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# 2.1 Hot Cell Project Roadmap

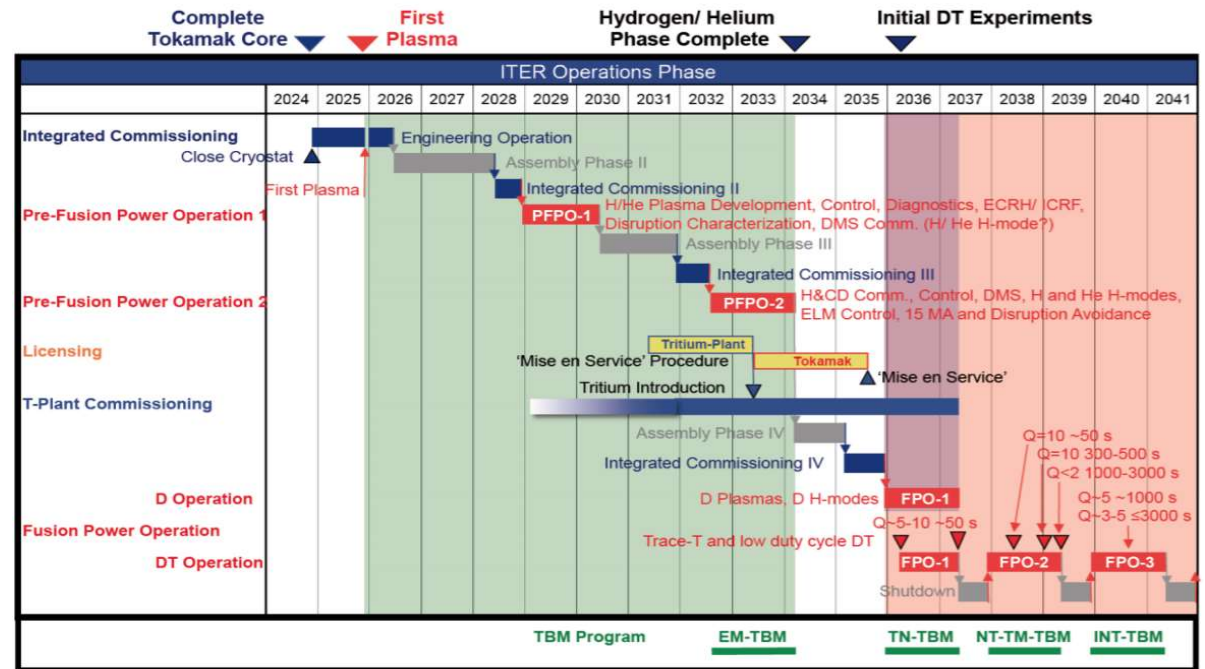
## Project Integrator Information Day

Magnus Gohran  
Project Leader

*Disclaimer: No information provided in the current slides is binding.  
The views and opinions expressed herein do not necessarily reflect those of the ITER Organization*

# ITER Schedule

- HCF (Hot Cell Facility) required functions first link into the PFPO-1, then FPO-1
- There is an ITER general re-baselining ongoing
- This will push PFPO-1 (Pre-Fusion Power Operation) to the right but not change the FPO-1 (Fusion Power Operation) date



# HCF Near Term Schedule

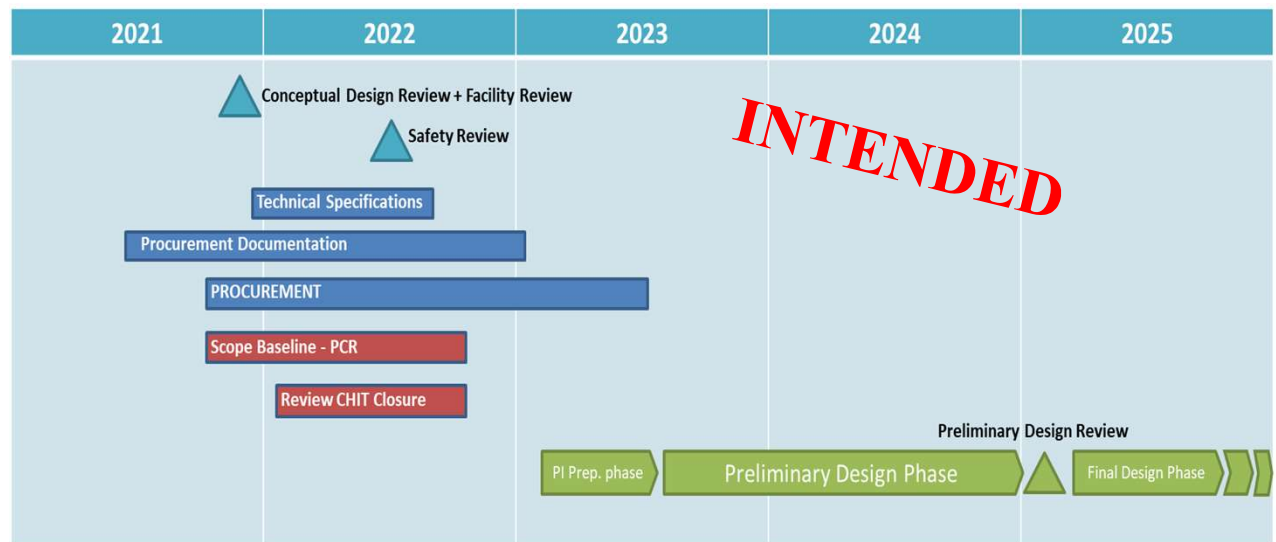
➤ This year (2022) will be devoted mainly to:

- Procurement,
- Safety Review,
- CDR CHIT closure
- Scope & Program Baseline

➤ In Q1 2023, the Project Integrator contract should be signed (see next slide)

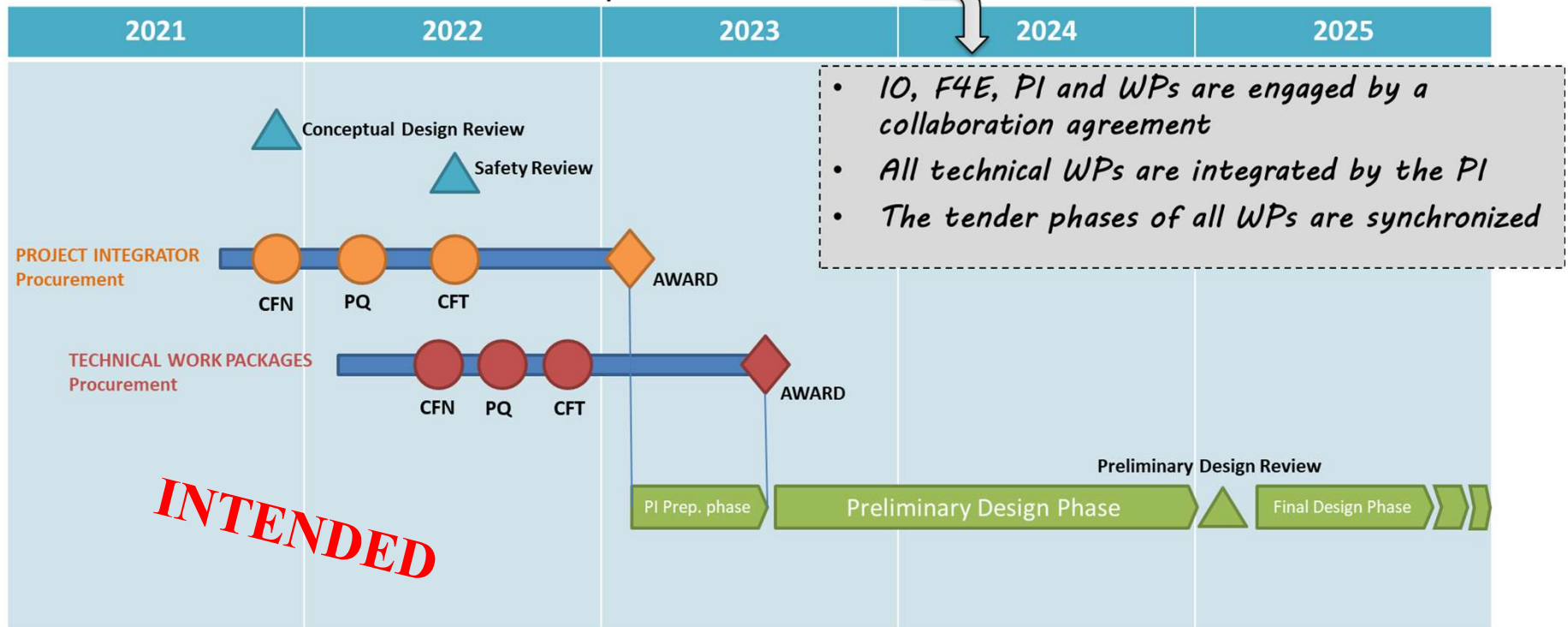
➤ 4-6 months later, the technical Work Packages should be on-board (see next slide)

➤ Preliminary Design will officially start upon technical Work Package contract signatures



# HCF Procurement Schedule

Overall schedule based on some specific fundamentals



Starting date

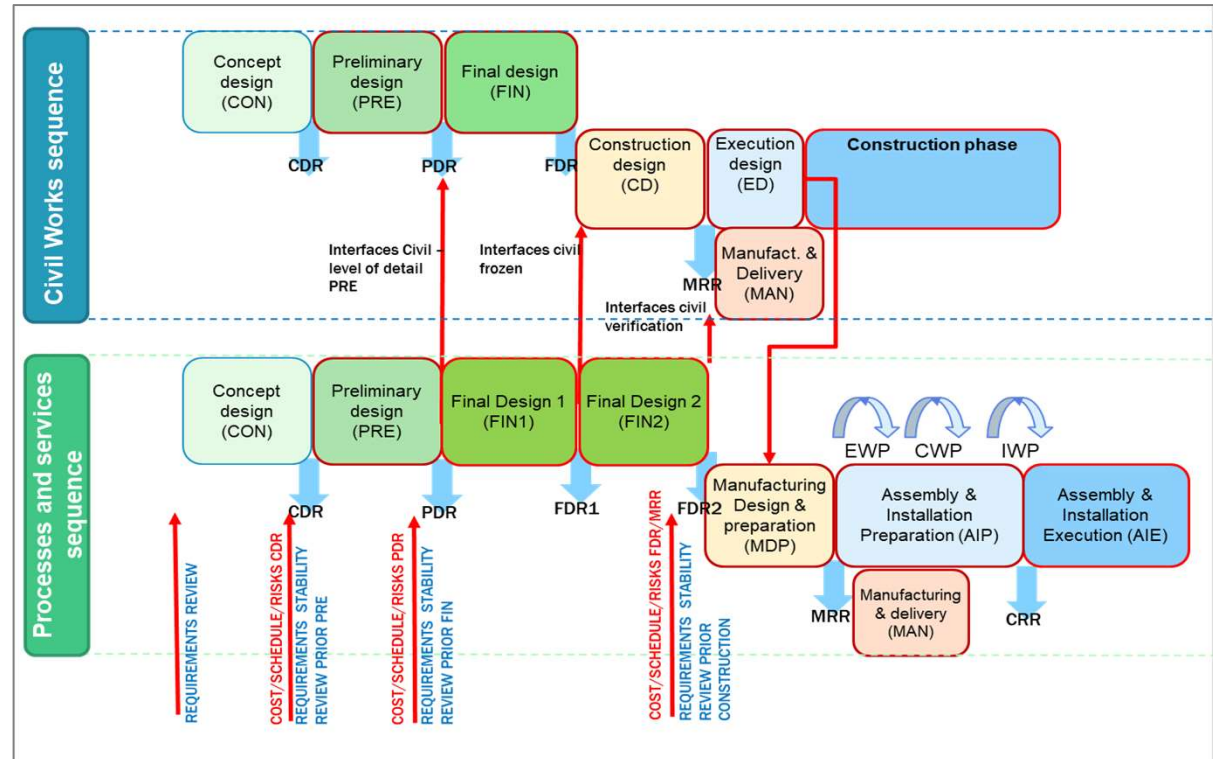
# HCF Near Term Major Intended Milestones

**INTENDED**

Milestone	Date	Description
CDR	Nov -21	Conceptual Design Review of PBS 62.21 and 62.24
FR	Dec -21	Facility Review of the HCF
SR	Sept -22	Safety Review of HCF PT10 and RPrS update Safety File
CS-PI	Feb-23	Contract Signature Project Integrator
CS-RH	Jun-23	Contract Signature Remote Handling
CS-RW	Jul-23	Contract Signature Radiological Waste
CS-BS	Jun-23	Contract Signature Building Systems
CS-CW	Jul-23	Contract Signature Civil Works
PD	Jul-23	Start of Preliminary Design
PDR	Q1-25	Preliminary Design Review

# HCF Design Process

- The engineering process is built without schedule gaps
- Civil Works (CW) hold the critical path from Construction Design
- Iterations (level of change) are needed based on the level of design detail
- FDR1 aims at freezing interfaces between CW, Process and Systems
- FDR2 to finish Process and Systems Final Design.



# Collaborative Strategy / Golden Rules

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1. **Integrated team** of the Clients participants, best able to deliver the required project outcomes defined by the IO as Nuclear Operator (outcome-based contract). Early & flexible involvement of these stakeholders and their supply chains.
2. **Culture, behaviours** and expressed commitment to collaboration, mutual support, openness, constructive challenge, innovation, efficiency, outperformance, no fault, no blame.
3. Visible commitment and unconditional support from the executive of each participant.
4. **Equitable shared pain/gain** based on collective success in achieving required project outcomes rather than individual success or individual scope.
5. **Shared ownership of risks and their management.**
6. **Equitable internal management and governance** where decisions are on a “best-for project” basis.
7. The Clients shall keep some **reserved matters** (e.g. decisions affecting the HCF functionality, and/or safety case, licensing arrangements, cost/schedule changes that are beyond the delegations provided to the collaboration board).
8. Alignment of participants’ objectives.
9. **Shared information and tools** which facilitate all of the above.
10. Contracts with obligations around **mutual relationship and collective performance** and which facilitate all of the above.
11. Payment mechanisms and **financial incentives** which are transparent and which facilitate all of the above, and support delivery of the HCF project outcome

# HCF Procurement Strategy

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**INTENDED**

- **Long term contracts covering the entire HCC project phases**
  - From preliminary design to commissioning
  - Step-by-step commitment with break points to update accurately to the upcoming phase
  - A strong yet realistic early involvement of the manufacturers/constructors within the design phases
- **Collaboration framework promoting best-for-project decisions**
  - Clients (IO as Design Authority and F4E) + Project Integrator + Technical Work Packages (Tier-1 contractors) committed within a common poly-party agreement
  - Collaboration features: open book commitment, collaborative decision making, shared risk and reward, aligned commercial incentives, etc.
- **A win-win incentive scheme**
  - Mainly reimbursable cost scheme type contacts
  - Common incentives on target prices



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## 2.2 Hot Cell Project Governance

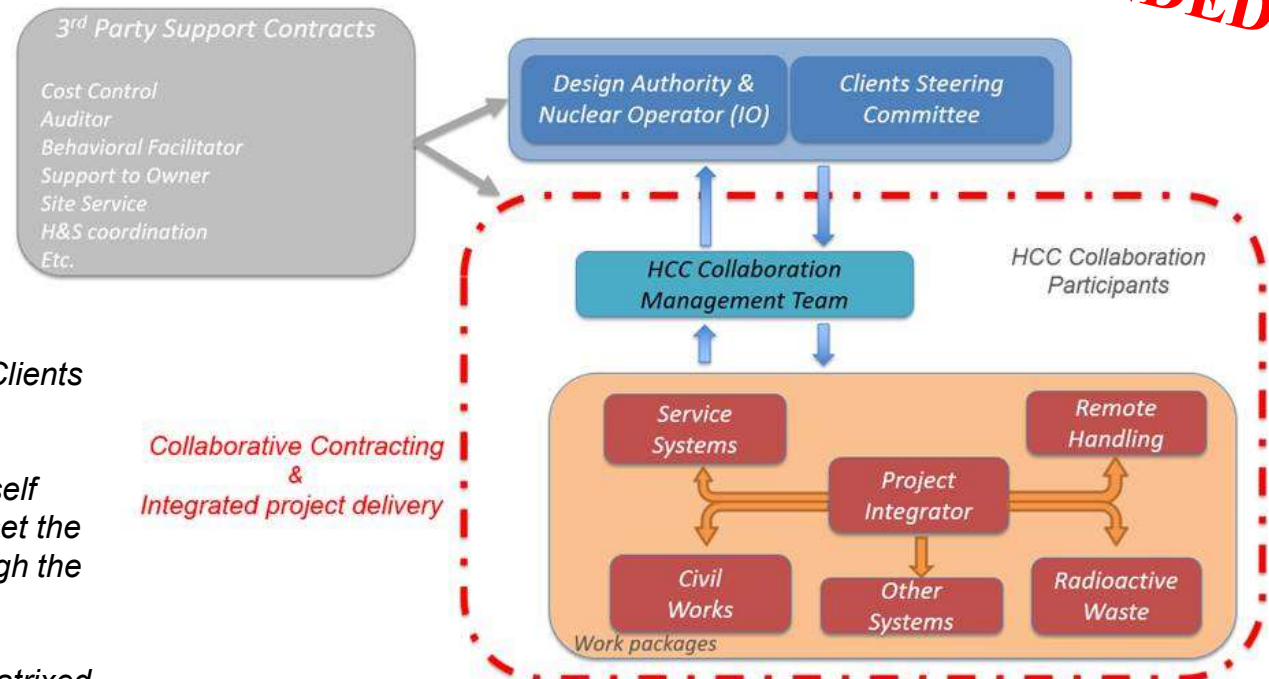
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# HCF Procurement Strategy

**INTENDED**



*This line describe the border between Clients and Participants.*

*The Collaboration will have certain self governance within the line, the clients set the input rules and guidelines for this through the Collaboration Agreement*

*The Clients will also be participants – matrixed into the collaboration organization*

# HCF Future Governance and Organization

- Project Execution Governance are not yet agreed
- IO is the Design Authority
- There is a separation between Project Execution and Project Control (green boundary)
- There should be a delegation of accountability to the project

