

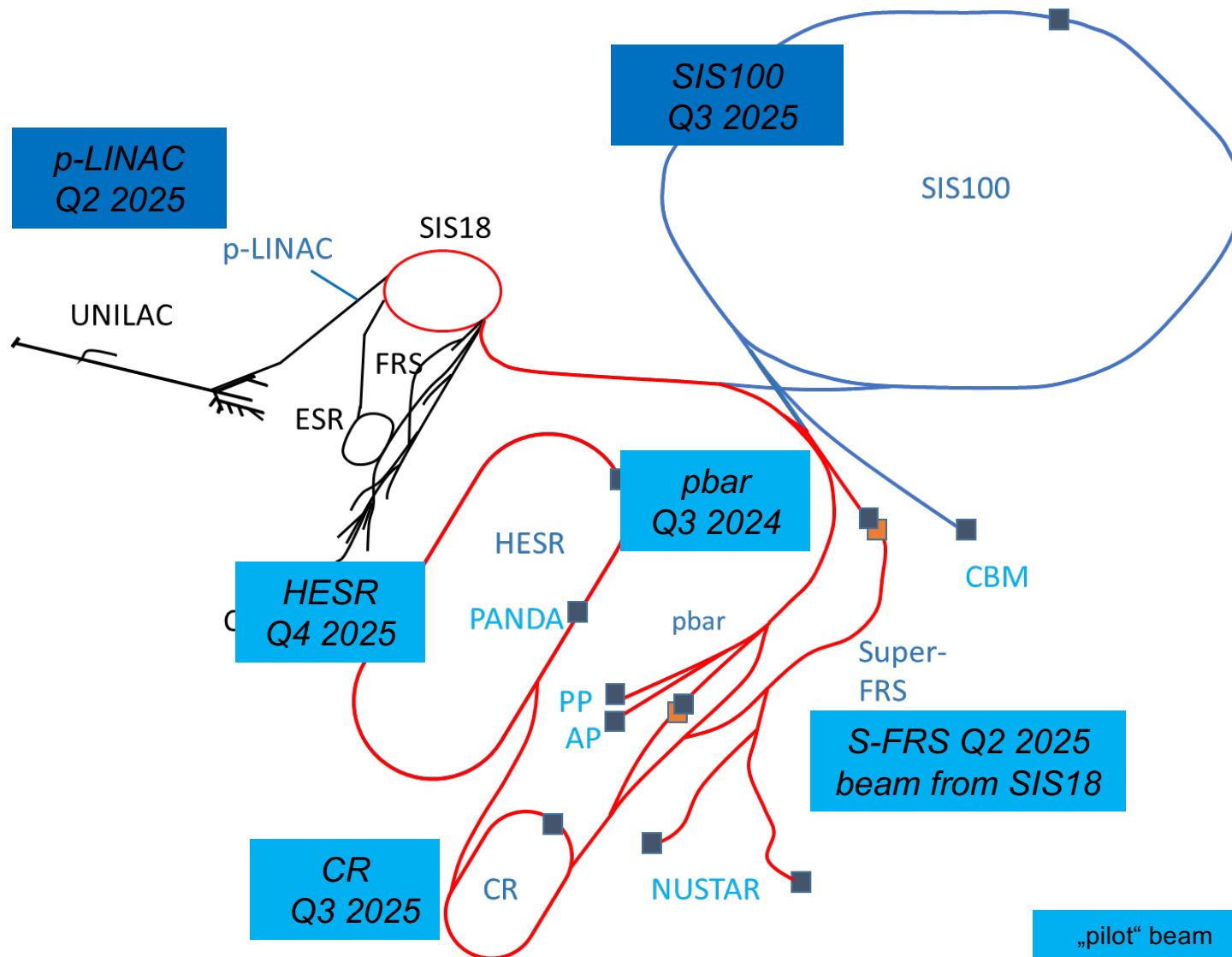
BINP - FAIR Workshop 09.11.2020

Natalya Winters & Nico Oepen

PMO Planning

'A goal without a plan is just a wish'
«Цель без плана - просто желание»
Antoine de Saint-Exupery

February 2019 – actual baseline



Situation in 2019
(past)

Buildings:

Building Shell Construction north
✓ awarded

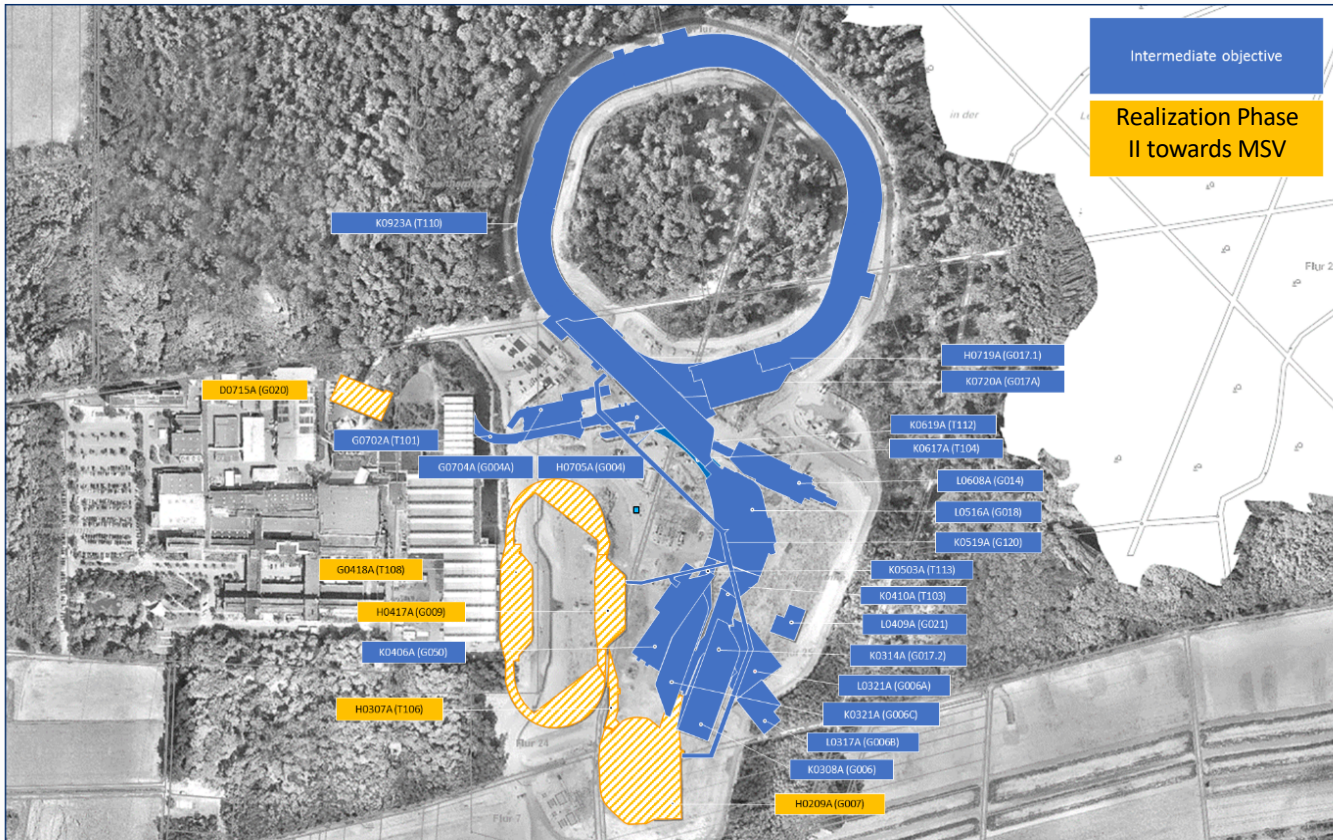
Building Shell Construction south
○ contract open

Technical Building Installation packages
○ contract open

Full MSV not fully financed

Status FSB - new project baseline is required

Scope of work „Intermediate objective (IO)“ and „Realization phase II towards MSV“



- ✓ Start of Building Shell Construction South (IO)

September 2020
(Award in April 2020)

new timeline

- Awarding Technical Building Installation packages - TBI (IO)

Q4 2020 – Q1 2021

new timeline

- uncertainty

Full MSV: not yet fully financed

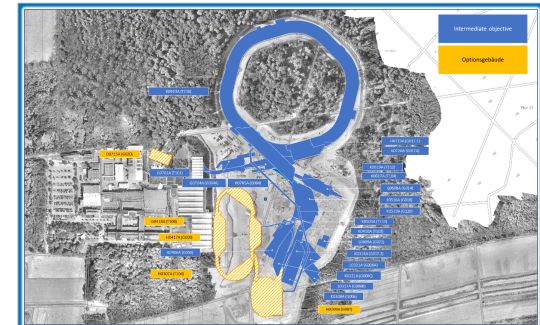
new assumption is required

new project baseline is required

FSB – Area north (RP I)



Name	Start	Finish	2020		2021		2022		2023		2024		2025	
			H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
Level 1 - FAIR Integrated Master Schedule	01.12.09	31.03.27												
FAIR Overall (according to contracts TBI)	01.12.09	31.03.27												
K0923A [T110] - SIS100	07.06.18	13.12.24												
T110 Structural works	07.06.18	30.09.21												
T110 ext. Structural works (former part of finish works)	28.06.19	21.09.22												
T110 Technical Building Infrastructure	04.10.21	14.02.24												
T110 Finish works	09.01.23	30.08.24												
T110 Testing and Commissioning (Level III bis VI)	18.01.23	13.12.24												
H0705A [G004] - Transfer Building / T104N Transfer SIS100 / T112N Transfertunnel SIS100/300-CBM	19.11.18	14.12.23												
G004/T104N/T112N Structural works	19.11.18	14.09.21												
G004/T104N/T112N ext. Structural works (former part of finish works)	14.04.21	03.05.22												
G004/T104N/T112N Technical Building Infrastructure	06.12.21	05.08.22												
G004/T104N/T112N Finish works	10.01.23	29.09.23												
G004 Testing and Commissioning (Level III bis VI)	18.07.22	14.12.23												
K0720A [G017A]	19.08.20	24.07.23												
G017A Structural works	19.08.20	10.12.21												
G017A ext. Structural works (former part of finish works)	22.12.21	15.11.22												
G017A Technical Building Infrastructure	07.02.22	21.11.22												
G017A Finish works	13.01.23	24.07.23												
G017A Testing and Commissioning (Level III bis VI)	22.09.22	24.07.23												
H0719A [G017.1]	25.10.19	22.05.24												
G017.1 Structural works	25.10.19	31.01.22												
G017.1 ext. Structural works (former part of finish works)	02.09.21	22.12.22												
G017.1 Technical Building Infrastructure	06.12.21	24.11.23												
G017.1 Finish works	13.01.23	09.02.24												
G017.1 Testing and Commissioning (Level III bis VI)	22.02.23	22.05.24												
L0608A [G014]	05.09.19	22.03.24												
G014 Structural works	05.09.19	09.05.22												
G014 ext. Structural works (former part of finish works)	30.08.21	16.12.22												
G014 Technical Building Infrastructure	05.07.22	01.12.23												
G014 Finish works	20.12.22	20.12.23												
G014 Testing and Commissioning (Level III bis VI)	20.03.23	22.03.24												
K0619A [T112]	06.09.19	26.02.24												
T112 Structural works	06.09.19	20.11.20												
T112 ext. Structural works (former part of finish works)	14.04.21	05.05.22												
T112 Technical Building Infrastructure	02.05.22	02.10.23												
T112 Finish works	15.02.23	20.12.23												
T112 Testing and Commissioning (Level III bis VI)	11.05.23	26.02.24												
G0704A/G0702A [G004A/T101]	16.06.20	17.11.23												
G004A/T101 Structural works	16.06.20	21.10.21												
G004A/T101 ext. Structural works (former part of finish works)	22.10.21	24.11.22												
G004A/T101 Technical Building Infrastructure	17.01.22	19.07.23												
G004A/T101 Finish works	16.01.23	10.10.23												
G004A/T101 Testing and Commissioning (Level III bis VI)	28.04.23	17.11.23												



Area north:

Priorities are given to buildings T110, G017A, G017.1, G04A and G004

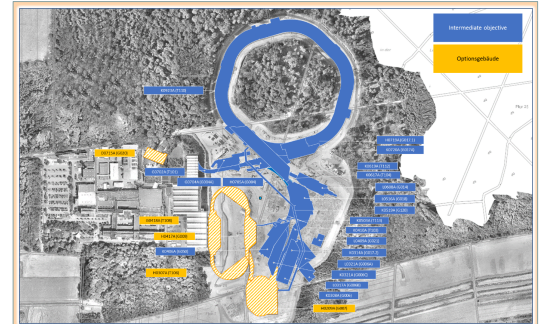
Compensation of delays in T110 successful

TBI / T&C delays as a result of late TBI contract awards

FSB – Area south (RP I)



Name	Start	Finish	2020		2021		2022		2023		2024		2025	
			H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
▲ K0308A [G006]	30.09.20	31.05.24												
G006 Structural works	30.09.20	02.12.21												
G006 ext. Structural works (former part of finish works)	01.10.21	22.09.22												
G006 Technical Building Infrastructure	21.07.22	03.05.23												
G006 Finish works	19.01.23	23.02.24												
G006 Testing and Commissioning (Level III bis VI)	19.01.23	31.05.24												
▲ K0314A [G017.2]	01.06.21	20.11.24												
G017.2 Structural works	01.06.21	20.09.22												
G017.2 ext. Structural works (former part of finish works)	29.10.21	28.10.22												
G017.2 Technical Building Infrastructure	06.03.23	04.06.24												
G017.2 Finish works	09.01.23	09.08.24												
G017.2 Testing and Commissioning (Level III bis VI)	25.10.23	20.11.24												
▲ L0321A [G006A]	09.04.21	11.11.24												
G006A/T103S Structural works	09.04.21	01.04.22												
G006A/T103S ext. Structural works (former part of finish works)	12.10.21	07.03.23												
G006A Technical Building Infrastructure	26.01.23	07.03.24												
G004A/T101 Finish works	16.01.23	08.08.24												
G006A Testing and Commissioning (Level III bis VI)	16.10.23	11.11.24												
▲ K0321A [G006C]	10.02.21	08.08.24												
G006C/T113S Structural works	10.02.21	25.10.22												
G006C/T113S ext. Structural works (former part of finish works)	21.09.21	20.06.23												
G006C Technical Building Infrastructure	10.10.22	16.01.24												
G006C Finish works	16.01.23	20.05.24												
G006C Testing and Commissioning (Level III bis VI)	13.07.23	08.08.24												
▲ K0406A [G050]	24.08.21	19.07.24												
G050 Structural works	24.08.21	28.10.22												
G050 ext. Structural works (former part of finish works)	21.02.22	14.03.23												
G050 Technical Building Infrastructure	23.01.23	06.12.23												
G050 Finish works	16.01.23	20.03.24												
G050 Testing and Commissioning (Level III bis VI)	18.08.23	19.07.24												
▲ L0516A/K0410A/K0503A/K0617A [G018/T103/T113/T104]	22.11.21	20.12.24												
G018/T103N/T113N/T104S Structural works	22.11.21	09.08.23												
G018/T103N/T113N/T104S ext. Structural works (former part of finish works)	05.09.22	20.10.23												
G018/T103/T113/T104 Technical Building Infrastructure	08.03.23	01.08.24												
G018/T103/T113/T104 Finish works	10.04.23	04.10.24												
G018/T103/T113/T104 Testing and Commissioning (Level III bis VI)	25.01.24	20.12.24												
▲ L0409A [G021]	29.08.22	22.04.24												
G021 Structural works	29.08.22	14.06.23												
G021 ext. Structural works (former part of finish works)	10.03.23	05.10.23												
G021 Technical Building Infrastructure	09.05.23	27.10.23												
G021 Finish works	03.04.23	30.01.24												
G021 Testing and Commissioning (Level III bis VI)	01.09.23	22.04.24												
▲ K0519A [G120]	04.08.21	12.07.24												
G120 Structural works	01.07.22	19.10.23												
G120 Steel works	16.03.23	29.04.24												
▲ L0317A [G006B]	12.05.21	04.10.23												
G006B Structural works	12.05.21	08.03.22												
G006B ext. Structural works (former part of finish works)	04.01.22	22.11.22												
G006B Technical Building Infrastructure	21.04.22	29.03.23												
G006B Finish works	10.01.23	05.09.23												
G006B Testing and Commissioning (Level III bis VI)	19.12.22	04.10.23												

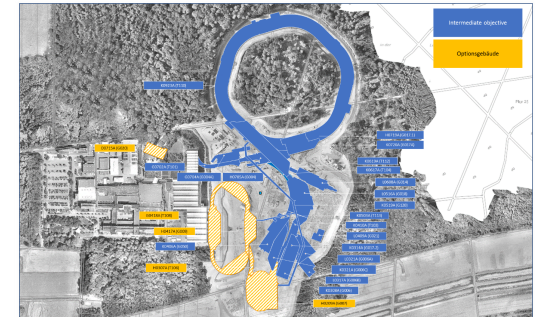


Area south:

General delay of about 9 months results of delayed structural works award

TBI delay results of structural works delay and structural works executive contracts

Name	Start	Finish	2020		2021		2022		2023		2024		2025	
			H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
▾ [G020] - p-linac (RP II)	23.03.23	18.06.25												
G020 Sheeting and pit works	23.03.23	21.04.23												
G020 Structural works	24.04.23	06.02.24												
G020 Finish works	23.11.23	16.04.25												
G020 Technical Building Infrastructure	15.03.24	27.02.25												
G020 Testing and Commissioning	27.09.24	18.06.25												
▾ [G007] - CR / [T106] Transfer CR-HESR (RP II)	20.01.22	17.12.25												
G007/T106 Sheeting and pit works	20.01.22	30.03.22												
G007/T106 Structural works	11.11.22	02.02.24												
G007/T106 Finish works	23.08.23	14.01.25												
G007/T106 Technical Building Infrastructure	18.06.24	11.08.25												
G007/T106 Testing and Commissioning	04.03.25	17.12.25												
▾ [G009] - HESR PANDA (RP II)	13.03.23	14.10.25												
G009 Sheeting and pit works	13.03.23	25.04.23												
G009 Structural works	26.04.23	07.03.24												
G009 Finish works	29.12.23	23.01.25												
G009 Technical Building Infrastructure	07.03.24	20.02.25												
G009 Testing and Commissioning	27.11.24	14.10.25												
▾ [T108] - HESR (RP II)	08.02.23	16.10.25												
T108 Sheeting and pit works	08.02.23	05.05.23												
T108 Structural works	05.04.23	17.07.24												
T108 Finish works	21.02.24	16.10.25												
T108 Technical Building Infrastructure	21.02.24	04.02.25												
T108 Testing and Commissioning	19.08.24	04.07.25												



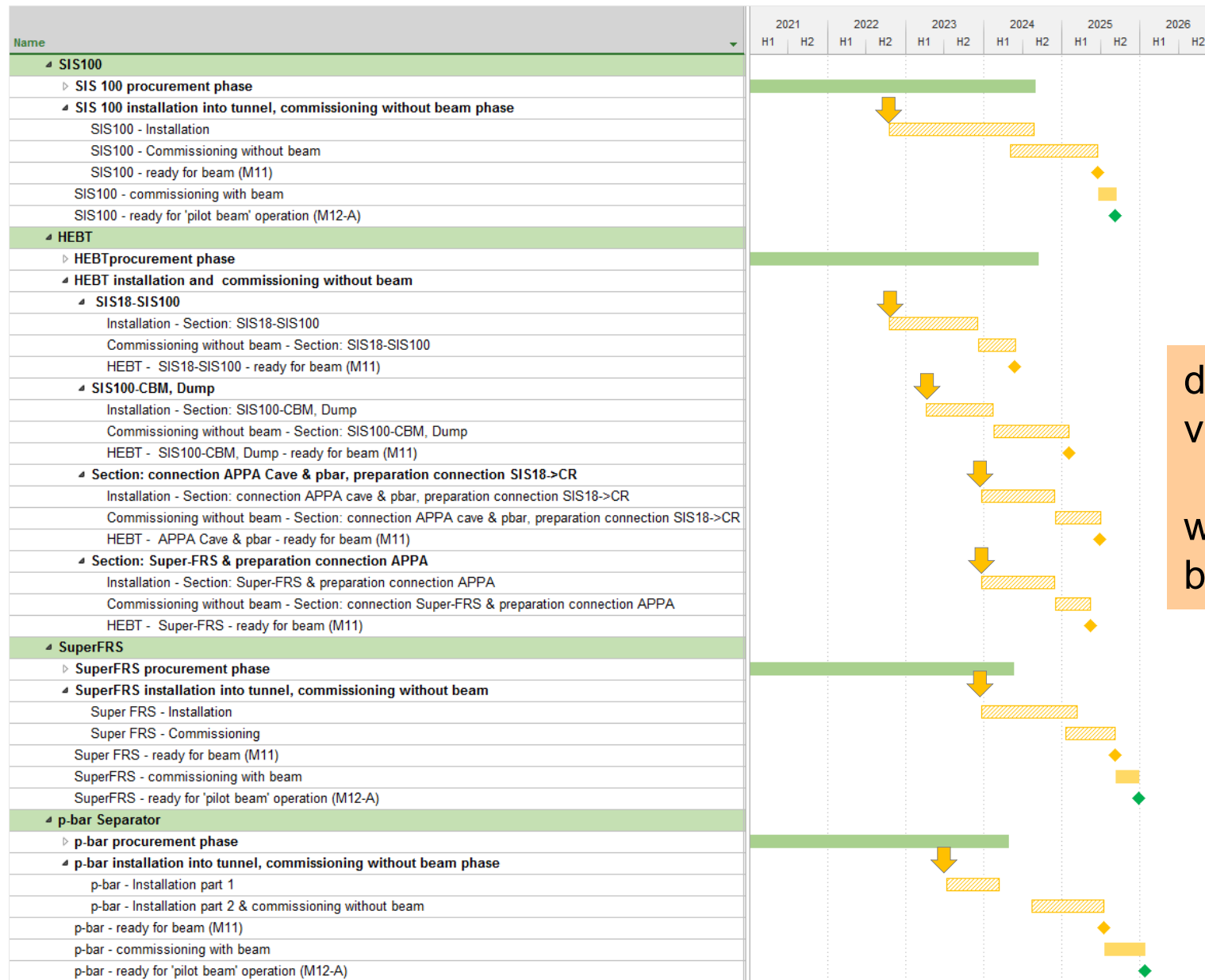
data still needs to be verified

will be done for baseline 2021

RP II (Realization phase II)

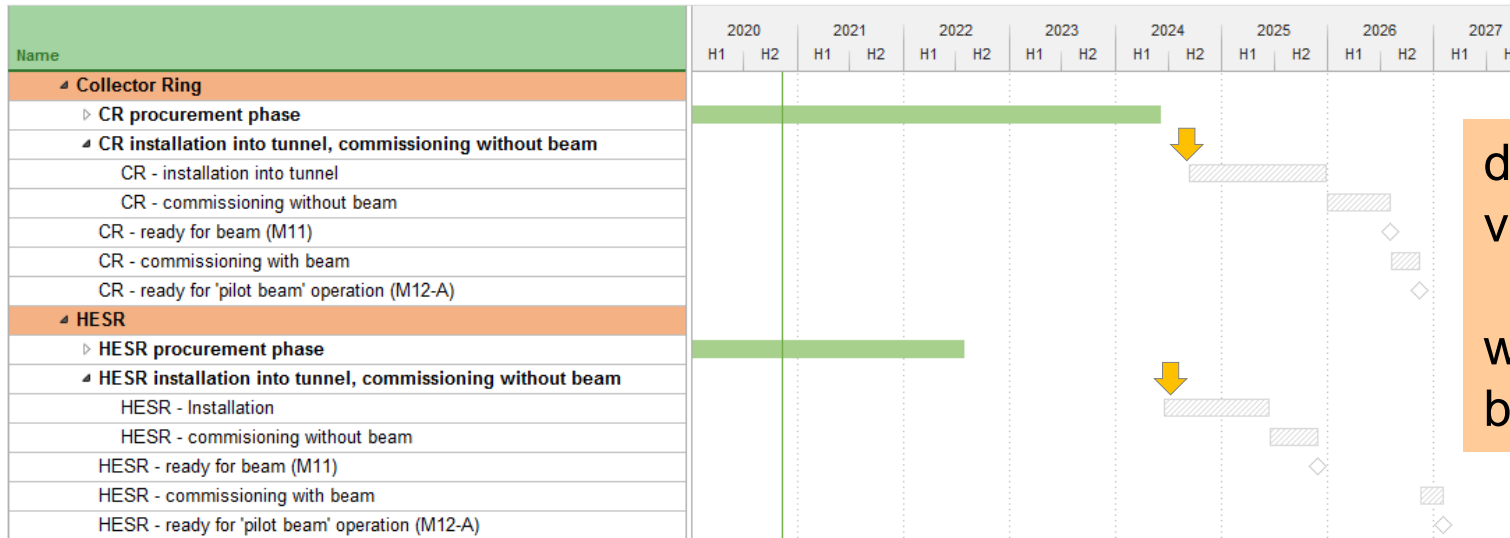
- **approach for Baseline 2021**: missing budget will be made available from July 2022 onwards (Council Decision in December 2021)
- schedule corresponds to optimized options in actual structural works contract
- buildings - except G020 - are currently not included in the TBI contracting process. They will require a separate tendering process.

ACC Installation - draft



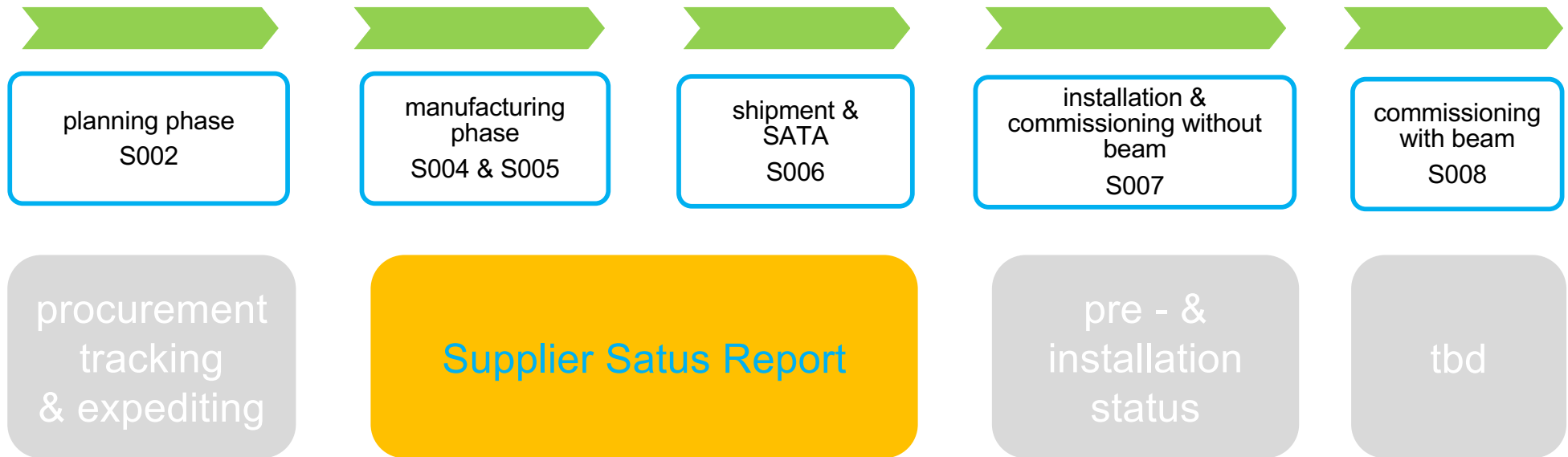
data still needs to be verified

will be done for baseline 2021



data still needs to be verified

will be done for baseline 2021



responsible = WPL's (SPL) & reporting data bank for planning = MS Project

Input for MSP:

- **progress reporting/S-Curve**
- **critical path analysis**
- **project prognosis**
- resource planning
- cost planning (RN)

Input for SAP:

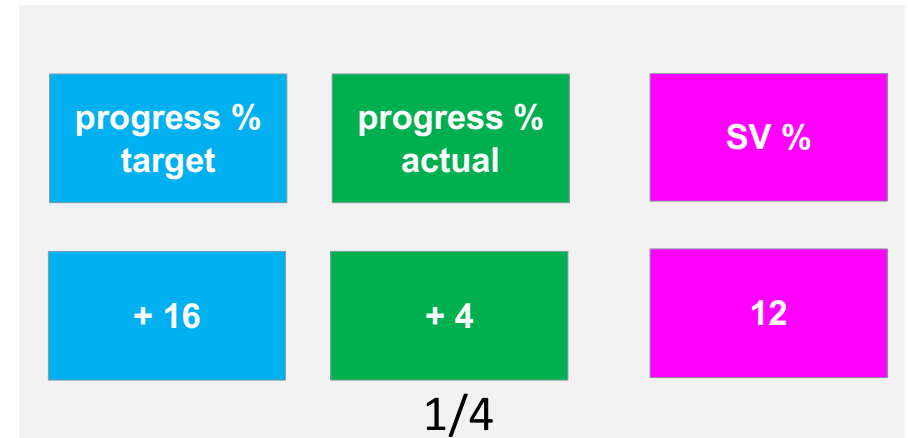
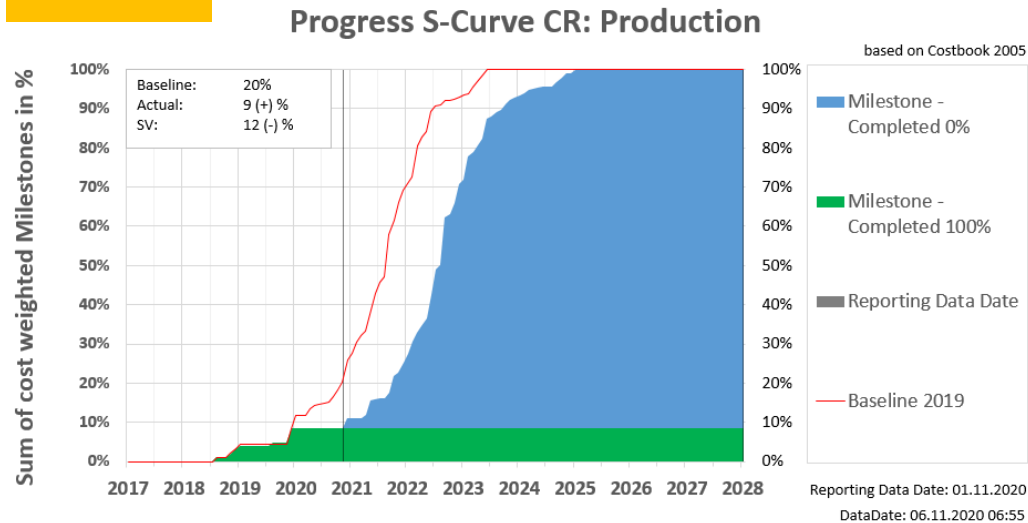
- cost planning (obligo)

Input for PLM:

for logistics

Installation planning

Example



Our forecasts have to get better

Action for new baseline:

realistic forecast for FAT und delivery date for all ACC & Exp components

BINP – Provider Tracking Status



Provider tracking status				Output Tracking												
Subproject	Components Name	Quantity	Production Start	Q1			Q2			Q3			Q4			
				Jan	Feb	Mar	April	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
CR																
CR	CR/TCR1 Dipole Magnets	24+2	24.01.2020												14.10.2020	
CR	CR/TCR1 wide Quadrupoles Magnets	29	27.08.2021												14.10.2020	
CR	CR/TCR1 Narrow Quadrupoles Magnets	11	07.09.2021												14.10.2020	
CR	CR/TCR1 Sextupole Magnets	26	05.03.2021												14.10.2020	
CR	CR/TCR1 Steerer Magnets	21+4	05.03.2021												14.10.2020	
CR	CR/TCR1 Dipole Power Converter	2+1	18.03.2021 / 26.11.2020												30.10.2020	
CR	CR/TCR1 wide Quadrupole Power Converter	15+6	26.01.2021 / 26.02.2021												30.10.2020	
CR	CR/TCR1 Sextupole Power Converter	6+2	25.12.2020 / 08.11.2021												30.10.2020	
CR	CR/TCR1 Steerer Power Converters	86	02.12.2020 / 15.12.2021												30.10.2020	
CR	CR/TCR1 Beam Position Monitor	19+5	02.10.2020												30.10.2020	
CR	CR/TCR1 Dip Vacuum Chambers	24	17.01.2020 / 20.10.2021												30.10.2020	
CR	CR/TCR1 wide Quad-sext chamber	29	18.08.2020												30.10.2020	
CR	CR/TCR1 Quad Vacuum Chambers	29+7	26.05.2022												30.10.2020	
pbar																
pbar	NC wide Quadrupoles	8	08.04.2022												15.10.2020	
pbar	p-Bar radiation resistant Magnets		no contract													
Super FRS																
Super FRS	NC Dipoles	2	14.09.2020					25.05.2020							02.10.2020	
Super FRS	SC Dip. Vacuum Chambers	21													19.10.2020	
Super FRS	Diagnostic Chambers	21	22.02.2021			02.03.2020									15.10.2020	
Super FRS	Feedboxes	61?	no contract													
Commons																
HEBT	Magnets Batch 2&3&4	303		31.01.2020	28.02.2020	13.04.2020	04.05.2020	01.06.2020	30.06.2020		02.08.2020	30.09.2020	02.11.2020			
HEBT	Vacuum Batch 1	51														
HEBT	Vacuum Batch 2&3	272				06.03.2020	16.04.2020	06.05.2020	30.06.2020		04.08.2020		07.10.2020			
HEBT	Vacuum Batch 4	1175														

BINP Components:

new steering FAIR - BINP Meeting & good BINP PMO & CR Lead support

Prio: Super FRS & HEBT

BINP – Delivery Matrix

Nico Oepen

BINP – Delivery dates HEBT Magnets



						11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2								
						2020												2021												2022											
Quantity	Work Package	Assembly	Start delivery	Finish delivery	Contract status	delivered																																			
310	HEBT Magnets					58	15	34	30	16	12	21	17	29	17	9	4	12	4	21	4											5	2								
6	Dipole 10 (HEBT 100 Divider) - dip10		HEBT dip10	06/20	08/21	signed	1		1							1																									
4	Dipole 15 (HEBT18) - dip15_0		HEBT dip15	08/19	09/19	signed	4																																		
1	Dipole 15 (HEBT18) - dip15_1		HEBT dip15	12/20	12/20	signed		1																																	
1	Dipole 16 (HEBT18) - dip16		HEBT dip16	12/20	12/20	signed		1																																	
1	Dipole 17 (HEBT18) - dip17_0		HEBT dip17	01/21	01/21	signed				1																															
4	Dipole 19 (HEBT100) - dip19_0		HEBT dip19	02/21	05/21	signed					1	1	1	1																											
2	Dipole 13 (SIS100) - dip13_0		HEBT dip13	12/20	01/21	signed		1	1																																
3	Dipole 13 (SIS100) - dip13_3		HEBT dip13	02/21	06/21	signed					1		1		1																										
2	Dipole 4 - dip4 FBL		HEBT dip4 FBL	10/21	11/21	signed														1	1																				
2	CR-type dip3_3		CR-type dip3_3	02/23	02/23	open																										2									
81	Quadrupole 2 (SIS18 HEBT-Type long)		HEBT quad2	11/17	01/22	signed	32				8	2	4	6	5	5	5	2	4		1																				
4	Quadrupole 10 (CBM Target-Focus Type long)		HEBT quad10	11/20	11/20	signed		4																																	
69	Quadrupole 11 (HEBT100)		HEBT quad11	07/20	10/21	signed	5	5	6	6	6	6	6	6	6	6	5	6																							
12	Quadrupole 12 (HEBT100)		HEBT quad12	12/20	06/21	signed			1	5						6																									
10	Quadrupole 2 FBL		HEBT quad2 FB	01/22	03/22	signed																								6		4									
4	Quadrupole 2 (SIS18 HEBT-Type long) HED		HEBT quad2 HE	01/22	01/22	signed																																			
1	Quadrupole 11 (HEBT100) HED		HED quad11 HE	11/21	11/21	signed																																			
5	CR-type quad3_3		CR-type quad3_3	01/23	01/23	open																											5								
5	Steering Magnets HEBT18 (large aperture, S13)		HEBT S18 (large)	11/21	01/22	signed																																			
44	Steering Magnets HEBT18		HEBT S18	08/19	07/21	signed	6	6	14	8			2		4	4																									
43	Steering Magnets HEBT100		HEBT S100	01/18	07/21	signed	10		9		6		5	5	5	3																									
2	Steering Magnet HEBT100 HED		HEBT S100 HED	06/21	06/21	signed									2																										
4	Steering Magnet HEBT18 FBL		HEBT S18 FBL	10/21	10/21	signed																																			

Country	Provider	CB 8.1 2005 mio	Pieces series	BIMP components	Contract M4 actual	Start actual baseline contract	FAT - M9	Finish actual baseline contract	Finish delay month	SPI	Start actual baseline contract	Delivery - M92	Finish actual baseline contract	Finish delay month	SPI	Start actual baseline contract	SAT - M10	Finish actual baseline contract	Finish delay month	SPI
Russia	BINP	11,56	282	Magnets Batch 2&3	02.11.2015 signed	10-17 10-17 10-17	13%	01-22 04-21 04-21	9	14%	11-17 11-17 11-17	13%	01-22 04-21 04-21	9	14%	04-19 02-19 04-19	11%	03-22 06-21 05-21	9	12%

Information about next deliveries uncertain:

- 54 more magnet deliveries were scheduled for 2020, but couldn't take place so far
- Concept for next FATs at BINP not approved
- Further shifts of the general schedule are likely. A realistic forecast for baseline 2021 is very difficult

BINP – Delivery dates HEBT Vacuum



Quantity Work Package Assembly Start delivery Finish delivery Contract status delivered							11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
							2020												2021						
1726	HEBT Vacuum									6			8	565	62	4			9	36	53	698		283	2
6	Dipole chamber dip 10 Divider	HEBT dip10	04/21	04/21	signed							6													
5	Dipole chamber dip 13	HEBT dip13	01/21	05/21	signed			3					2												
5	Dipole chamber dip 15	HEBT dip15	01/21	06/21	signed			1						4											
1	Dipole chamber dip 16	HEBT dip16	01/21	01/21	signed			1																	
1	Dipole chamber dip 17	HEBT dip17	01/21	01/21	signed			1																	
4	Dipole chamber dip 19	HEBT dip19	03/21	03/21	signed				4																
1	Dipole chamber dip 4 (bending) FBL	HEBT dip4 FBL	10/21	10/21	signed															1					
1	Dipole chamber dip 4 (branching) FBL	HEBT dip4 FBL	10/21	10/21	signed															1					
2	CR-Type Dipole Chamber dip3_3	CR-type dip3_3	05/22	05/22	open																			2	
4	Quadrupole chamber quad10	HEBT quad10	03/21	03/21	signed				4																
69	Quadrupole chamber quad 11	HEBT quad11	09/21	10/21	signed														36	33					
17	Quadrupole chamber quad 12	HEBT quad12	10/21	10/21	signed															17					
81	Quadrupole chamber quad 2	HEBT quad2	04/21	05/21	signed							35	46												
10	Quadrupole chamber quad 2 FBL	HEBT quad2 FBL	05/21	05/21	signed								10												
4	Quadrupole Chamber quad2 HED	HEBT quad2 HED	05/21	05/21	signed?								4												
1	Quadrupole Chamber quad11 HED	HED quad11 HED	10/21	10/21	signed?															1					
5	CR-Type Quadrupole Chamber quad3_3	CR-type quad3_3	05/22	05/22	open														5						
29	Steerer chamber s100	HEBT S100	04/21	04/21	signed								29												
2	Steerer Chambers s100 HED	HEBT S100 HED	04/21	04/21	signed?								2												
31	Steerer chamber s18h/v	HEBT S18	04/21	04/21	signed								31												
3	Steerer chamber s18h/v FBL	HEBT S18 FBL	08/21	04/21	signed								3												
4	Steerer chamber s13 large aperture	HEBT S18 (large)	08/21	08/21	signed														4						
1440	Batch 4 (Bellows, Pumping Chambers, Straight Tubes)												459								698		283		

Country	Provider	CB 8.1 2005 mio	Pieces series	HEBT components	Contract M4 actual	Start actual baseline contract	FAT - M9	Finish actual baseline contract	Finish delay month	SPI	Start actual baseline contract	Delivery - M92	Finish actual baseline contract	Finish delay month	SPI	Start actual baseline contract	SAT - M10	Finish actual baseline contract	Finish delay month	SPI
Russia	BINP	1,13	272	Vacuum Batch 2&3	04.04.2019 signed	11-20 04-20 12-19	0%	07-21 09-21 12-20	-1	0%	12-20 05-20 03-20	0%	10-21 09-21 03-21	1	0%	01-21 05-20 04-20	0%	11-21 10-21 04-21	2	0%
Russia	BINP	2,82	1440	Vacuum Batch 4	22.11.2019 signed	03-21 06-21 01-21	0%	02-22 06-21 12-21	8		04-21 07-21 02-21	0%	03-22 07-21 01-22	8		05-21 08-21 03-21	0%	04-22 08-21 02-22	7	

An updated forecast is needed:

- Last update about the general delivery schedule was generated after last workshop in May 2020
- A new forecast is needed for baseline 2021

BINP – Delivery dates Super-FRS



						11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7				
						2020	2021										2022							2023						
185 Super-FRS						2															1	133		6	1	5	1	5	25	
2 Super-FRS Magnets																														
1	Dipole 1.2	SFRS dip	09/22	09/22	signed																									
1	Dipole 1.3	SFRS dip	11/22	11/22	signed																									
178 Super-FRS Vacuum						2																								
3	NC dipole chambers	SFRS dip	08/22	08/22	open (EOI&R&D)																									
23	SC Standard-Dipole Chambers		06/21	02/23	signed																									
21	Diagnostic Chambers		01/20	01/23	signed	1																								
3	Branched dipole chamber		08/22	08/22	return PSP?																									
128	Beam pipes/bellows/pumping chambers		05/22	05/22	not assigned																									
1 Super-FRS Beam Instrumentation																														
1	BPM (in front of Target Station)		02/23	02/23	not assigned																									
4 Super-FRS Local Cryogenics																														
1	Branch box		02/23	02/23	open (EOI)																									
1	Warm piping		04/22	04/22	open (EOI)																									
1	Transfer lines		02/23	02/23	open (EOI)																									
1	Installation local cryogenics		01/23	06/23	open (EOI)																									

Country	Provider	CB 8.1 2005 mio	Pieces series	Super-FRS components	Contract M4 actual	Start actual baseline contract	FAT - M9	Finish actual baseline contract	Finish delay month	SPI	Start actual baseline contract	Delivery - M92	Finish actual baseline contract	Finish delay month	SPI	Start actual baseline contract	SAT - M10	Finish actual baseline contract	Finish delay month	SPI
Russia	BINP	2,02	2	NC Dipoles	15.03.2019 signed	09-22 01-22 03-22	0%	11-22	3		09-22 02-22 03-22	0%	11-22	1		03-23 11-22 08-22	0%	03-23	4	
Russia	BINP	0,56	21	Dip. Vacuum Chambers	12.09.2019 signed	04-21 02-21	0%	08-22	6		05-21 02-21	0%	03-23	5		12-21 03-21	0%	04-23	3	
Russia	BINP	0,78	21	Diagnostic Chambers	15.03.2019 signed	12-20 05-21	0%	12-22	20		01-13 01-20	0%	01-23	36	0%	06-21 07-21	0%	03-23	20	

- NC Dipoles: the delivery dates shown in the contract may not be realistic anymore. FDR is delayed by 10 months. A new schedule is needed
- Delivery sequence for vacuum components is under discussion, first supplier status reports arrived in October 2020
- Many Super-FRS components at BINP not yet under contract, new forecast for baseline 2021 is needed

- Realization of FAIR Project Construction is making good progress
- New milestones for shell construction south and realistic dates for TBI are available
- FAIR budget for MSV (missing budget for Buildings) must be made available from July 2022 (Council Decision in December 2021) so that the CR, pLinac and HESR machines can be installed as planned
- ACC progress is much lower than prognosis
- Realistic und reliable planning is urgently needed -> please take your time for it
- Priorization for BINP: HEBT and SuperFRS - pbar - CR

Спасибо за внимание
Thanks for your attention

‘A goal without a plan is just a wish’

Antoine de Saint-Exupery