Progress of the Project Overview

Thomas Jordan, KIT





















Telephone / Video Conference on the Progress of the Project

Agenda



Starting time (CEST)	Topic	Responsible e person
10:00	Overview (WP1)	Jordan
10:45	Progress, status, outlook on WP2	Bernard
11:30	Progress, status, outlook on WP3	Venetsanos
12:15	Lunch break	
13:15	Progress, status, outlook on WP4	Coldrick
14:30	Progress, status, outlook on WP5	Kuznetsov
15:15	Progress, status, outlook on WP6	Cirrone
16:00	Wrap-up	Jordan
16:15	End	

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WP1 Update

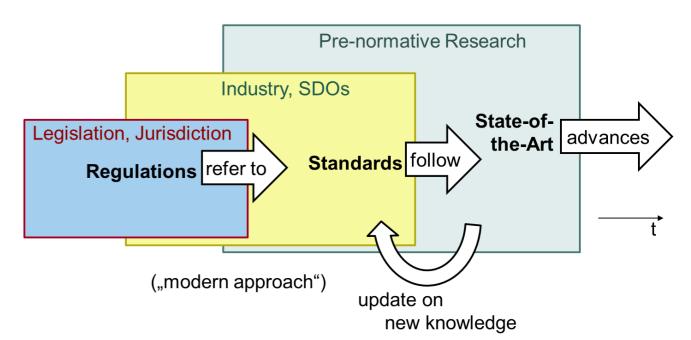


- RTD coordination aspects
 - Expected results
 - Scientific approach
 - Relation between WPs
 - Main challenges
- Administrative coordination aspects
 - Project organization
 - Updated status on deliverables
 - Reporting

WP1 - RTD coordination - Administrative coordination

Expected Results = Objectives

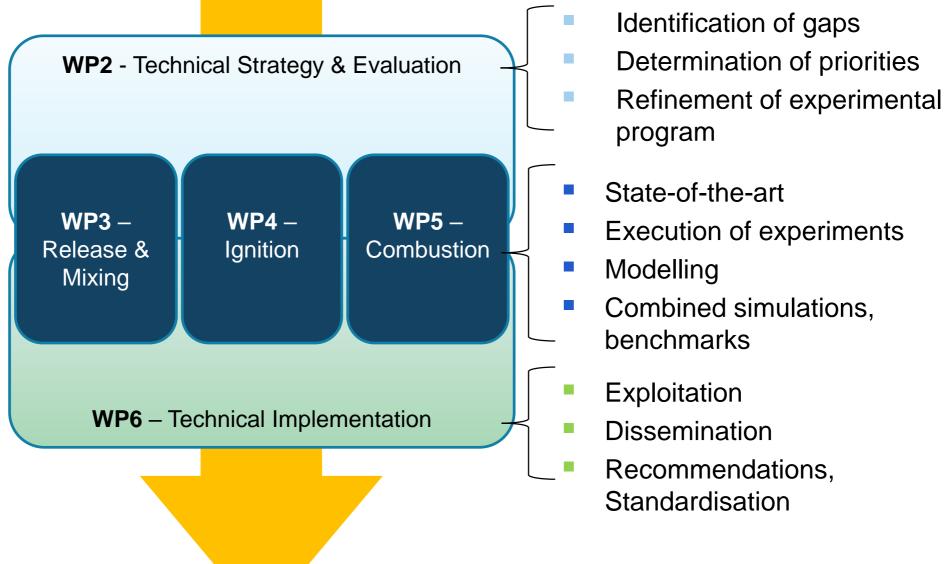
- Develop further the state-of-the-art for safe use of LH2
- Report on the initial state-of-the-art and knowledge gaps with priorities related to the envisaged use of LH2



- Execute adjusted experimental program addressing release, ignition and combustion phenomena with highest priorities
- Document and publish detailed, aggregated and interpreted data in a FAIR way
- Develop suitable models and engineering correlations and integrate them in a suitable open risk assessment toolkits
- Provide enhanced recommendations for safe design and operations of LH2 technologies
- Support international SDOs in updating existing or developing new international, performance based and risk informed standards
- Document and disseminate the enhanced state-of-the-art

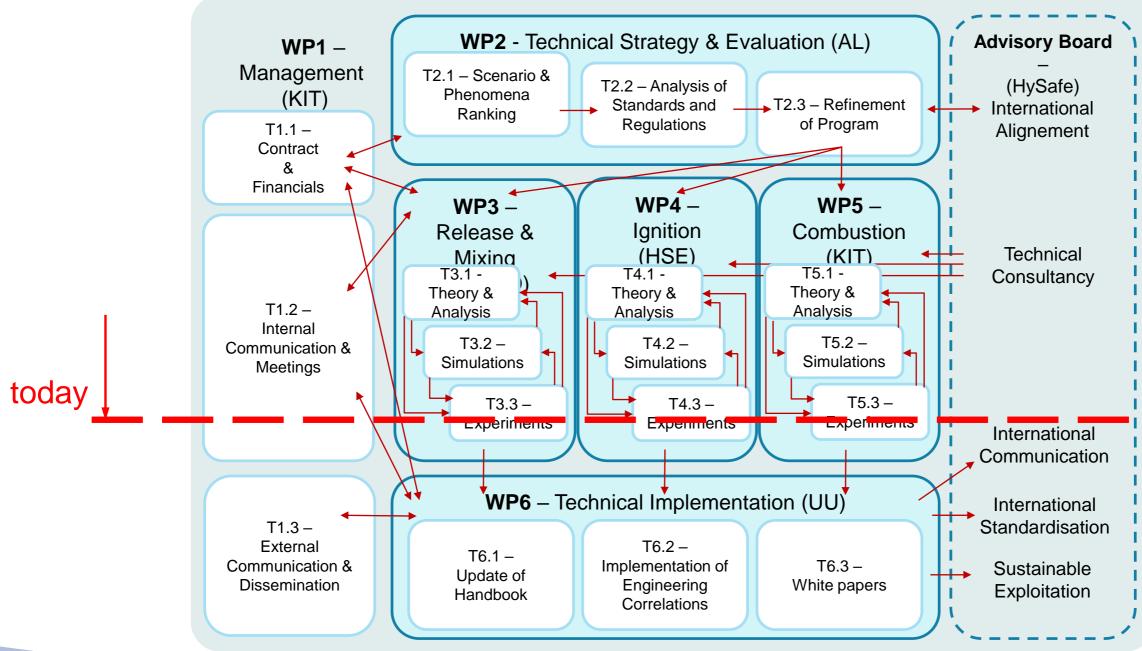
Scientific Approach





Relation between WPs





WP1 - RTD coordination - Administrative coordination

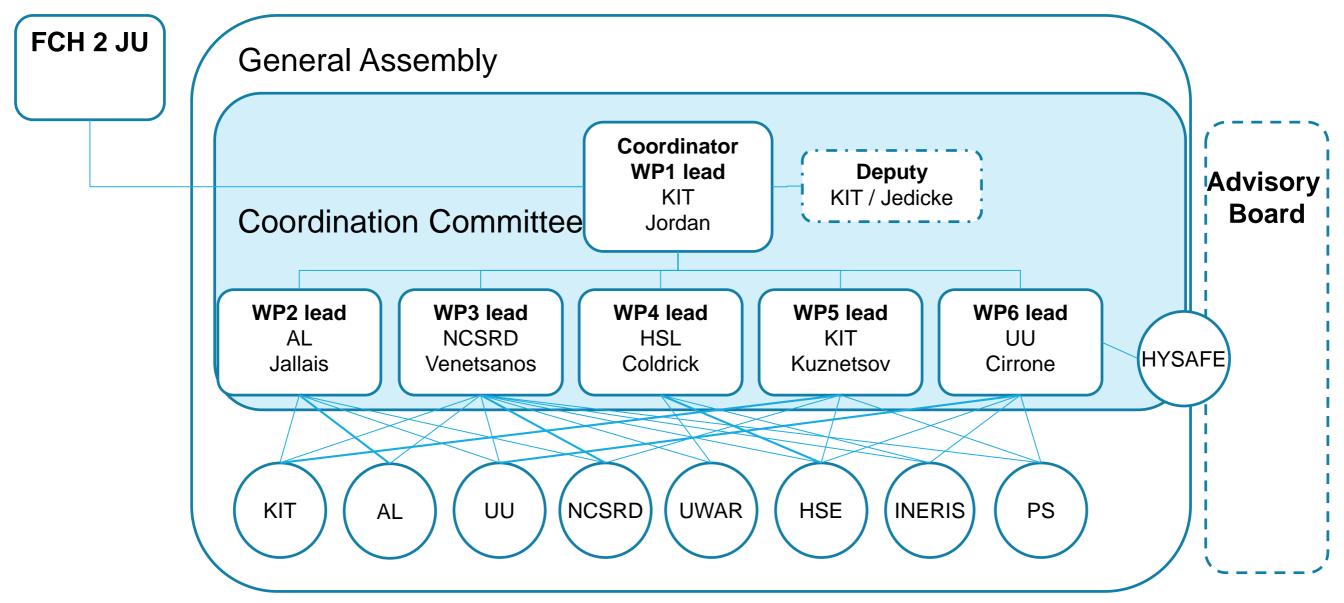
Main Challenges



- Address the right knowledge gaps with the limited funding
- Integrate analytical, experimental and simulation work
- Get experimental work properly and timely done, despite difficulties
 in supply and costs associated with materials, components and measurement techniques
 in the cryogenic field
- Find the right formats and channels to inform all stakeholders
- Initiate and possibly drive the right standardization work
- Providing a sustainable impact as time limited project
 (in particular, when comparing to typical timelines for product development and standardization)

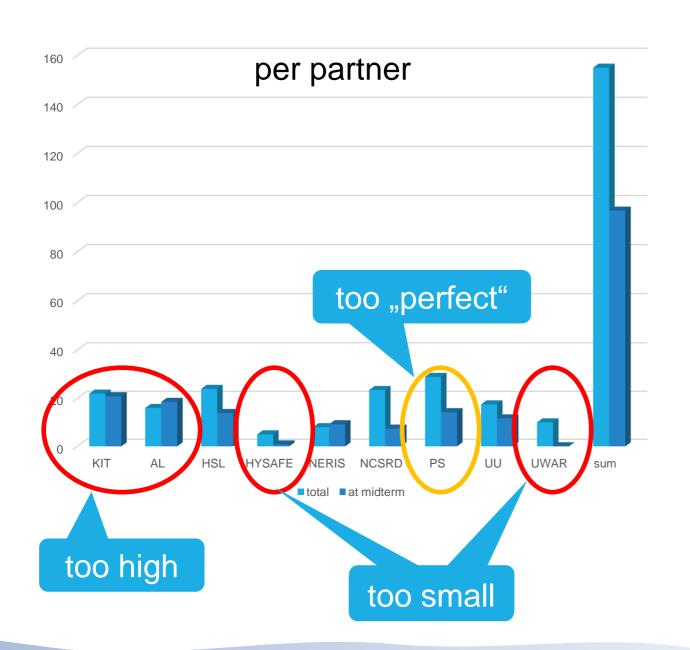
Project Organisation - Governance



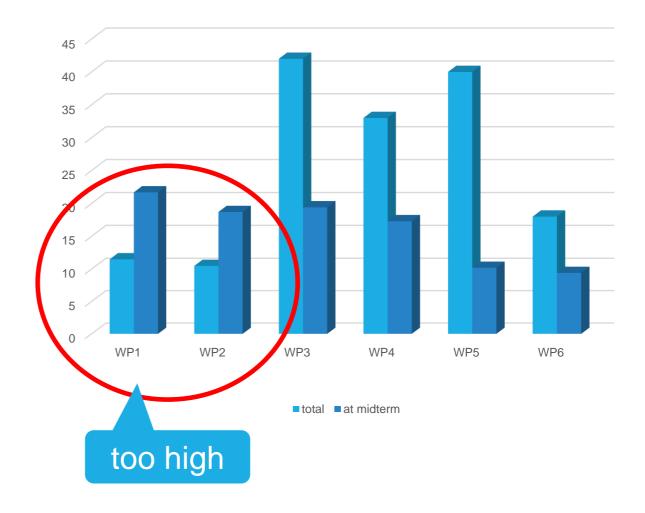


Review / Justification of AL, KIT, HySafe, UWAR





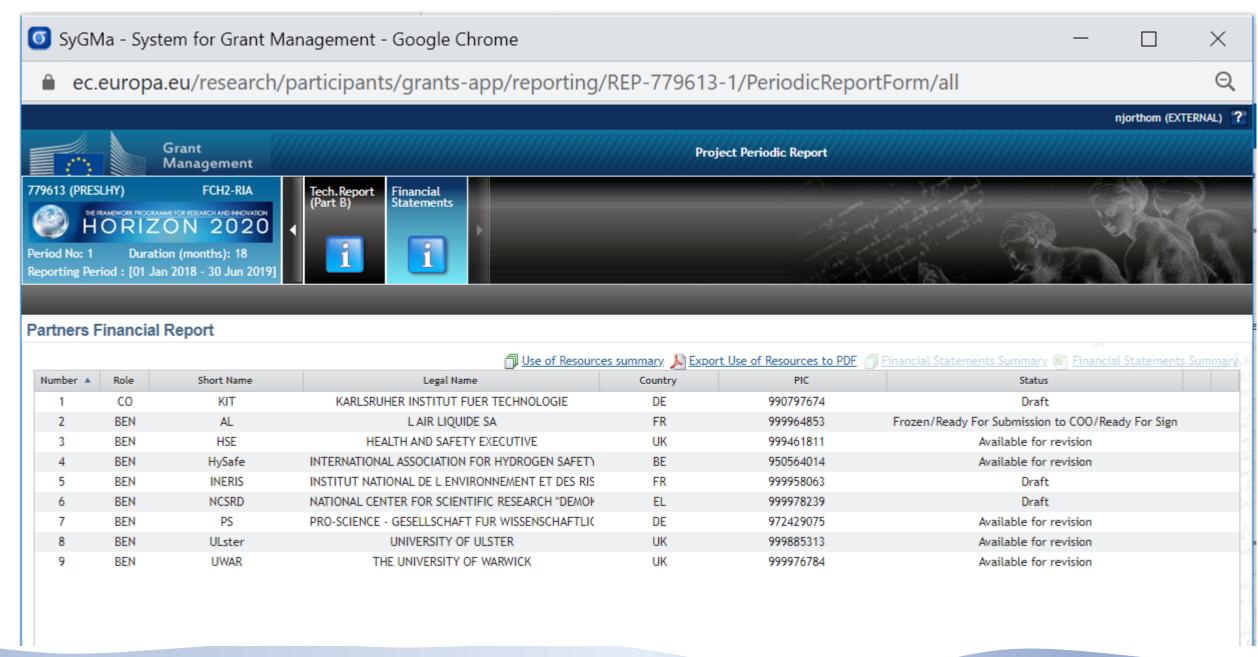
per work package



WP1 - RTD coordination - Administrative coordination

Reporting





Reporting



Revision reason



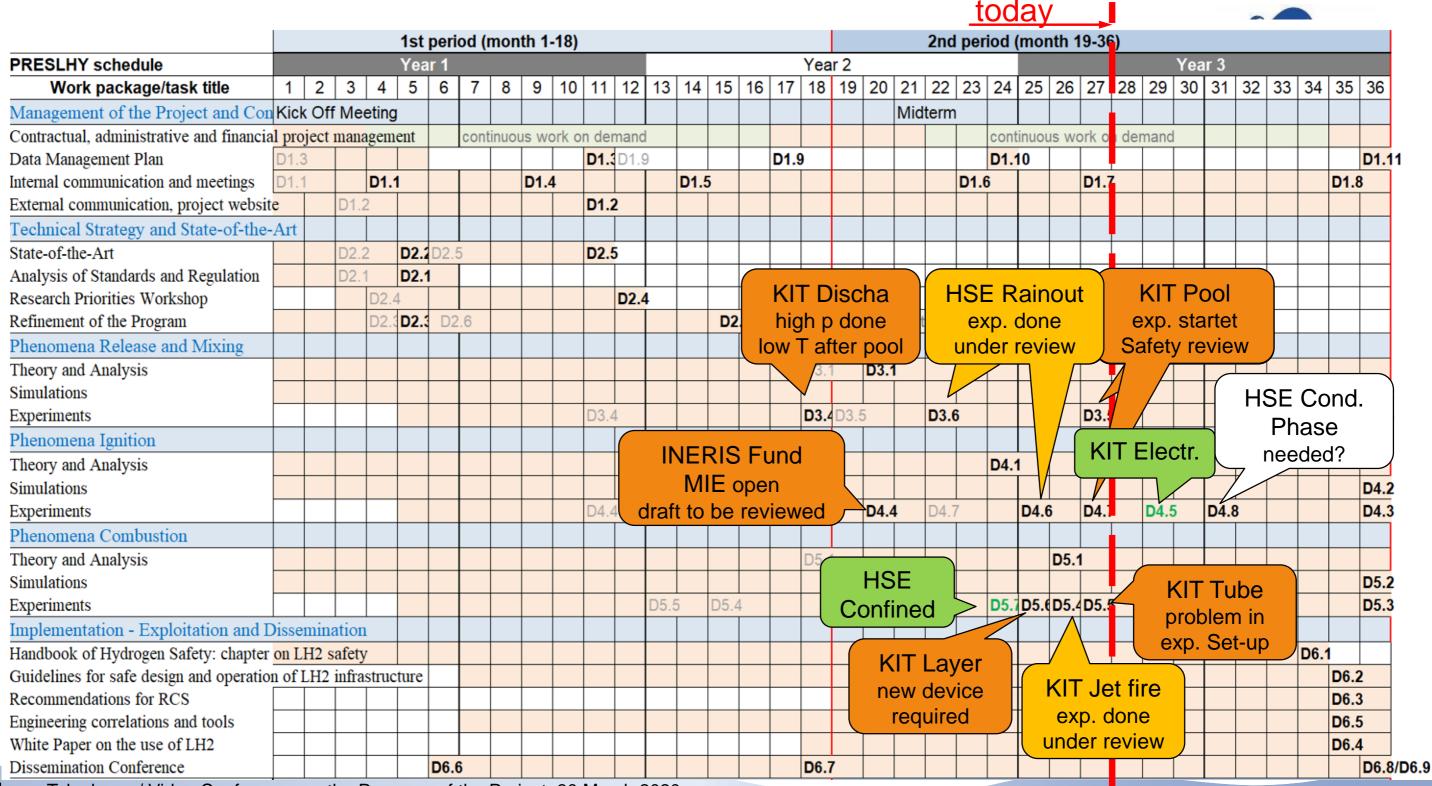
EC requested revision: Rejected for further details on the personnel costs overspending for WP1 and WP2 personnel costs/ unplanned contributions required esp. from the WP leaders & partner HSL, esp. WP1 14 mm versus 8 planned for KIT for the whole project and ALAT already overspending the MM planned in general for all WPs for the life of the project, with the following request: Please review the WP1 and WP2 reported personnel costs to ensure all WP1 management efforts and WP2 technical strategy development as manmonths were 1) indeed needed and related to achievement of the project objectives, and also 2) in line with the principles of sound management - ECONOMY, efficiency & effectiveness - in case the answer to any of the above 2 questions is NO, please quantify and remove the extra co9sts from P1 claim - or advise the MM and amounts to be rejected from our end if needed. If the answer to the above 2 Questions if YES, then please ensure partners' commitment to complete projects tasks withing Money & time resources available, & plan for better coordination to avoid further deviations as per Report. In view of the missing 3 partners FS (which were rejected to them instead of submission of the drafts) 1) Please coordinate w/AL, INERIS & NCSRD if needed to revisit their submission and then resubmit to us the full package . 2) We take note that the huge negative deviations are due to the lack of submission, and 3) after the review of the submission and the 3 missing FS as drafts, we have the following comments - AL: pls make sure no ODC to be reported by AL related to P1 tasks, 2) INERIS personnels costs reported are actual and in line with the H2020 rules; 3) UWAR personnel costs under-spending is to be further explained as to 'contributing' (UK national or?) project finding the costs for prof. Wen we look forward to responses and re-submission with 2 weeks from

WP1 – RTD coordiation – Administrative coordination





									2nd period (month 19-16)																											
	Review / Rescheduling								Year 2 , , 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36																											
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WP1	Management of the Project and Cor Kie	ck Of	f Me	eting	1															Midt	erm															
Task 1.1	Contractual, administrative and financial	proje	ct ma	mage	ment		onti	nuou	s wo	ork o	n de	mano	k										con	tinuc	ous	wor	on	ı de	eman	ıd						
Task 1.2	Data Management Plan					D1.3			-		D	<u> 1.9 –</u>											D1.	10												D1.1
Task 1.3	Internal communication and meetings D1	I. 1 —						D	1.4				D1	1.5								D1.6	6				D1	1.7							D1.	8
Task 1.4	External communication, project website		D1.	2 —						-																										
WP2	Technical Strategy and State-of-the-Ar	t																																		
Task 2.1	State-of-the-Art		D2.	2		D2 .5	,—	+																				I	\Box	I	\Box					
Task 2.2	Analysis of Standards and Regulation		D2.	1																								\perp		\perp						
Task 2.3	Research Priorities Workshop			D2.4	4 +						-																	\perp								
Task 2.4	Refinement of the Program			D2.3	3—(D 2.	6		+	+	_			-					con	tinua	tion	on c	dem	and												
WP3	Phenomena Release and Mixing																																			
Task 3.1	Theory and Analysis																D3.	1	•									\top	\top	T	\top	\top	\neg			
Task 3.2	Simulations																																			D3.2
Task 3.3	Experiments	Т								D	3.4	-					•	D3.	5		D3.6)					Г	П								D3.3
WP4	Phenomena Ignition																																			
Task 4.1	Theory and Analysis																D4.	1	-									Т	\top	Т	\top	\top	一			
Task 4.2	Simulations																										Г									D4.2
Task 4.3	Experiments									D	4.4	+							•		D4.7	7		D4.	6			D	4.5	E)4.8					D4.3
WP5	Phenomena Combustion																																			
Task 5.1	Theory and Analysis																D5.	1										\top		T	\top	\Box				
Task 5.2	Simulations																																			D5.2
Task 5.3	Experiments											D5	5.5	D 5.	4 -									D5.	6									D5.7	7	D5.3
WP6	Implementation - Exploitation and Diss	emin	ation	ı																																
Task 6.1	Handbook of Hydrogen Safety: chapter or	n LH	2 saf	ety																														D6.	1	
Task 6.2	Guidelines for safe design and operation				ructu	re																													D6.	2
Task 6.3	Recommendations for RCS											\top															Г								D6.	3
Task 6.4	Engineering correlations and tools																																		D6.	5
Task 6.5	White Paper on the use of LH2																																		D6.	4
Task 6.6	Dissemination Conference					D6.6											D6.	7																		D6.8
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WP1 - RTD coordination - Administrative coordination

Reporting



- Presence at the FCH JU 2019 Program Review and Stakeholder Meeting
 - Preparation of a poster (back-up)
 - Distribution of flyers
- Waiting for initiation of 2nd <u>Annual Data Reporting</u> (D1.10)

WP1 – RTD coordination – Administrative coordination

Deliverables to be delivered I/II

D06	D1.6	4th Project Meeting	1	KIT	OTHER	СО
D23	D3.6	Summary of experiment series E3.5 (Rainout) results	3	HSE	REPORT	CO
D10	D1.10	2nd Annual Data Reporting	1	KIT	REPORT	CO
D24	D4.1	Theory and Analysis of Ignition with specific conditions related to cryogenic hydrogen	4	HSE	REPORT	PU
D28	D4.5	Summary of experiment series E4.2 (Electrostatic) results	4	PS	REPORT	СО
D29	D4.6	Summary of experiment series E4.3 results	4	HSE	REPORT	СО
D38	D5.7	Summary of experiment series E5.5 results	5	HSE	REPORT	СО



Several requests KIT internally?

Under review

Waiting for initiation

Done

Done (report to be extracted from D3.4 and uploaded)

Under review

Under review

WP1 – RTD coordination – Administrative coordination

Deliverables to be delivered II/II

D32	D5.1	Theory and Analysis of Combustion of Pre- mixed systems with cryogenic hydrogen	5	KIT	REPORT	PU
D35	D5.4	Summary of experiment series E5.1 results	5	PS	REPORT	СО
D07	D1.7	5th Project Meeting	1	KIT	OTHER	CO
D22	D3.5	Summary of experiment series E3.4 (Pool) results	3	PS	REPORT	СО
D27	D4.4	Summary of experiment series E4.1 (General ignition) results	4	INERIS	REPORT	CO
D30	D4.7	Summary of experiment series E4.4 (Pool) results	4	PS	REPORT	СО
D36	D5.5	Summary of experiment series E5.2 results	5	PS	REPORT	СО
D37	D5.6	Summary of experiment series E5.3 results	5	PS	REPORT	CO



Under review

Report to be finished and reviewed

Postponed, or to be replaced by this meeting

Tests started, finalisation waiting for test site restructuring for safety reasons

Tests further delayed?

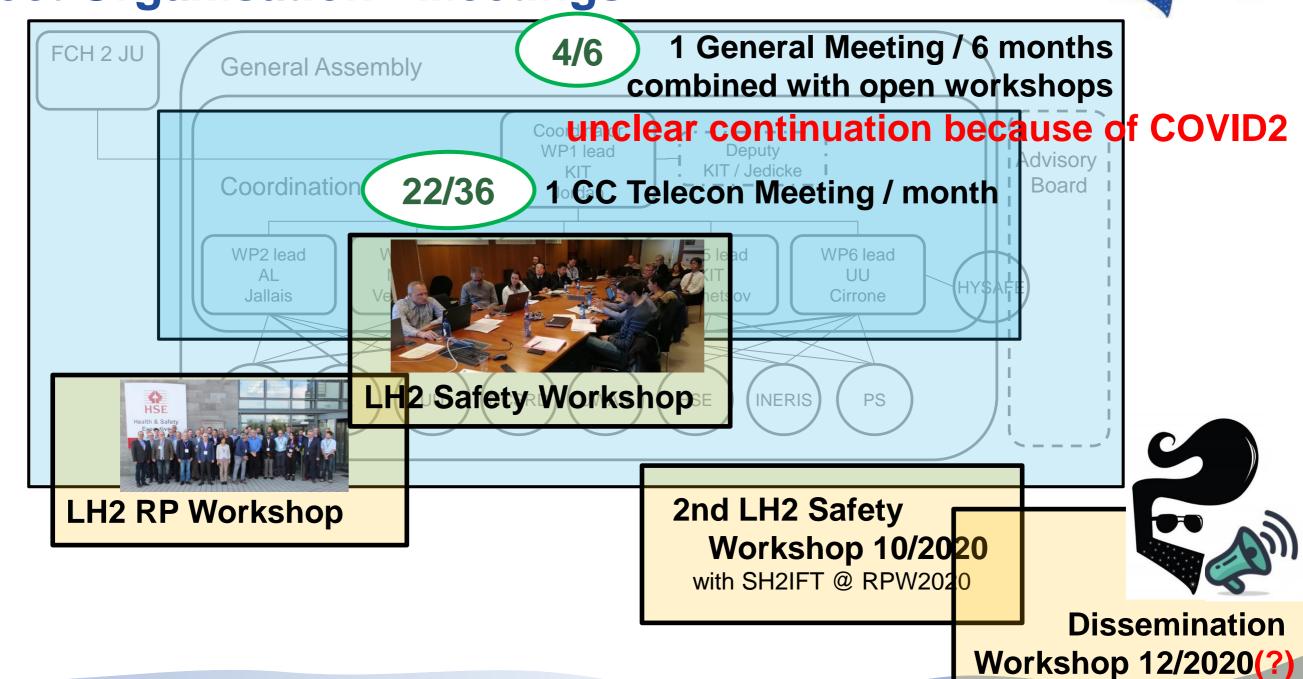
Tests started, finalisation waiting for test site restructuring for safety reasons

Tests further delayed, because of technical problems

Tests further delayed, because of the need for new facility

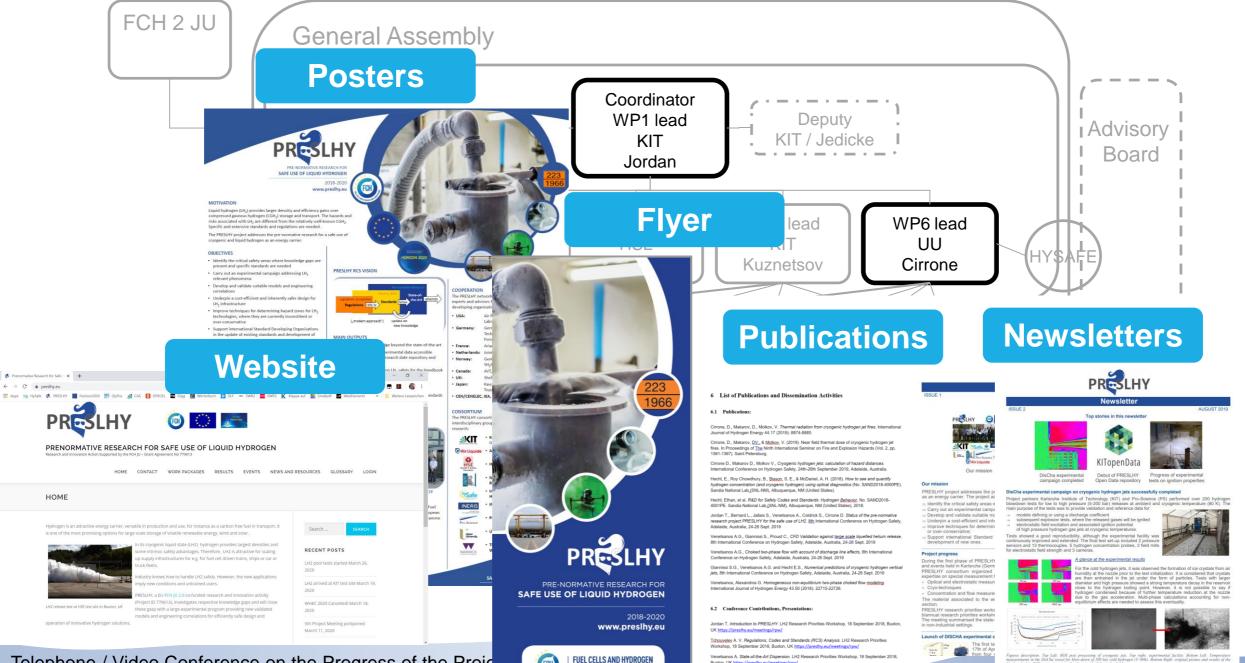
Project Organisation - Meetings





Project Organisation - Communication





Reporting - Progress, Status and Achievements



Task 1.4 External Communication (+ Networking)

Website updated



- Partnership with SH2IFT project maintained
 - invitation of coordinator to the CC meetings
 - initiative for 2nd workshop



PRESLHY

Reporting - Progress, Status and Achievements

Task 1.4 External Communication (+ Networking)

 Update of Preliminary Working Item (ISO/PWI 24077) titled "Safe Use of Liquid Hydrogen in Non-industrial Settings" on 12/2019 in Grenoble



 Presentation at CEN/CENELEC SFEM WG Hydrogen in 01/2020 in Brussels, Belgium



Reporting - Progress, Status and Achievements

Task 1.4 External Communication (+ Networking)



- Development of a NWIP for a self-contained
 TR "Basic consideration for LH2 safety in non-industrial seetings"
- Defining a pathway for integration of the new TR in an ISO TR 15916 update

