## The great management plan towards construction

the outcome

## The great management plan

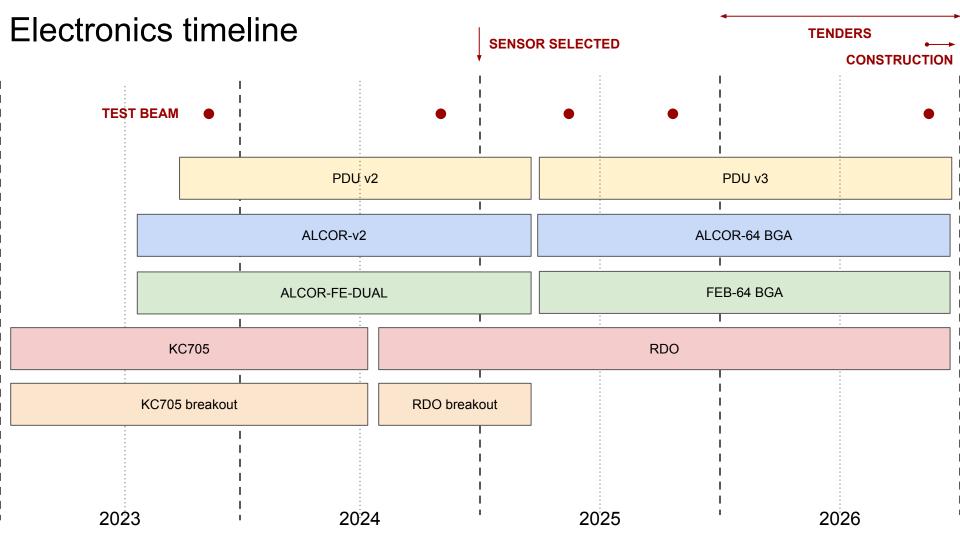


Year		2023				2024			2025			2026				2027				2028				2029				2030					
	Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	test beam				х		х		х		х		х																				
	sensor choice									х												l											
	tenders															х	х	х	x			l											
Milestone	contruction																			X	х	х	X	х	х	х	Х						
	shipping																					l		X	x	х	X	X	х				
	assembly																					l				х	X	X	х	x	X	X	
	installation													es																			X
	HPK SiPM carrier v2			10																													
sensors	FBK SiPM run				25													l				l											
	FBK SiPM carrier v2						10											l				l											
	HPK SiPM carrier v2						5											l				l											
	HPK SiPM 75 um						20											l				l											
	final SiPM carrier vF									10								l				l											
	SiPM carrier prod													100				l				l											
	final sensors prod													250				250		250		250		500									
	ALCOR v2	35																															
	ALCOR-FE v2	8																				l											
	ADAPTER v2	9																				l											
	MasterLogic v2		8																			l											
	ALCOR v3					0																l											
front-end	ALCOR v64							75														l											
	FEB v64							8														l											
	packaging							100														l											
	ALCOR VF										85											l											
	FEB vF											10										l											
	ALCOR engineering prod														250							l											
	FEB prod	_													250				250														
readout	KC705																					l											
	RDO v2							20														l											
	breakout boards v2							5														l											
	VC709							8																									
	felix									30																							
	RDO vF											20																					
	RDO prod														250				250	V 100 00 00 00 00 00 00 00 00 00 00 00 00													
TOTAL			9	5			25	51			15	55			110	0			10	000													

link to GoogleSheet

## Test beam goals – very aggressive schedule

- test prototype with SiPM and ALCOR-v2 [Autumn 2023, Autumn 2024]
  - PDU version 2
    - ALCOR-32 channels
    - no FEBs
    - no RDO
- test prototype RDO [Autumn 2024]
  - o PDU version 2
    - ALCOR-32 channels
    - no FEBs
    - prototype RDO
- test final layout [Spring 2025]
  - PDU version 3 (prototype)
    - ALCOR-64 channels (BGA)
    - FEBs (BGA)
    - prototype RDO
- final test before construction tenders [Autumn 2025]
  - PDU version 3 (final)
    - ALCOR-64 channels (BGA)
    - FEBs (BGA)
    - RDO



## Things to remember

- ALCOR radiation tests [ALCOR-v2, spring 2024]
  - test SEU rate and latch-ups
  - measure cross-sections, we will then need to scale with fluxes in experiment
- add redundancies to ALCOR [ALCOR-v3 / -64, autumn 2024]
  - and test again with radiation
- final ALCOR tuning after sensors selection [2025]
  - and signal shaping inside ALCOR accordingly