



WPW7X Financial Overview

E. Genangeli, P. Haucke

Stellarator Project Board Meeting N01
7 June 2021



This work has been carried out within the framework of the EUROfusion Consortium and has received funding from the Euratom research and training programme 2014-2018 and 2019-2020 under grant agreement No 633053. The views and opinions expressed herein do not necessarily reflect those of the European Commission.

EUROfusion Overall budget 2021-25 per WP



Approved by GA on 3rd April 2021 and included in Grant Proposal

Work Package	Total Resources (k€)	Total Cons. Contr. (k€)	Total EC contr. 55% (k€)
WP01-TE	404,140	202,652	222,277
WP02-SA	15,069	8,403	8,288
WP03-W7X	61,704	33,910	33,937
WP04-AC	93,120	53,497	51,216
WP05-PWIE	36,376	18,566	20,007
WP06-PrIO	18,505	10,333	10,178
WP07-ENR	33,116	15,807	18,214
WP08-DES	30,074	21,953	16,541
WP09-MAG	25,044	13,822	13,774
WP10-BB	81,752	45,358	44,964
WP11-PES	9,413	7,139	5,177
WP12-DIV	81,794	55,368	44,987
WP13-HCD	13,443	6,926	7,394
WP14-TFV	21,388	10,890	11,763
WP15-BOP	21,038	14,604	11,571
WP16-DC	9,600	4,870	5,280
WP17-RM	44,234	24,127	24,329
WP18-MAT	81,076	49,731	44,592
WP19-SAE	16,098	8,906	8,854
WP20-ENS	33,069	18,448	18,188
WP21-PRD	23,049	10,893	12,677
WP22-SES	2,457	1,261	1,351
WP23-COMM	1,250	1,250	688
WP24-TRED	109,760	53,576	60,368
WP25-PMU	93,918	80,759	51,655
WP26-TT	1,750	1,750	963
Grand Total	1,362,236	774,800	749,230

Budget plan 2021-25

(Incl. UK resources and JET post-2021*)

*2 years after completion of DTE2 campaign; no shutdown

CC higher than EC contr. =>

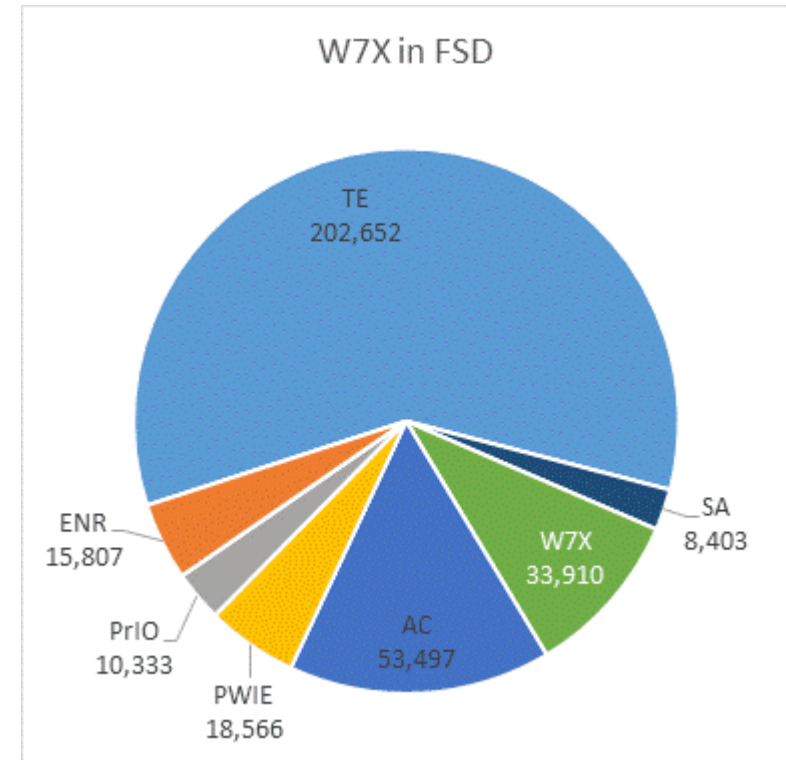
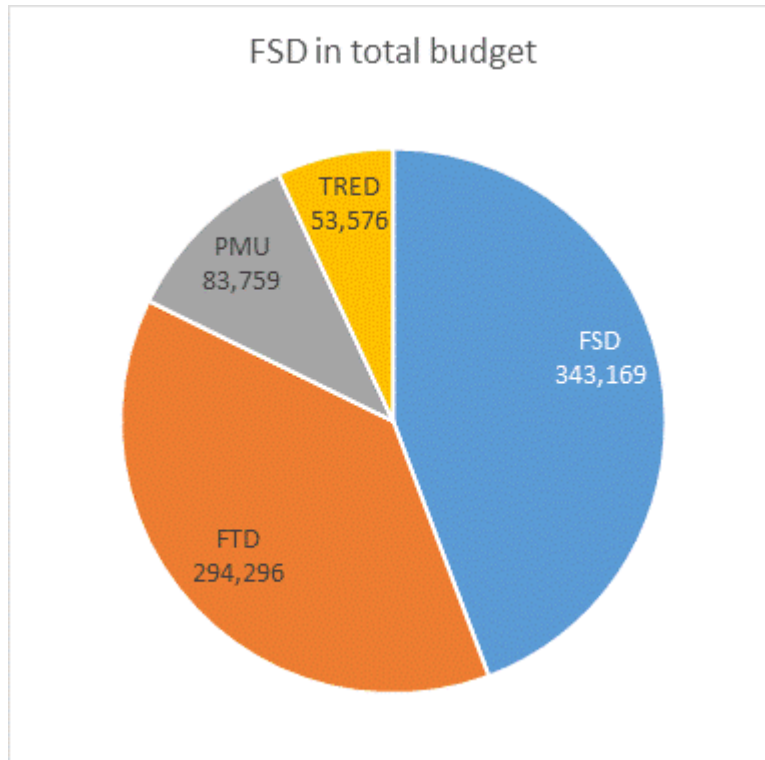
Resulting internal funding rate: 57.0%

Overbidding: ~62M€TR => ~33M€CC

W7X ~6M€TR => ~3M€CC

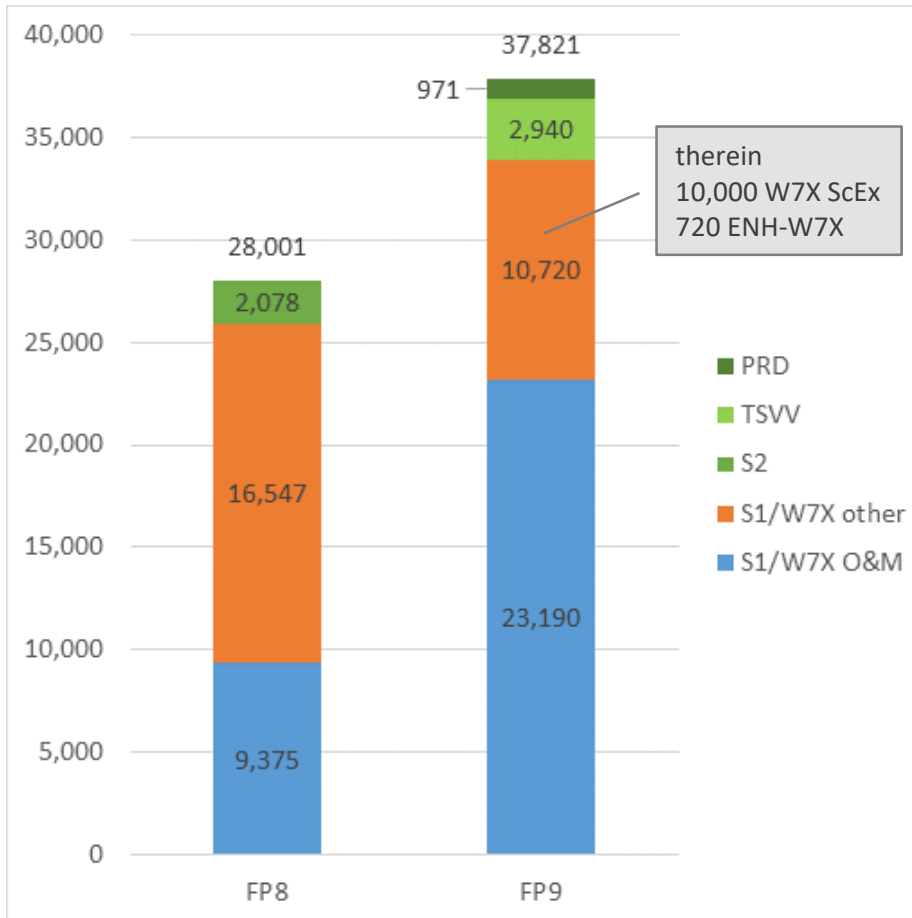
~ 1.2M€ already allocated in 2021!

W7X vs. FSD and total budget



Consortium Contribution as of Apr 2021

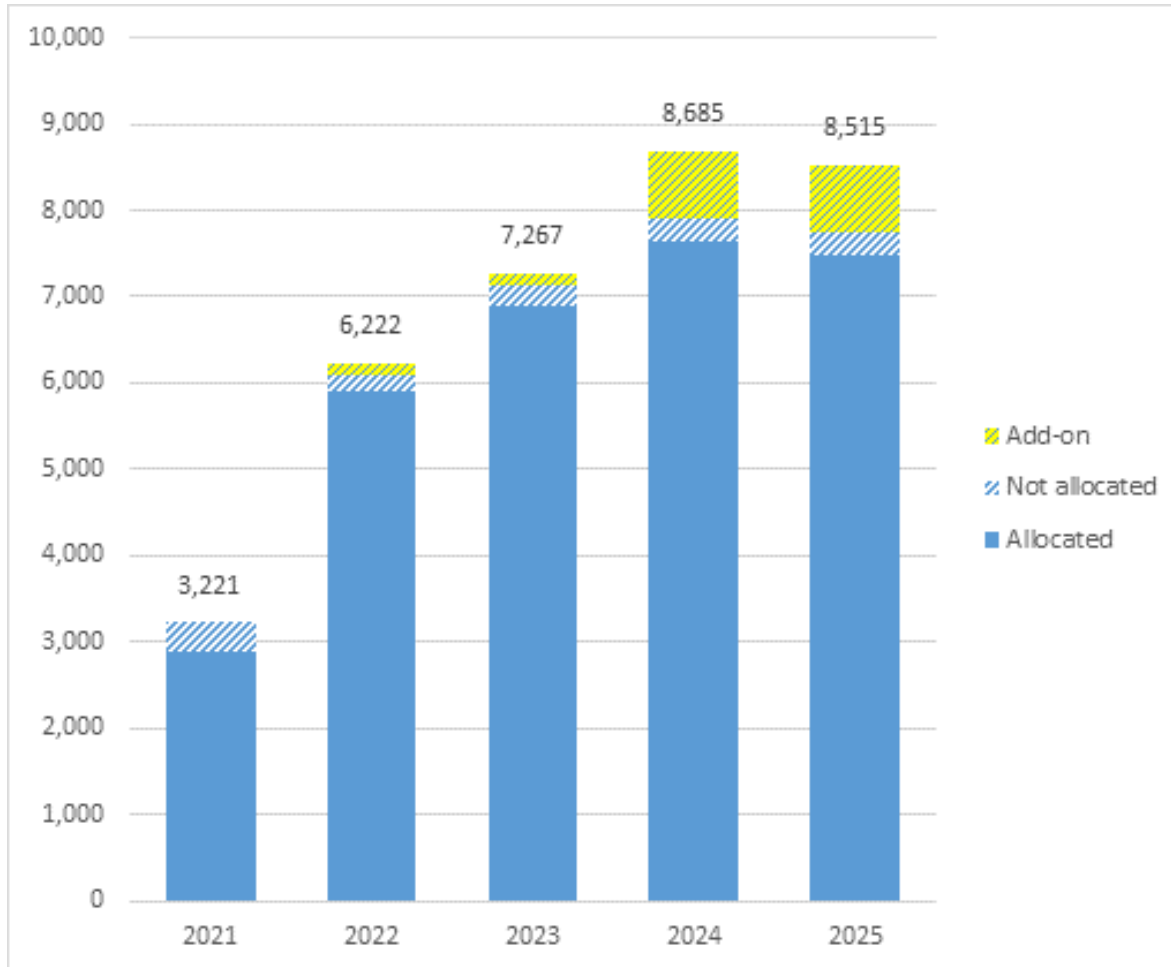
Stellarator resources FP9 vs. FP8



Stellarator programme has been significantly increased; however scientific exploitation has been reduced to fit in the total budget.

Consortium Contribution from IMS as of May 28, 2021; FP8 as of MBT va10

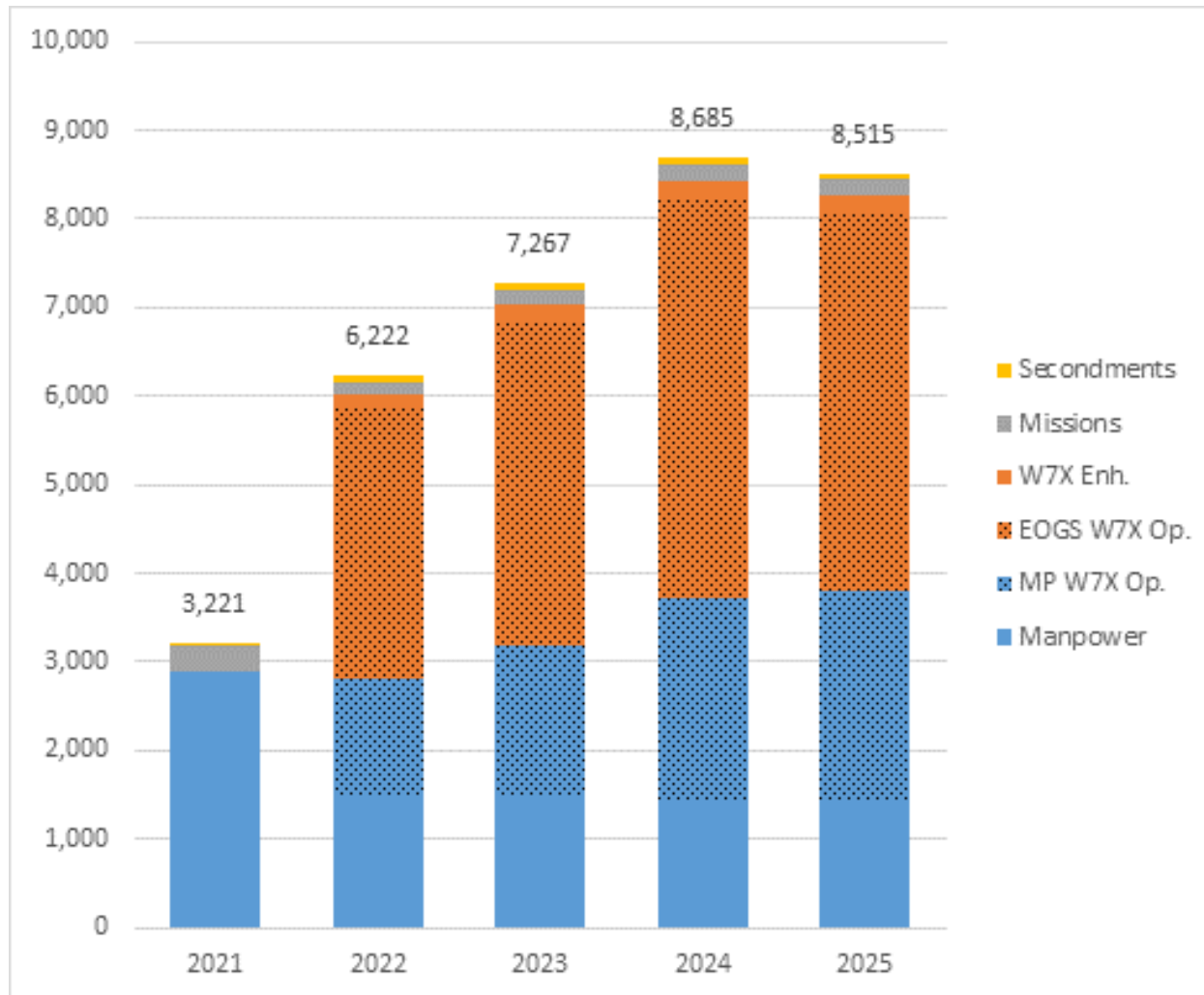
W7X budget 2021-2025



- Add-on = 1.8M€ overbidding (1.2M€ already allocated in 2021)
- Not allocated = funds for missions/secondments TFLs
- Allocated: Indicative in 2022-25; it includes W7X operation costs

Consortium Contribution from IMS as of May 28, 2021

W7X budget by cost categories



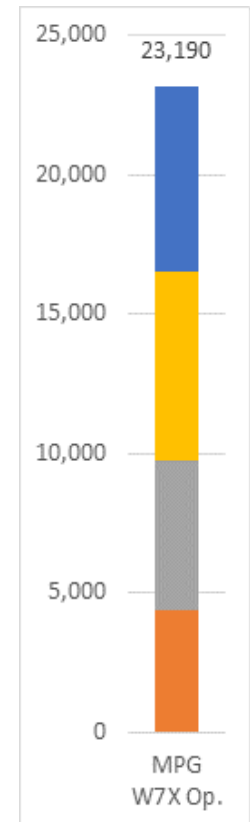
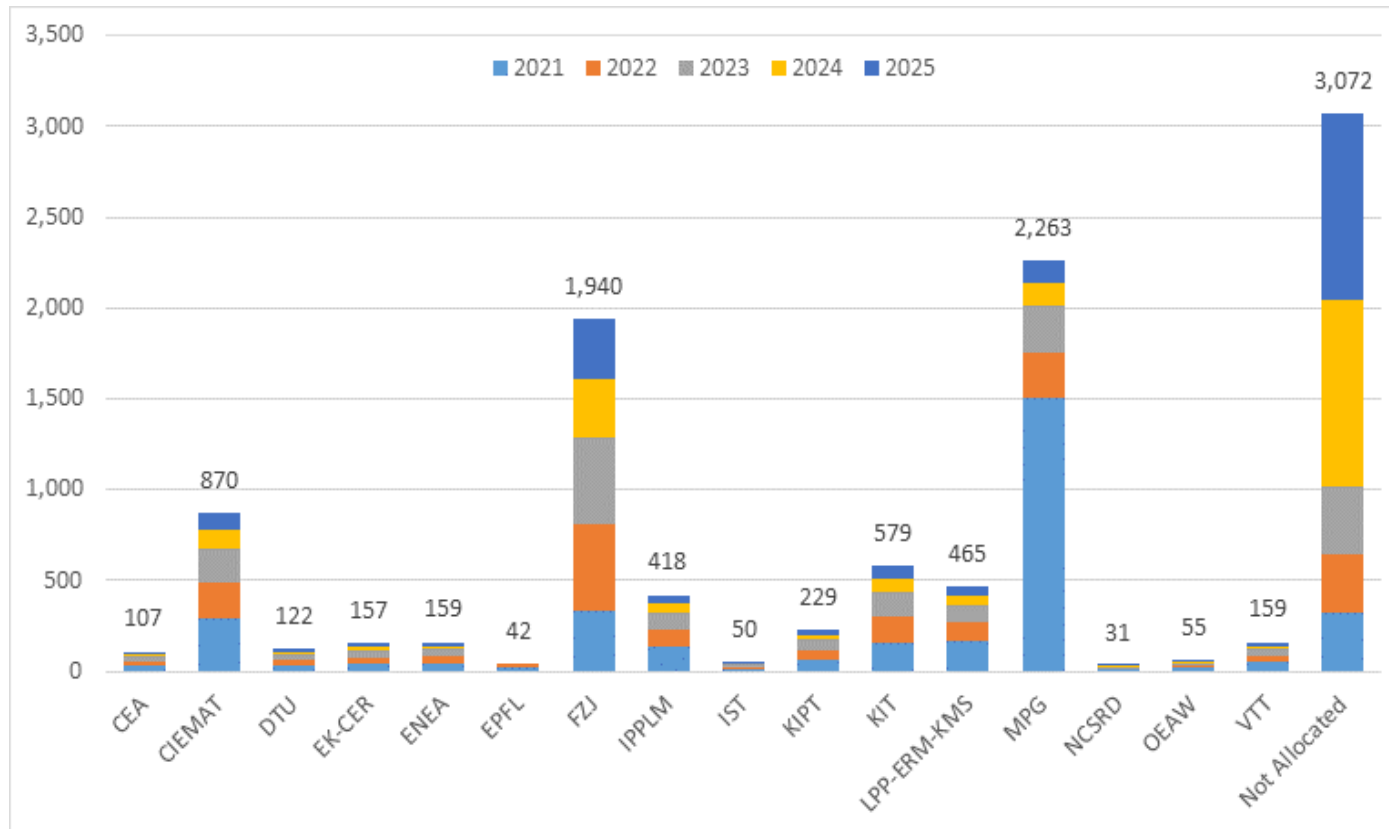
Consortium Contribution from IMS as of May 28, 2021

W7X budget by beneficiaries



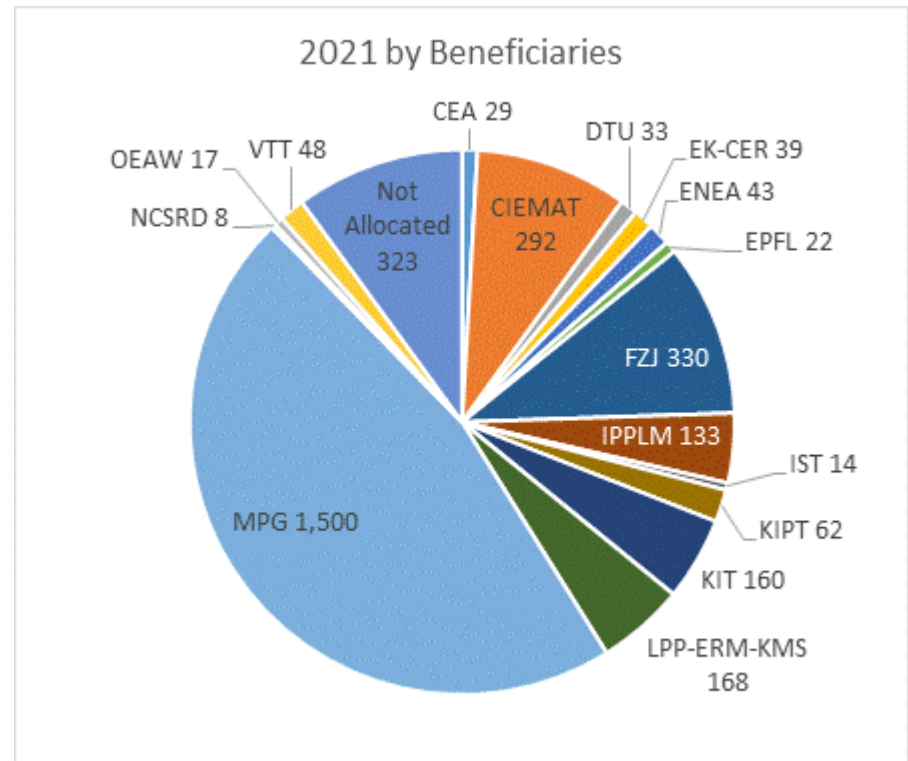
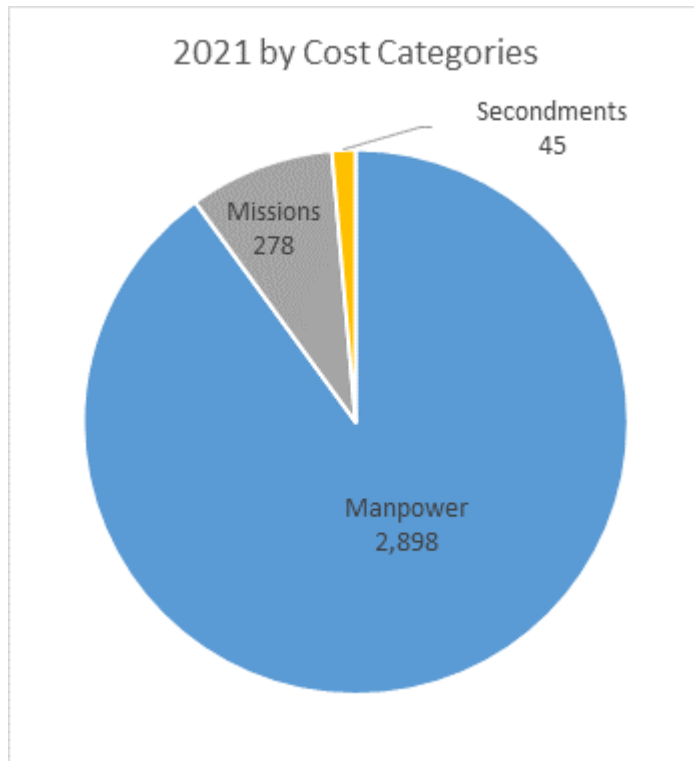
Without W7X Operation & Maintenance:

O&M only:



Consortium Contribution from IMS as of May 28, 2021

W7X budget 2021



Consortium Contribution from IMS as of May 28, 2021

Budget for missions and secondments 1/2



Not allocated (k€)

	2021	2022	2023	2024	2025
Missions	278	131	165	203	198
Secondments	45	64	64	64	64

- Budget for missions in 2021 will likely not be used
- Request to convert mission budget in resources for manpower in 2021
- It is advised to wait until the grant amount is known as in case the amount requested is not granted (overbidding) the overall W7X budget will be reduced by 1.8M€ (or less depending on the grant amount) and therefore the reserved budget for missions could be used to support manpower in 2022-25.
- In case the full amount is granted it is recommended to shift the unused 2021 mission budget to the following years when missions costs will be higher due to the experimental campaigns in W7X.

Budget for missions and secondments 2/2



- Budget for secondments has been added to the W7X budget to cover the costs of the secondments of the DTFLs
- Since in 2021 the DTFLs will not be seconded to Greifswald it is recommended to shift the 2021 budget to the following years as unit costs rates are higher than originally estimated
- **Secondments managed centrally by PMU** with formalization of secondment agreements or host agreements between the sending lab and the hosting organization; these agreements are then signed by the PM who confirms the availability of funds under the EUROfusion work plan.
- The ratio behind is that any secondee to PMU/DCT, TFL, or F4E, NBTF, JT60-SA, IFMIF etc. went through a selection process and their positions were called for secondment.
- Unit costs for secondment expensive plus 100% refunding, therefore in the budget plan only resources for the planned positions for secondment have been foreseen.
- **EUROfusion policy on secondments and FP9 secondment rules to be approved by the GA.**