



Elettra Sincrotrone Trieste

Resources to Fund an Innovation System

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Establishing and Maintaining an Innovation Framework
DTU - Technical University of Denmark
11th October 2017



- 400 employees
- 33 beamlines
- 12 support lab
- 5000 hours /year
- more than 1000 Users from more than 50 countries



FERMI and Elettra

AREA Science Park

Established in 1978
1st Italian Technology Park



1978



Now

Public Research Body, under
the control of **MIUR**

Hosts **87 High-Tech R&D Centers**,
helping them to grow.

79 private companies

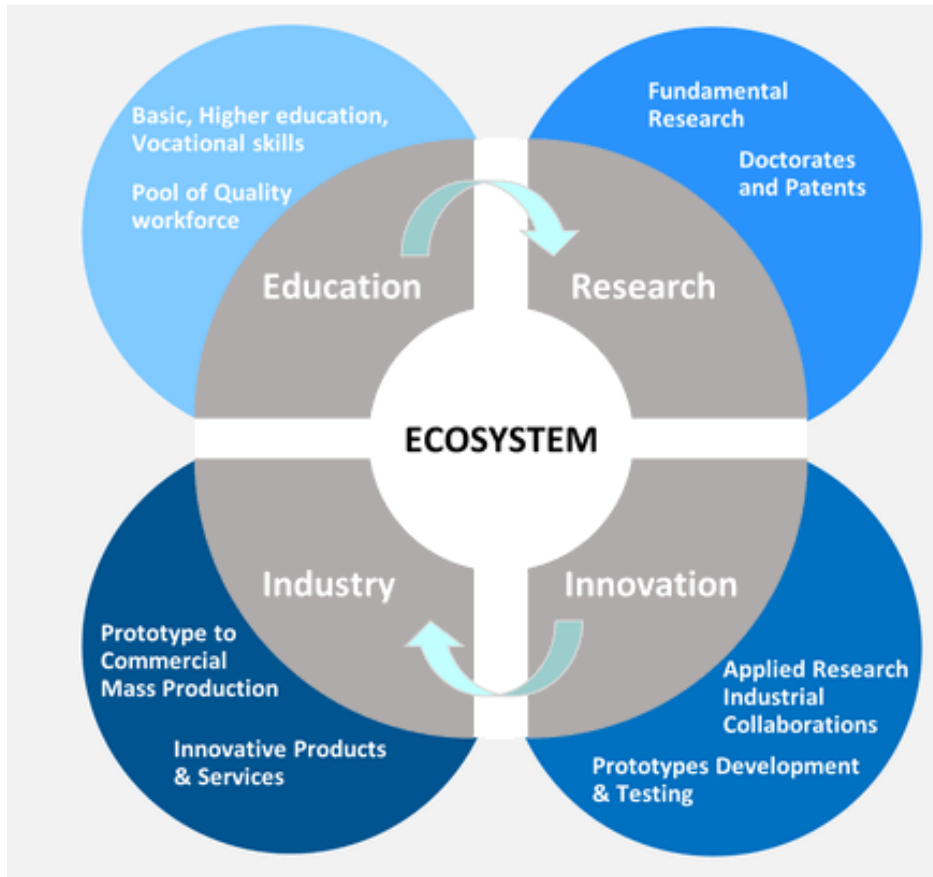
8 public research bodies

3 campuses for R&D activities



Many other Research Centers and Private Companies
are interconnected with AREA and its tenants

Ecosystem for innovation



- ❖ Industrial needs
- ❖ New technologies
- ❖ Research needs



Industrial needs

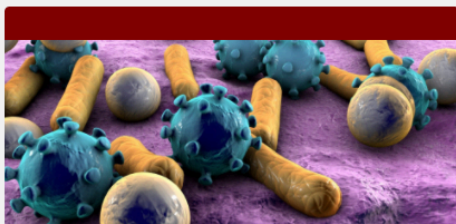


- Specific request from company
- New product/ process for industrial market
- Industrial income for research

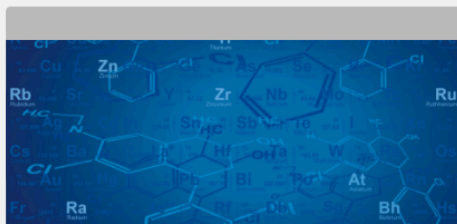
Realizza il tuo progetto di R&S

1. Scegli la tecnologia che ti interessa
2. Candida la tua azienda a un progetto di R&S (entro il 10 giugno)
3. Ricevi un supporto concreto per la sua realizzazione

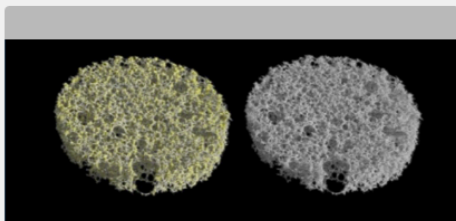
MORE INFO? CONTATTACI



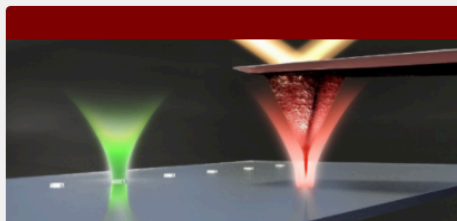
ANALISI DEI PROCESSI BATTERICI (BAC-PRO)
Sensori microelettromeccanici per lo studio dei processi di sopravvivenza, crescita e morte dei batteri.



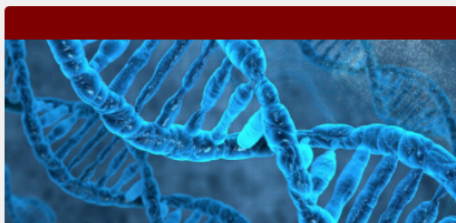
INDAGINE E MAPPATURA DI ELEMENTI CHIMICI AD ALTA RISOLUZIONE SPAZIALE
Electron Spectroscopy for Chemical Analysis (ESCA)



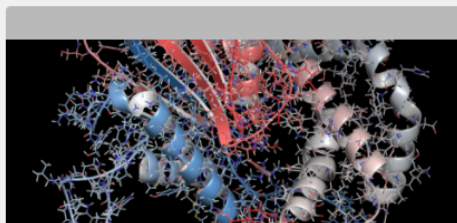
STUDIO IN 3D DELLA STRUTTURA INTERNA DI UN OGGETTO
High Dynamic CT



MICROSCOPIA A FORZA ATOMICA IN AMBIENTE LIQUIDO (OPT-ACT)
Azionamento ottico di cantilever



RICONOSCIMENTO MOLECOLARE
Sensori Elettrochimici Nanostrutturati



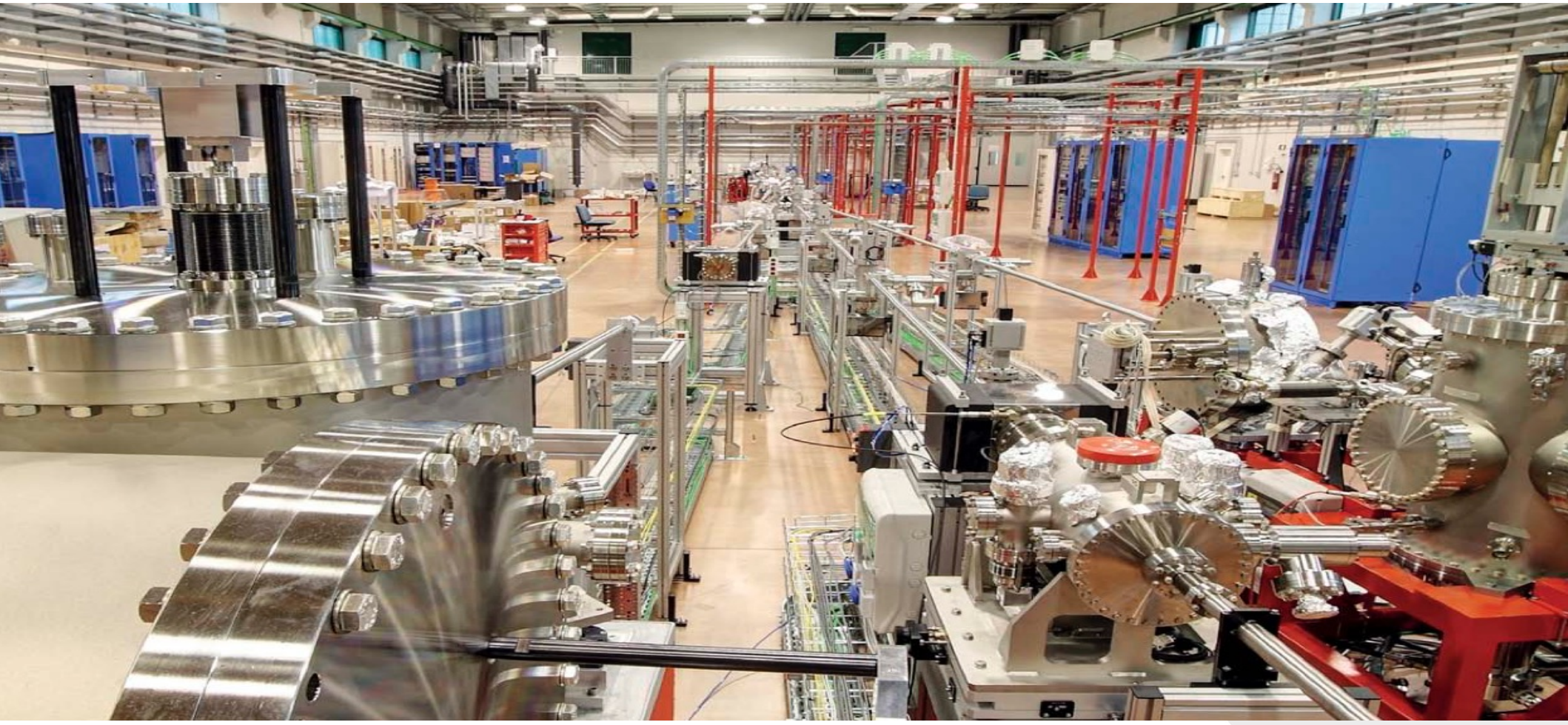
ANALISI DI BIOMARCATORI TUMORALI
Sensore capacitivo multicanale miniaturizzato



- K-H and Technologies
- Tender for the development of new products/processes
- New product for industrial market

Research Needs

- Co-development Research Centers - Industry
- New product for research
- New product for industrial market

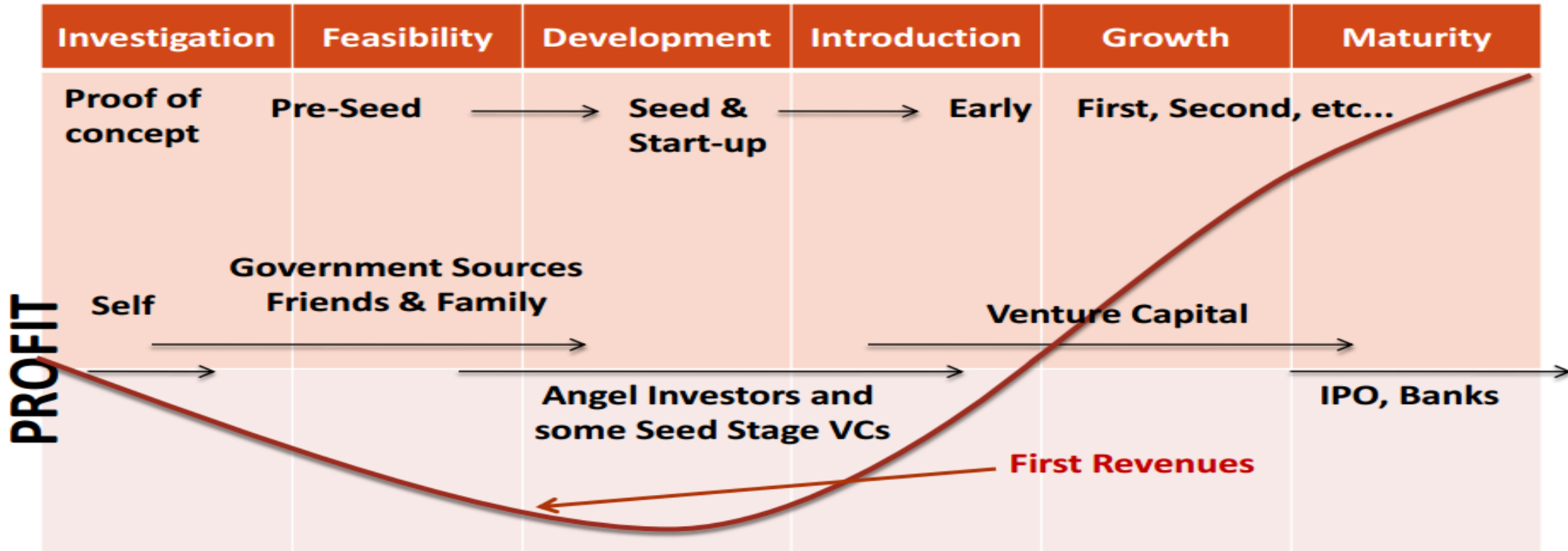


AREA Certified Incubator for Start Up

- ❖ **Technical education and entrepreneurial training**
- ❖ **Dedicated services, mentoring and coaching**
- ❖ **Financial support**
- ❖ **Equipped laboratories and first-class facilities**
- ❖ **Networking, financial and industrial partners**



Start Up Support

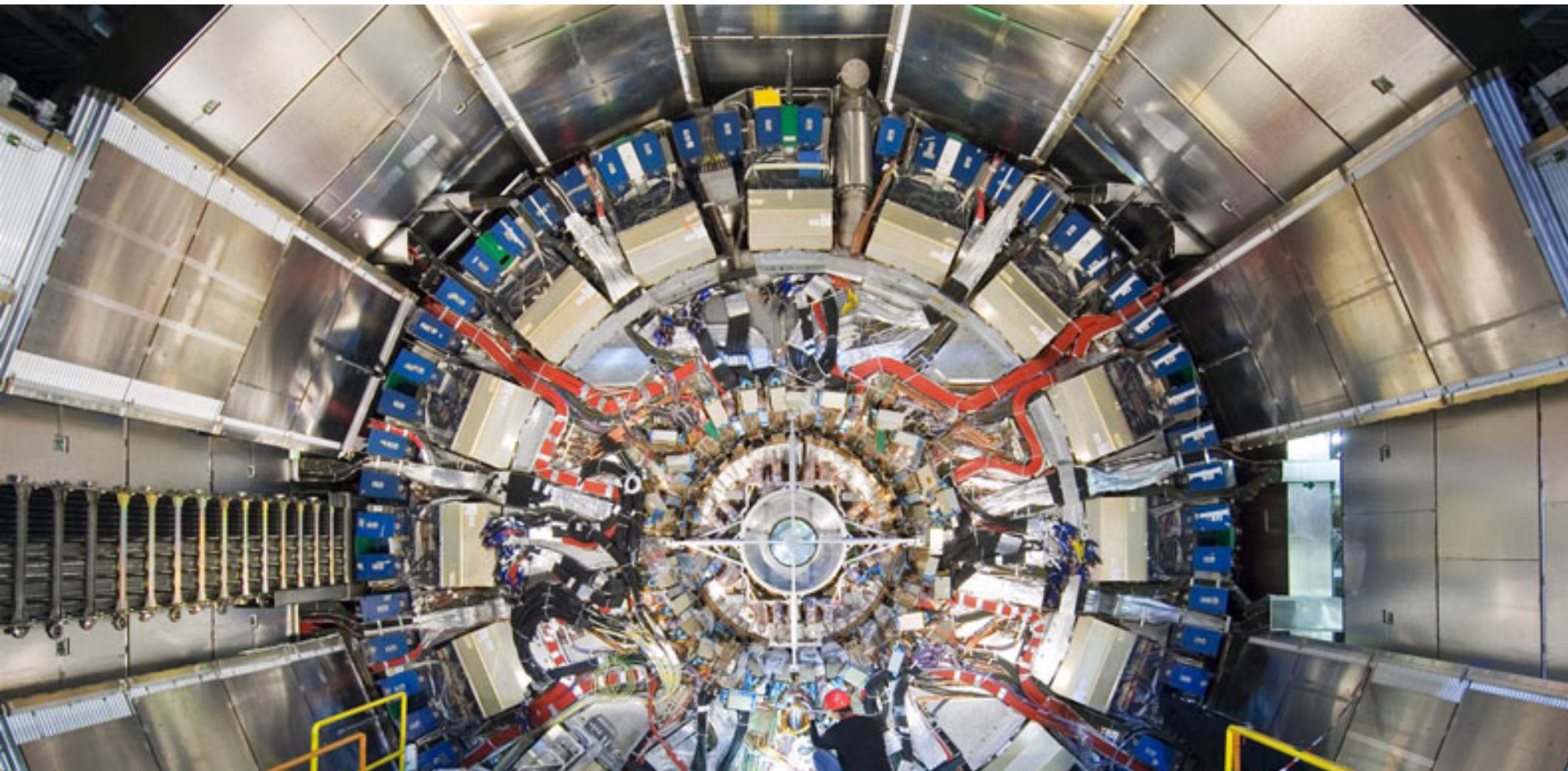


Too many different players to follow the growth of a startup

(Public funding, Business Angels, Venture Capital, Banks, ...)

Creation of a network of "Funders" that "coordinate" their action...

- ✓ Project promoted by CERN
- ✓ Many scientific partners in Europe
- ✓ Giant leap in "Detectors" development
- ✓ The expected impact of this technology is that of WWW on Internet



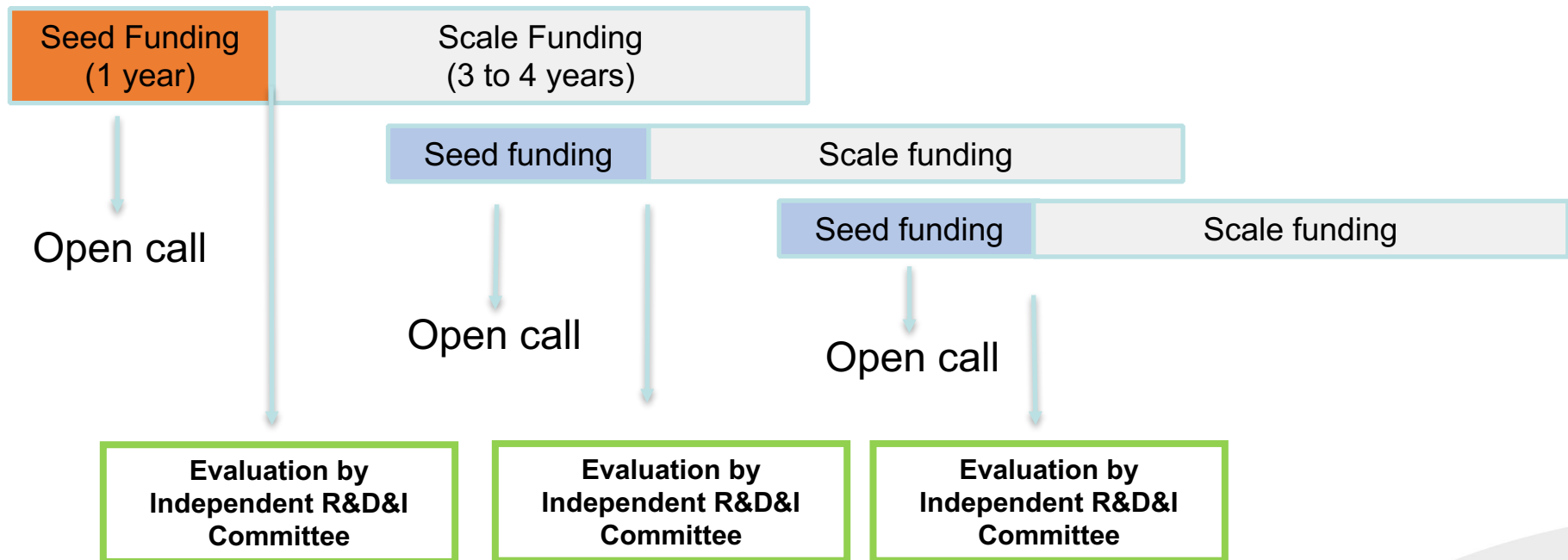
“seed-scale” innovation cycle mechanism

Mini Phase 1 «Flowers»

Large Number of
visionary projects
100k Euros/project

Mini Phase 2 -> Maxi

Small Number of selected
projects
~2 to 4 M Euros/project





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www.elettra.eu