



NEMZETI KUTATÁSI, FEJLESZTÉSI
ÉS INNOVÁCIÓS HIVATAL

EUREKA Cluster programok: EUROGIA2020 és Metallurgy Europe

2015. június 9.

RFCS Pályázati Információs Nap

Mészáros Gergely

EUREKA Nemzeti Projekt Koordinátor

WWW.NKFIH.GOV.HU



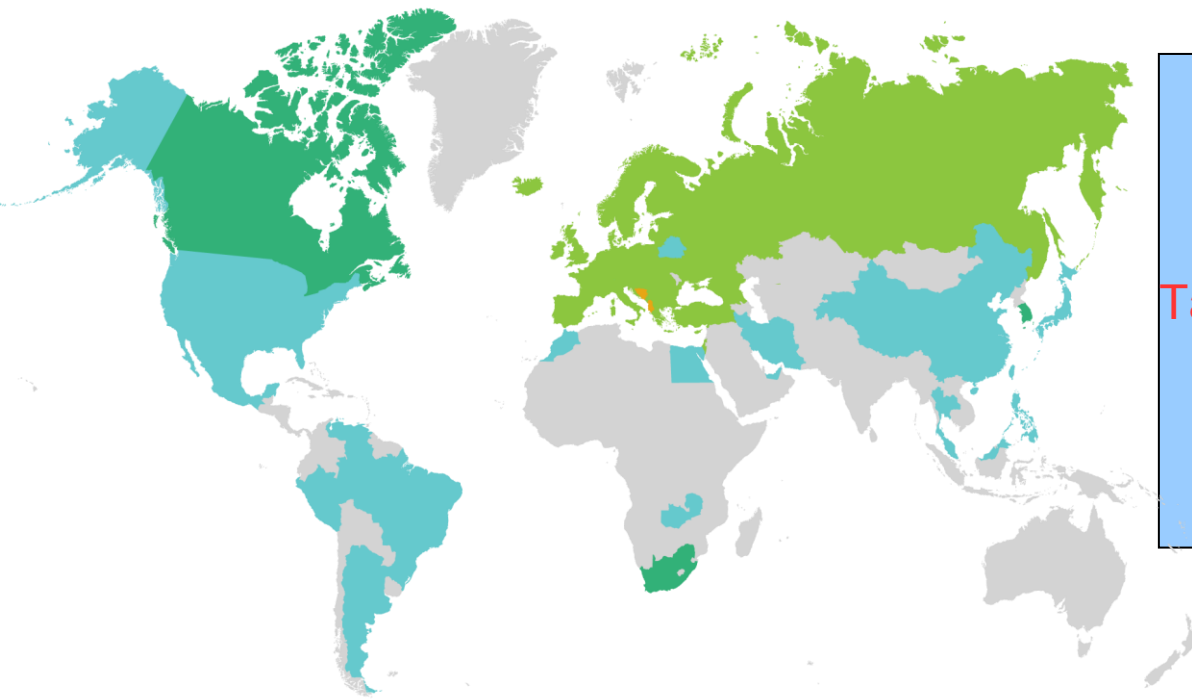
A kezdetek - az EUREKA program

- 1985-ben létrehozott kormányközi együttműködés,
- Cél: Az európai ipar termelékenységének és világpiaci versenyképességének erősítése
- **Piac-orientált K+F tevékenység** támogatása nemzetközi együttműködési projektek formájában
- Résztvevők: **vállalatok (KKV-k, nagyvállalatok)**, kutatóintézetek, egyetemek
- Magyarország 1992 óta tagja



Az EUREKA-együttműködés tagállamai

- Full members
- Associated countries
- National information points
- International cooperation



Jelenlegi tagság: 40 tagállam
+ Európai Bizottság:
Társult tagok: Dél-Korea, Kanada,
Dél-Afrika



Az EUREKA-projektek jellemzői (1)

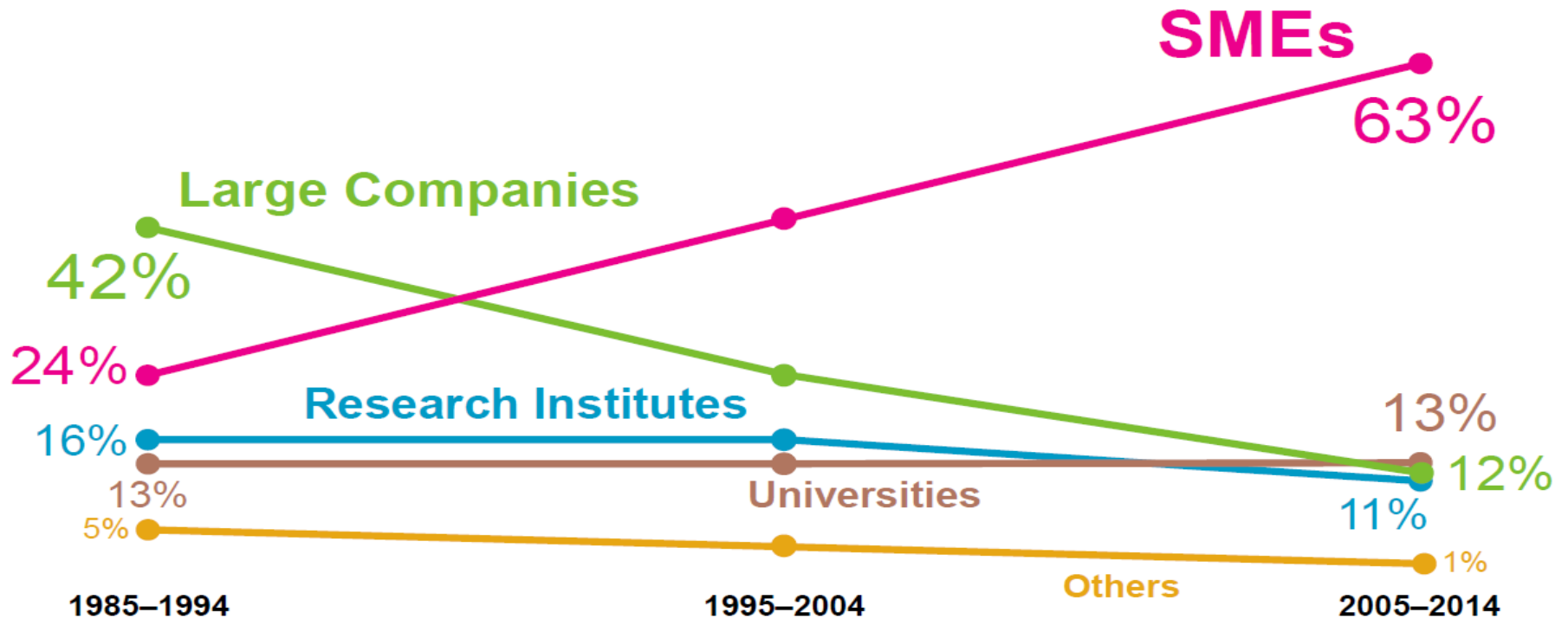
- Az EUREKA-projektek célja **új termékek, technológiák, eljárások** kifejlesztése nemzetközi együttműködés keretében
- **Bottom-up megközelítés** – projektek témája a résztvevő vállalatok által szabadon választott
- **Minimum 2 EUREKA tagállam intézményei közti együttműködés**
- Hozzáfértés a nemzeti állami és magán forrásokhoz



Az EUREKA-projektek jellemzői (2)

Participants in EUREKA projects

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innovation across borders



Industry is representing 75% of participants
Data for EUREKA Projects and Eurostars



Az EUREKA-projektek jellemzői (3)

Technology area

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Electronics, IT
and Telecoms
Technology



Industrial
Manufacturing,
Material and
Transport



Biological
Sciences /
Technologies



Technology for
Protecting Man
and the
Environment



Energy
Technology

1985–2014

29.4%

21.4%

17.7%

6.4%

6.3%

2008–2014

30.0%

18.5%

21.4%

5.3%

6.8%

Data for EUREKA Projects and Eurostars



Az EUREKA-projektek jellemzői (4)

Market area

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Industrial
Products /
Manufacturing

1985–2014

20.2%

2008–2014

19.3%



Medical /
Health
Related

20.0%

22.1%



Transportation

9.8%

8.6%



Consumer
Related

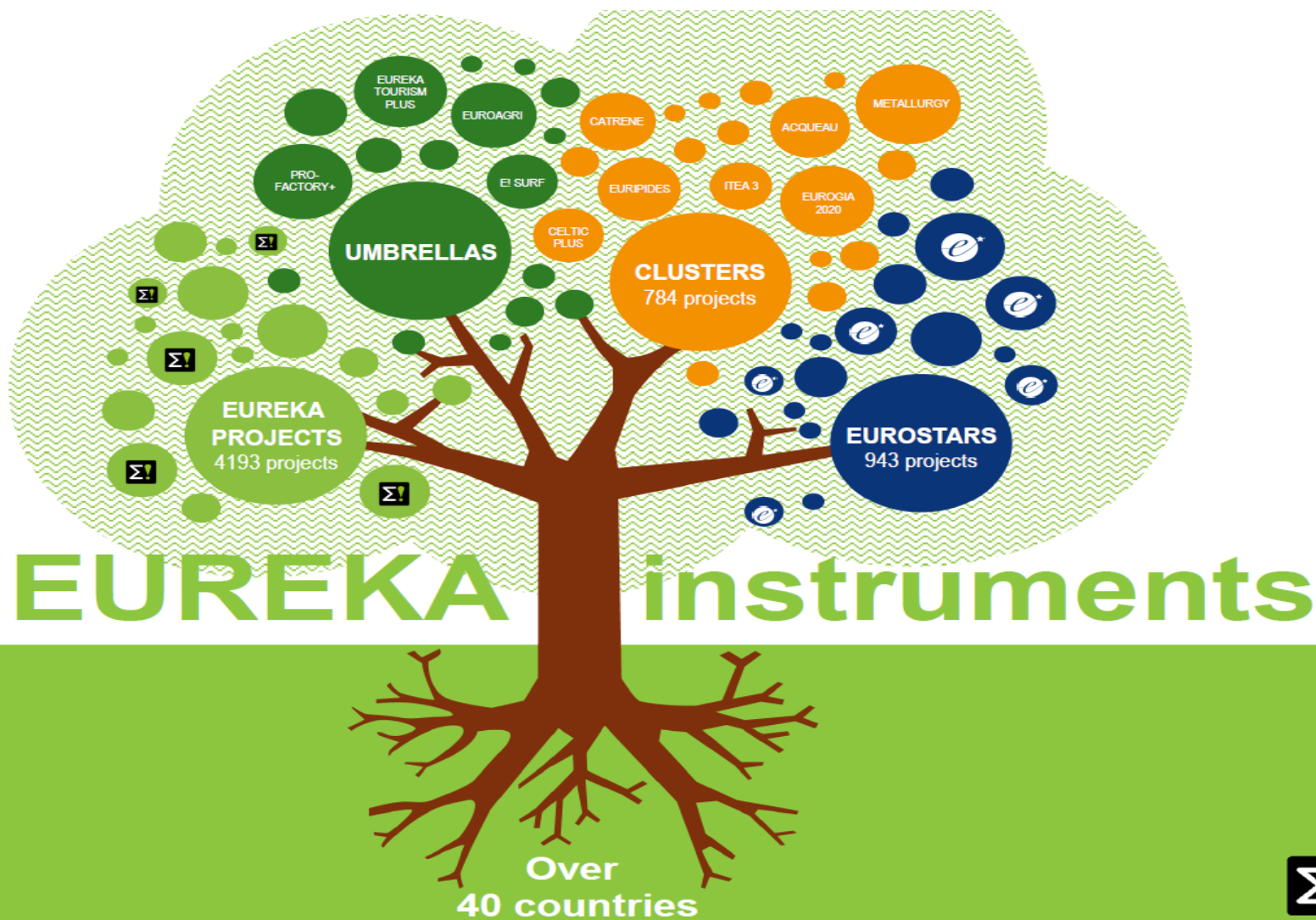
9.5%

8.8%

Data for EUREKA Projects and Eurostars



Az EUREKA-projektek jellemzői (5)





EUREKA Clusters

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Innovation across borders



Industry led initiatives

- Medium term
- Strategically significant
- International ecosystem of R&D&I actors



Large number of participants

- Major European industries
- Large SME participation (30–50% of partners)



Fostering European competitiveness

- Develop generic technologies and standards
- Address economic and societal challenges

Clusters represent 70% of the budget of EUREKA project portfolio



EUREKA Klaszterek (2)

A typical Cluster project is...

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Data for
2008–2014



4–14 participants



3–4 countries



average duration

31 months



average project cost

€2 - €15 million



EUREKA Klaszterek (3)

EUREKA Clusters

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ACQUEAU
making your project happen

Innovation in
water technologies

CATRENE
Cluster for Applications and Technology Research in Europe for Smart Electronics

Micro and Nano
electronics

eltic-Plus
Smart Connected World

Telecommunications

ΣURIPIDES²
European Smart Electronic Systems

Smart electronic
Systems

eurogia²⁰²⁰

Low carbon energy
technologies

ITEA³

Software intensive
systems and
services

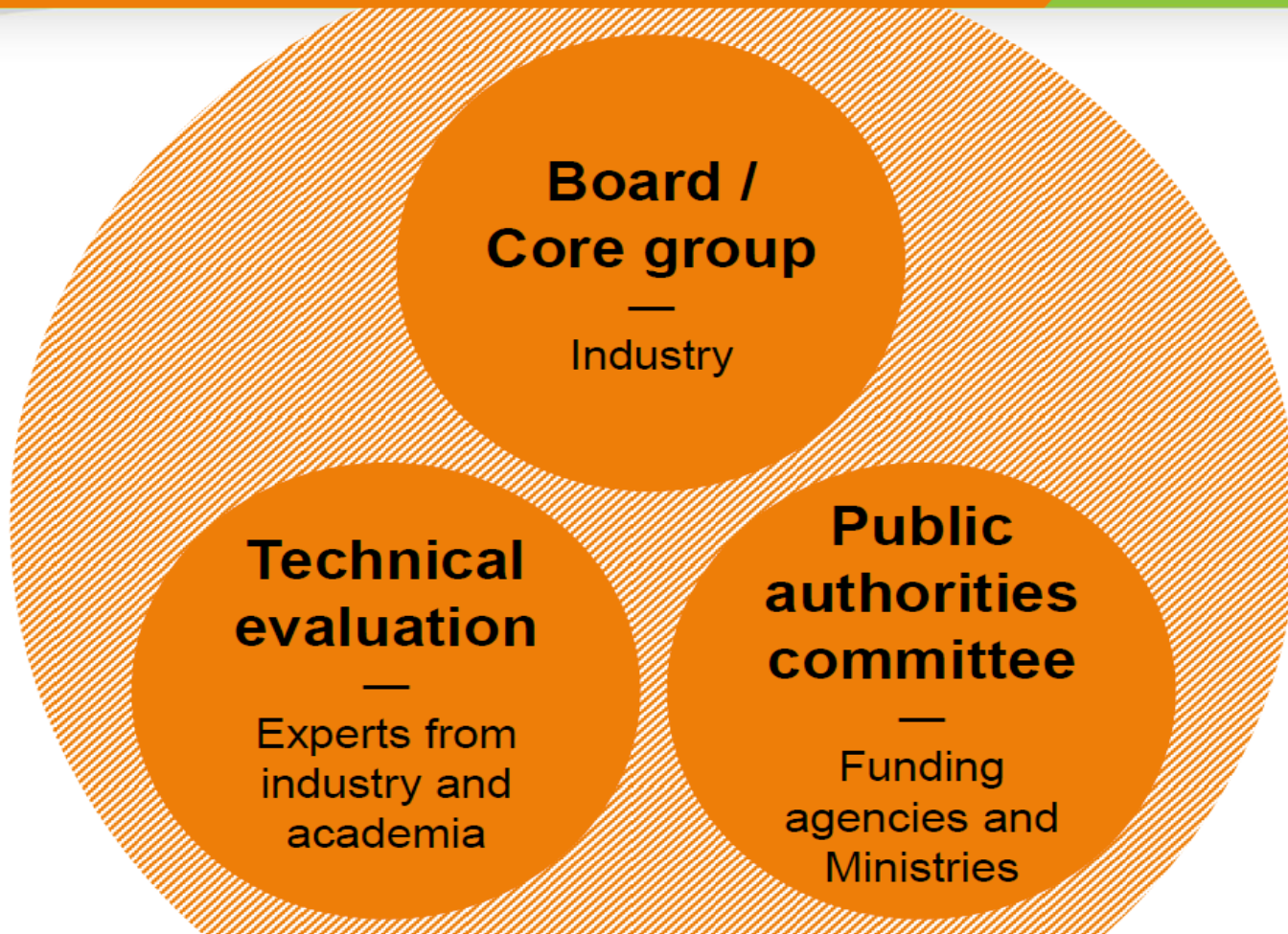
**metallurgy
europe**

New Cluster on
Metallurgy



EUREKA Klaszterek (4)

EUREKA Structure of Clusters





EUROGIA2020 – The EUREKA Cluster for Low- Carbon Energy Technologies (1)



- 2004-2008: EUROGIA was a **EUREKA Cluster** focusing on the commercialisation of safe, cost effective and environmentally friendly solutions in the Oil and Gas energy sector.
- **2008: It became EUROGIA+** a EUREKA Cluster for Low-Carbon Energy Technologies after the White Book was re-written in cooperation with Regional Clusters dedicated to New Technologies for Energy.
- June 2013: EUROGIA continues its activities under the name of **EUROGIA2020**, following the main targets of EUROGIA+ with more comprehensive Technology Roadmap.
- Its purpose is to **facilitate the deployment** of existing technologies and support the development of highly innovative new technical solutions.
- EUROGIA2020 is one of the EUREKA cluster projects, each involving many large and small European companies seeking to strengthen European competitiveness in **key technology areas**.
- EUROGIA2020 encourages cooperation and coordination among European companies by promoting development of **Low-Carbon Energy** Technologies.
- EUROGIA2020 is complementary to existing European and national programmes and offers the route to **fast market growth through European co-operation**.



EUROGIA2020 – The EUREKA Cluster for Low- Carbon Energy Technologies (2)

EUROGIA2020 is a bottom-up, industry driven, market oriented programme which addresses all areas of the energy mix, from renewable energy to efficiency, and reduction of carbon footprint of fossil fuels. **EUROGIA2020** R&D projects can address the following issues :

- To meet the world's growing fossil fuel needs, while minimizing carbon footprint.
- To develop diverse clean energy sources in addition to fossil fuels.
- To improve efficiency of energy use in all consumer and industrial applications.
- To keep Europe's market against world wide competition
- To build a sustainable and effective energy system through interactions between technology and society
- To reduce the carbon footprint of energy production and use
- To develop new technologies for energy such as solar, wind, biomass, geothermal, energy efficiency, etc.

<http://www.eurogia.com/>



Metallurgy Europe – The New EUREKA Cluster for Metallurgy (1)

metallurgy europe

- Metallurgy Europe is a fascinating field, full of modern discoveries, commercial opportunities and industrial utility.
- To help solve the grand challenges facing society, it is imperative to continue investing in high-value metal products and their manufacture.
- European industry, academia and funding agencies now have seized a once-in-a-generation opportunity to establish a vibrant, well-coordinated and large-scale ‘Metallurgy Europe Research’ Programme
- To design, develop and deploy the next set of revolutionary alloys and composites for key industrial applications, including energy, renewables, mobility and health.

Research topics addressed:

- Material discovery
- Novel design, metal processing and optimisation
- Materials for green energy and renewables
- Recycling technologies



Metallurgy Europe – New EUREKA Cluster for Metallurgy (2)

- Met-Euro-Call-01-2015-01: Multi-Material Solutions for Ultra-Lightweight Vehicles
- Met-Euro-Call-01-2015-02: Multi-Component Alloys for Extreme Industrial Applications
- Met-Euro-Call-01-2015-03: Structural Steels for Non-Ambient Conditions
- Met-Euro-Call-01-2015-04: Low Temperature Superconductors and Improved Wire Manufacturing
- Met-Euro-Call-01-2015-05: Thermoelectric Generators for Harvesting Industrial Heat
- Met-Euro-Call-01-2015-06: Miniaturised Biomedical Devices Made From Metallic Alloys and Composites
- Met-Euro-Call-01-2015-07: Metal-based Embedded Sensors for Metallurgical & Infrastructure Applications
- Met-Euro-Call-01-2015-08: Additive Manufacturing of Large Metallic Structures
- Met-Euro-Call-01-2015-09: Combinatorial Alloy Development and Infrastructure
- Met-Euro-Call-01-2015-10a: Functional Electrochromic Coatings and Glazing
- Met-Euro-Call-01-2015-10b: Nanocrystalline Diamond Coatings and Components
- Met-Euro-Call-01-2015-11a: Expanding Structural PM Steel Markets for the Automotive Sector
- Met-Euro-Call-01-2015-11b: Novel Powder Consolidation Processes for Large Metallic Parts
- Met-Euro-Call-01-2015-12: X-ray & Neutron Characterisation Serving Metallic and Industrial Applications

Target Project Size: 15-20 M€

European Dimension: Project partners from at least 4 EUREKA member states

http://metallurgy-europe.eu/wp-content/uploads/2015/01/Metallurgy-Europe-Call-01_27-05-2015.pdf



EUREKA Klaszterek (5)

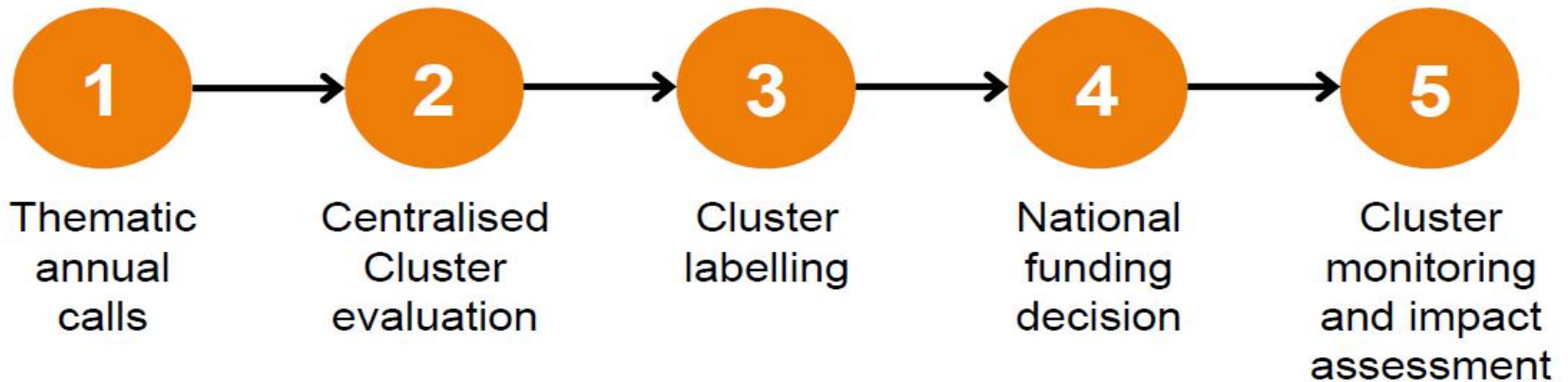
Clusters in numbers

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	eurogia ²⁰²⁰	metallurgy europe
Total number of projects	24	n/a
Total project costs	€98 M	n/a



EUREKA Clusters procedures





Az EUREKA-pályázat menete

- **Együttműködési kötelezettség:** nemzetközi
 - (legalább 2 EUREKA-tagállam)
- **Tematikus megkötés:** nincsen
 - (Bottom-up megközelítés)
- **A projekt időtartama:** max. 36 hónap
- **Pályázati nyelv:** angol és magyar
 - Application Form angolul
 - hazai támogató pályázat magyarul
- **2015. évi határidők:** nemzetközi és hazai
 - EUREKA nemzetközi beadás: folyamatos
 - EUREKA Duna Régió: 2015. június 17.

A hazai támogató pályázat várható megjelenése: 2015. június



A hazai EUREKA-támogatások alapelvei (előzetes információk!)

- **Támogatási intenzitás:**
 - max. 80% a kisvállalkozásoknak
 - max. 75% a középvállalkozásoknak
 - max. 65% a nagyvállalkozásoknak
- **Támogatás projektenként:** min.20 millió, max. 70 millió Ft.
- **Teljes pályázható költségvetés:** 400 millió Ft.



Köszönöm megtisztelő figyelmüket!

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