



ECWC and Breakdown - Introduction

E. Belonohy

**EUROfusion EU Naka-site Coordination Team
WPSA Annual Planning VC Meeting**



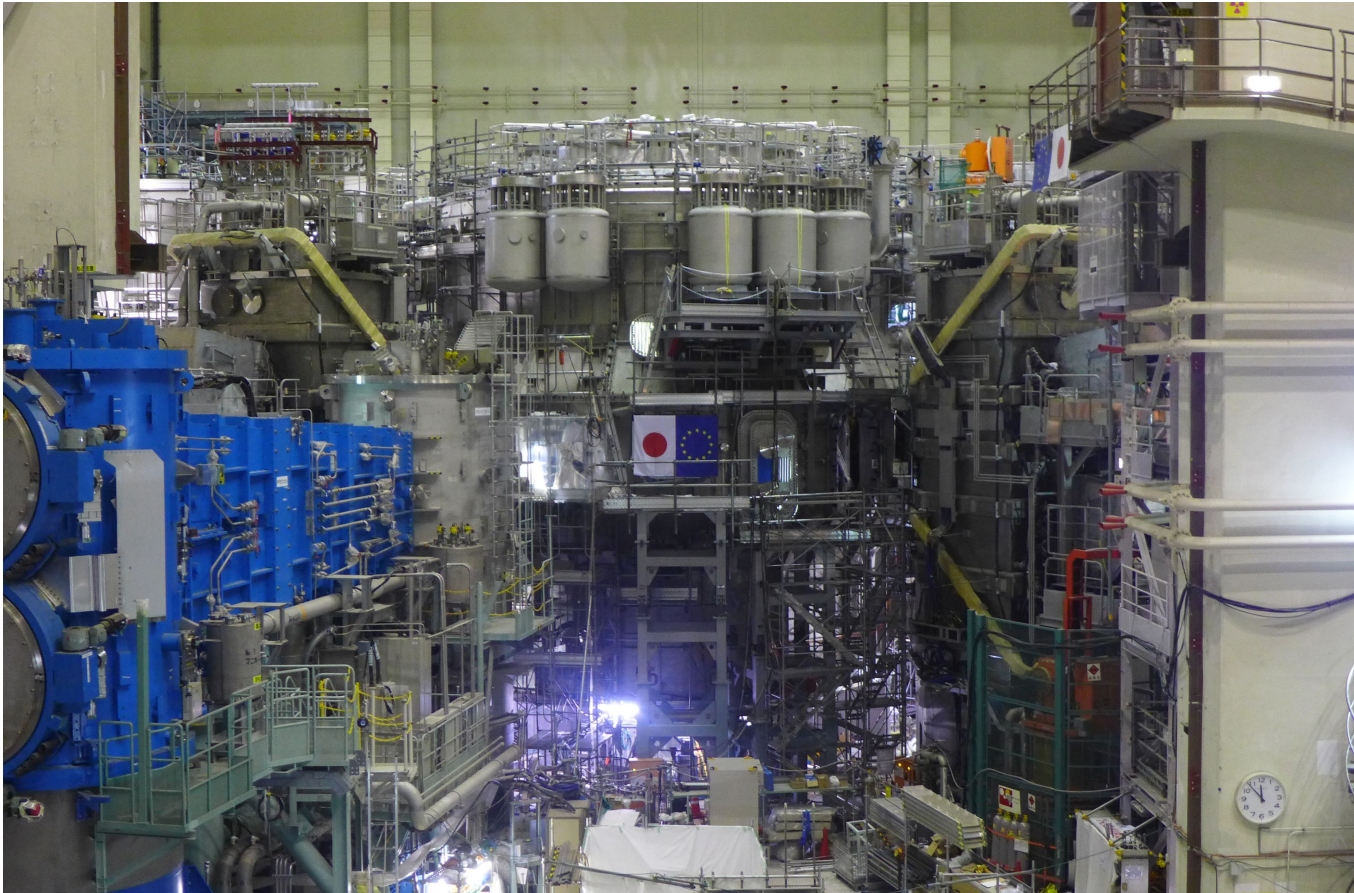
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Session Outline:

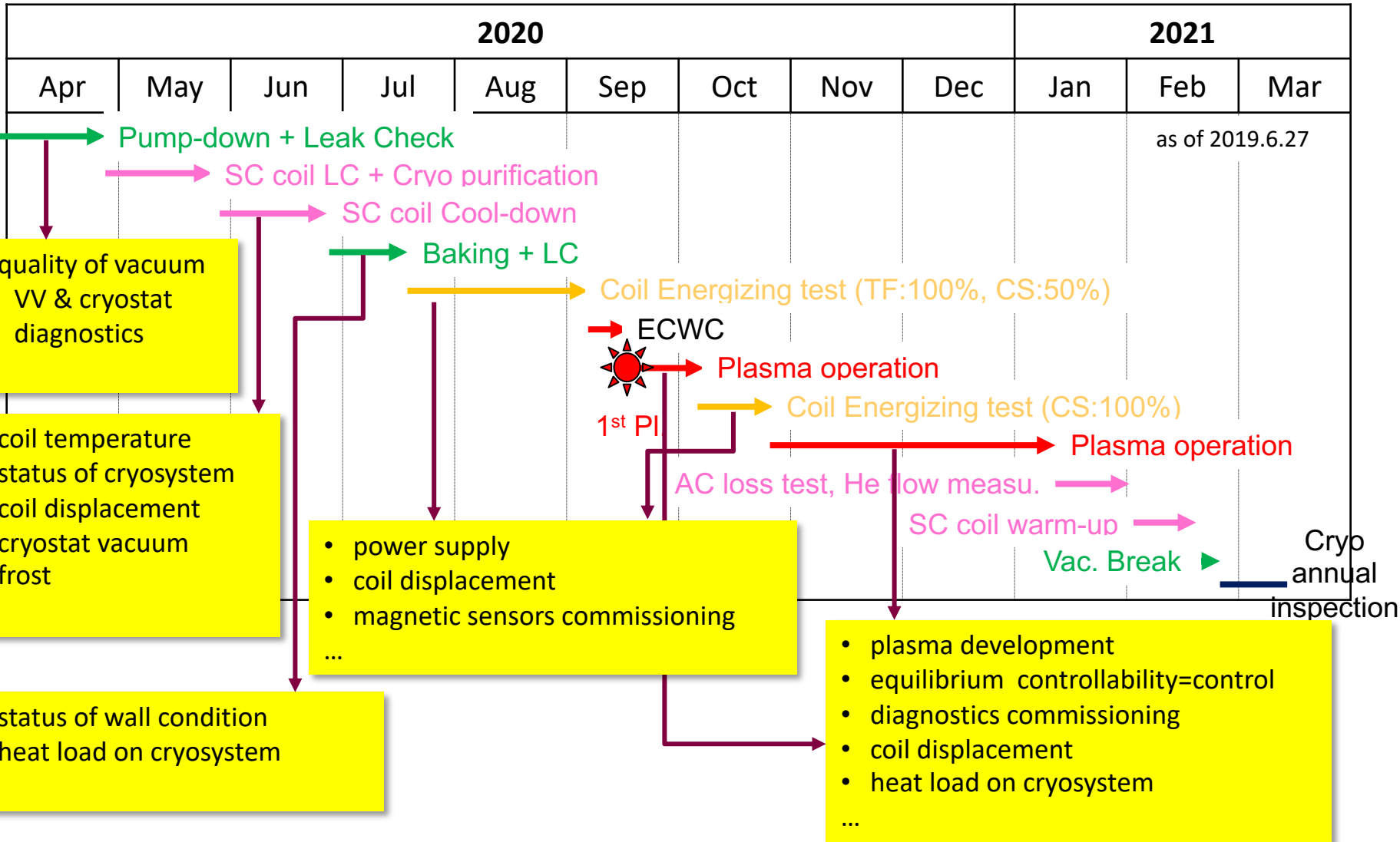
- **Introduction (E. Belonohy)**
- **ECWC and gas analysis in JT-60SA (T. Wauters)**
- **Breakdown modelling (M. Mattei) (20'+10')**
- **EC assisted breakdown modelling and validation (D. Ricci)**
- **Discussion (G. de Tommasi)**

JT-60SA status



The construction phase completed on 31st March 2020 according to plan.

Integrated Commissioning Timeline



EU team in the IC 2020-21



Competence	IC team on site	weeks on-site/off-site	Supporting / on-call visiting expert	weeks on-site/off site	Home support experts	Weeks (off-site)
Breakdown	D. Ricci (ENEA)	12/6	A.Lunt (IPP)	4/1	A.Moro (ENEA)	4
	W. Bin (ENEA)	8/4	B. C. Sozzi (ENEA)	2/2		
ECWC + gas	T. Wauters (ERM)	13/4	C. Sozzi (ENEA)	2/2	J. Buermans (ERM)	10
Control and equilibrium	D. Abate (ENEA)	12/12	M. Mattei (ENEA)	2/4	M. Ariola (ENEA)	2
	M. Bonotto (ENEA)	12/12	A. Pironti (ENEA)	2/2	L. Di Grazia (ENEA)	16
Cryo and magnets	A.Louzguiti (EEG, CEA) F. Michel (CEA)	16/20 14/2	L. Zani (CEA), C. Hoa (CEA)	6/10 4/3	M. Adriano (ENEA)	4
					G. Tartaglione (ENEA)	4
EDICAM	T. Szepesi (Wigner) G. Kocsis (Wigner)	12/4 12/5	S. Zoletnik (Wigner)	4/2	Possible support within WPSA	
			O. Asztalos (Wigner)	6/0		
Magnetic and MHD	L. Pigatto (EEG, ENEA)	16/8	T. Bolzonella (ENEA)	6/4	G. Rubinacci (ENEA)	4
			F. Villone (ENEA)	2/4	C. Reux (CEA)	3
Scenario development	M. Iafrati (ENEA)	20/10	S. Hall (CCFE),	4/1	Possible support from WPSA	
			P. Moreau (CEA)	4/0		
Under QST management		147/87	Visits managed by EJ/ EB/GdeT	48/37		73

Contact people



	F4E project leader	Deputy Project Leader and Naka-site representative
F4E JT-60SA project	E. Di Pietro	S. Davis
Topic	EUROfusion contact	Japan contact
Preparation for Experiment Implementation Organization	E. Joffrin (E. Belonohy, G. de Tommasi)	S. Ide, (T. Suzuki, M. Yoshida)
Plasma Operation Team	E. Belonohy, G. de Tommasi	M. Yoshida
<i>Plasma discharge development</i>	E. Belonohy	<i>M. Yoshida (H. Urano)</i>
<i>Plasma breakdown</i>	G. De Tommasi	<i>H. Urano (T. Wakatsuki)</i>
<i>Plasma control and equilibrium</i>	G. De Tommasi	<i>S. Inoue (T. Wakatsuki)</i>
<i>ECWC and gas analysis</i>	E. Belonohy	<i>T. Nakano (M. Fukumoto)</i>
<i>MHD and disruption</i>	G. De Tommasi	<i>M. Takechi (H. Tojo)</i>
<i>EDICAM</i>	E. Belonohy	K. Kamiya
Cryogenics and magnets	E. Joffrin	K. Hamada
Remote data access	G. De Tommasi	



Research plan: www.jt60sa.org/pdfs/JT-60SA_Res_Plan.pdf

WPSA wiki:

[http://users.eurofusion.org/iterphysicswiki/index.php/WPSA: Preparation of Exploitation of JT-60SA](http://users.eurofusion.org/iterphysicswiki/index.php/WPSA:Preparation_of_Exploitation_of_JT-60SA)

CQMS:

<https://users.jt60sa.org/IDM/Pages/DocumentSystem.aspx?uid=228V87>

Plant Integration Document (PID):

<https://users.jt60sa.org/?uid=222UJY>

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Discussion points

