

## Technical Session 1

# “Let’s Talk about Development Stories and Future Prospects Ten Years after Commencement of ITER and JT-60SA Projects ”

National Institutes for Quantum and Radiological Science and Technology

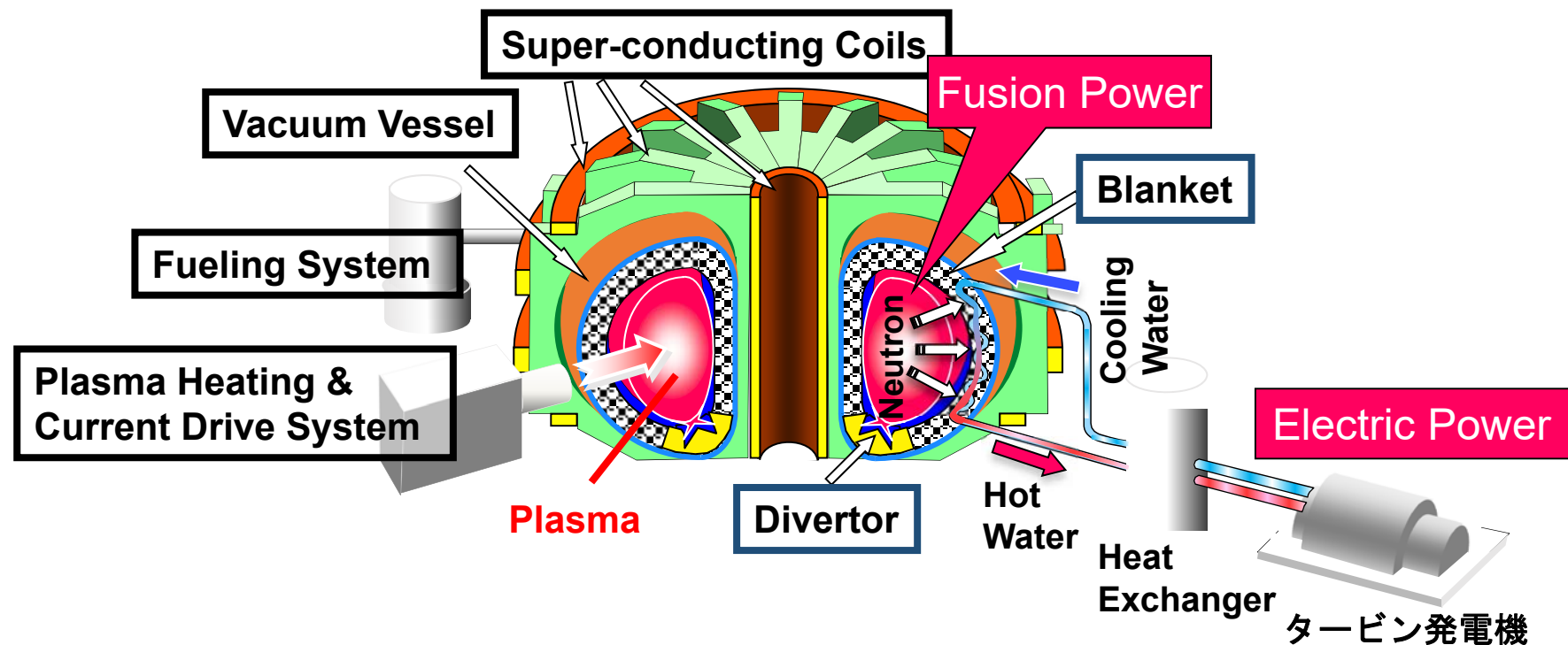
Yutaka Kamada



Fusion Energy Forum of Japan  
Symposium 2018 on the ITER/BA Activities

# Fusion Reactor Core :

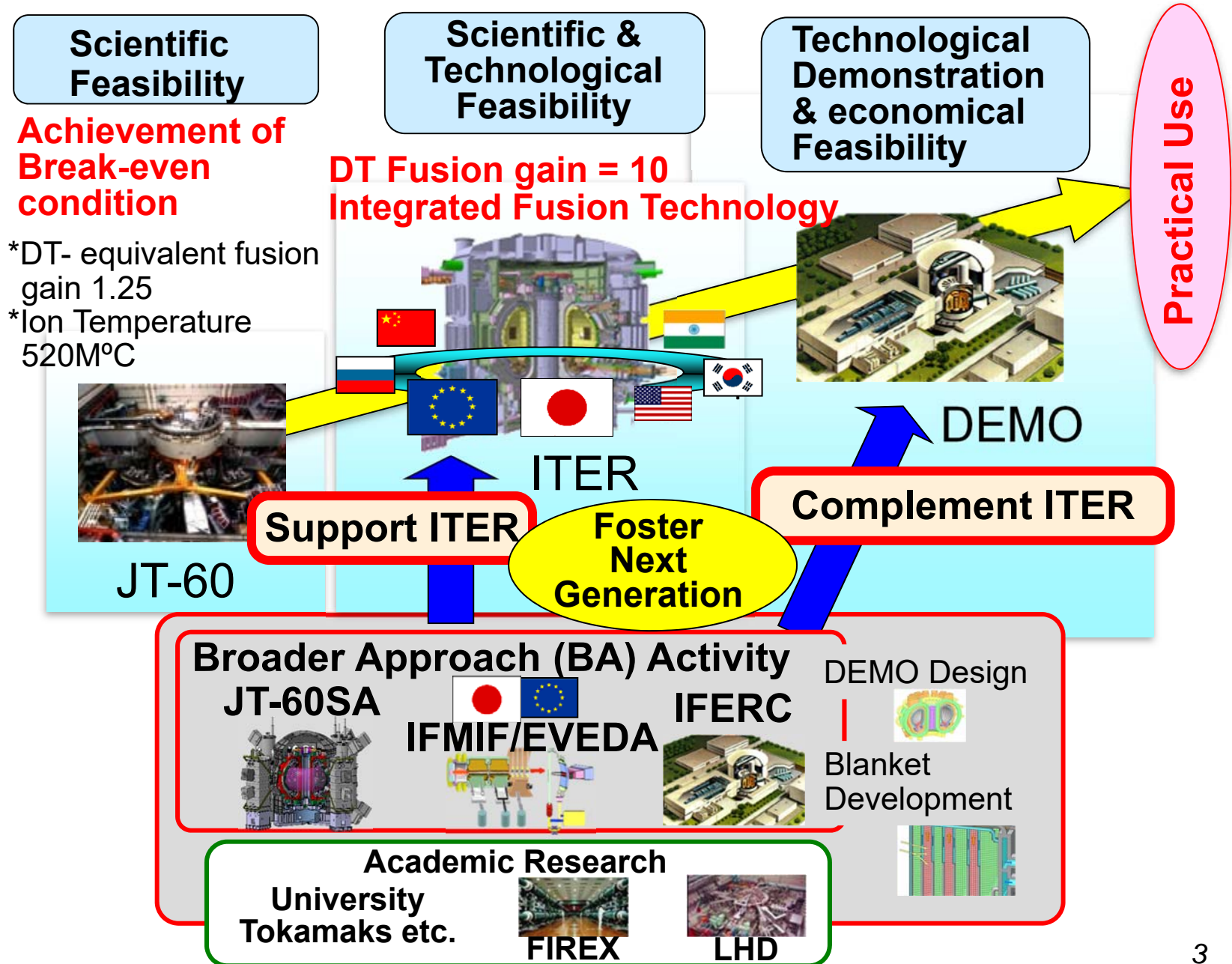
## A Dynamic System integrating 'Super, Ultra, Extreme, Large, Strong, High, Low, Micro' within 30m



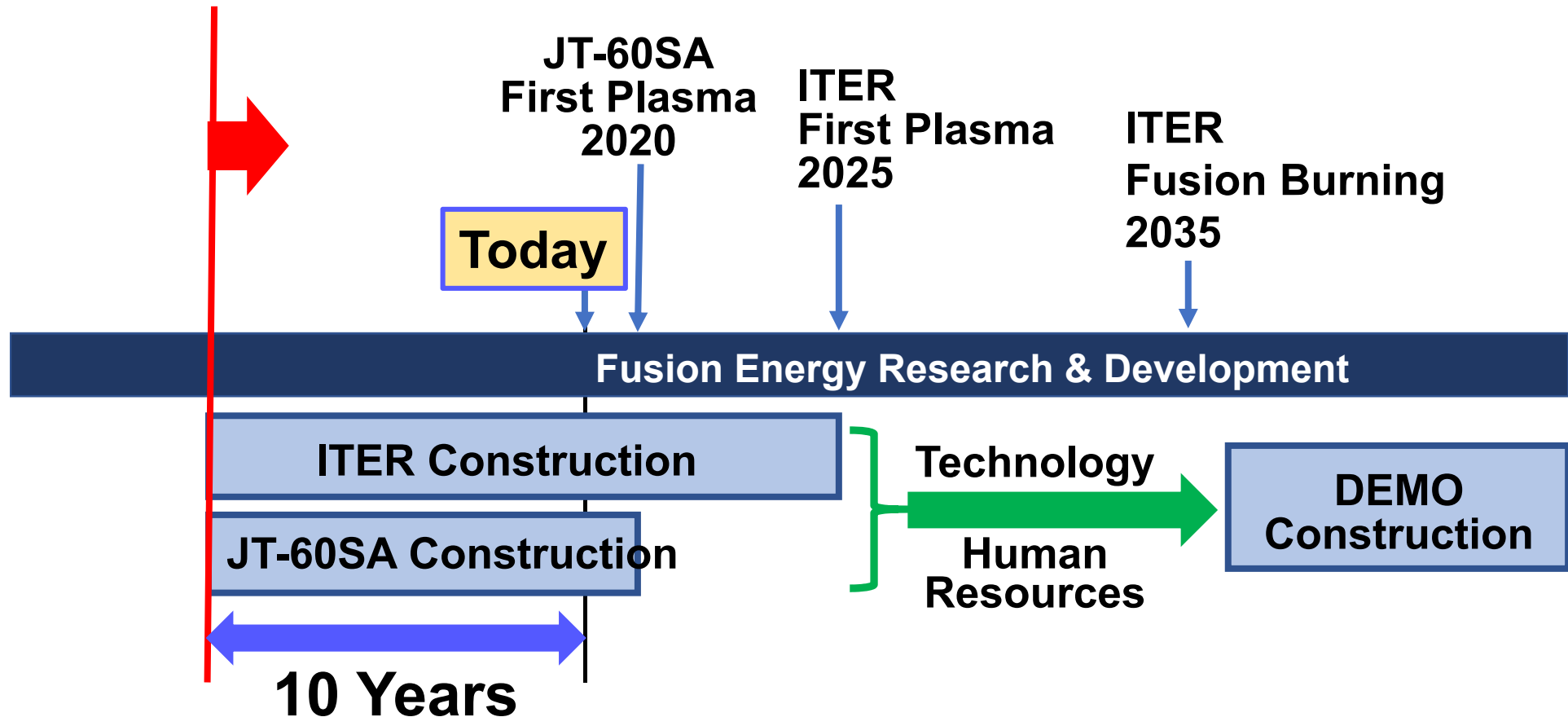


# Japanese Strategy of Fusion Energy Development

**Decision make to enter the DEMO Phase ~ 2035**



# Start of ITER & BA = New phase making our dream come true



*Let's Talk about  
Development Stories and  
Future Prospects*

**1. Technologies Which Have Realized Extremely High Dimensional Precision in ITER TF Coil Manufacturing, and the Future** *T. Hasunuma*



**2. Technical Challenges of Superconducting Wire and Magnet for ITER** *K. Saito*



**5. Fabrication Results Provide Progress in Large Scale Superconducting Magnets for Fusion Reactors** *T. Kim*



**4. Total Engineering Project "Assembly of JT-60SA", the Secret of Success and Technical Challenges** *A. Hayakawa*



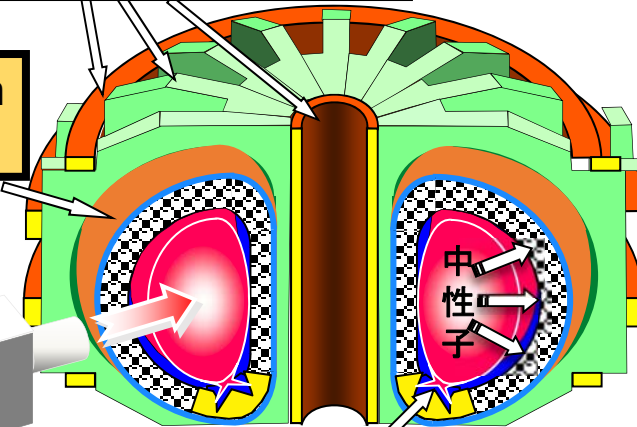
**Plasma Heating & Current Drive System**

**3. One-third Century Challenges on Ultra-High-Voltage Application - Progresses in Neutral Beam Injector Technology for Nuclear Fusion -** *H. Kawakami*



**Super-conducting Coils**

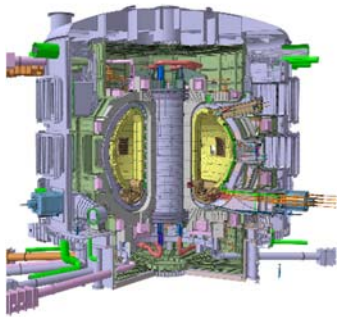
**Vacuum Vessel**



**Divertor**

**6. The Effort of MTC in Divertor Development and Prospect of Related Technology** *Y. Natsume*





**Please enjoy  
Development Stories  
and Future Prospects**

