Elettra Sincrotrone Trieste

Modelli vincenti di collaborazione ed interazione tra Infrastruttura ed Industria

Marco Peloi

Responsabile dell'Industrial Liaison Office di Elettra Sincrotrone Trieste

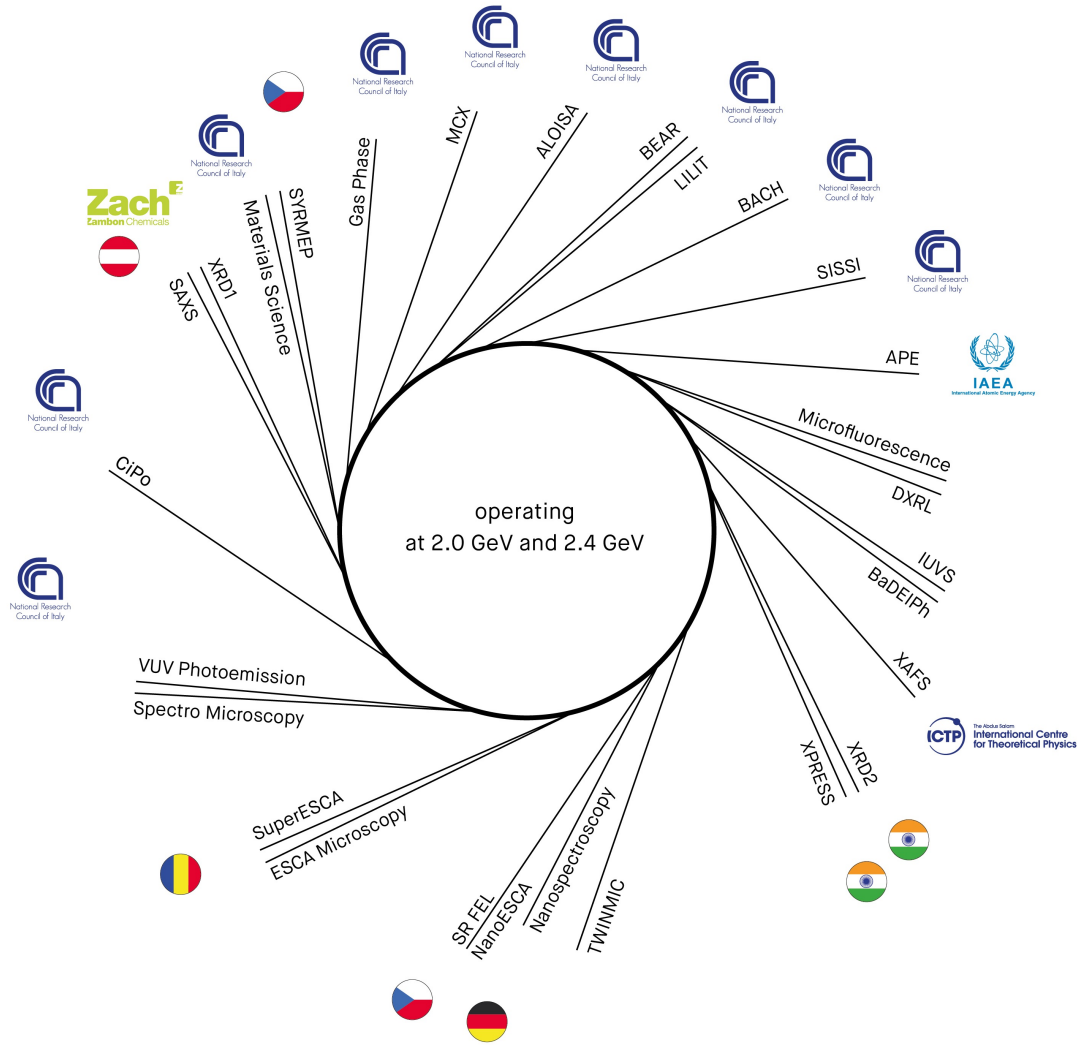
Elettra
Sincrotrone
Trieste

Elettra Sincrotrone Trieste S.C.p.A.

Elettra Sincrotrone Trieste

The Elettra Synchrotron

28 Beamlines and experimental stations



Indian Institute of Science
भारतीय विज्ञान संस्थान

Akademie věd České republiky

TU Graz

The Abdus Salam International Centre for Theoretical Physics

IAEA International Atomic Energy Agency

Consiglio Nazionale delle Ricerche

CERIC
Central European Research Infrastructure Consortium

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CERIC

Central European Research Infrastructure Consortium

X-ray and Light scattering at the TU Graz and Elettra
Graz and Trieste
www.tugraz.at

Ion beams at the Ruđer Bošković Institute
Zagreb
www.irb.hr

Surface science at the Charles University
Prague and Trieste
http://spl-msb.mff.cuni.cz/

Neutrons at the Budapest Neutron Centre of the Centre for Energy Research (EK)
Budapest
www.bnc.hu

Synchrotron and laser light at Elettra
Trieste
www.elettra.eu

Synchrotron light and Cryo electron microscopy at Solaris
Krakow
www.synchrotron.uj.edu.pl

Electron microscopy and EPR at the National Institute of Materials Physics
Magurele
http://lab50.infim.ro

NMR at the National Institute of Chemistry
Ljubljana
www.nmr.ki.si

CERIC-ERIC
S.S. 14 - km 163,5 in AREA Science Park 34149
Basovizza, Trieste - Italy
info@ceric-eric.eu
www.ceric-eric.eu

CERTIFIED MANAGEMENT SYSTEM
CERTIQUALITY
UNI EN ISO 9001:2015
UNI ISO 45001:2018

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European Research Infrastructures

A research infrastructure is an organization that enables the research community to use specific facilities, resources and services in order to accelerate scientific achievements and promote sustainable research.

https://ri-vis.eu/network/rivis/about-european-research-infrastructures

- State of the art research equipment
- Researchers of the highest level
- Technicians and engineers, professionals of the highest quality

To serve scientific industrial users worldwide

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State of the Art Research Equipment

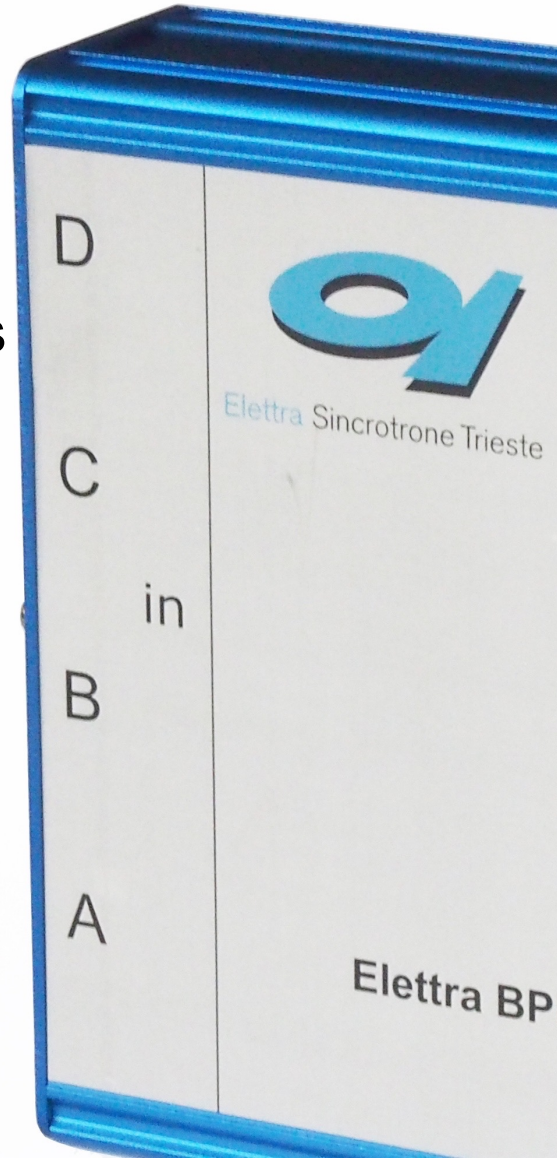
Development of an “advanced measuring position system” for for an accelerated electron beam (Beam Position Monitor - BPM)

- For the new “Elettra 2.0” project, Elettra diagnostics group has developed a prototype of a BPM

BUT

- Industrialization, prototyping and verification are needed
- Large-scale production of 200 systems for the “Elettra 2.0” Project has to be done in short time

The ideal solution: Innovation Partnership



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New European Procurement procedures

PreCommercial Procurement

- Public purchasers buy R&D from several suppliers in parallel to compare alternative solutions and identify the best value for money solutions that can address their needs.
- R&D is split into phases: solution design, prototyping, development and validation of a **limited series of first products**.
- The number of competing R&D providers are reduced after each R&D phase.

Innovation Partnership

- A procedure to develop new instrumentation followed by a contract containing several milestones comprising the **research and development** part (creating innovative solution) and **the supply of the newly found solution** (supplying the innovative solution adapted to the specific needs of the public purchasers).

https://digital-strategy.ec.europa.eu/en/policies/pre-commercial-procurement
https://single-market-economy.ec.europa.eu/single-market/public-procurement/strategic-procurement/innovation-procurement_en

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Advantages for Industry & RI

Advantages for Industry

- Get access to huge amount of know-how on specific subject
- Flexibility in the activities in order to define instrument specifications and delivery time
- Opportunity to commercialize the resulting intellectual property (according to the conditions defined a priori in the contract)

Advantages for Research Infrastructure

- Optimization of production costs and speed up the process, especially when it comes to small series
- Maintenance and spare parts management completely relied on the company
- Revenues from royalties for the instrumentation sold by the company to other facilities

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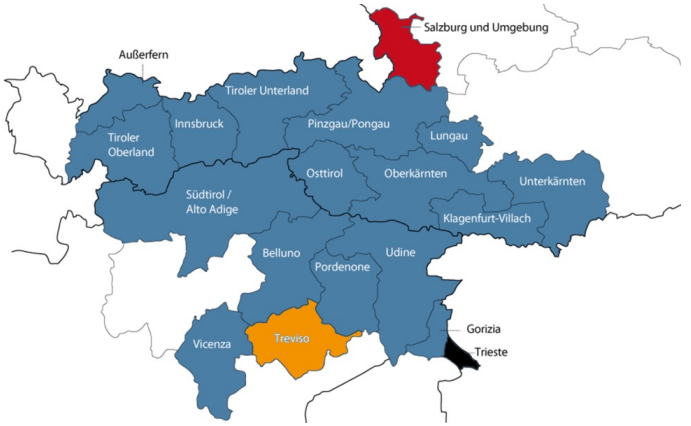
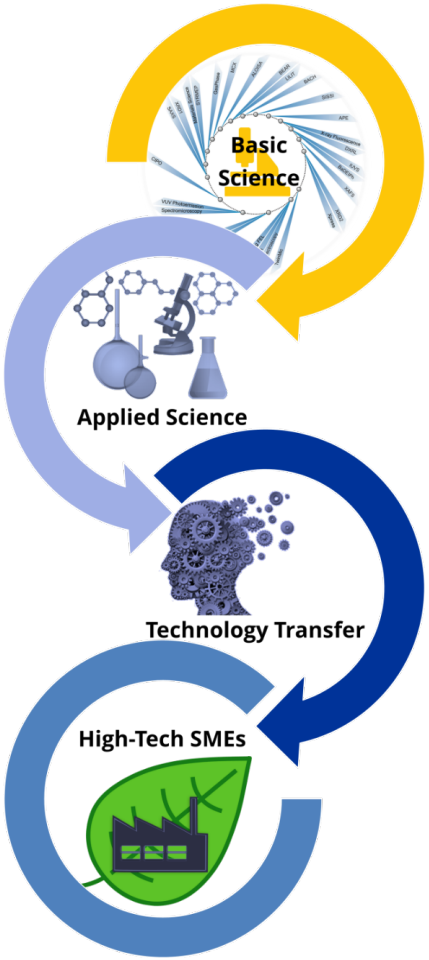
InCIMa for Science and SMEs

Project funded by the European Regional Development Fund and Interreg V-A Italy-Austria 2014-2020

InCIMa4





To implement InCIMa4 platform

To foster collaborative research between the project partners, taking advantage also from the previous INTERREG IT-A InCIMa project

To increase the innovation potential of Programme Area SMEs, boosting the cross-boarder collaboration between Research Institutions, Innovation Centres and SMEs

To ensure long term project sustainability

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PARIS LODRON UNIVERSITÄT SALZBURG

Salzburg University of Applied Sciences

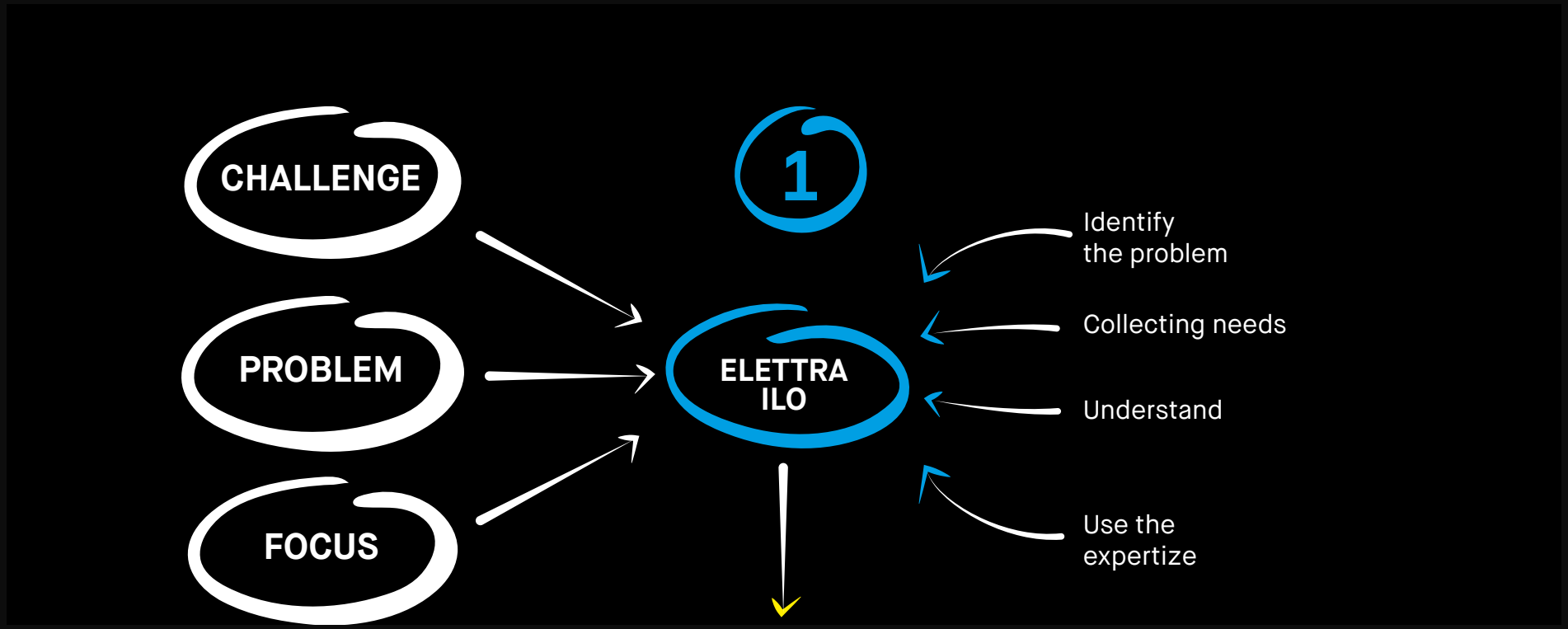
AREA SCIENCE PARK

INNOVATION SALZBURG featuring the future

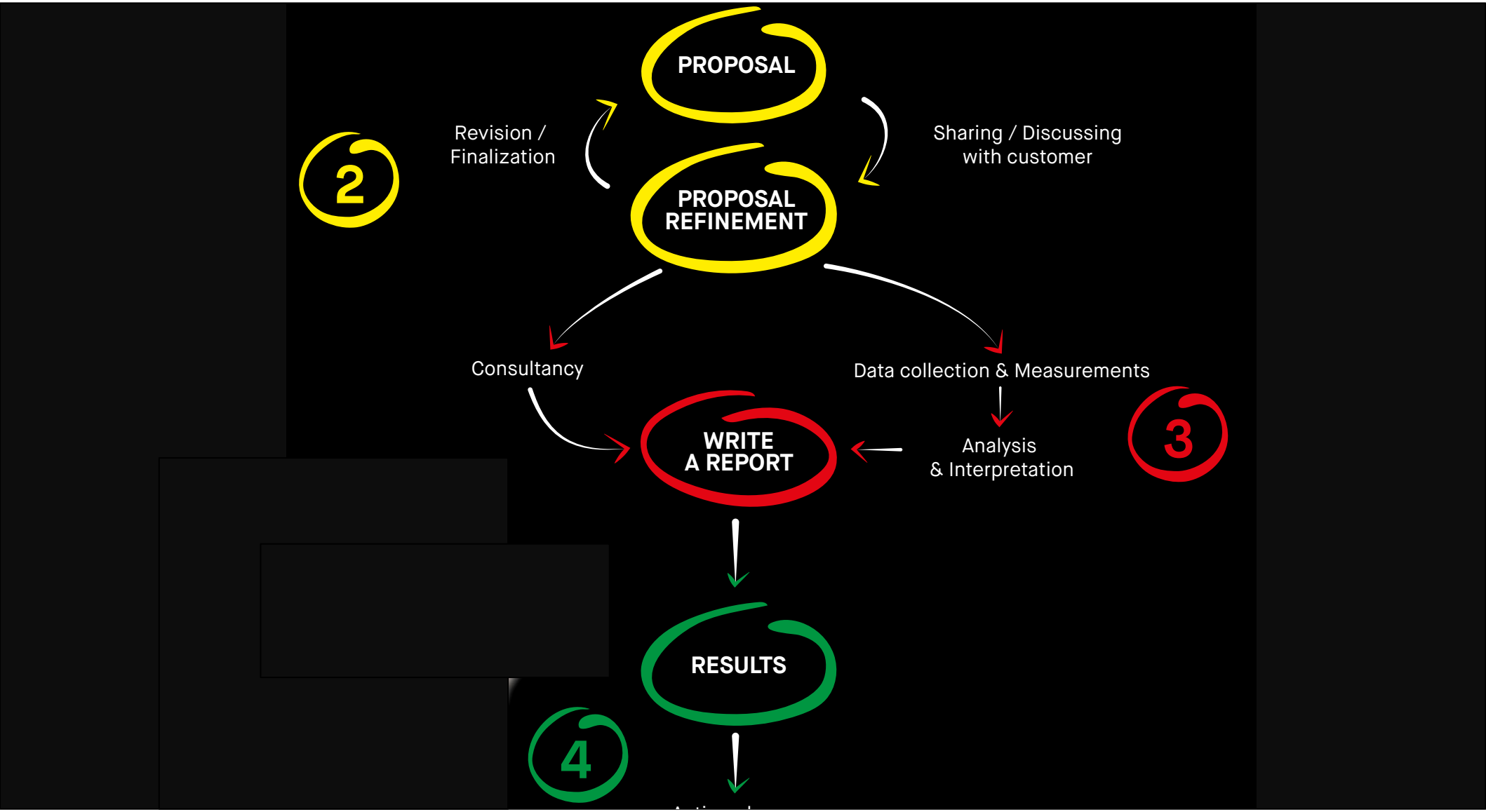
t2i

CERTIFIED MANAGEMENT SYSTEM
CQY CERTIQUALITY
UNI EN ISO 9001:2015
UNI ISO 45001:2018

Market Pull or ~~Technology Push~~ ? (1/2)



Market Pull or ~~Technology Push~~ ? (2/2)



InCIMa4 - PMI involved in the project

n.	SME	COUNTRY	SECTOR
1	AEP Polymers	ITA	Development of bio-based polymers and formulations
2	Danplast	ITA	Flexible plastic materials
3	UM&UM – Ralph Umundum	AT	Interior fittings
4	Ennobled	AT	Wood processing sector
5	Northern Light	ITA	Sustainable Composites
6	Alisea	ITA	New materials
7	Carùs	ITA	Molding production of polyurethane foams
8	Raphael Klaffenboeck	AT	Design
9	Edelzweig	AT	Production of biodegradable urns
10	Lehm und Holz Die Auer	AT	Building sector – wood and clay products
11	k-tec	AT	Plastic Industry, thermoforming
12	ER-System Mechatronik	AT	Heating & Energy
13	Lavagnoli Marmi	ITA	Stone Working

https://www.incima4.eu/our-success-stories/

POCN - Proof of Concept Network

- national laboratory led by AREA Science Park, the main Italian scientific and technological park, which brings together numerous Italian universities and public research bodies.
- With original methods and programs, PoCN aims to transform the validation of public research results in industrial contexts into a stable, long-lasting and economically advantageous process.
- PoCN is an award project supported by the Ministry of Education, University and Research, which recognized its high interest and impact on the industrial and scientific system.

http://www.pocn.it/it/

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Horizon: TamaTA Tasks

LEAPS-INNOV has funded a tailor-made access program for SMEs through a program called "TamaTA-INNOV", for which SMEs can apply using a very simple form.

INDUSTRIES

Your company may gather invaluable information about your product at the micro-scale by using advanced experiments at European infrastructures. Talk to us about your challenge and benefit from the current LEAPS-INNOV project support.

APPLY HERE

LEAPS INNOVATION

ReMade @ARI

CALIPSOplus

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Thank You!

Marco Peloi

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marco.peloi@elettra.eu