

# EuAPS – EuPRAXIA Advanced Photon Source

Project Management

INFN-LNF 27/06/2022

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Ranking 1° in the Research Infrastructure ESFRI Area PNRR Call – 191/200

*The project (GANTT) chart appears to be well constructed and reasonable.*

*The description of the project management in this proposal is what one would expect for an outline project of the highest international standard.*

We are grateful for the very good comment from the reviewer but at the same time it is huge responsibility to implement what has been written in the proposal and keep the same Project Management standard.

☐ Proponente: INFN

☐ Co-Proponente:

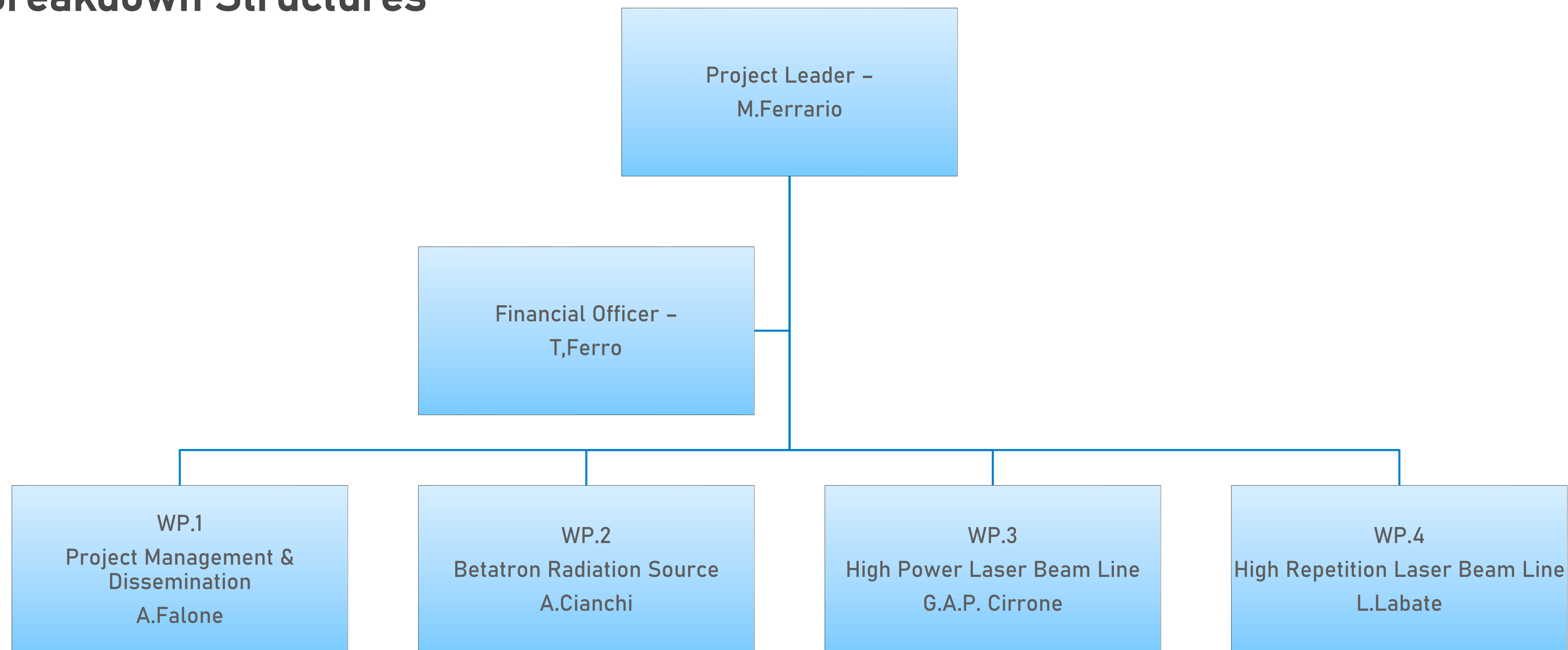
UniTov

CNR

☐ Unità Operative:

- U01 : INFN - LNF
- U02 : INFN - LNS
- U03 : INFN - MI
- U04 : CNR - INO (Pisa)
- U05 : CNR - ISM (Montelibretti RM)
- U06 : CNR - ISM (Tito Scalo PZ)
- U07: UniTov

## Work Breakdown Structures



**Financial Officer supported by Financial Officers from co-proponent**

# Project Budget

Costs included in the request for funding (€)			
	To be located within the eight southern regions	To be located outside the eight southern Regions	Total requested grant
Fixed term personnel specifically hired for the project	270.000,00	1.258.000,00	1.528.000,00
Scientific instrumentation and technological equipment, software licenses and patent	6.917.812,47	10.865.386,00	17.783.198,47
Open Access, Trans National Access, FAIR principle implementation	0,00	0,00	0,00
Civil infrastructures and related systems	1.300.006,38	280.000,00	1.580.006,38
Indirect costs, including running costs	575.081,15	869.302,00	1.444.383,15
Training activities	0,00	15.000,00	15.000,00
Total	9.062.900,00	13.287.688,00	22.350.588,00



## WP 1 – Tasks.

WP	Bimester	Milestone ID	Milestone Name	Costs (€)
1	1	M.1.1.1	Approval of the Project Management Plan	0,00
	3	M.1.3.1	Meeting on defining EuAPS Data Policy	16.873,00
	4	M.1.2.1	Website publication	23.046,00
	6	M.1.1.2	Hiring of the infrastructure manager	28.396,15
	12	M.1.4.2	Draft Report on EuAPS Results for EuPRAXIA TDR	62.965,85
	14	M.1.3.2	Meeting on EuAPS Data Management Experience	34.569,00

## WP 2 – Tasks.

WP	Bimester	Milestone ID	Milestone Name	Costs (€)
2	3	M.2.4.1	Specs for test chamber and electron and ion spectrometers; call for tenders	0,00
	4	M.2.1.1	Hardware commissioning	302.452,00
	4	M.2.4.2	Installation of the electron and ion spectrometers in the test chamber	83.816,31
	4	M.2.6.1	Design of cross correlation methods	395.900,00
	6	M.2.2.1	Capillary – gas jet test report	1.450.920,00
	6	M.2.3.1	Procurement of phase noise analyzer	162.675,00
	6	M.2.5.1	Design user endstation	181.900,00
	8	M.2.4.3	Commissioning of the electron and ion spectrometers	838.165,24
	10	M.2.3.2	Procurement of laser oscillator	391.620,00
	12	M.2.2.2	Laser transport	3.598.303,00
	12	M.2.6.2	Advanced Photon Diagnostics Commissioning	203.300,00
	13	M.2.5.2	Assembly of the chamber with instrumentation	524.300,00
	13	M.2.2.3	Laser Transport	773.041,00
	14	M.2.4.4	Commissioning of the electron and ion spectrometers	263.936,90
	15	M.2.1.2	Numerical characterization of betatron source completed	184.397,00
	15	M.2.2.4	Plasma Source Commissioning	47.080,00
	15	M.2.4.5	Report on pilot experiments with the electron and ion spectrometers	12.481,55
	15	M.2.5.3	Test end station report	42.800,00

## WP 3 Tasks.

WP	Bimester	Milestone ID	Milestone Name	Costs (€)
3	2	M.3.1.1	Clean room design	0,00
	3	M.3.2.1	Design	160.500,00
	5	M.3.2.2	Procurement and first payment	1.005.801,67
	5	M.3.4.1	Design and procurement	428.000,00
	5	M.3.1.2	Procurement and first payment	278.191,66
	7	M.3.1.3	Second payment	417.300,00
	8	M.3.2.3	Second payment	1.508.702,50
	9	M.3.5.1	Design, procurement and mechanical realization of diagnostic	428.000,00
	10	M.3.1.4	Third payment	417.300,00
	12	M.3.1.5	Assembling, commissioning and fourth payment	278.200,00
	12	M.3.2.4	Third payment	1.508.702,50
	12	M.3.3.1	Design and procurement	428.000,00
	15	M.3.2.5	Assembling and commissioning and fourth payment	1.005.801,67
	15	M.3.3.2	Realization and tests	0,00
	15	M.3.5.2	Calibration under conventional beams	0,00



## WP 4 Tasks.

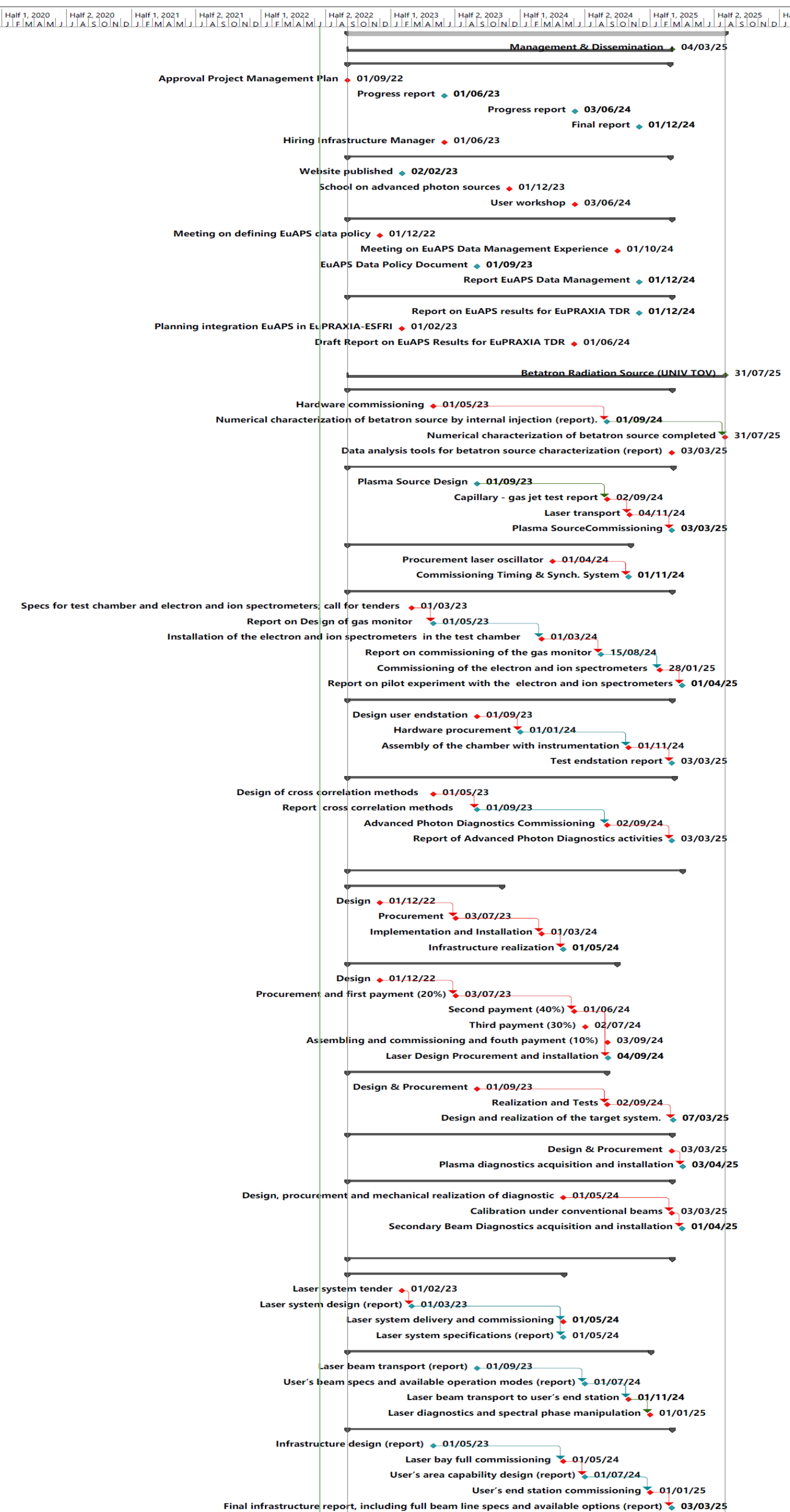
WP	Bimester	Milestone ID	Milestone Name	Costs (€)
4	2	M.4.2.1	Laser transport and manipulation full-scale modelling	42.800,00
	3	M.4.1.1	Laser system tender and advanced payment (20%)	784.769,96
	8	M.4.3.1	Clean room commissioning	299.600,00
	8	M.4.1.2	Laser second payment (40%)	1.612.335,92
	10	M.4.3.2	Procurement of optical tables	64.200,00
	10	M.4.1.3	Laser third (final) payment (40%)	1.663.544,12
	11	M.4.2.2	Definition and procurement of optics, optomechanics, etc. for laser beam transport	117.700,00
	11	M.4.2.3	Definition and procurement of laser beam temporal diagnostics	96.300,00
	13	M.4.3.3	Procurement of vacuum pipes/pumps/steering chambers for beam transport	139.100,00
	14	M.4.3.4	Procurement of vacuum chamber for end station	42.800,00

# Gantt Chart

T0 = 01/09/2022

## Duration 30 months

## Detailed GANNT CHART will be distributed





This will be a very challenging project that can bring a significant impact in the EuPRAXIA development and related technologies that will be acquired.

It will require a significant effort from all of us but it also a big opportunity that cannot be missed.

- Documentation effort from your side
- Documenting system and approval cycle to be respected
- Change management to be fully understood. Changes in the scope (both technically and financially) must go through an internal approval cycle to ensure that the overall project objectives and commitment towards funding agencies are fully respected.

Synergies with other PNRR projects can be found.

Personal Opinioni: A common tool and methodology of project management within PNRR activities can be useful to harmonize the projects monitoring & control within the LAB (at least).

Relevant documents that are in preparation and that will be distributed very soon to all the participant:

- Project Charter
- Project Management Plan
- Gantt-Chart
- Deliverable template

## Very short term to-do-list:

- Distribute all relevant documents
- Elaborate a change management process (very important to keep under control potential changes)
- Coordinate on a common repository (coordination with CNR colleagues is necessary)
- Set up a calendar of meetings and implement proper communication channels
- Create a mailing list for WP leaders and collaborators.

All before august holidays.



Thanks a lot for your effort and collaboration during the proposal phase.

The same will be required in the future!

**Keep up the good work and thank you!!**