



# **ITER Status**

## **Fusion Energy Forum**

**Tokyo, 19 December, 2007**

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# Main Content

## **I. ITER Progresses since July 2007**

1. Overview of activities since July
2. Establishment of IO
3. Management Structure
4. Staff plan and status
5. Project Schedule
6. Design Review
7. Procurement Arrangement
8. Site Preparation

9. TBM
10. Licensing Milestones
11. International School
12. External Relations

## **II. Future prospects of ITER**

13. Major Milestones
14. Future Office Buildings
15. Future ITER Site
16. DEMO



# 1. Overview and Plan of Activities since July

September 5-6	First STAC Meeting
17-19	Design Review Interface Meeting
28	Application for the construction permit
October 24	Entry into force of ITER Agreements
29-30	Test Blanket Module Ad Hoc Group Meeting
November 5-8	STAC-2, MAC-2
7	Signing of Headquarters Agreement
27-28	The first ITER Council
December	Subject to Council decision, signature of Partnership Arrangement with Monaco
End 2007	Submission of Preliminary Safety Files (RPrS)



## 2. Establishment of ITER Organization

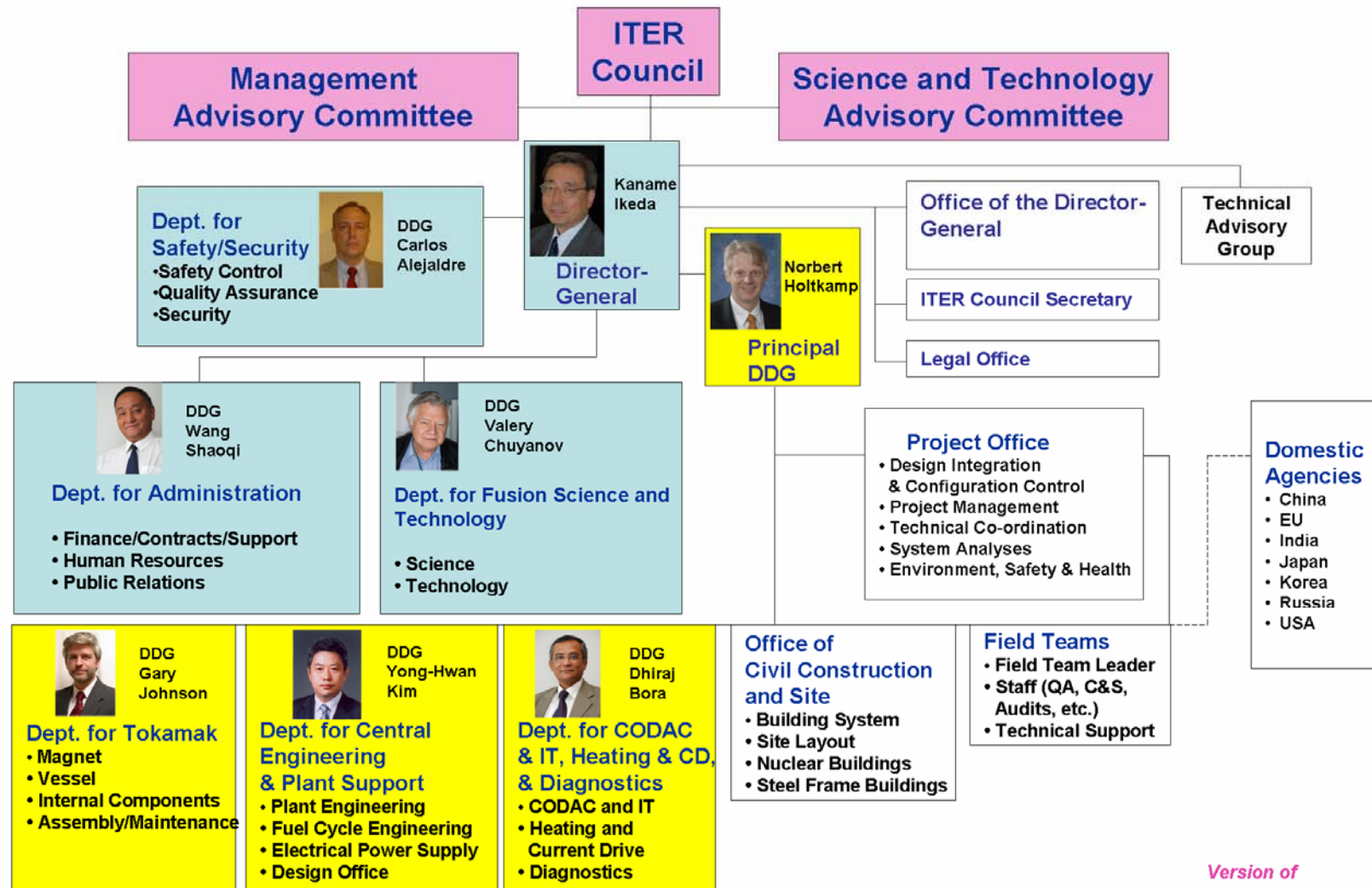
- On 24 October 2007, the ITER Organization was formally established



- On the 7 November 2007, the Headquarters Agreement between France and the ITER Organization was signed.



### 3. Management Structure of ITER Organization

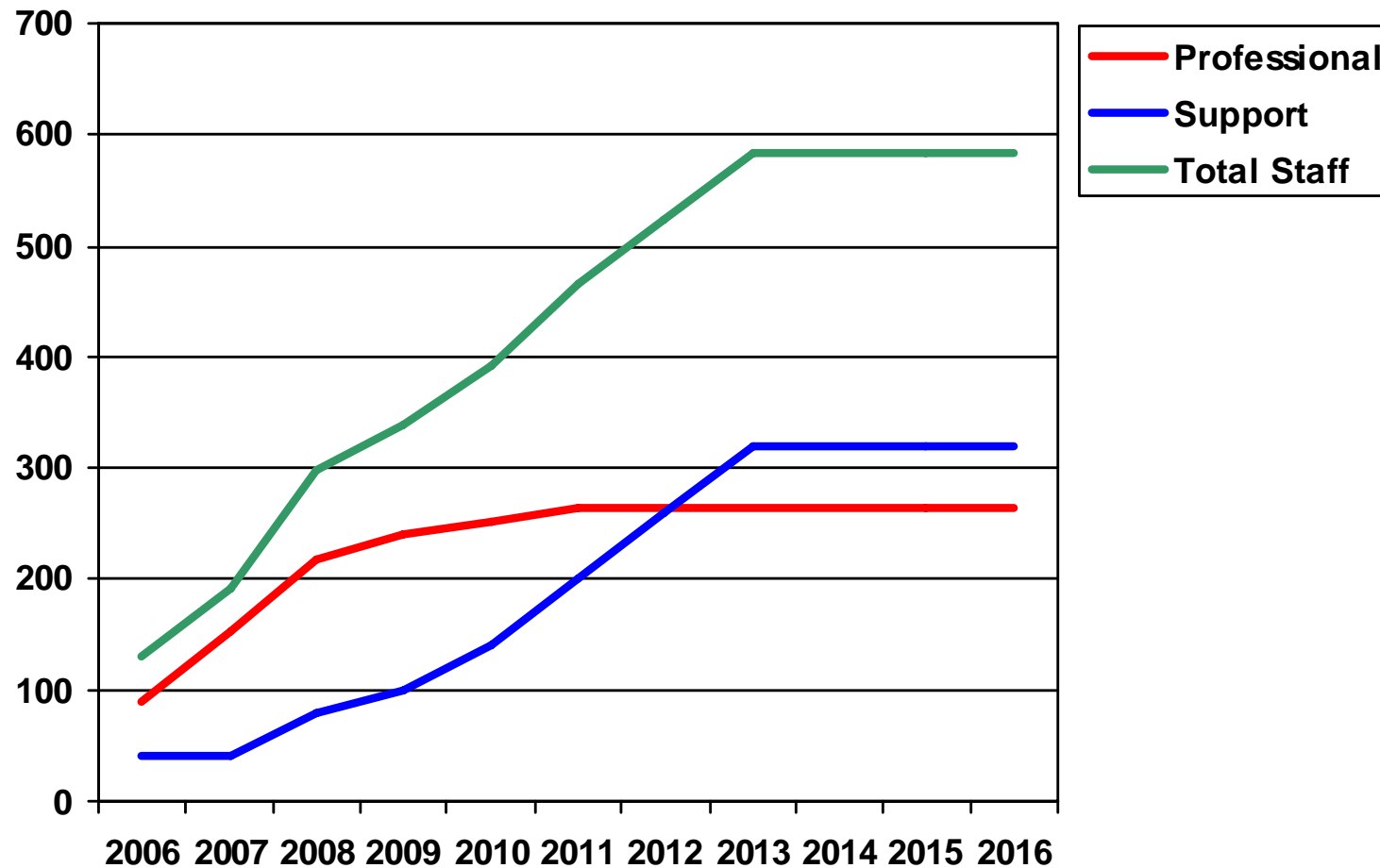


Version of  
November 21, 2007





## 4.1. Long-term staff plan

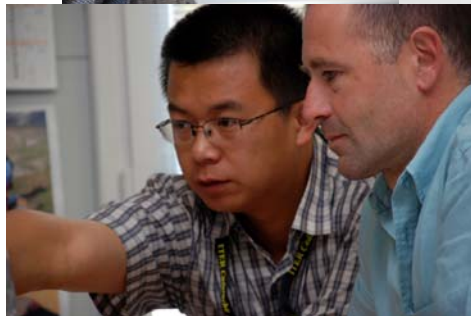


Worldwide, 3000 - 4000 people will be involved in the ITER project during the peak.

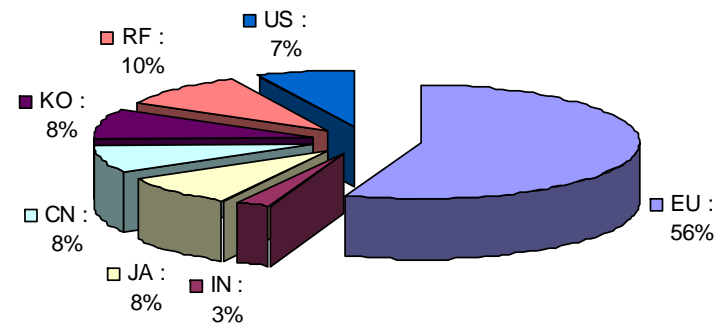


## 4.2. The ITER Team Status

- As of November 30, the IO has a total of 202 staff (159 professionals, 43 support staff) coming from 33 nations
- By spring 2008, a total of 302 are expected
- An International School was opened in September 2007



ITER Professional Staff by parties



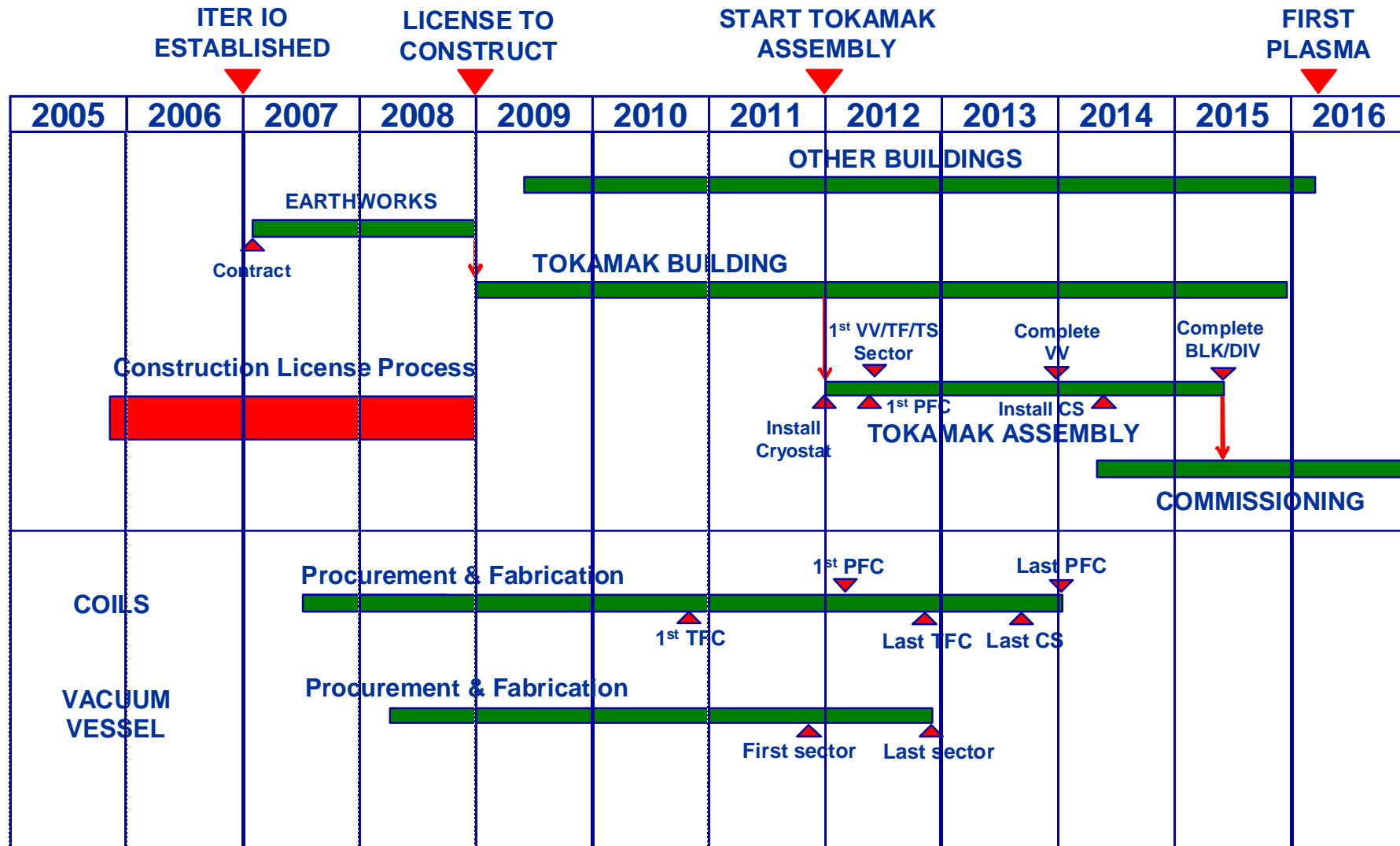
Status: 31 October 2007

Number of Professional Staff members excluding 5 Visiting Researchers (EU : 2, JA : 2, CN : 1)

EU : 85, IN : 4, JA : 13, CN : 12, KO : 13, RF : 15, US : 11 Total : 153



## 5. Project Schedule







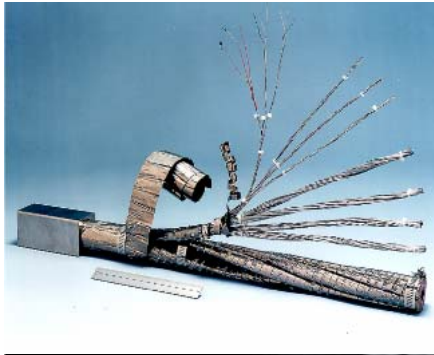
## **6. Design Review and Baseline Documentation**

- The Design Reviewed finished.
- A sound basis for the 2007 Baseline Design has been established.
- The Project Specification was provisionally approved by the first ITER Council.
- The ITER Project Plan and Resource Estimate including cost and schedule will be ready by June 2008.



## 7. Procurement Arrangement

First Procurement Arrangement signed on 28 November 2007 between IO and Japan



400 tons of niobium3-tin ( $\text{Nb}_3\text{Sn}$ ) conductor cables for the TF Coils

“One of the largest superconducting cable procurements in history.”



## **8. Site Preparation and Application for the Construction Permit**

- **Site Preparation**
  - Platform levelling work will start by March 2008 and last 9 months.
  - The architectural design of the Annex Buildings (office buildings) has been selected.
- **Construction Permit**
  - Application for the Construction Permit was submitted to St Paul lez Durance on 28 September
  - This permit enables the start of excavation works as early as mid 2008.



## 9. Test Blanket Module

- Test Blanket Module Ad Hoc Group Meeting was held, 29-30 October.
- Principles and modalities of the space and cost sharing were almost agreed
- TBM Ad Hoc Group will meet again in the end of March 2008 to achieve consensus.
- Proposal for the TBM program will be submitted to ITER Council in June 2008.



## 10. Next Licensing Milestones

- ***Licensing includes:***

- 1- **Safety review** by ASN based on the safety files including Preliminary Safety Report (RPrS)

- Review by safety experts, **Nov - Dec 2007**
    - Formal submission of RPrS, **end 2007**
    - Reviewed by ASN, IRSN, “Groupe Permanent” **during 2008**

- 2- **Public inquiry**

- Formal submission of files for Public Inquiry, **end 2007**
    - Public Inquiry, **mid-2008**

- 3- Start of the construction of nuclear related buildings **beginning of 2009**





## 11. International School (IS)

- The IS was opened in September 2007 at the Lycée des Iscles in Manosque with 89 students, 30 teachers and 3 administration staff.
- Currently 6 language sections opened: Japanese, German, English, Chinese, Italian, and Spanish; 50% of teaching is in French
- The first phase of the new school building is planned to be finished in 2009.
- The International Advisory Council for the International School (with experts from each Member) was established through its first meeting on 8 November 2007.



## 12. External Relations

- Cooperation with IAEA to be finalized.
- Cooperation with CERN approved by the first ITER Council.
- Partnership arrangement with the Principality of Monaco approved by the first ITER Council.
- Exploratory visit to Kazakhstan in mid October, 2007 with positive findings. The rules for accession of new member to be proposed.



## 13. Major Milestones

- ✓ **Design Review** leading to new ITER Baseline Design 2007 was finished in September 2007
- ✓ First ITER **Council Meeting** on 28 November 2007
- Formal submission of **Safety Review** end 2007 - Review during 2008
- **Public Inquiry** mid 2008
- Start of **Construction** of Nuclear Related Buildings beginning of 2009
- First Plasma in 2016



## 14. Office buildings--Now and Future



perspective générale sur le bâtiment 172







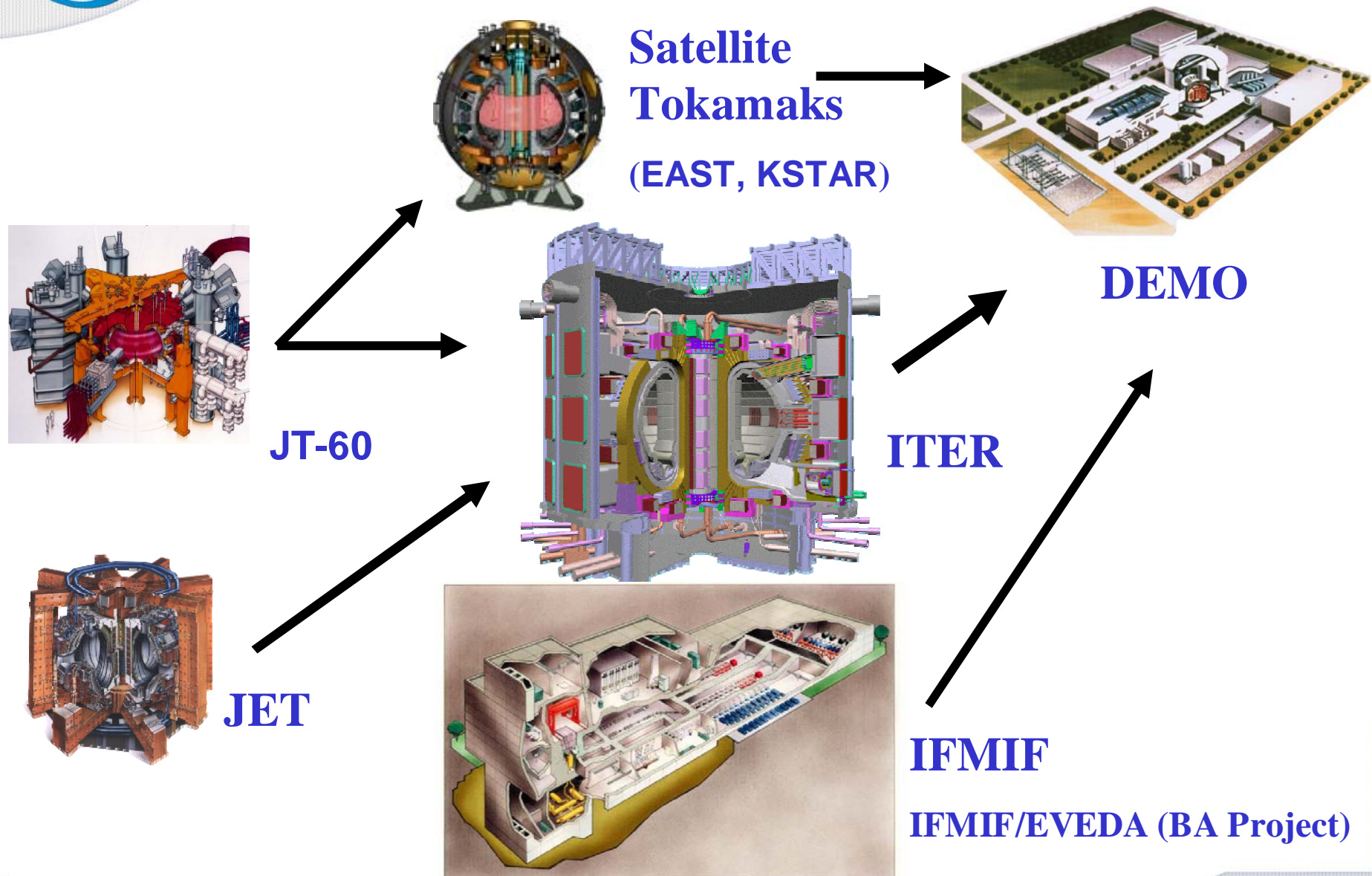
## 15. Future ITER Site after the Construction







## 16. ITER--DEMO: the next step towards fusion power





# Thank you!