

# Designing a sustainable European Centre for Risk Management & Safe Innovation in Nanomaterials & Nanotechnologies (EC4SafeNano)

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# Risk management, Context and objectives

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- Risk management for a Safe innovation needs that we:
  - **Understand** risks and benefits → assess risks
  - Identify and **implement** risk **reduction strategies** → manage risks
  - **Communicate** on residual risks → accept remaining risks
- **Huge knowledge** on characterization, hazards, diagnostic (science)  
**Little effective use** of it for operational risk management (expertise)
- Objectives for an effective Risk management implementation:
  - **Bridge the gap** between research and application (public, private),
  - **Bridge the gap** between knowledge on risks and risk management,
  - **Balance** between Science and Appliance
- in a sustainable way:
  - building Efficient & Sustainable process
  - building harmonized & shared expertise
  - at EU scale but internat. connected

# Context: Recommendations made by



## Closer to the marker roadmap (CTTM)

Andreas Falk, Christa Schimpelet al. Roadmap (CTTM), 2016. @ [www.nanosafetycluster.eu](http://www.nanosafetycluster.eu)

- **Aim:**                    **Market implementation** of scientific knowledge:
  
- **Objective:**    Solid **operational knowledge:** scientific expertise & datasets
  
- **Way:**                    - Dialogue between science, industry, public bodies, civil society  
                                  - Inclusive European approach + strong global interaction  
                                  - **Bundling activities: Hub of best-practice & national networks**
  
- **Outcomes:**   - **Easy-to-apply safety thresholds**  
                          - **Benchmarking of skills and jobs**  
                          - **Alternative solutions with discussions.**  
                          - **Harmonized tools and methods:**

→ Needs a clear risk and safety framework

# EC4SafeNano at glance

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CSA NMBP27-2016 → Consortium & Support Action build sustainable network in the framework of enhancing nanosafety expertise at EU level

Dates : 1st Nov. 2016 to Oct. 2019

Budget : EU funds 2 M€

15 Partners (13 MS)

44 Associated partners (21 countries)

an large IAB

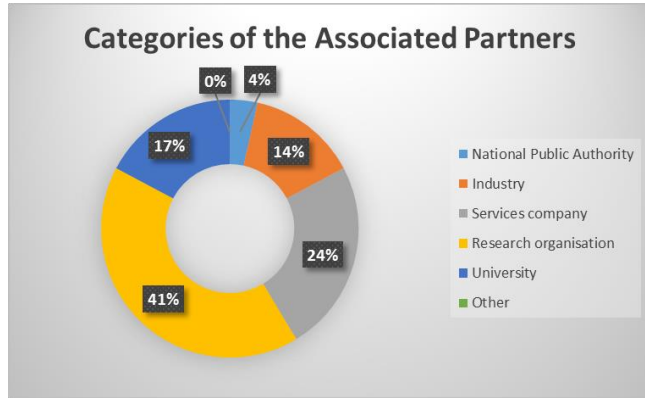
EC4SafeNano will promote a harmonized vision of expertise in risk assessment and management for the public and private sectors to enable the safe development and commercialization of nanotechnology.

EC4SafeNano objective is to gather stakeholder needs so as too knowledge and tool available to build harmonized services in risk assessment and management, but also to define a sustainable governance of such structure and demonstrate its efficiency on some case studies.



# EC4SafeNano, a large Partnership

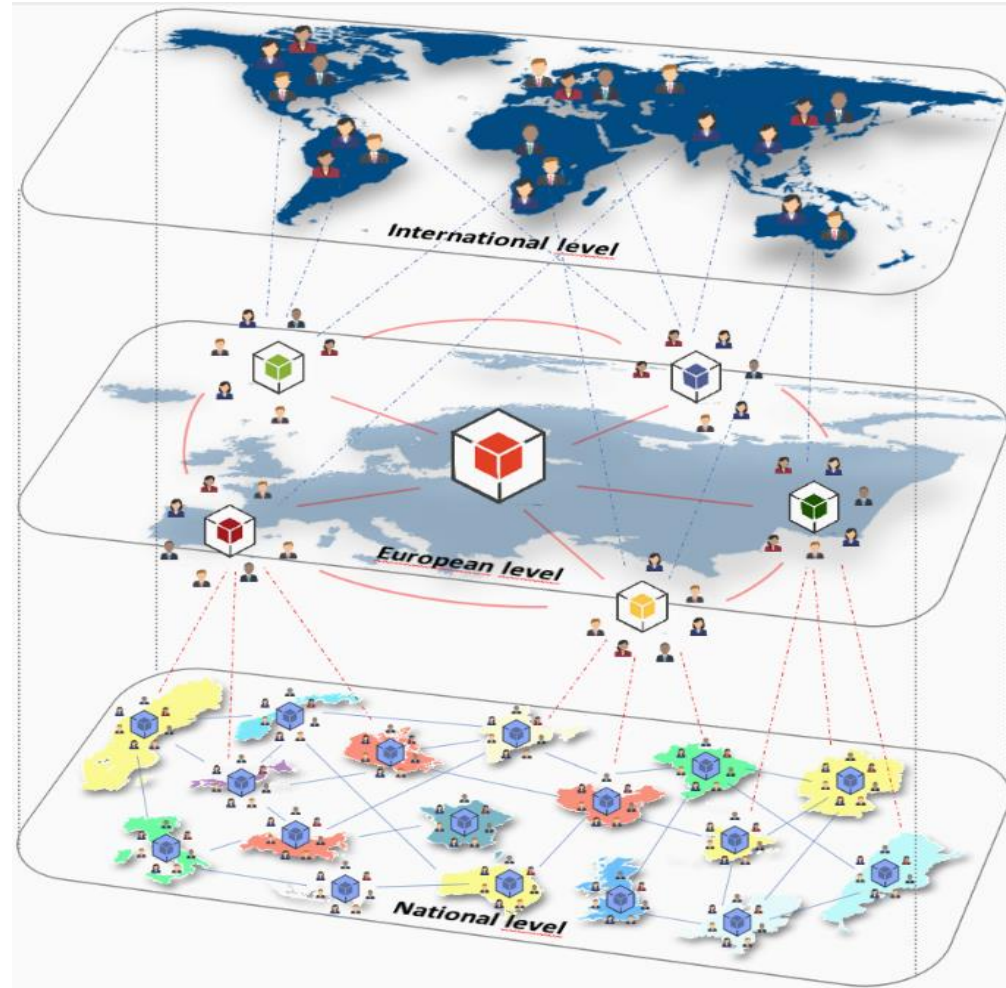
**44 Worldwide Associated Partners ...  
Still Open to interested parties**



**15 EU EC4SafeNano Partners  
the core Group**



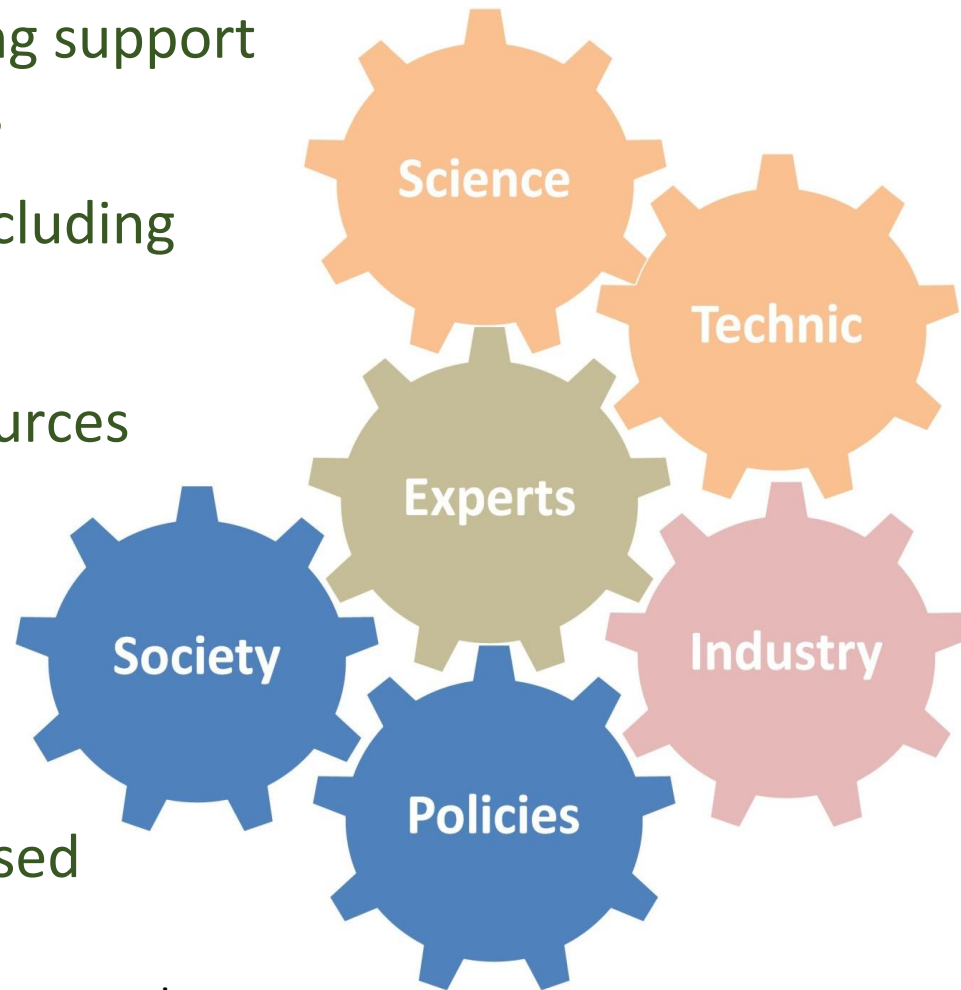
**MS National hubs  
Existing & new initiatives**



# EC4safeNano Concept, gathering needs and knowledge

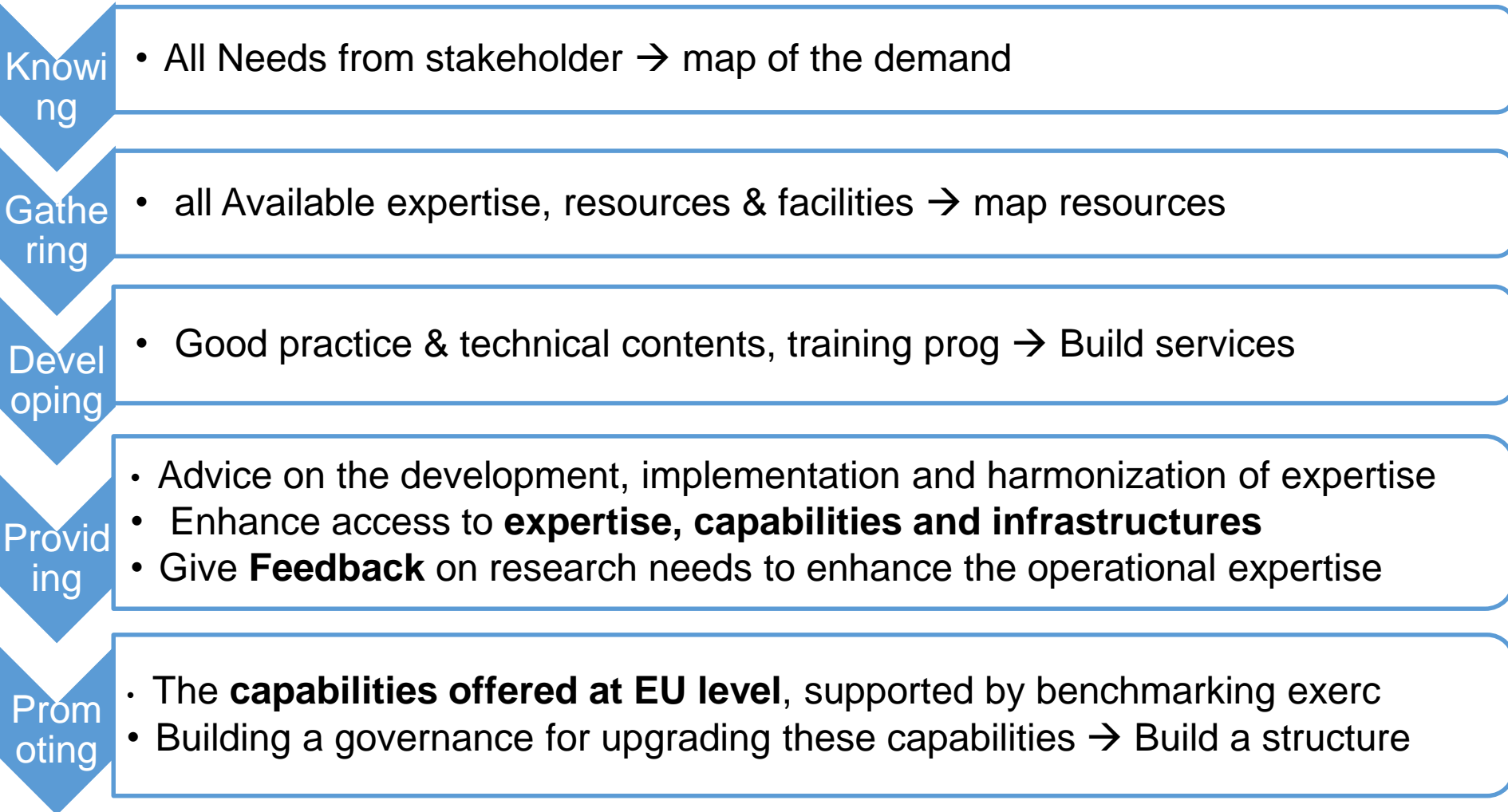
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- A Core group of experts providing support for both public & private sectors
- A large group of stakeholders including service providers and end users
- Gathering needs, tools and resources from:
  - Research centres, universities
  - Industries, organisations
  - Technological Centres
  - Society, NGOs, Policy makers...
- Gathering and building harmonised expertise for:



An operational use in risk assessment and management

# EC4SafeNano, an expertise building & delivery structure



**For:**

- Member States (MS), EC and EC Agencies
- Industry, safety providers, training org.,...
- Civil society (NGOs, groups of citizens).

# EC4safeNano, Main Actors – Roles & involvement

## A core team

comprised of public (or public-oriented) organizations already providing support to all stakeholders ) in the field of risk management

An enlarged community of

## Associated Partners

through the creation of 5 Focus Networks around common interests and activities

A network of **national platforms and international networks,**

to ensure sharing of information, best practices, tools, from the global to local scale. Some of the national platforms are expected to become national hubs that could mirror the European hub at national level.

An organization capable of **managing access to data and knowledge**

through a collaborative model for the operation of the Centre. The key points will be to define a legal entity, establish governance and operating procedures.

## A demand-driven Centre

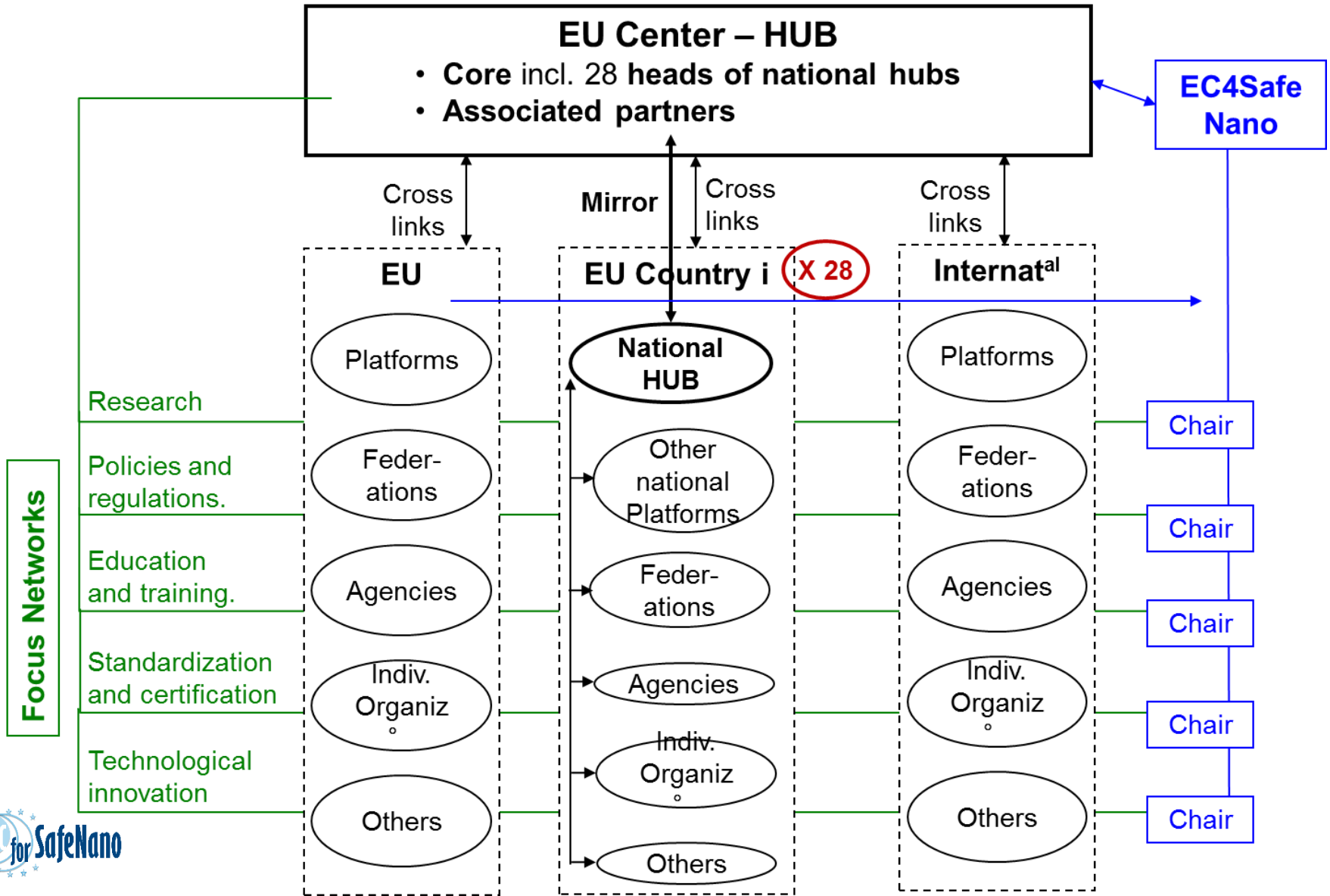
providing the best resources and capabilities available to address the needs of stakeholders

## A Sustainable Open Alliance (Centre)

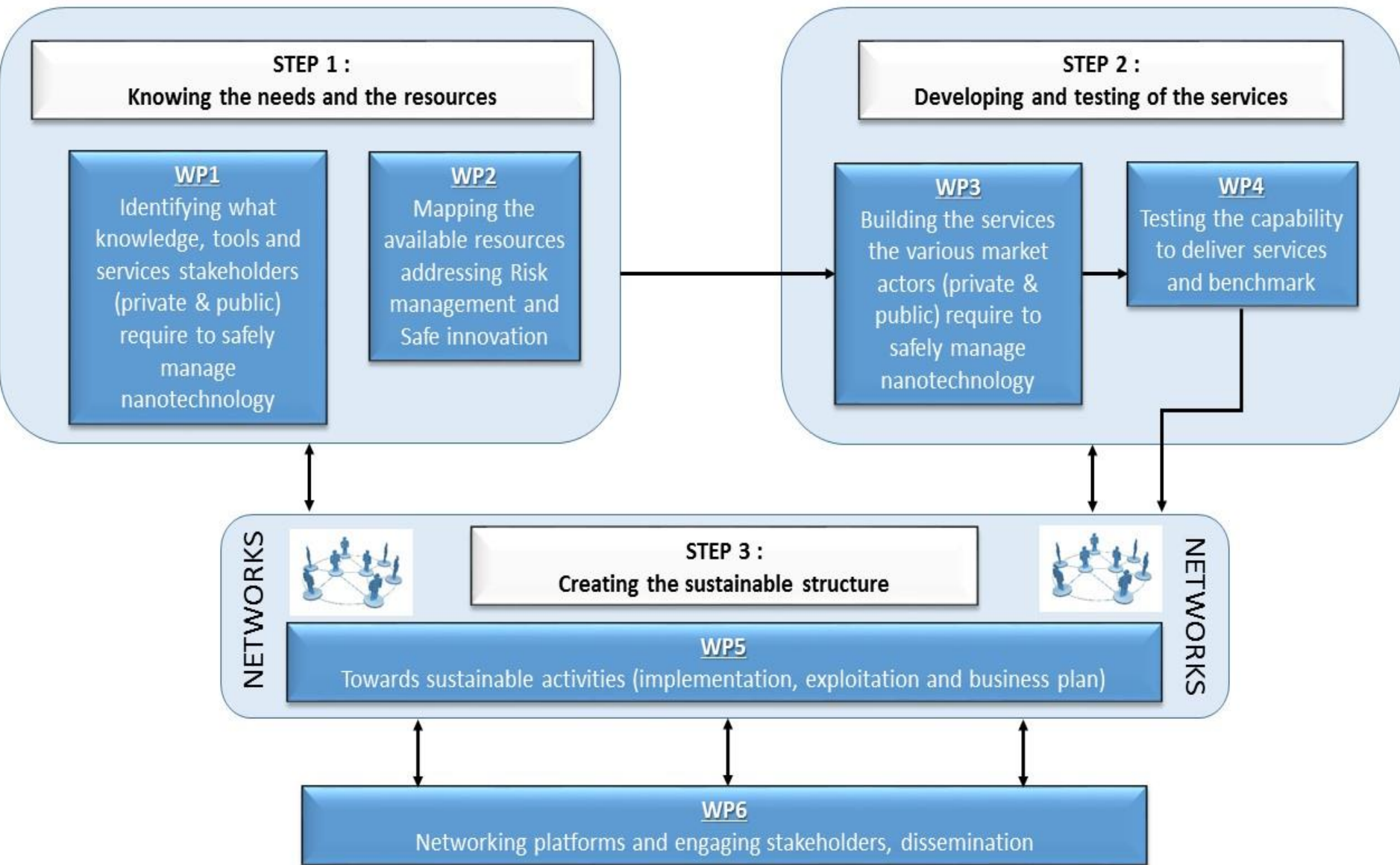
of organizations , able to gather, structure, harmonize and enhance the overall expertise in risk assessment, risk management , environmental assessment and safe innovation



# EC4SafeNano, main Actors and hubs



# EC4SafeNano, Project general description



# A Joint calls associated to EC4SafeNano, for what?

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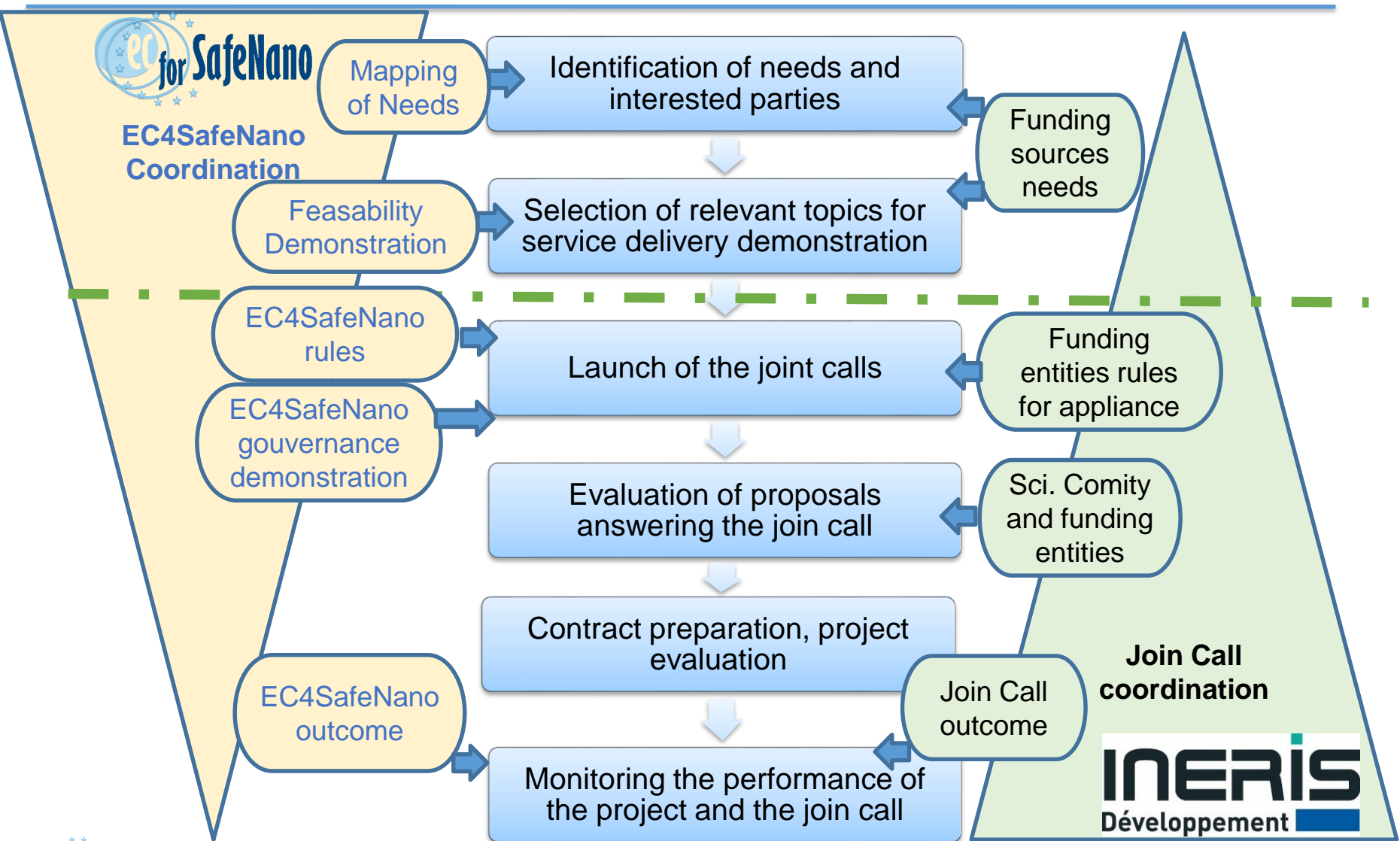
- Test / demonstrate the services built by EC4SafeNano so as to the governance for a sustainable structure
- Have the capability to develop new solutions (services, tools) to provide better expertise → outcomes of the Join call
- Help organizing/ building new expertise capabilities for MS
- Organized outside EC4SafeNano but in liaison with EC4SafeNano
- Under Funding from all interested stakeholders (MS agencies, ministries, consortia, organizations...)

Target objectives :

10 funding entities for join call of few M€ funds, ready to be launch mid 2017 & engaged beginning 2018



# A Join call to enhance the outcomes & feasibility demonstration of EC4safeNano



# EC4SafeNano Final remarks

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The principle, definition & feasibility demonstration of an European Centre for Risk Management & Safe Innovation (EC4SafeNano)

will be made, thanks to:

- The commitment of well recognized organizations
- The involvement of a large community of stakeholders
- All together
  - ✓ To better identify the needs and the Sci. & Tech knowledge
  - ✓ to build an efficient & reliable expertise on nanosafety to achieve the smarter decisions for risk assessment, risk management and safe innovation
  - ✓ To build sustainable principles for a Centre going beyond this funding EU opportunity and operating for years

# Final remarks

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Inspiring  
Business



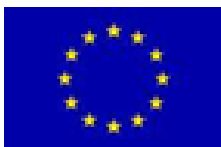
BAM



Finnish Institute of  
Occupational Health



vito



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