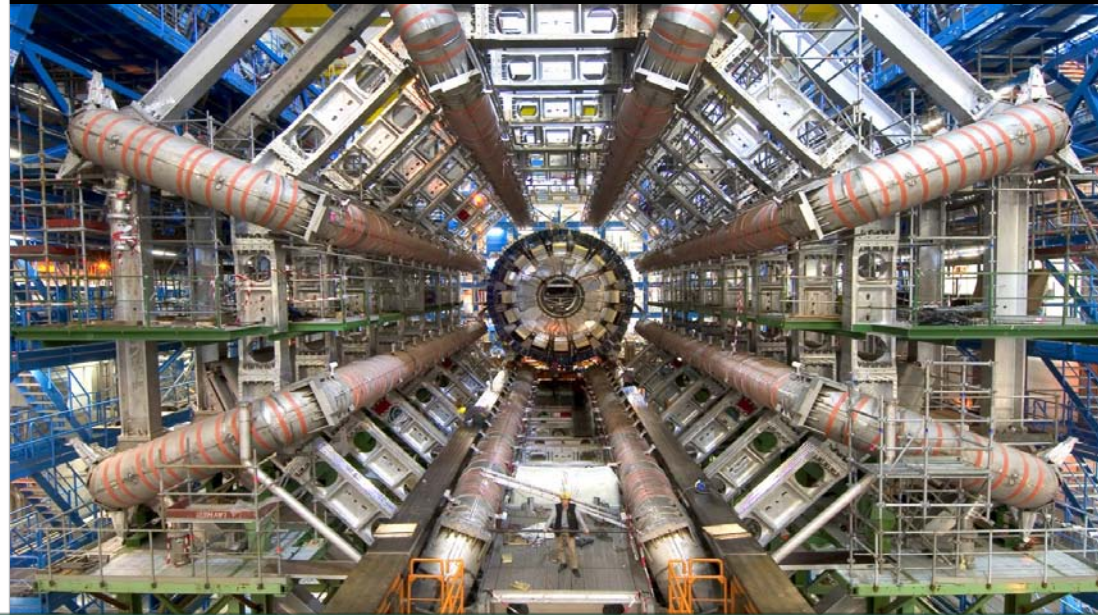
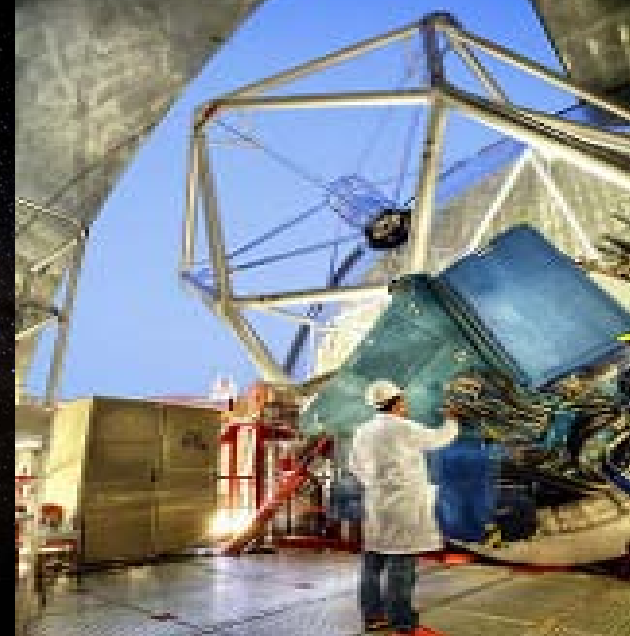
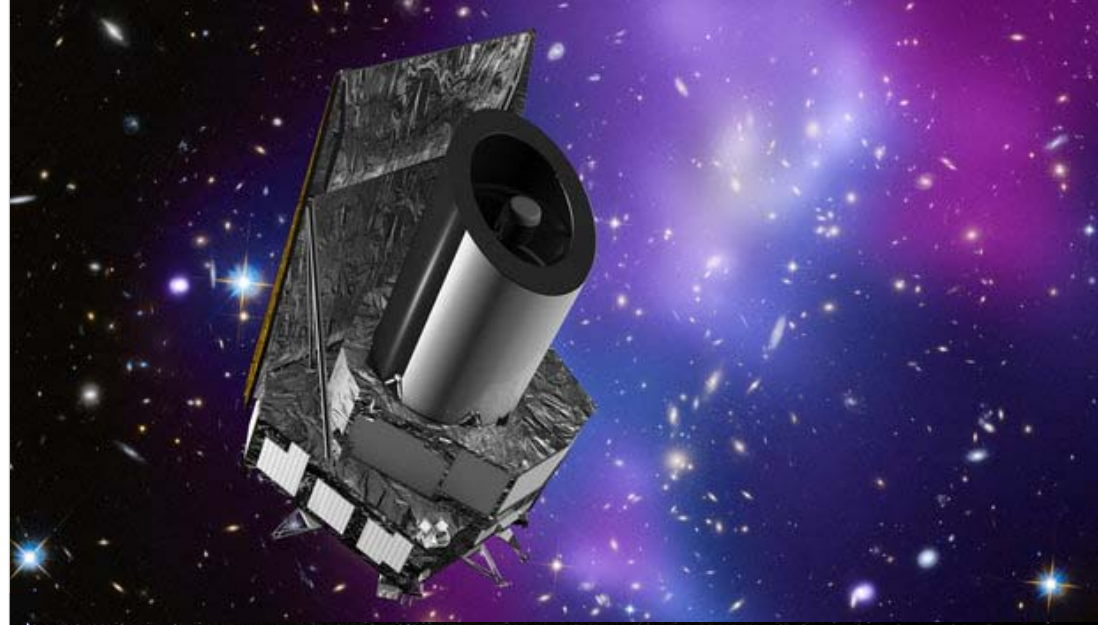


KTT at IFAE



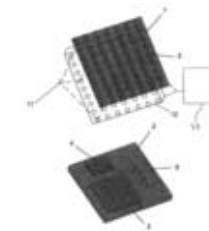
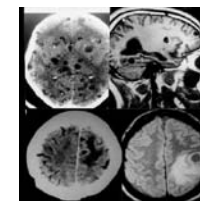
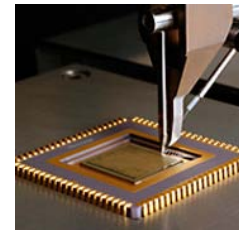
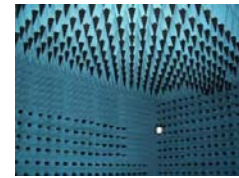
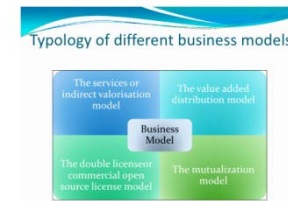
Is my research transferable to society?

- Delivery of Know-how
- Contract Research and Development
- Establishing Joint Ventures
- Setting up Plants, establishing production processes, quality control procedures, etc. on a turnkey basis
- Licensing patents, designs and other forms of IPR
- Collaborative R&D



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Is my research transferable to society?

Overview of TT contracts

List of agreements handled by the Knowledge Transfer Group

Non-disclosure Agreement

Collaborative R&D Agreement

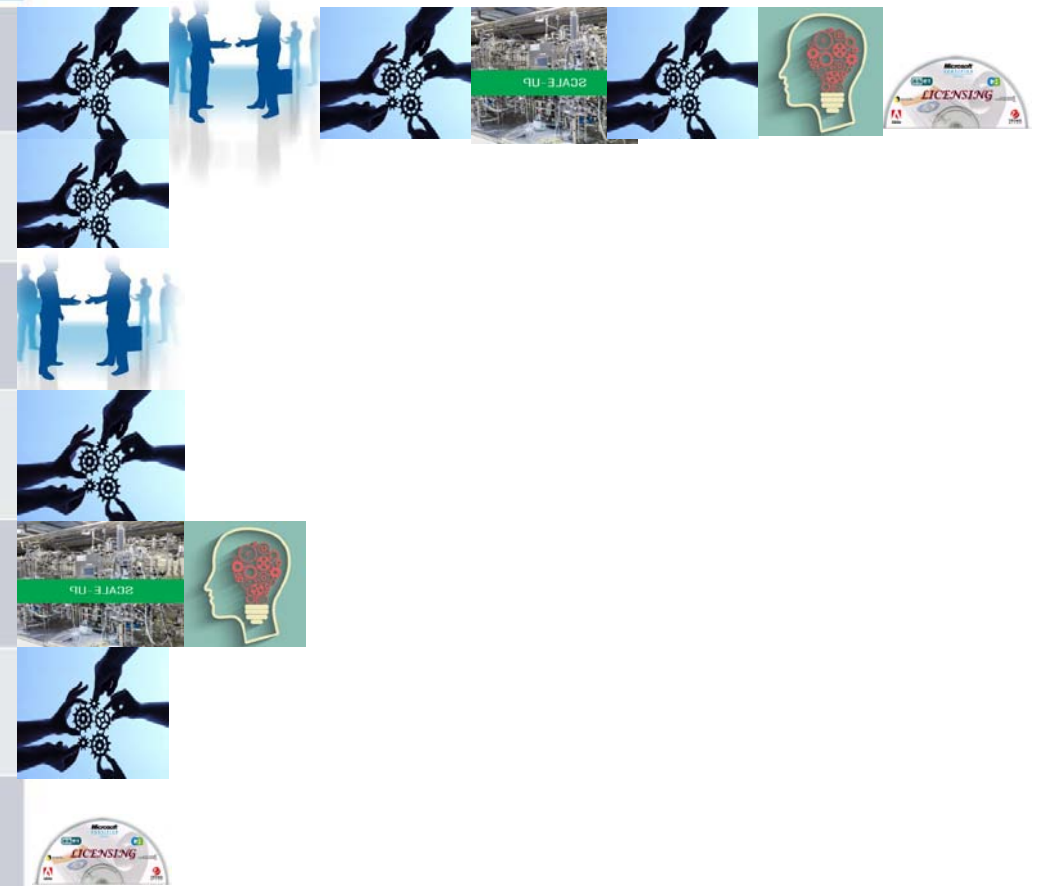
Contract Research Agreement

Joint Ownership Agreement

Consultancy and/or service agreement

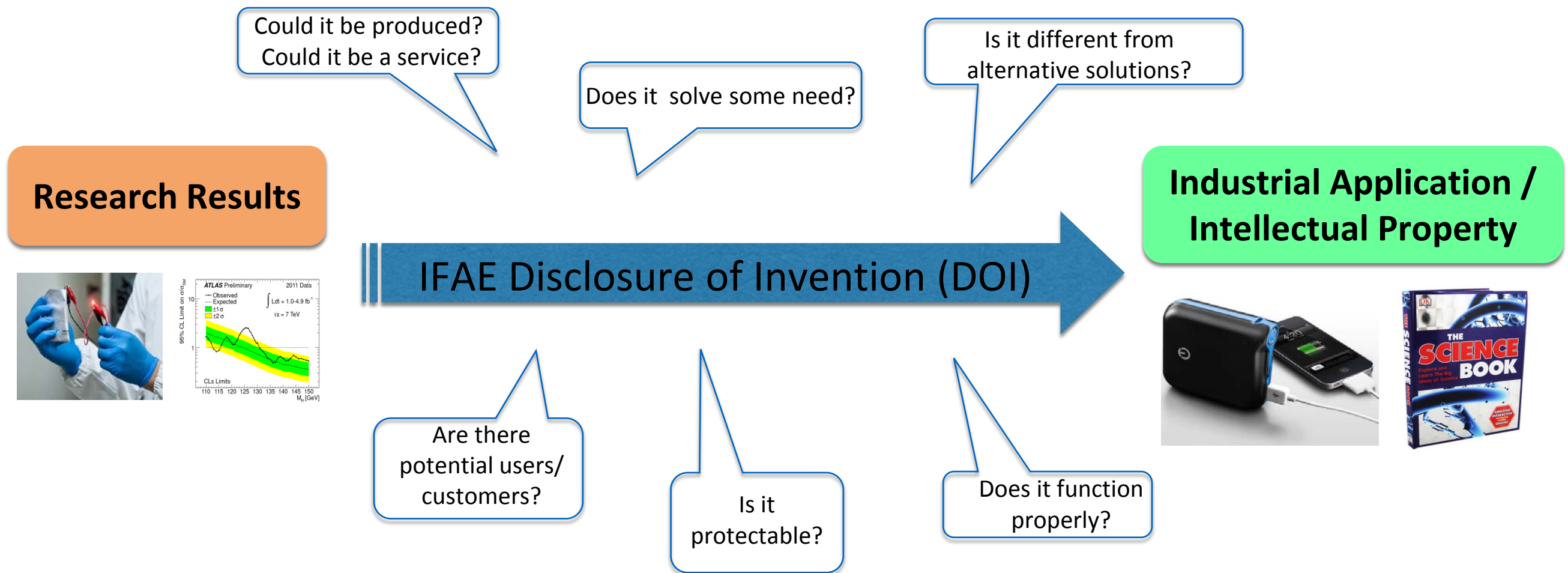
Consortium agreement (IP part)

License Agreement (including software license)



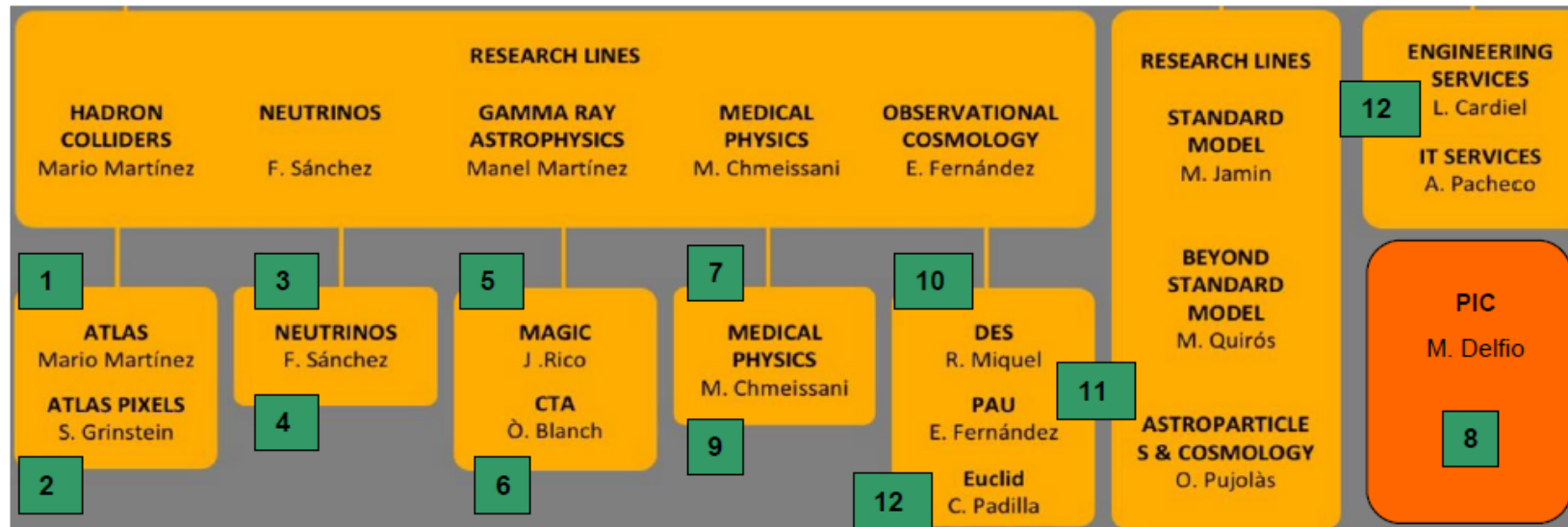
Is my research transferable to society?

Transfer potential evaluation



Is my research transferable to society?

KTT Portfolio



1. Consulting in Particle Detectors Market & Tech
2. HV-CMOS pixel detectors for PET&EM
3. Graphene sensors Readout Electronics
4. Consulting in Particle Collisions Prediction
5. Data Processing Platform for Gamma Ray Experiments
6. Light Trap Cameras for VHE Astronomy
7. Med Imag. Patentsx3
8. Neuroimaging Processing Cloud Platform
9. H.P. X-RayCamera
10. Large wide-field CCD camera
11. Cfiber CCDcamera. LP narrow-band filters.
12. Multisensor Readout (MONTE)

KTT activities by IFAE Areas of Research

		CAT Leading Industrial Sectoral Areas (LISA)						
		Nutrition	Energy & Resources	Industrial Systems	Design	Sustainable Mobility	Health	Culture & Experience
Key Enabling Technologies (KET)	CIT	9,12	11,5	3,5			1,2,8	
	Nanotechnology							
	Photonics	9	4	4,6,10,11		4	1,2,7	
	Advanced Materials	9				10,11	1,2	
	Biotechnology							
	Advanced Manufacturing Technologies	9		3,6		10	1,2,7	

Are my research results patentable?

New scientific or technical idea, and the means of its embodiment or accomplishment. To be called an **invention**, an idea only needs to be proven as workable.

To be called an **innovation**, it must also be replicable at an economical cost, and must satisfy a specific need. That's why only a few inventions lead to innovations because not all of them are economically feasible.

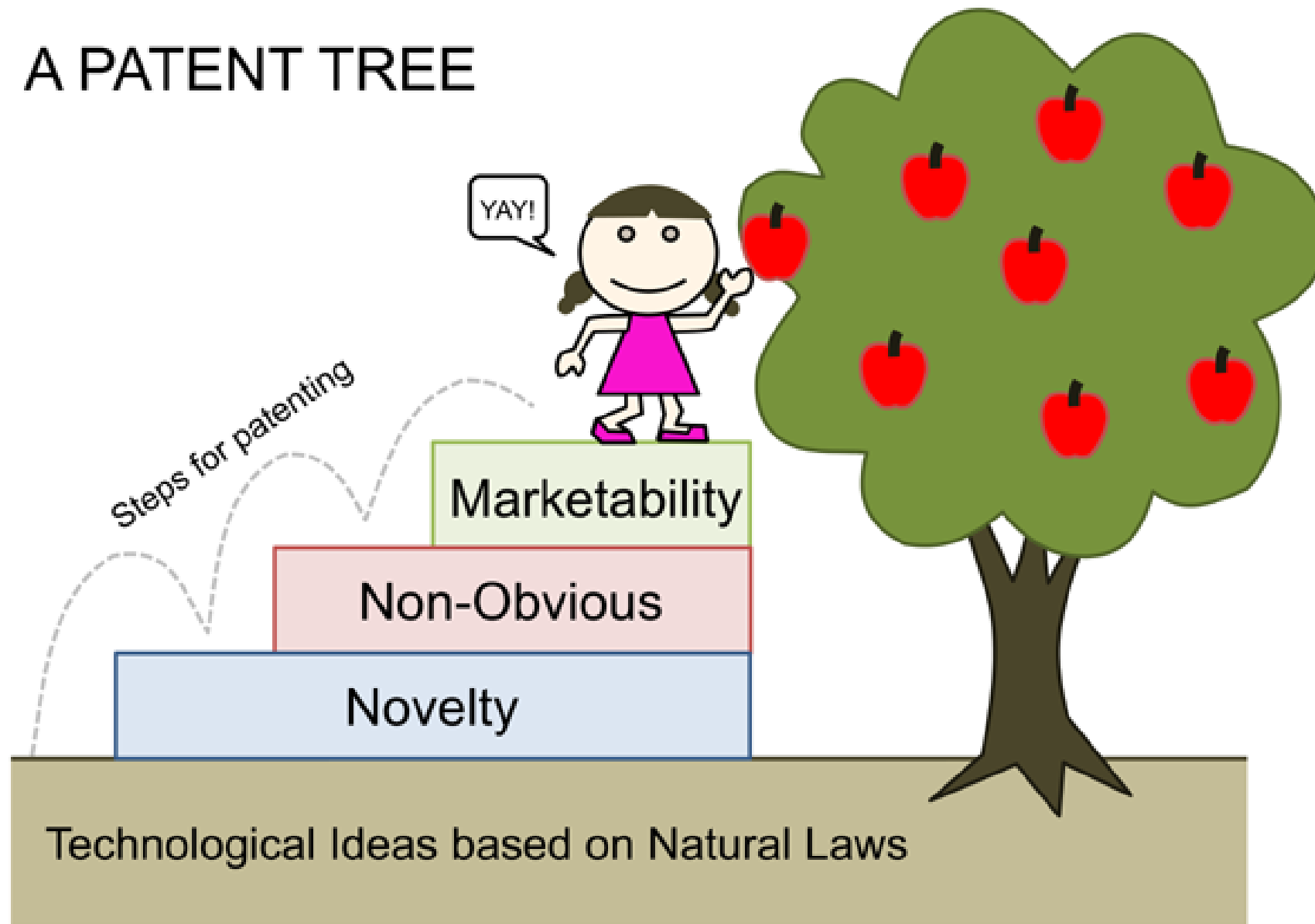


“La primer señal de que estás innovando es que la gente no te entiende.”

Ferran Adrià

Are my research results patentable?

A PATENT TREE



Are my research results patentable?

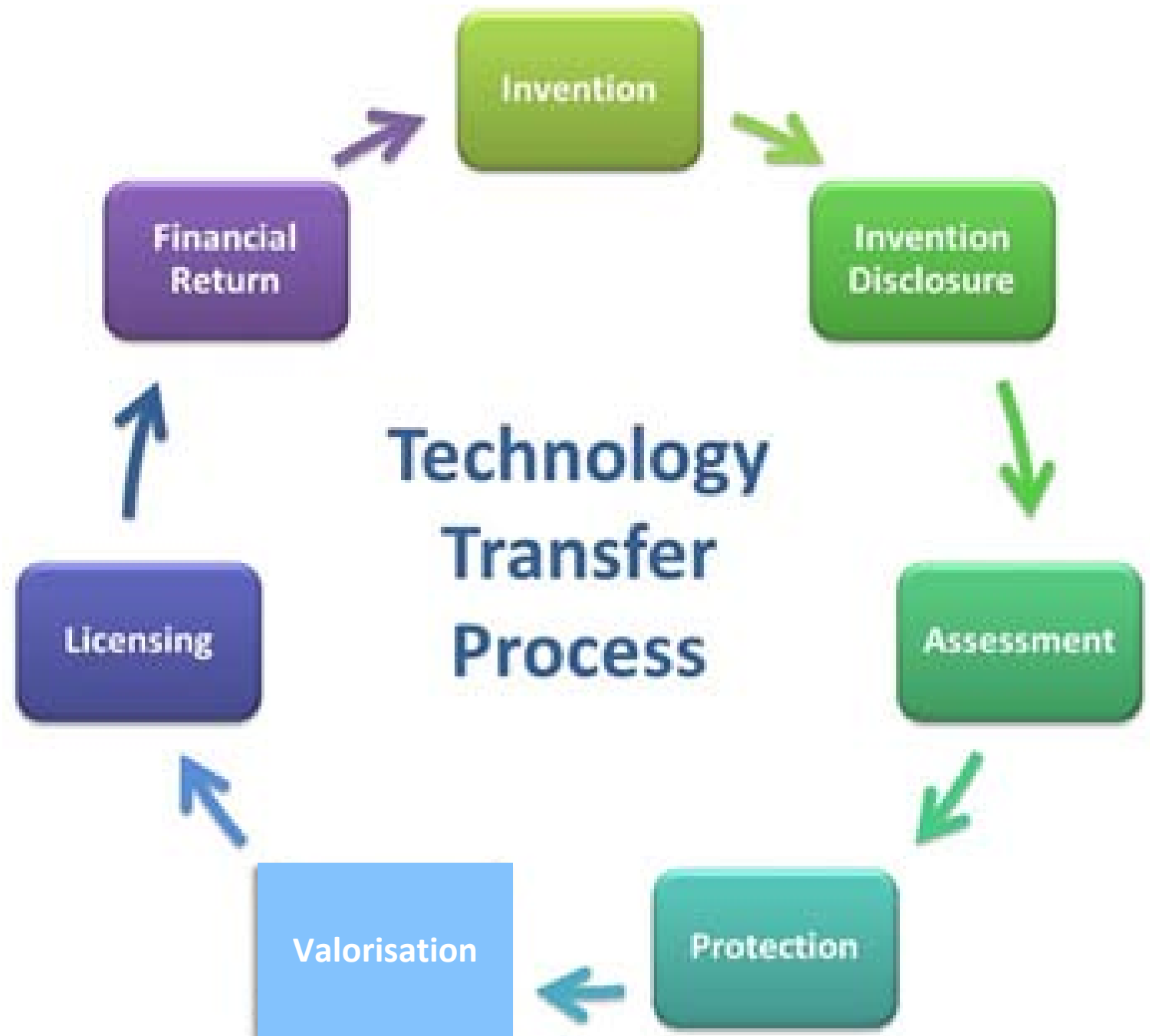
- Basic economic practices or **scientific discoveries or theories** (e.g., hedging, insurance, financial transactions, marketing);
- Basic legal theories (e.g., contracts, dispute resolution, rules of law)
- Mathematical concepts and methods (e.g., **algorithms**, spatial relationships, geometry)
- Literary, artistic or **scientific works**
- Instructing intellectual, game or business activities (e.g., **software**)
- Dada or information presentations

NOT PATENTABLE

Are my research results patentable?

IFAE
Intellectual &
Industrial Policy

KTT
internal
mechanisms



Are my research results patentable?

Research Results and Technology Inventions, made, designed, discovered, developed or created by Researchers and/or Associated Staff, are owned by IFAE.

IFAE recognizes the moral right of the Researchers and Associated Staff, to be acknowledged as inventors or authors, as the case may be, of the Technology Inventions, Creations and Research Results.

Researchers or Associated Staff involved in the generation of Technology Inventions obtained from Research Results are entitled to receive a part of the economic benefit resulting from their commercial exploitation

Ownership

Authorship

Exploitation Rights

Can my basic research solve any societal challenge or market need?

Patent search.

Make sure your idea isn't infringing on someone else's patent. To do that, you should conduct a "preliminary patent search." This step will help ensure that your idea hasn't already been patented. You can either hire an expert to help you or perform this step yourself. (More advice on this later.)



Market research

Define your market and determine how large it is. If it's too small, your product may not be commercially viable.

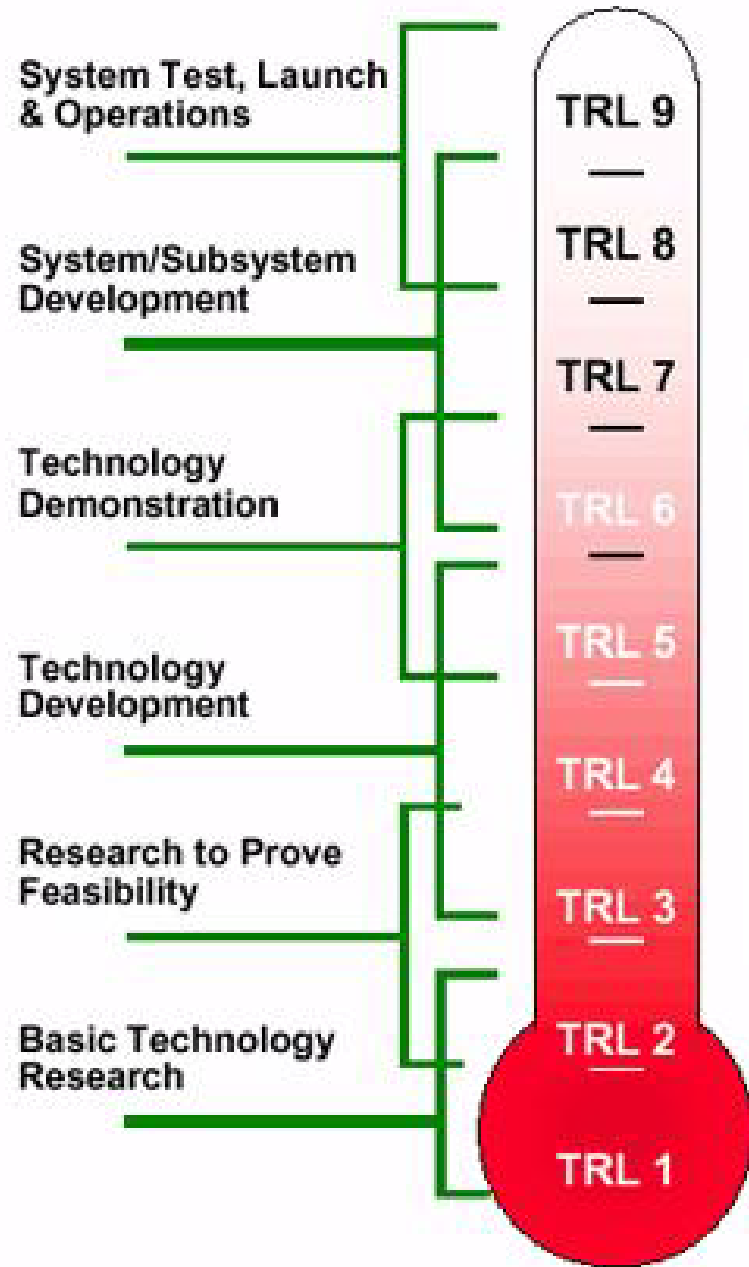


Cost to manufacture

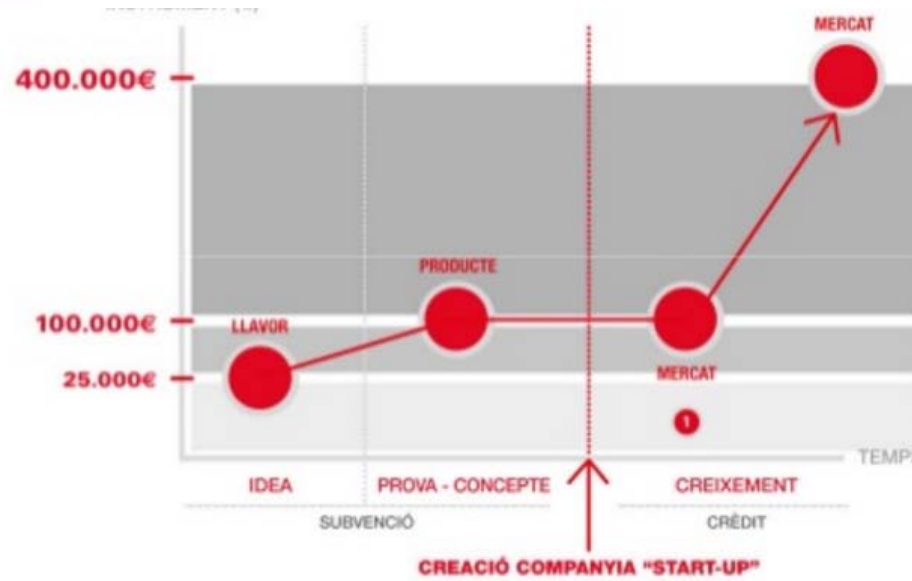
Determine how much it will cost to manufacture your product. If it costs more to make than the market is willing to pay, your invention is just a money pit.



Can my basic research solve any societal challenge or market need?



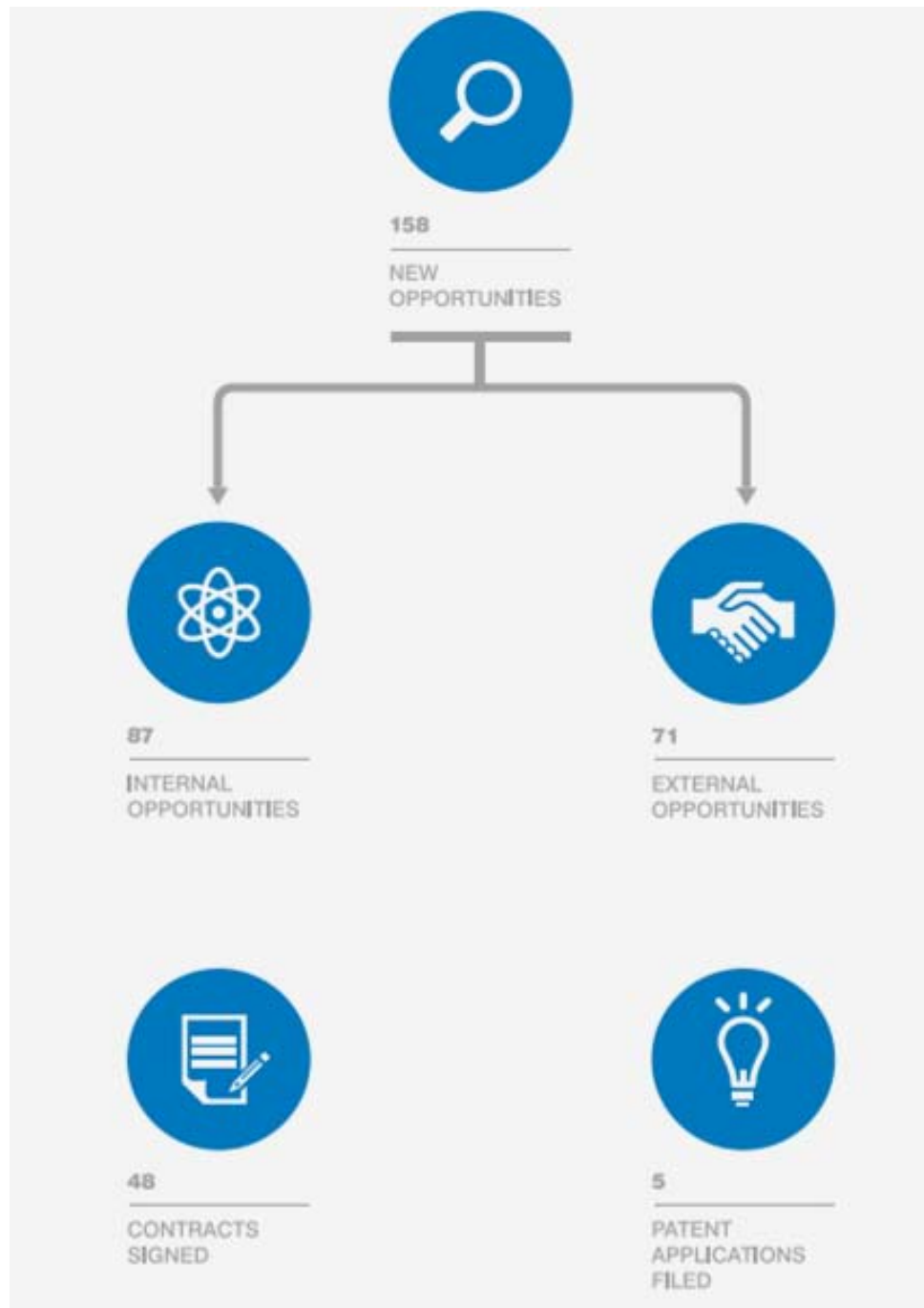
Technology Readiness Level (TRL)



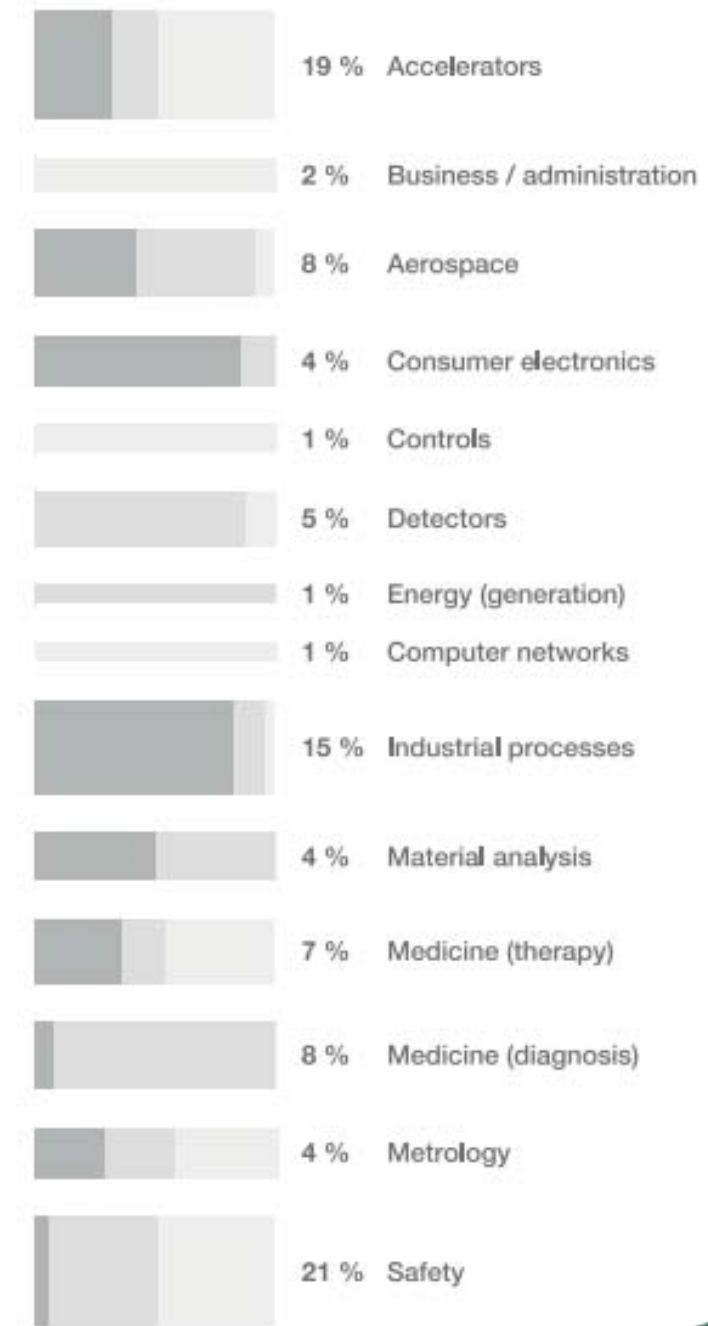
European Research Council
 Established by the European Commission



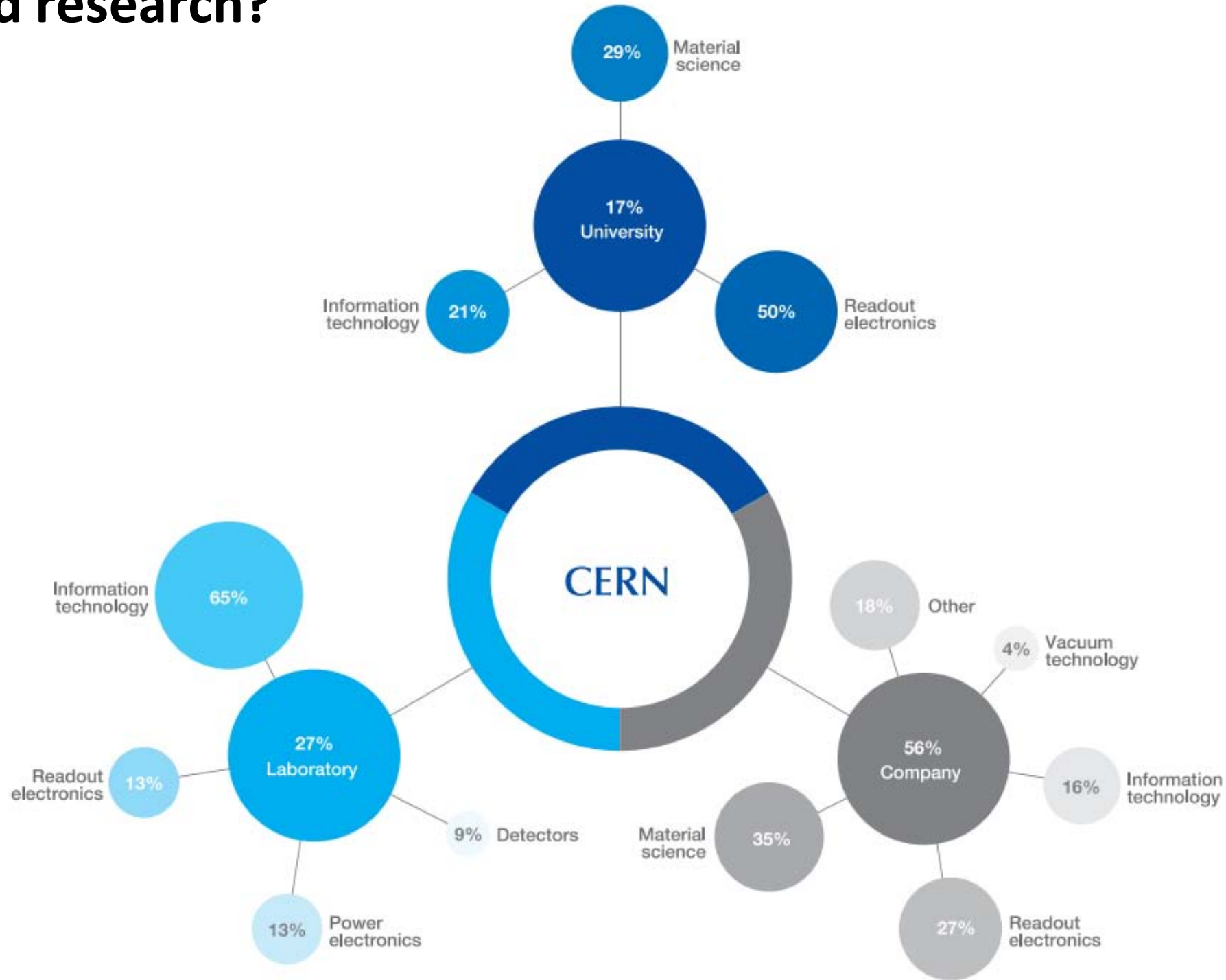
How do big R&D centres attract alternative funds for basic & applied research?



Knowledge and technologies from CERN's three core technology domains – information technology, detectors and accelerators – are transferred across a spectrum of application domains



How do big R&D centres attract alternative funds for basic & applied research?



How do big R&D centres attract alternative funds for basic & applied research?


 ASSOCIACIÓ CATALANA D'UNIVERSITATS PÚBLIQUES

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70%



20%



30 k€/year x doctoral teaching and research staff

9%



1%



How does IFAE attract alternative funds for basic & applied research?

- 5 Industrial Agreements negotiated and signed (mechanical engineering, medical physics, electronics engineering and big data)
 - 6 Technical Services budgeted and executed (mechanical engineering, computing, microelectronics assembly)
 - 1 European Post-Doc research project financed. (H2020 - MSCA-CO-FUND grant) with the collaboration of 5 companies
 - 1 Acción de dinamización 2015 granted (MINECO - CNM, CSIC, IFAE) performing a market survey for the sponsorship of IWORID'16 international workshop
 - 1 Consultancy on business models for CERN valorised technologies in the framework of an European Research Network project (Talent project - MSCA - ITN)
 - 2 European Research & Industry projects submitted (H2020 - RIS3CAT Health) both including public health entities
 - 1 state-of-the art and market research study developed on SiPM for Health Industry
- granted with a Business course sponsored by CRG
- 1 Investment search cooperation agreement arranged (Casa Cresques)



0.4M€



125 K€

