#innovacion #ayudascdti #asesoramiento #internacionalizacion

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Innovation procurement

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CDTI: who we are





CDTI-E.P.E. is a Business Public Entity under the **Ministry of Science**, **Innovation and Universities** that promotes **innovation and technological development** of Spanish companies.





Innovation Procurement at CDTI: What do we do?





Innovation Procurement

The aim is to **boost innovation** from the demand side (public sector). **CDTI Innovation** plays a crucial role as enhancer accelerating Business R&D to close the technological gap of those solutions whose technology is not yet near-to-the-market but could be achieved by financing R&D activities

PROS



Public Entities: modernization

Public entities adquire first hand innovative productos or services taht meet their needs (early adopters) to fase overcoming challenges that are not reachable in the market

• Companies

Provides a real testing environemnt for technology validation that would serve to obtain a first customer reference and gain international leadership in new markets.



Innovation Procurement Types (I)

Pre-Commercial Procurement (PCP)

- R&D services' purcharse for pre-operational prototype development (>50% of the contract)
- Buyers do not reserve IPR for thesselves). Risks and benefits shared with developer.
- No under Spanish Public Procurement (LCSP (art. 8)), but maintains it's main principles: publicity, concurrency, equality, confidentiality, trnasparecy and no discrimmination principles
- TRL: 4-7 (validation inlaboratoty-precommercial validation)

TRL: Technology Readiness Levels referring technology maturity level

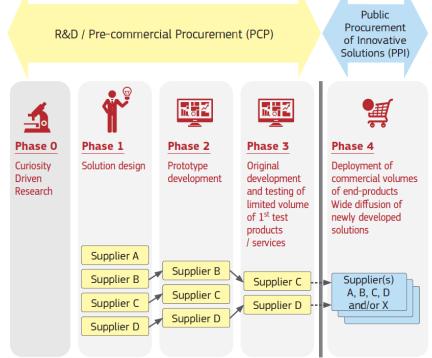
Public Procurement of Innovative Solutions (PPI)

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- Procurement of innovative solutions that are nearly or already in small quantity on the market and don't need new research and development (R&D).
- Implies new or improved technology development
- Under Public Procurement Law
- TRL: 7-8 (close to market, more mature technology)



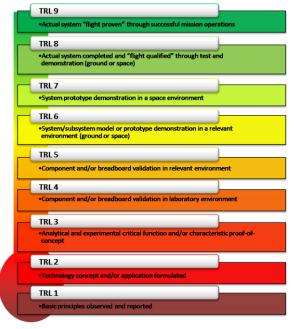
Innovation Procurement Types (II)



Innovation Procurement. The Power of the Public purse. EU Funded projects in the ICT domain. Ec 20221

TRL: 4-7

TRL: 7-8

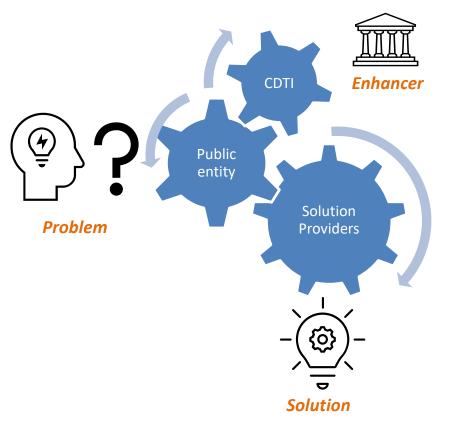


TRL: technology readiness level. NASA



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PCP GOVERNANCE in CDTI



- El CDTI acts as **R&D services tender (buyer**) for techological validator/prototype development.
- Market non-existing technology development (TRL 4-5 a 6-7).

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- Technology demanded by the rest of Public Entities, who act as validators in real environment.
- Developed prototypes are transferred to validator Public Entities without any cost.

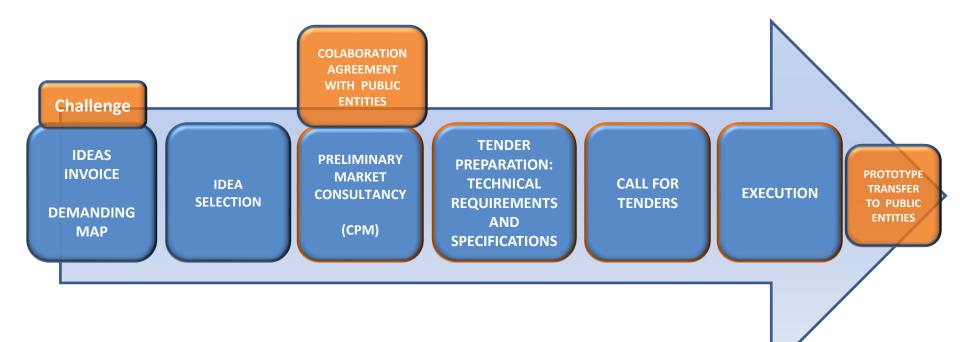


PCP Process





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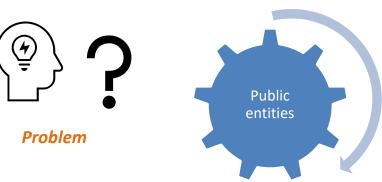




- COMPROMISE of DEMANDING INSTITUTIONS
- IMPACT
- SCOPE
- TECHNOLOGIC NOVELTY
- AVAILABLE FUNDS
- PROTOTYPE LOCALIZATION (REGION)







COLABORATION AGREEMENT WITH PUBLIC ENTITIES

PRELIMINARY MARKET CONSULTANCY

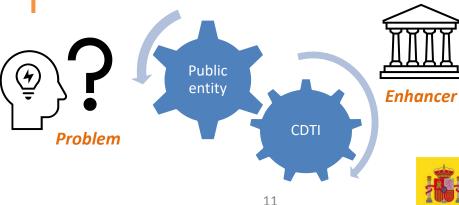
(CPM)

- Provided in art. 115 of the LCSP
- Non-binding participation
- State of the art-technology surveill
- Demonstrate industry interest
- Identify strengths, weaknesses, and partnership needs
- Functionalities, requirements and characteristic orientation towards potential solution needs
- Public Results Report





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CALL FOR TENDERS

ADMINISTRATIVE CLAUSES

- Subject, Funds, Maximun tender Budget, Execution period TECHNICAL SOLVENCY ECONOMIC SOLVENCY GUARANTEE, IPR
- AWARD CRITERIA
- 80% non assessable by formulas (technical report)
- 20% assesable by formulas
 - Economic offer
 - Economic returns for CDTI

TECHNICAL REQUIREMENTS

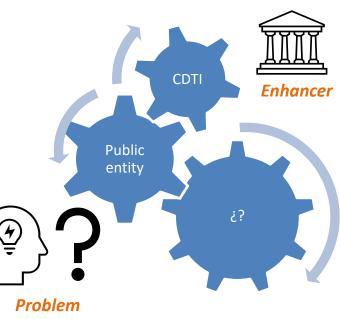
Technical functionalities, characteristics, requirements...

SPECIAL CONDITIONS: (DNSH, OTHERS)



•	Publicaciones	Perfi Contratante	Empresas	Organismos Públicos	Verificar CSV	Datos abiertos
Dealer of	Little Perifies Perifi del Contratante Documentos Littlexexexes Contratos Menores Encargos a medios propios Consultas preliminares					
remi de Contratante documentos contratos Menores encargos a mesos propos Consultas premivanes						
Admin	Administración		Centro para el Desarrollo Tecnológico y la Innovación E.P.E.			
4	Órgano de Contratación			Dirección General del Centro para el Desarrollo Tecnológico y la Innovación, E.P.E.		



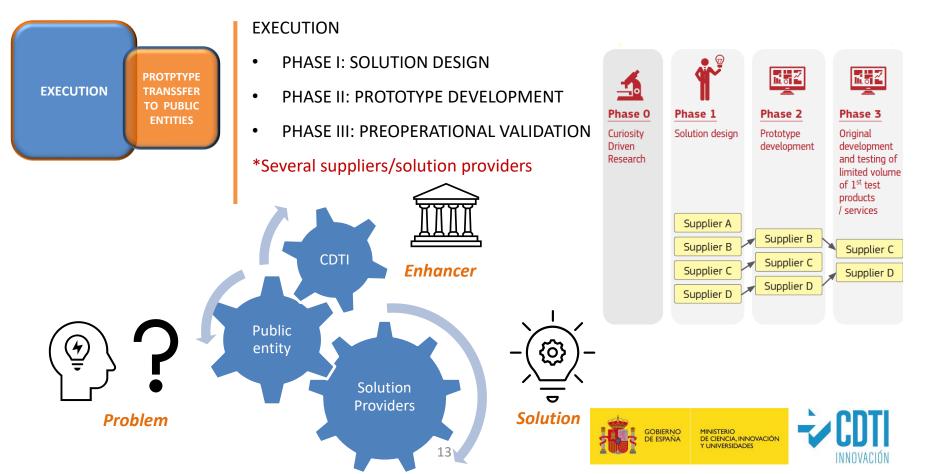


GOBIERNO

DE ESPAÑA

MINISTERIO DE CIENCIA, INNOVACIÓN

Solution¿?



PCP GOOD PRACTICES IN CDTI

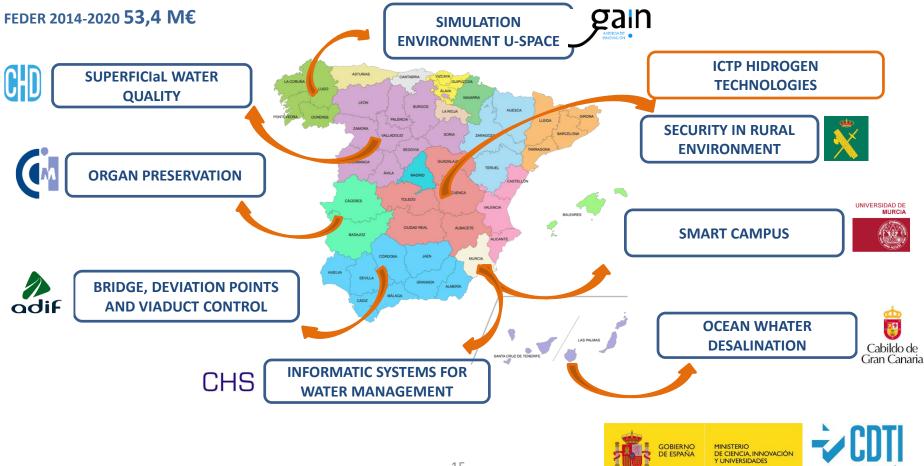




FINISHED PCPS

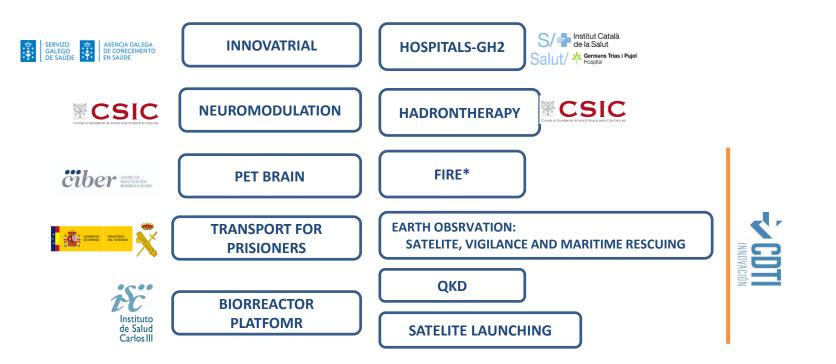
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INNOVACION



PCPS IN PROGRESS IN CDTI

MRR, FEDER 2021-2027 y CDTI cofinancing





COMING PCPS IN CDTI

MRR, FEDER 2021-2027 y CDTI cofinancing



https://www.cdti.es/cpi-iniciativas





HADRONTERAPY CHALLENGE





TECHNICAL CLAUSES

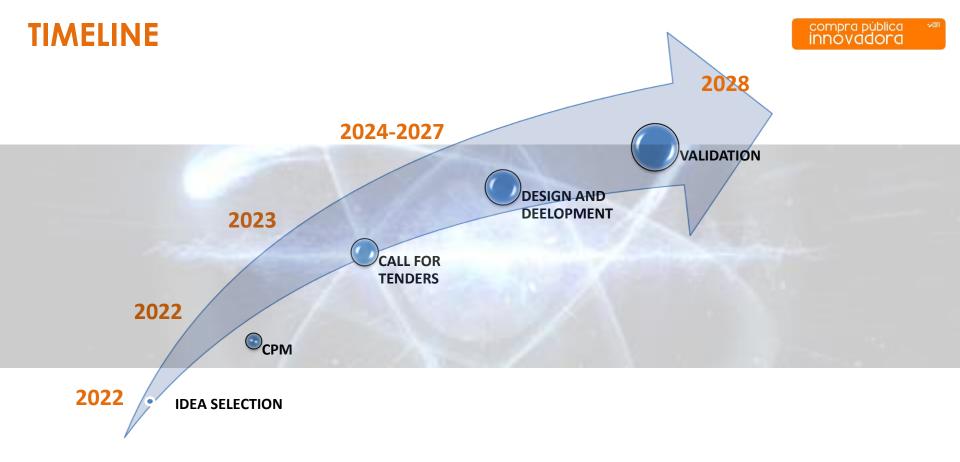
State of art		society. New therapies such as protontherapy have emerged. Among therapy would offer a considerable dosiometric optimitation and a			
Needs detected	 Equipment simplification: a more compact linear Acceleratorfor hospital space restrictions and more economical. Increase radiation eficacy in each sesión, reducing number of sesions for each patient. Increase precisión in each radiation sesión, avoiding second effects to adyacent tissues and matrices. 				
Challenges	Desing, development and integration of a compact Accelerator for radiobiological studies for hadronic	t ion C6+ inyector of at least 10MeV/nucleon energy based in a linear treatment.			
General Specifications	Type of equipment Ion	Compact LINAC Carbon (C ⁶⁺)			
	Repetition	200-500 Hz			
	Pulse length	~5 micro-seg.			
	Final energy	≥ 10 MeV/nucleón			
	Corriente pico del haz	≥10 micro-A			
	Maximum length	~30 m			





Características generales de la contratación (I)

Funds	FEDER 2021-27 and CDTI Innovation.					
Object	R&D services for a compact linear Accelerator for Hadrontherapy use.					
Execution period	55 months					
Public Entity	Consejo Superior de Investigaciones Científicas (CSIC)					
Preoperational validation	CSIC Valencia (Spain)					
Technological demonstrator	Once Phase III has finished, the prototype will remain as a technological demonstrator at CSIC at least 5 years.					
لې Pro	CSIC AVS Image: CSIC AVS Image: CSIC Image: CSIC					







+info sobre programas y ayudas CDTI para proyectos de l+D empresarial e innovación



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