

THE ITER MISSION

Yutaka Kamada,
Deputy Director-General for Science & Technology
ITER Organization

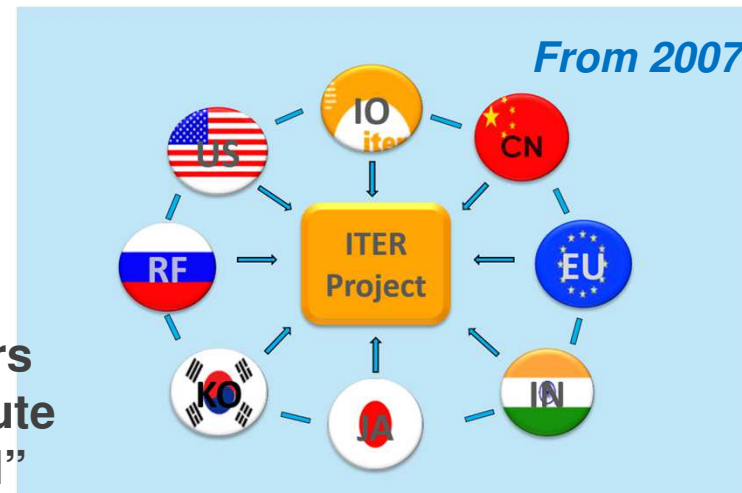
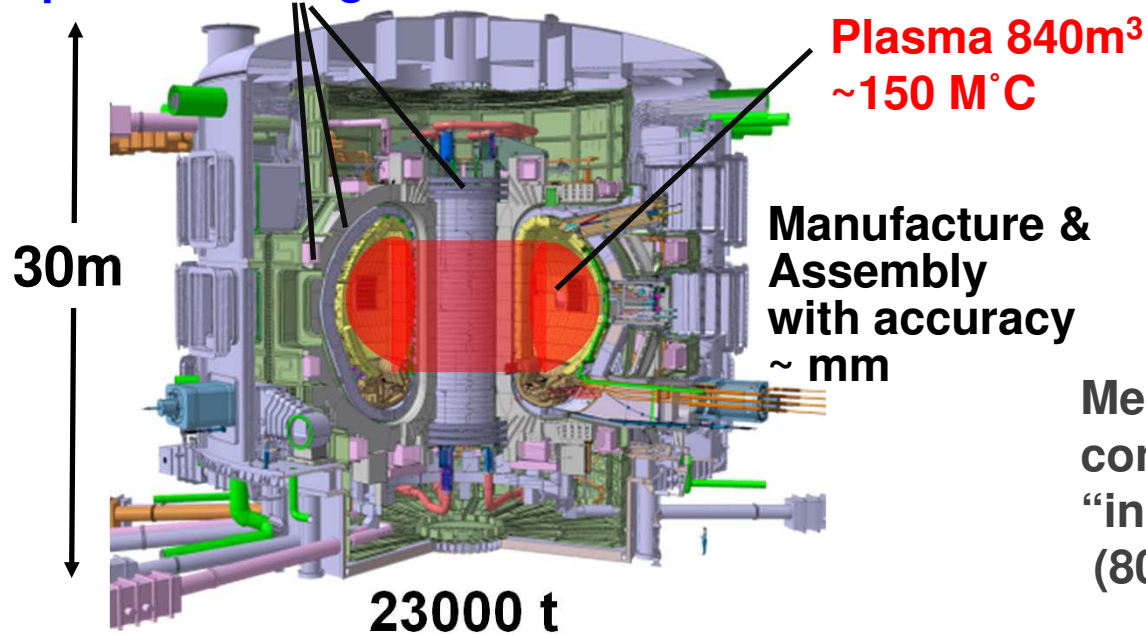
Demonstrate the scientific and technological feasibility of fusion power for peaceful purposes at the reactor-scale

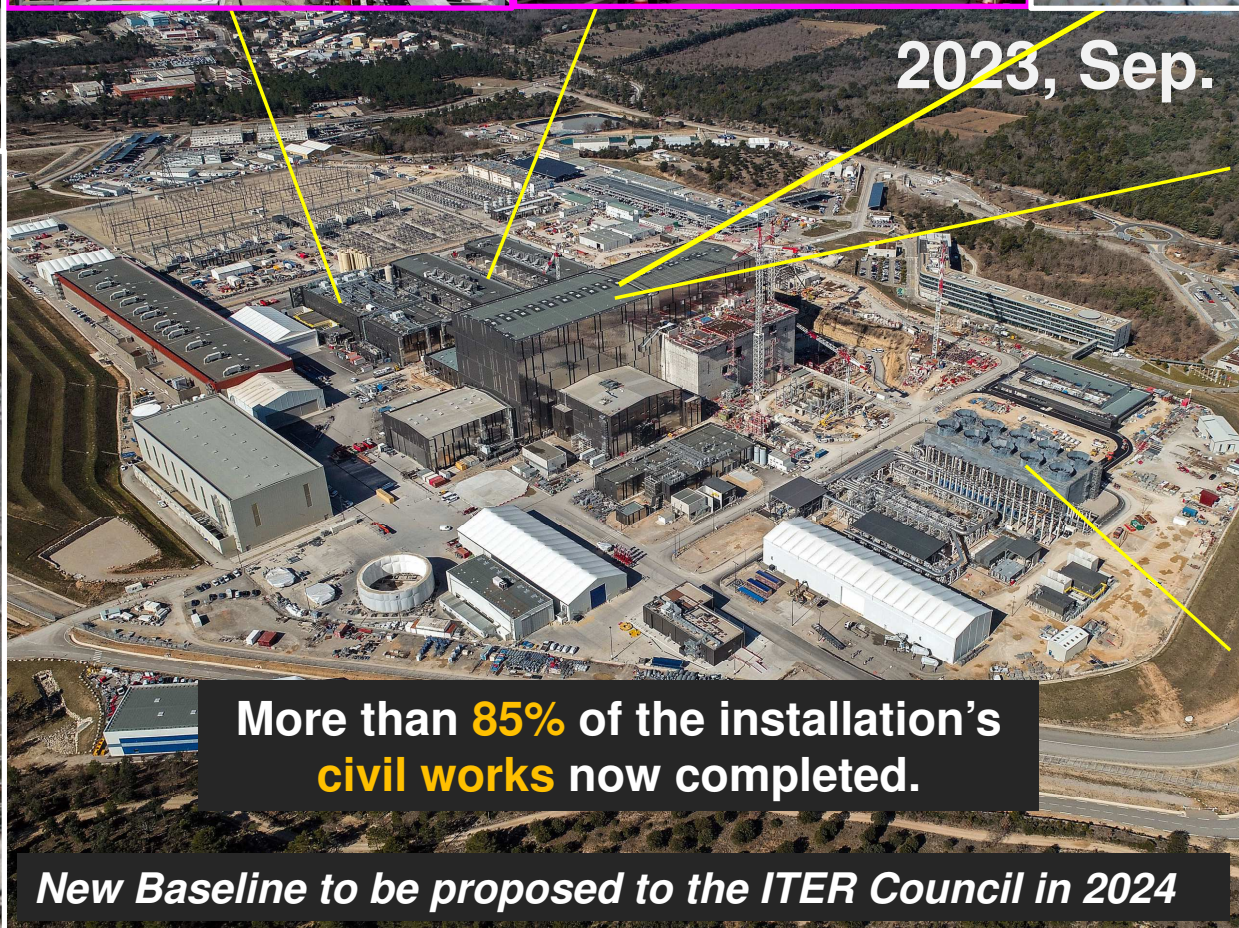
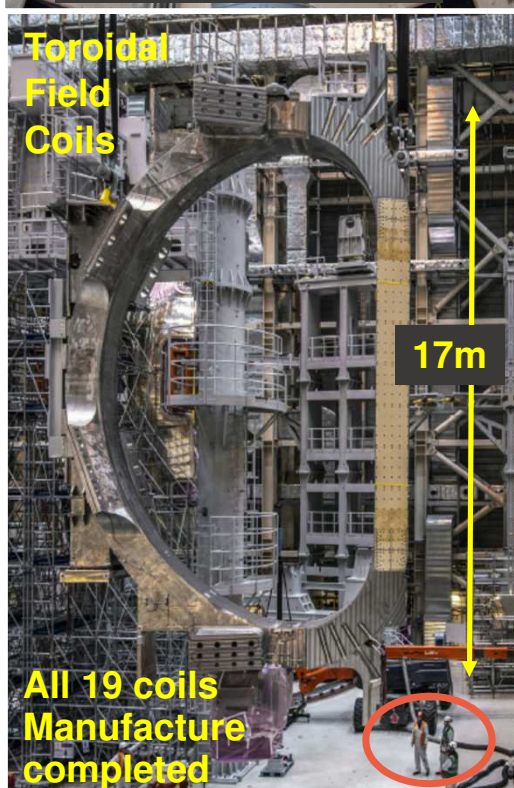
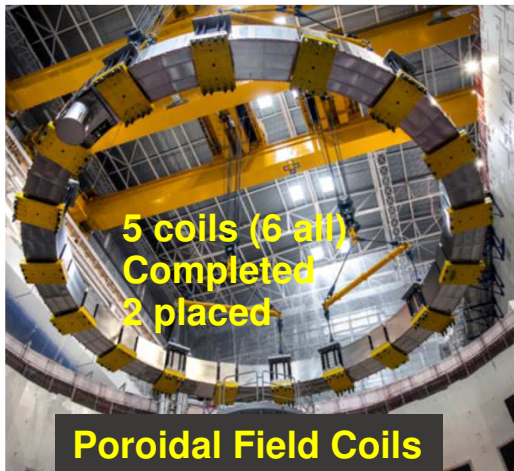
Controlled fusion plasma with DT Fusion gain : $Q = 10$, Fusion Power 500MW
Integrated Fusion Engineering System

First of a Kind fusion system

A platform open to the world for fusion science / technology / human resources

Superconducting coils ~4K

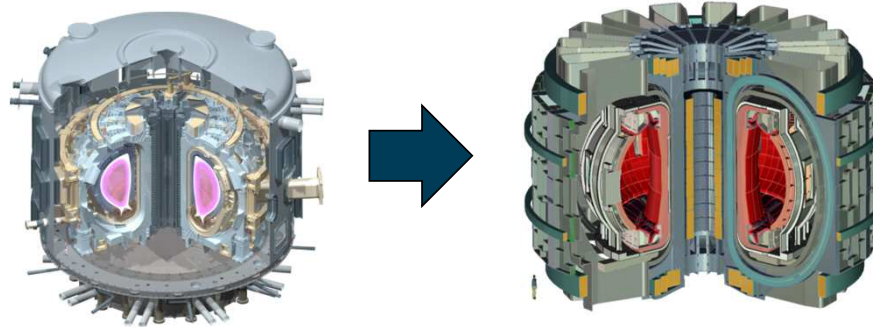




ITER: One Step to DEMO

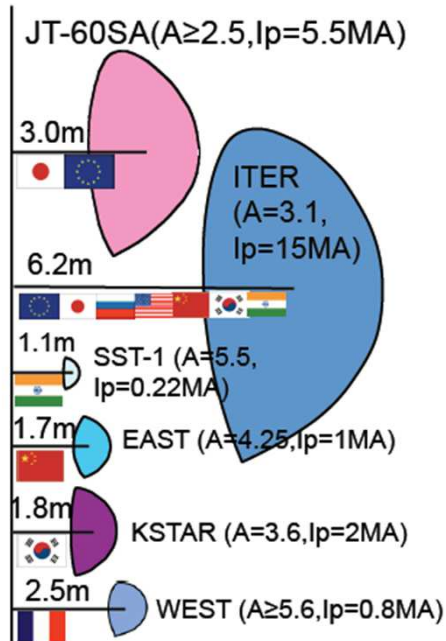
Science & Technology, Code & Standard, Experience, Human Resources

ITER
~ 500 MWth



DEMO
~2000MWth
(mid 2040s?)

Superconducting Tokamaks in the world



Collaboration with the WORLD Fusion Community

Fusion Sci. & Tech.	implemen- tation	Evaluation
Component Manufacture	⊙	⊙
Assembly & System Integration	⊙	⊙
Commissioning & Operation & Experiment	⊙	⊙
Fusion Code & Standard	⊙	⊙
Fusion Regulation	⊙	⊙