

Outline

- *POTLNS project;*
 - *goal*
 - *«rules of the game»;*
 - *organisational model;*
- *tenders status;*
- *project status.*



POTLNS

PIR01_00005

Mario Salvatore MUSUMECI - user committe meeting 15/11/2021



timeline



2014

- Start of study of stripping extraction method and related beam dynamics
- CDR MIT on the new superconducting magnet

2016

- competitive dialogue for the purchase of the new superconducting magnet
- Start of the planning phase of the project

2018

- Opening of the PON call
- drafting and submission to the PON call

2022

- December the 13th, official end of the project

2015

- Drafting of a white paper for internal use on CS upgrade

2017

- Project planning, definition of the PBS, WBS and OBS
- Check with the experts of each sector of the technical needs and estimate the costs

2019

- June the 14th, official start of the project. Duration 32 months

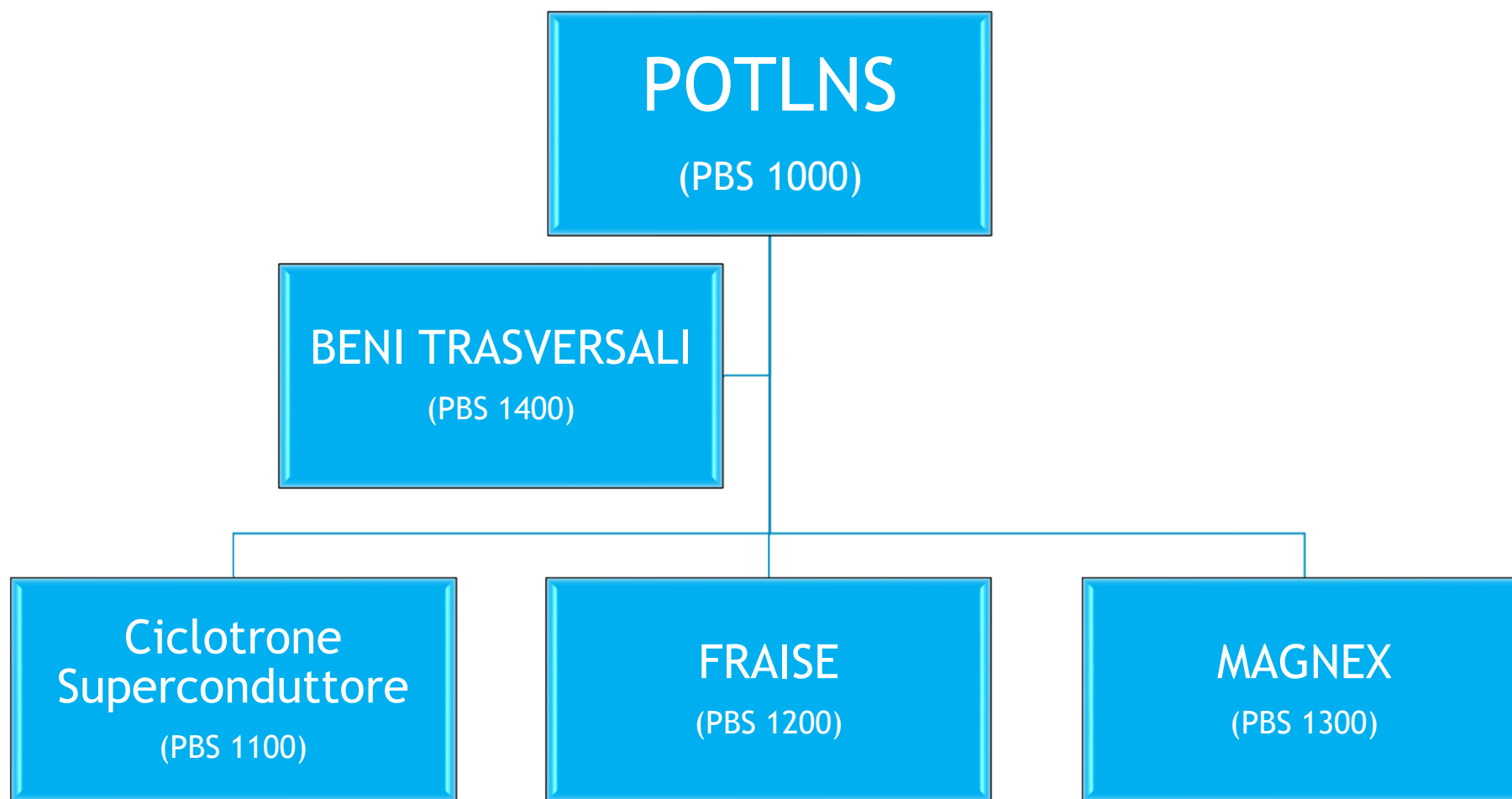
2023

- By the end of the year first beam extracted

«rules of the game»

- *What is financed?*
 - ✓ *Yes, purchase of asset called «Beni» (goods);*
 - ✓ *NO, services;*
 - ✓ *NO, construction work;*
 - ✓ *NO, manpower.*
- *How much is the funding?*
 - ✓ *The limit was set at **20M€***
- *How long will the project last?*
 - ✓ ***32 months** from the signing of the contract*
- *How should the project be organized?*
 - ✓ *Subprojects called «OR»;*
 - ✓ *for each OR must be associated some Beni;*
 - ✓ *The Project has a Project Leader;*
 - ✓ *Each OR has a Scientific Director;*
 - ✓ *The Project has an Administrative Director.*
- *How should project costs and times be estimated?*
 - ✓ *The rules for submitting the PON require the presentation of proof of costs (informal offers), including a planning scheme.*

General PBS adapted to the PON submission scheme

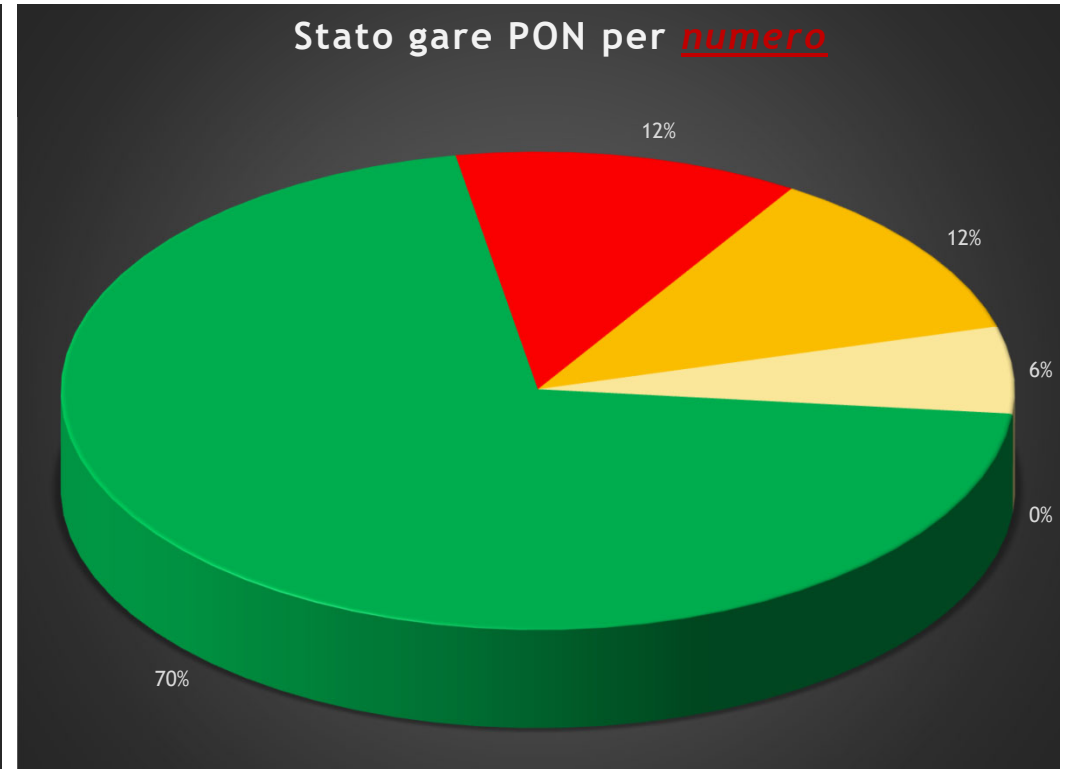
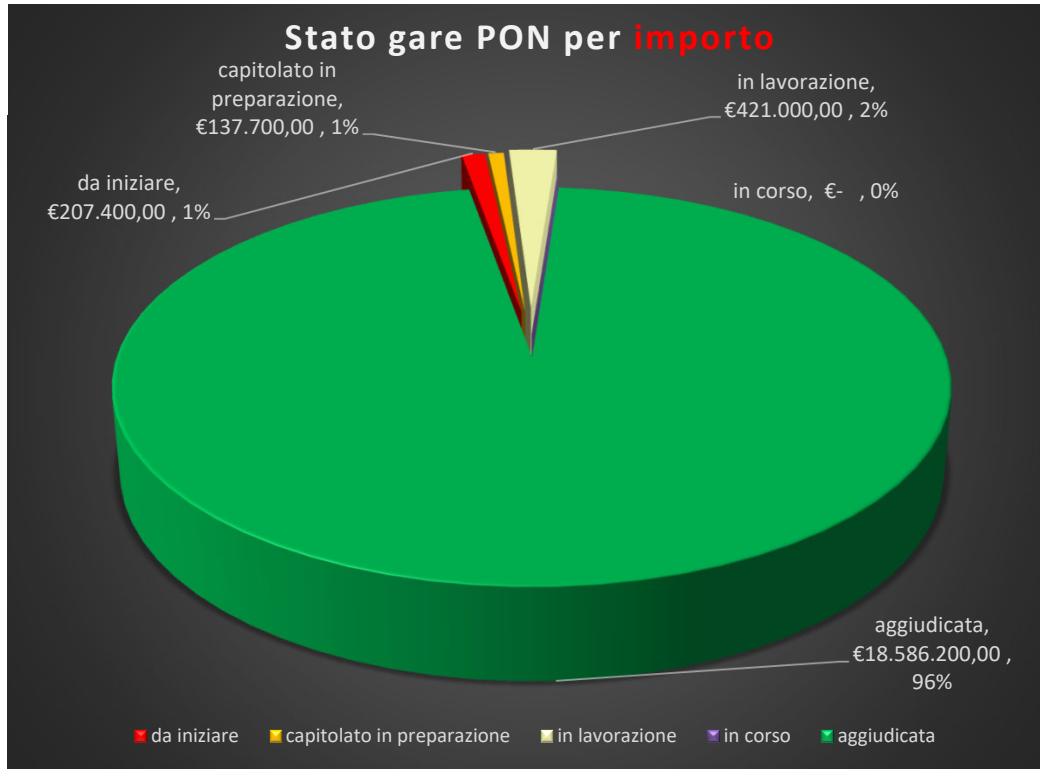


PON tenders status

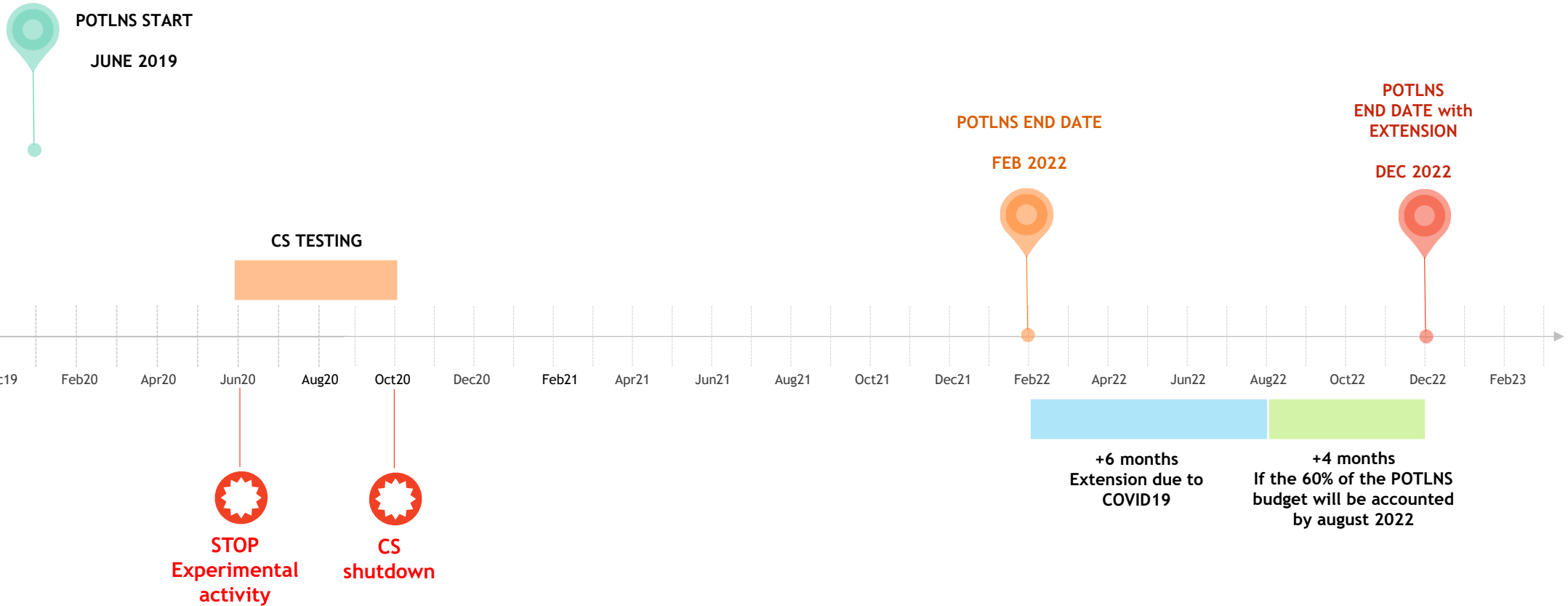
Stato	Nome breve del bene	data prevista di stipula contratto	data prevista di consegna	stato vs previsione
aggiudicata	Magnete superconduttore (PBS 1101)	nov-19	lug-22	In time
aggiudicata	Liner (PBS 1102)	gen-21	gen-22	In time
da iniziare	DEE - coni (PBS 1103)	set-21	gen-22	
da iniziare	Canali magnetici (PBS 1104)			Overdue
capitolato in preparazione	Movimentazioni (PBS 1105)	mar-21	dic-21	Overdue
aggiudicata	Stripper (PBS 1106)	lug-20	apr-22	In time
aggiudicata	Linea di estrazione (PBS 1107)	lug-20	nov-21	In time
aggiudicata	Convertitori TC (PBS 1108)	gen-21	set-21	In time
aggiudicata	Linea FRAISE (PBS 1201)	lug-20	nov-21	In time
aggiudicata	Schermature FRAISE (PBS 1202)	giu-21	feb-22	In time
aggiudicata	Linea MAGNEX (PBS 1301)	lug-20	nov-21	In time
aggiudicata	Schermature MAGNEX (PBS 1302)	giu-21	feb-22	In time
aggiudicata	Convertitori MAGNEX (PBS 1303)	gen-21	mag-22	In time
capitolato in preparazione	Pozzo di spegnimento (PBS 1304)			In time
aggiudicata	Diagnostica (PBS 1401)	ago-21	mag-22	In time
aggiudicata	Impianto acqua (PBS 1402)	mar-21	lug-21	In time
in lavorazione	Monitor radiazioni (PBS 1403)	mar-21	dic-21	In time

stato	importo	quantità
da iniziare	207.400,00 €	2
capitolato in preparazione	137.700,00 €	2
in lavorazione	421.000,00 €	1
in corso	- €	0
aggiudicata	18.586.200,00 €	12
	19.352.300,00 €	17

dashboard PON tenders status



POTLNS Master Schedule



POTLNS Master Schedule

Dismantled:

- AISHA
- KM3NET
- ESS



Dismantled:

- 0 GRADI
- VECCHIA DISTRIBUZIONE
- MAGNEX

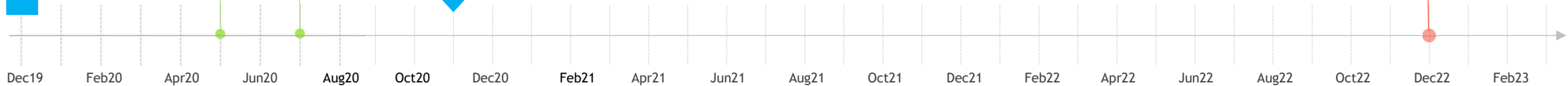


POTLNS
END DATE with
EXTENSION

DEC 2022

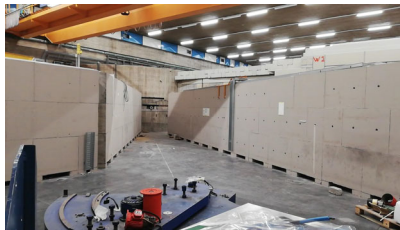


Beam line dismantling and removal



Dismantled:

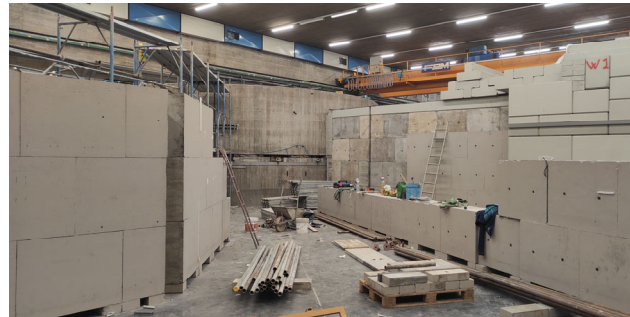
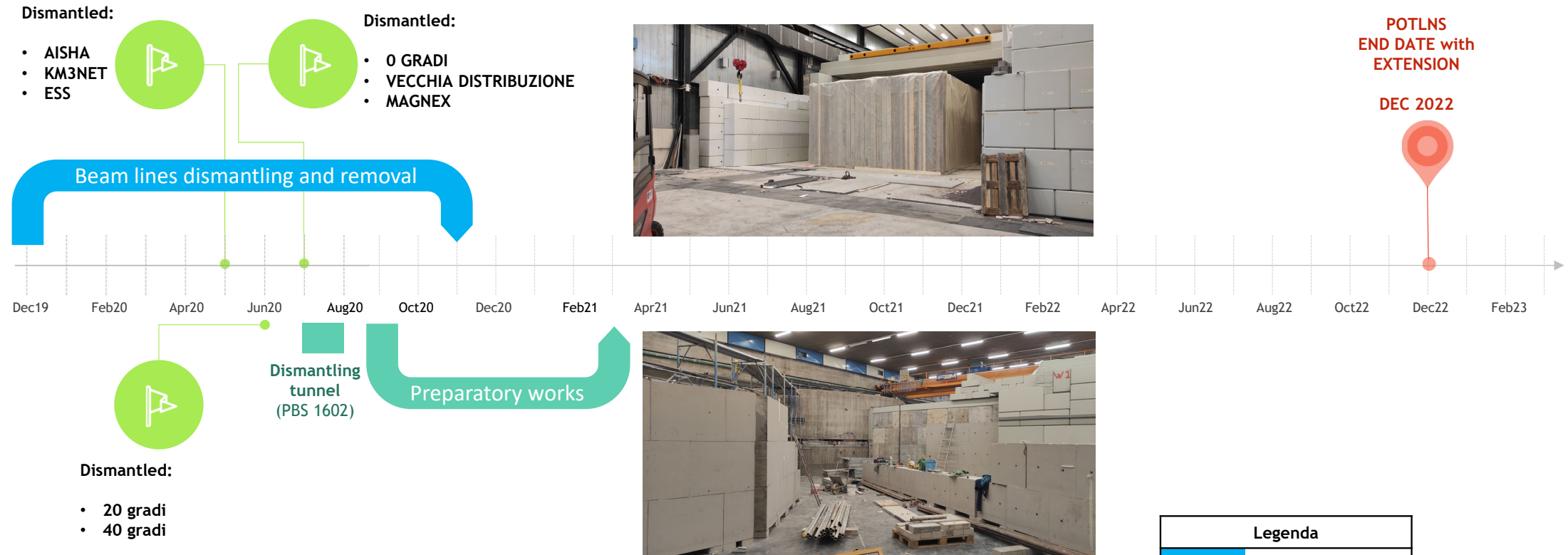
- 20 gradi
- 40 gradi



Legenda

	LNS Personnel
	External company

POTLNS Master Schedule



Legenda	
	LNS Personnel
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POTLNS Master Schedule



POTLNS
END DATE with
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DEC 2022



Dismantled:

- AISHA
- KM3NET
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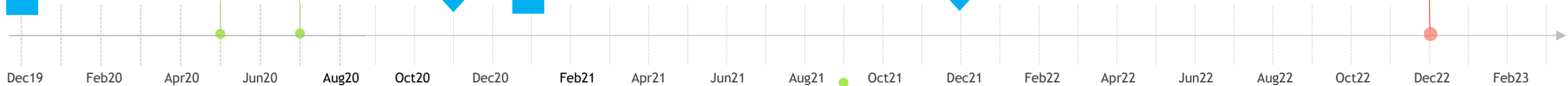


Dismantled:

- 0 GRADI
- VECCHIA DISTRIBUZIONE
- MAGNEX

Beam lines dismantling and removal

CS dismantling



Dismantling
tunnel
(PBS 1602)

Preparatory works

Dismantled:

- 20 gradi
- 40 gradi

Upper RF cavities
dismantled

Upper CS ring
dismantled

CS cryostat
dismantled

Central &
lower CS ring
dismantled

Upper CS pole
dismantled

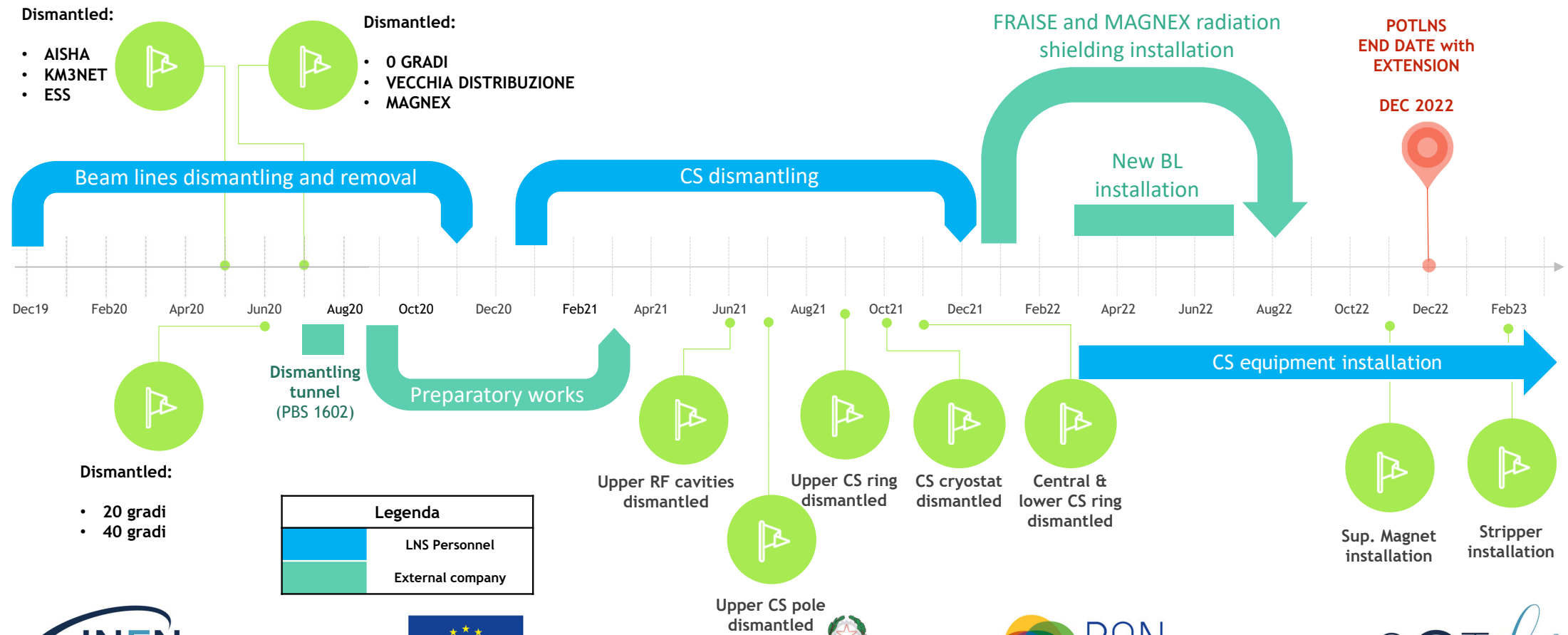


Legenda

	LNS Personnel
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POTLNS Master Schedule



Conclusion

- *By July 2021 the contracts for 96% of the PON tenders have been signed;*
- *INFN is now focusing on the only two large tenders remaining (extra PON);*
- *The sub projects, excluding the superconductive magnet are about on time and, in any case, do not represent a bottle neck for the main project;*
- *A big issue is currently the superconductive magnet delivery. INFN is putting the maximum effort to reduce the scheduled delay*
- *At the moment, is possible to estimate the first extracted and delivered beam for user by the end of 2023*