

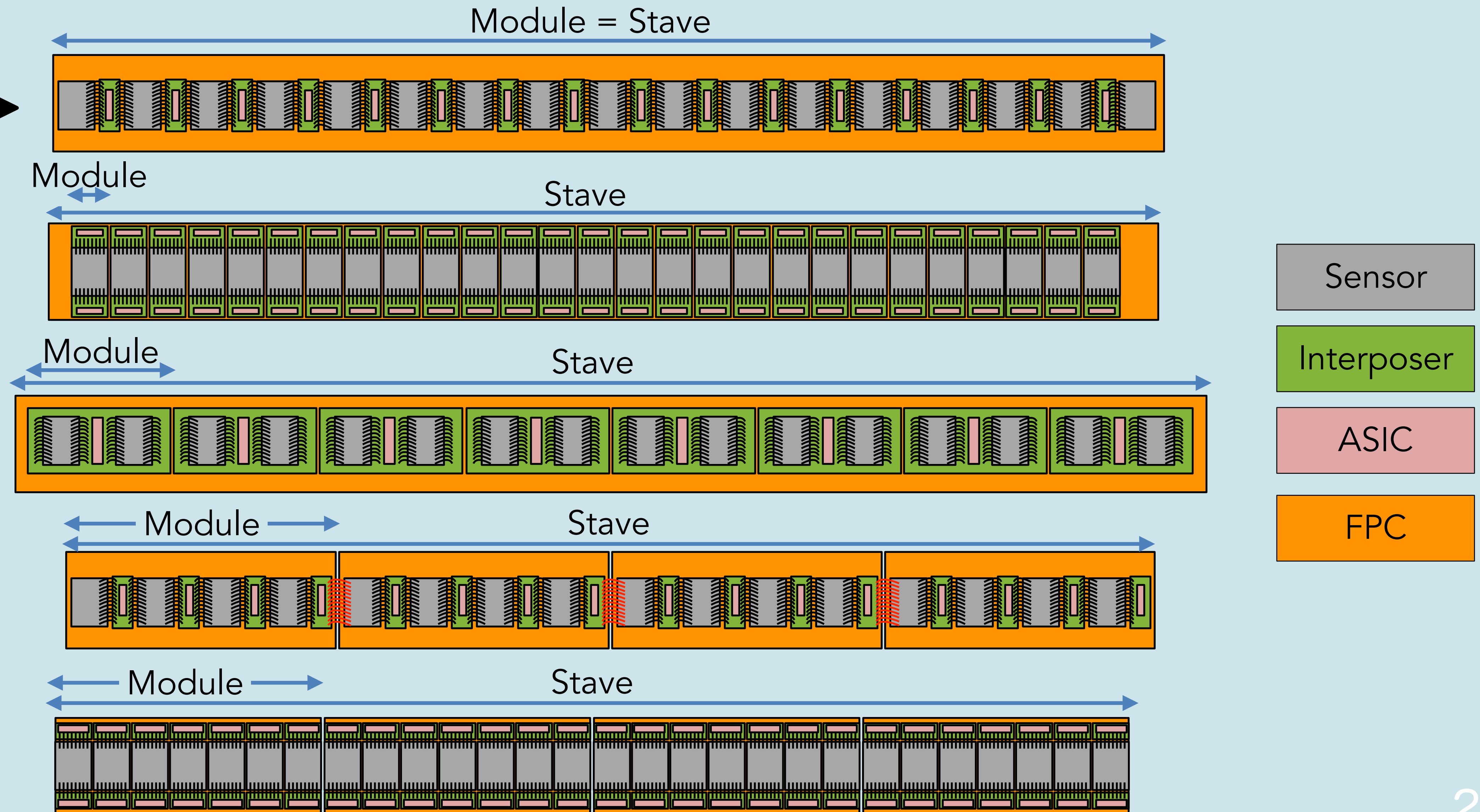
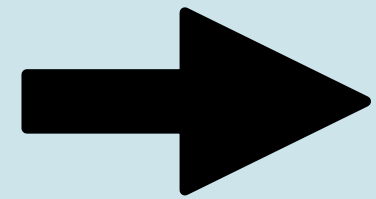
# BTOF

# To move forward

*Satoshi Yano (Hiroshima University)*

# Barrel TOF design ideas

Baseline  
Design



- 

CD2



Install to ePIC



CD3



Early-CD4

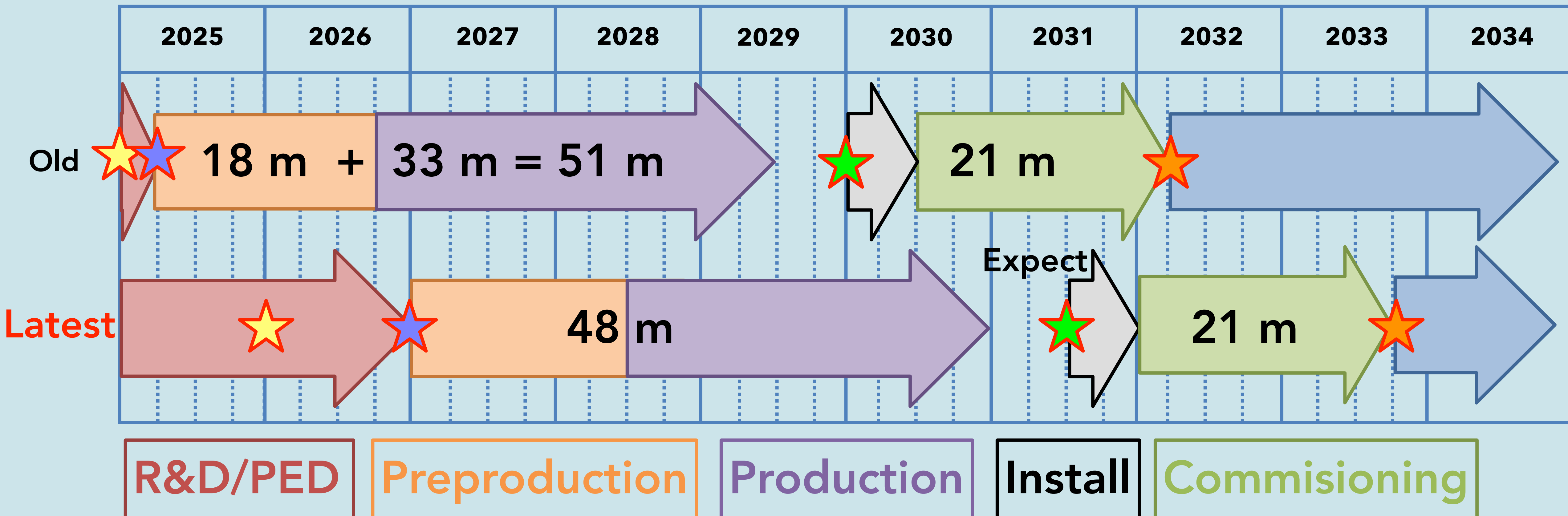
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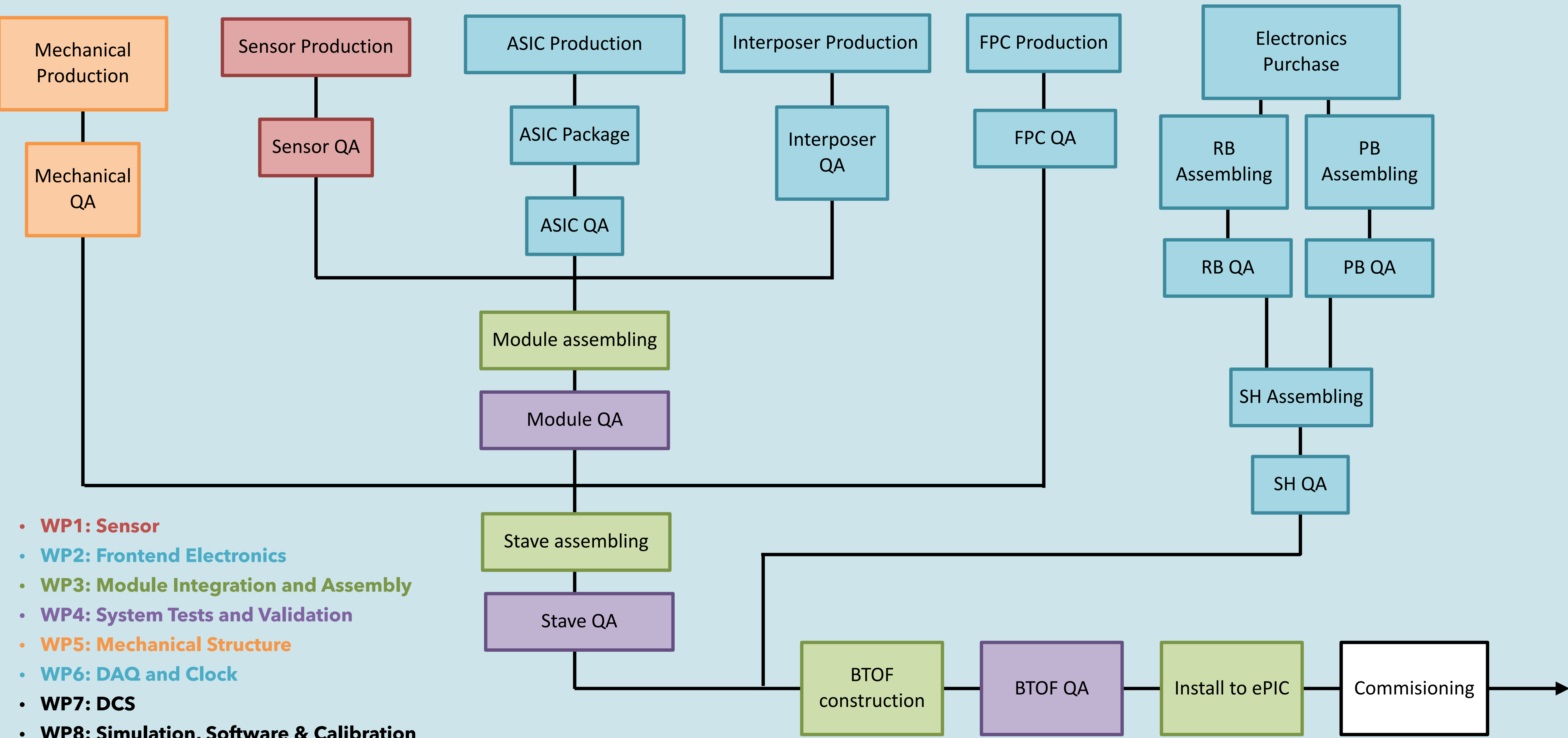
EIC Critical Decision Plan (Old)

CD-0/Site Selection	December 2019
CD-1	June 2021
CD-3A	Jan 2024
CD-3B	Jan 2025
CD-2	Jan 2025
CD-3	Apr 2025
Early CD-4	Apr 2032
CD-4	Apr 2034

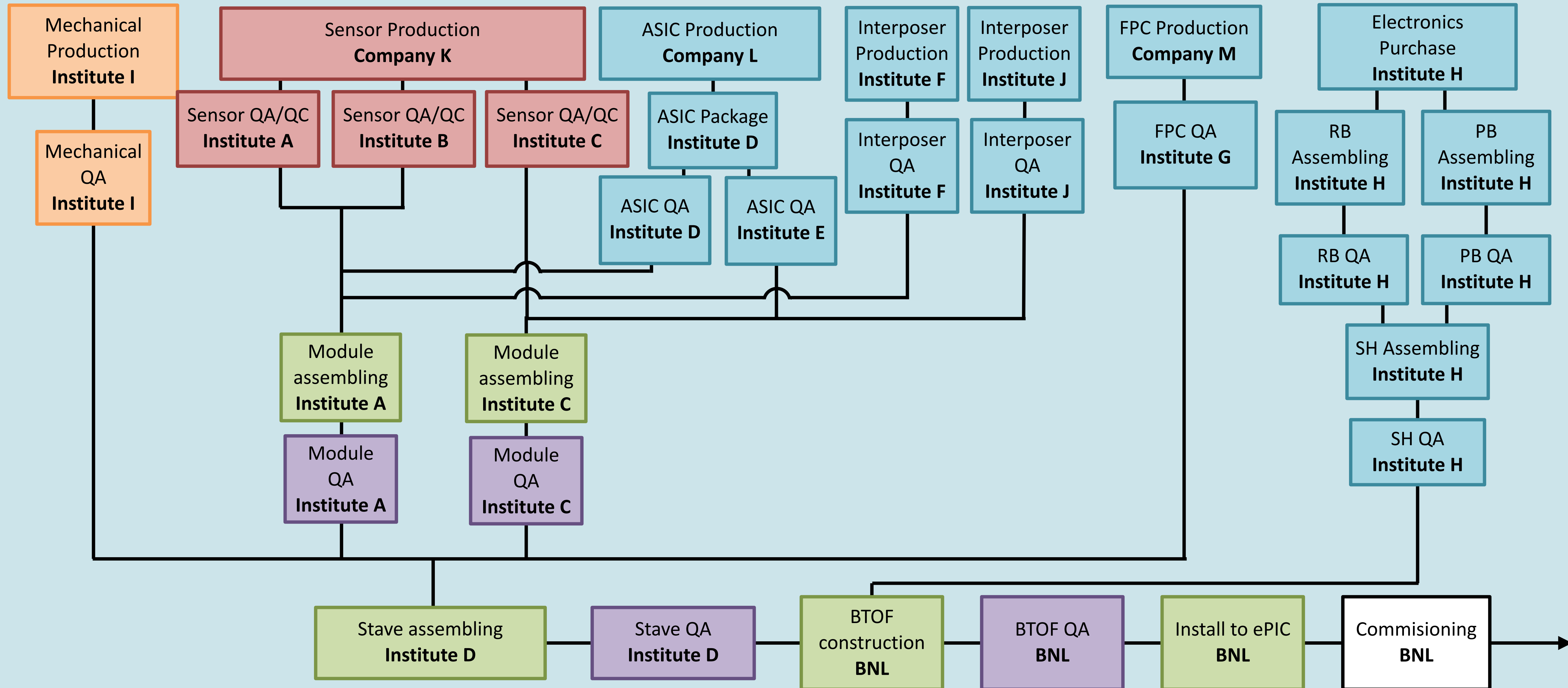
EIC Critical Decision Plan (Latest)

CD-0/Site Selection	December 2019
CD-1	June 2021
CD-3A	March 2024
CD-3B	January 2025
CD-2/3C	Q2 FY26
CD-3	Q2 FY27
Early CD-4	Q1 FY34
CD-4	Q4 FY35





# In the near future...



Task	Subtask	Institute	Person
Sensor	R&D		
	QA		
ASIC	R&D		
	Packaging		
	QA		
Interposer	R&D		
	QA		
FPC	R&D		
	QA		
PB	R&D		
	Assembling		
	QA		
RB	R&D		
	Assembling		
	QA		
SH	R&D		
	Assembling		
	QA		
Mechanical	R&D		
	QA		
Module	R&D		
	Assembling		
	QA		
Stave	R&D		
	Assembling		
	QA		

- In the near future, we would like to determine in more detail what each task entails and who will be responsible for and work on each task
- The left table is the starting point. Let's build each task in detail by the dedicated WP
- By creating this table, it becomes clear what is being done, where, and by whom, so that future personnel and budget allocations can be determined efficiently and without waste

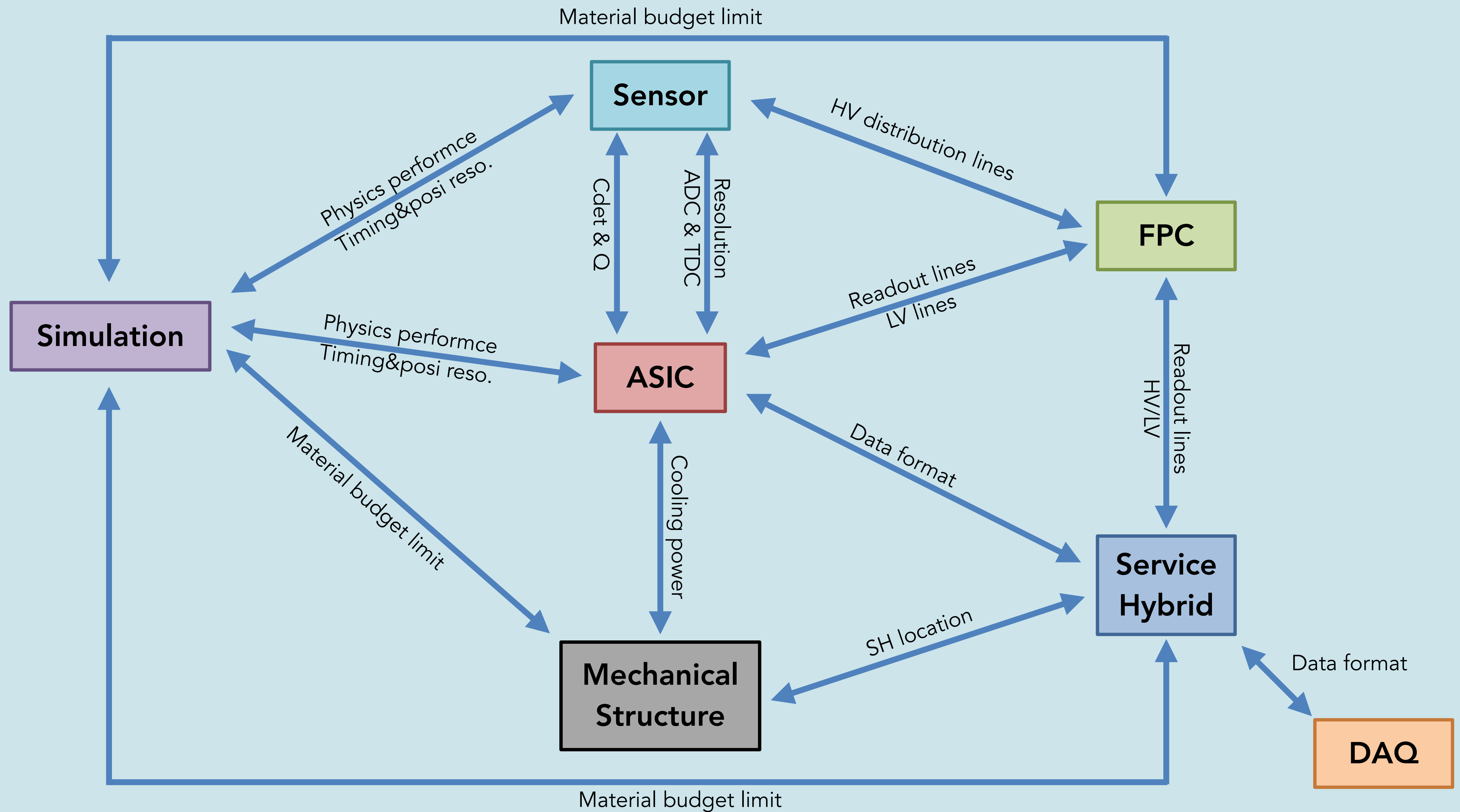


# Preparation of purchasing the "baseline" sensor

- We are preparing to purchase some amount of "baseline" sensors from HPK
  - $64 \times 2 = 128$  ch,  $10 \times 0.5$  mm<sup>2</sup> readout pads, 50μm thickness
- The sensors will be share among us to facilitate developments, e.g. electronics, assembling procedure e.t.c.
- HPK proposed to produce 30μm thickness sensors instead of 50μm
  - They are worried about the yield of 50μm
- **We would like to know how many sensors do we need? Is 30μm thickness sensor fine?**

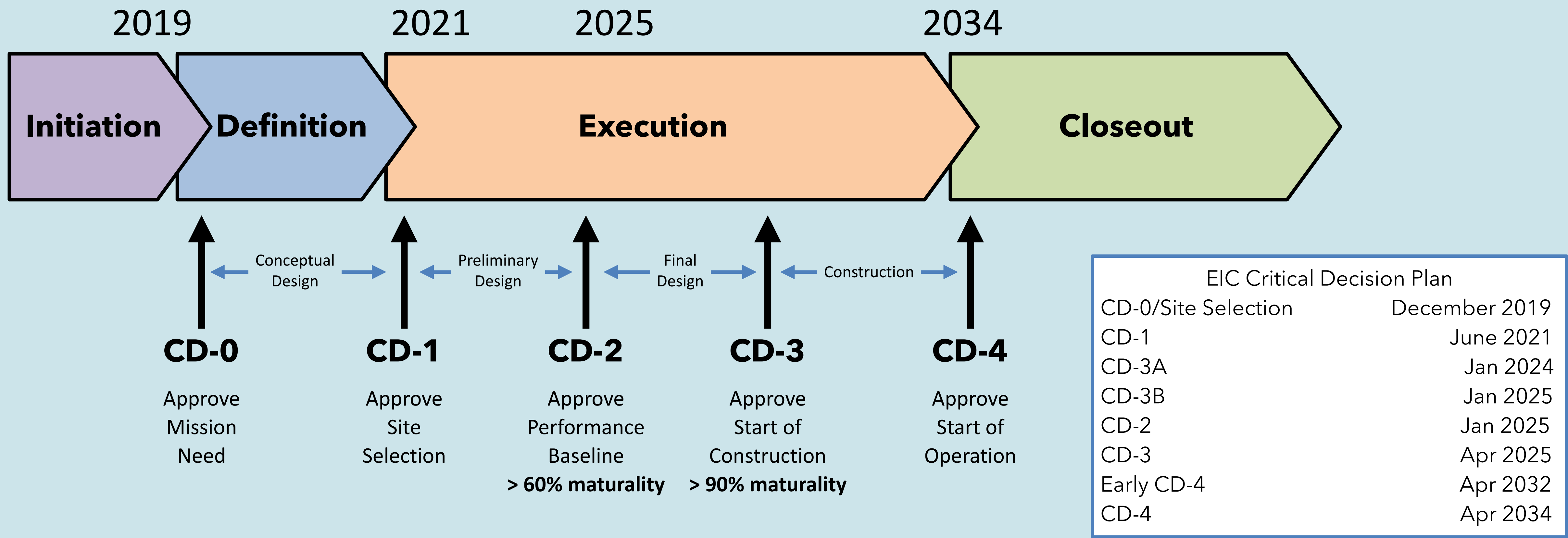
# Backup





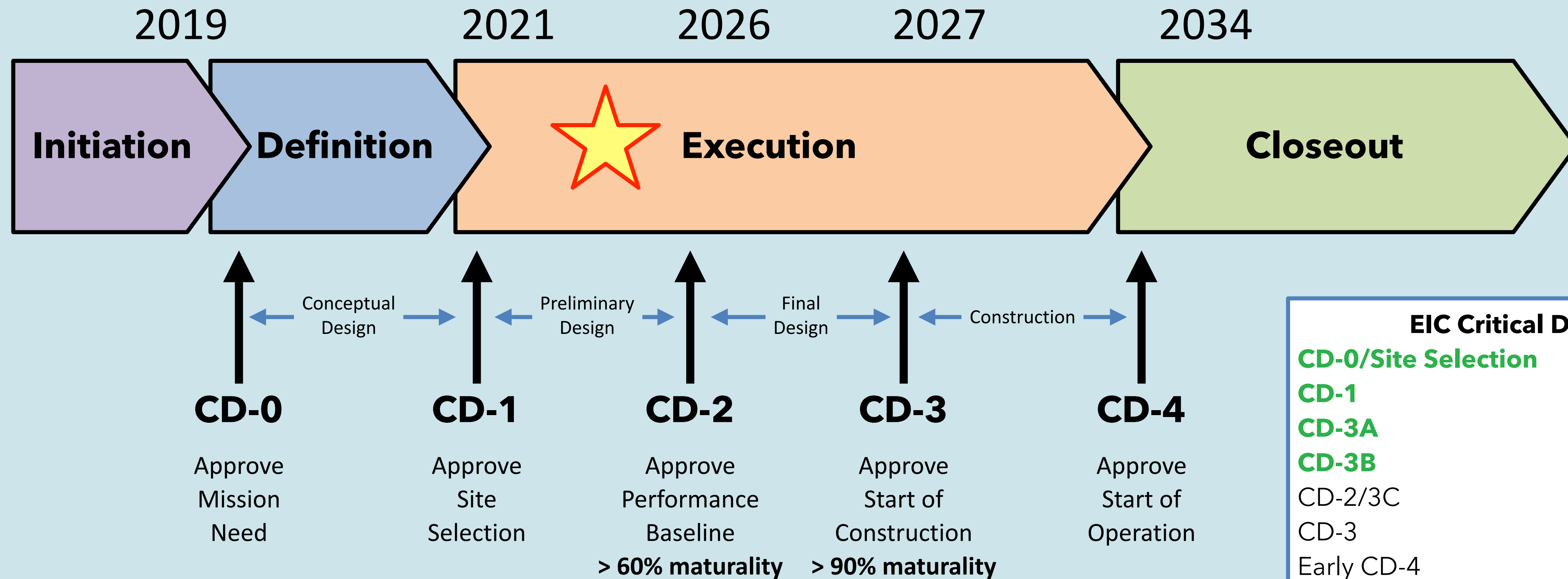
# ePIC and EIC schedule (OLD@March 2023)

## EIC Critical Decisions Status and Plans



# ePIC and EIC schedule (best guess)

## EIC Critical Decisions Status and Plans



### EIC Critical Decision Plan

<b>CD-0/Site Selection</b>	<b>December 2019</b>
<b>CD-1</b>	<b>June 2021</b>
<b>CD-3A</b>	<b>March 2024</b>
<b>CD-3B</b>	<b>January 2025</b>
CD-2/3C	Q2 FY26
CD-3	Q2 FY27
Early CD-4	Q1 FY34
CD-4	Q4 FY35

# TOF WPs

- Sensor: Simone Mazza (UCSC), Satoshi Yano (HU)
- Frontend Electronics: Wei Li (Rice Univ.)
- Module Integration and Assembly: Mathieu Benoit (ORNL)
- System Tests and Validation: Takashi Hachiya (NWU), Priswish Tribedy (BNL)
- Mechanical Structure: Andy Jung (PU), Yi Yang (NCKU)
- DAQ and Clock: Tonko Ljubicic (RU)
- DCS: Frank Geurts (RU)
- Simulation, Software & Calibration: Kentaro Kawade (SU), Tommy Tsang (KU)