



NANONET Foundation and Silesian NANO Cluster

**Cluster as a key enabler in the SMEs
dominated innovative industry landscape
Monika Goszcz**

Foundation in numbers

1

the first and the only website in Poland devoted to nanotechnology



4000

followers receiving the newsletter

476

articles on the foundation's website



3000

followers on Foundation's social networking sites

80

volunteers from all over Poland cooperated with the Nanonet Foundation



11

projects

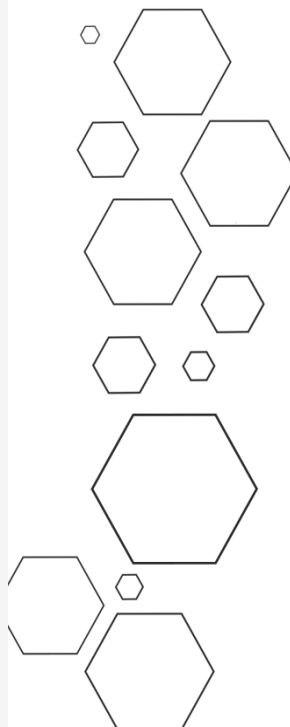
10

years of experience on the market



260

patronage events both in Poland and worldwide



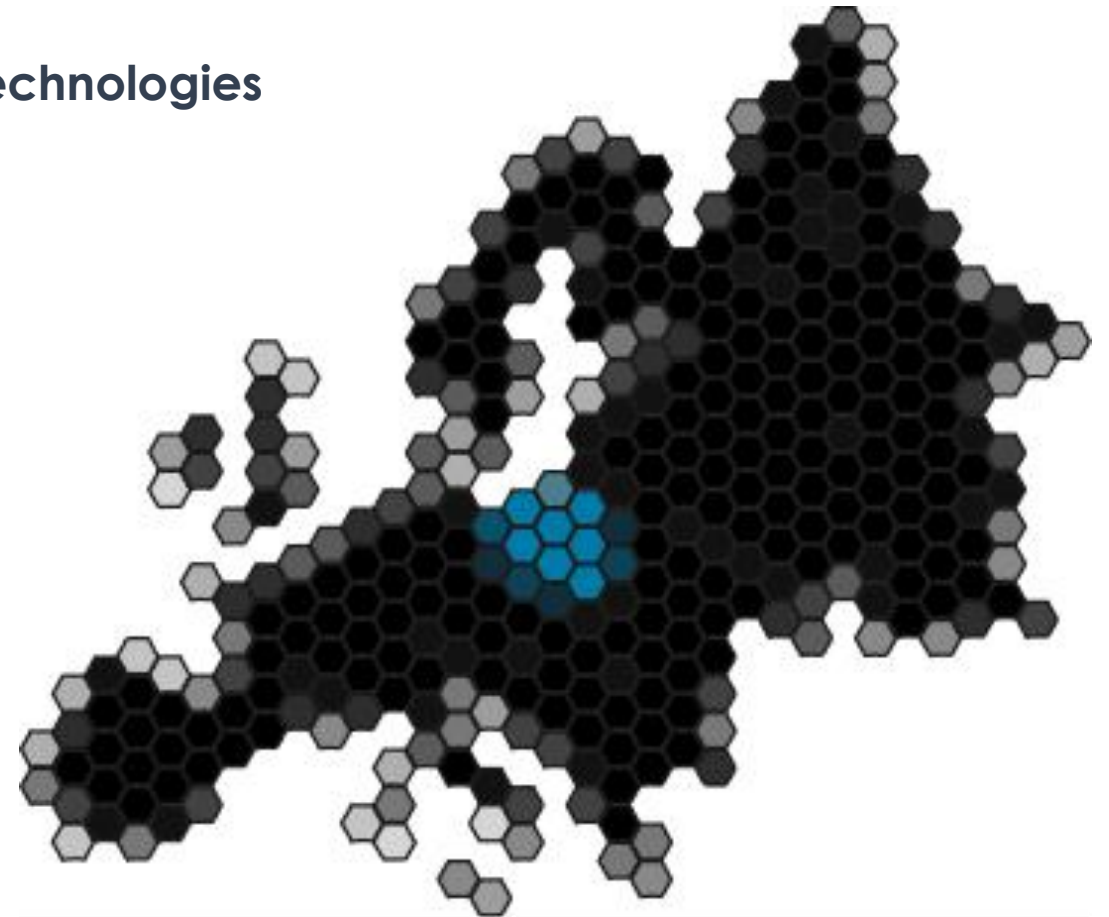
Mission



To create and maintain a **multilevel platform of communication and cooperation**

To promote **innovative entrepreneurship, products, technologies and R&D possibilities.**

To promote regional and national achievements on **global scale**



Silesian NANO Cluster

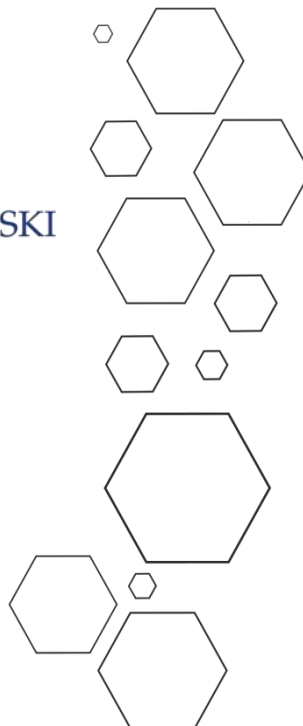


Cluster was initiated in 2013 and is coordinated by the **NANONET Foundation** – organization devoted to promote **modern entrepreneurship** and popularize **results of scientific researches**.

Cluster was originally funded by the NANONET Foundation, the City of Katowice, the Polish Chamber of Commerce for High Technology, the Institute of Non-Ferrous Metals and the University of Silesia.



Since 2013 Silesian Nano Cluster and NANONET Foundation are **the most recognizable nanotechnological organizations** in Poland.



Ecosystem



1 CLUSTER

61 entrepreneurs

11 scientific units

6 business support

1 NANONET

start-ups

SMEs

large compapies



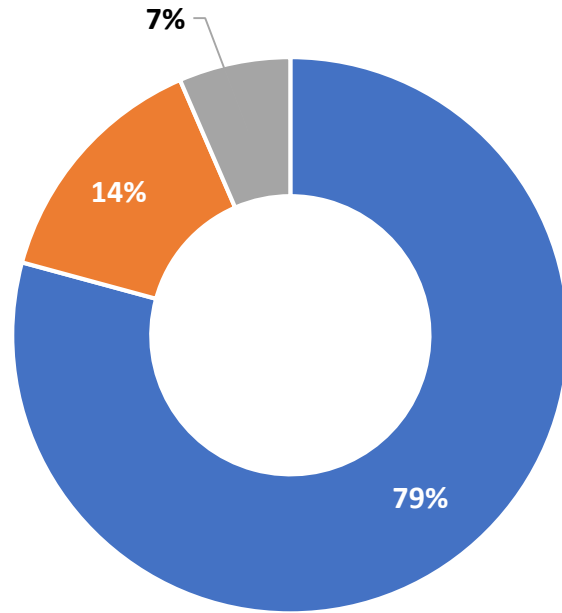
Cluster membership structure



For 5.11.2019 Silesian NANO Cluster has **77 members członków**

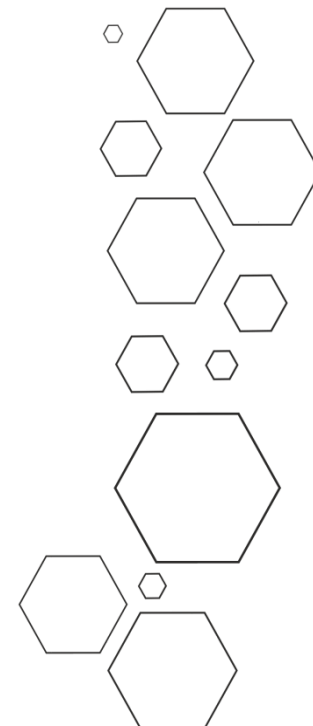
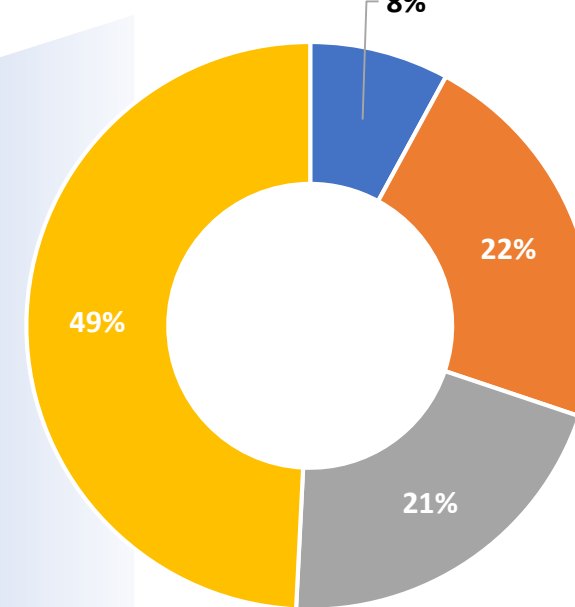
Cluster members

- Entrepreneurs
- Scientific institutions
- Other



Entrepreneurs

- Big
- Medium
- Small
- Micro



Economic potential



0,4 B

income from sales in EUR in the last 3 tax years

45%

of clusters' entrepreneurs export their products

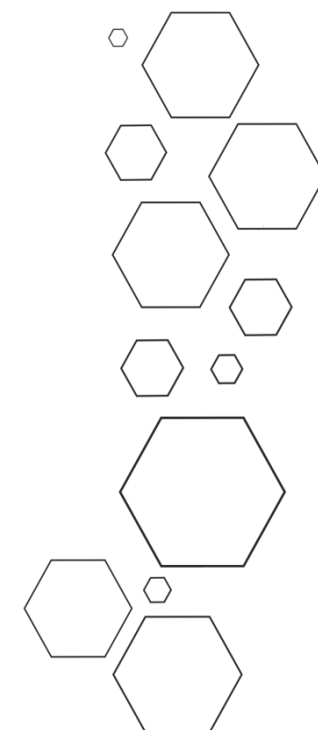
27,3%

intensity of the export in cluster in the last 3 tax years *

83%

of clusters' entrepreneurs lead R&D projects

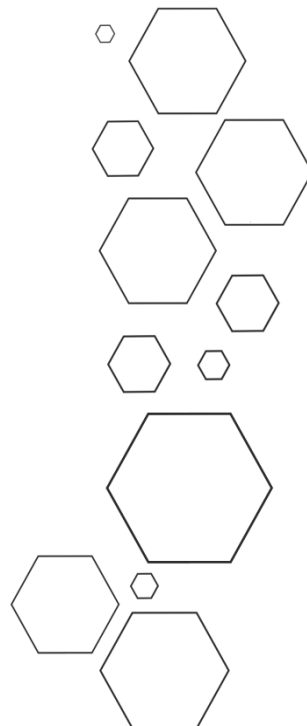
*Intensity counted as a rate of income coming from export in total sales of entrepreneurs that were selling abroad



Technology branches



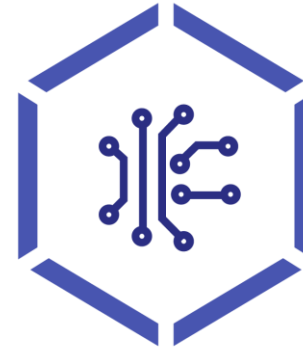
- ✓ Biotechnology
- ✓ Medical technology
- ✓ Pharmacy
- ✓ Functional composites and lightweight materials
- ✓ Chemical engineering and processing
- ✓ Antibacterial nanomaterials and applications
- ✓ Metal, Polymer, Ceramic Coatings
- ✓ Thin films
- ✓ Electronics
- ✓ Photovoltaics and Energy
- ✓ **3D printing and filaments**
- ✓ Construction materials and technology, thermal insulators
- ✓ Graphene applications
- ✓ Functional materials and nanomaterials and processing
- ✓ Precise material characterization
- ✓ Special applications engineering
- ✓ Military technology – security technologies



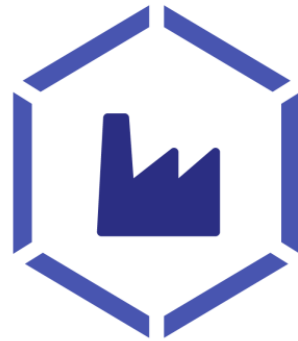
3D printing



Nanopowders,
inks and filaments
production

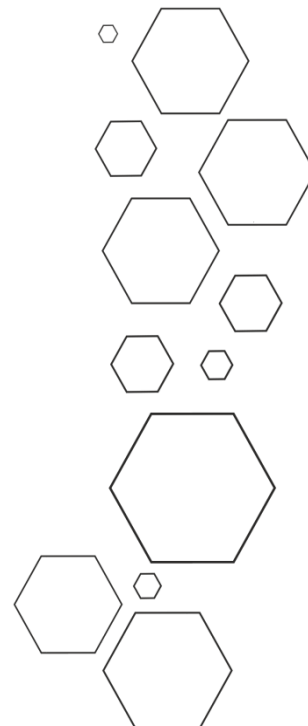


Printing technology development
(including plasma and vacuum
environment processes)

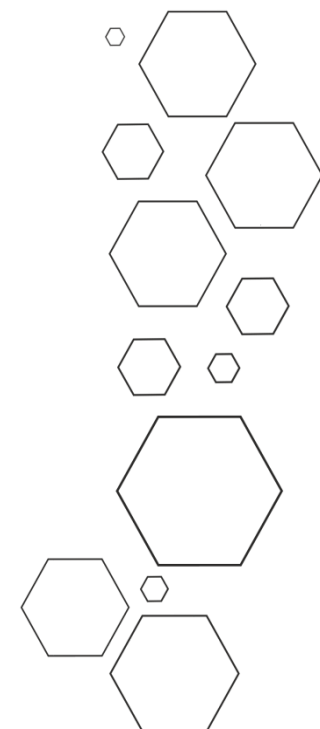
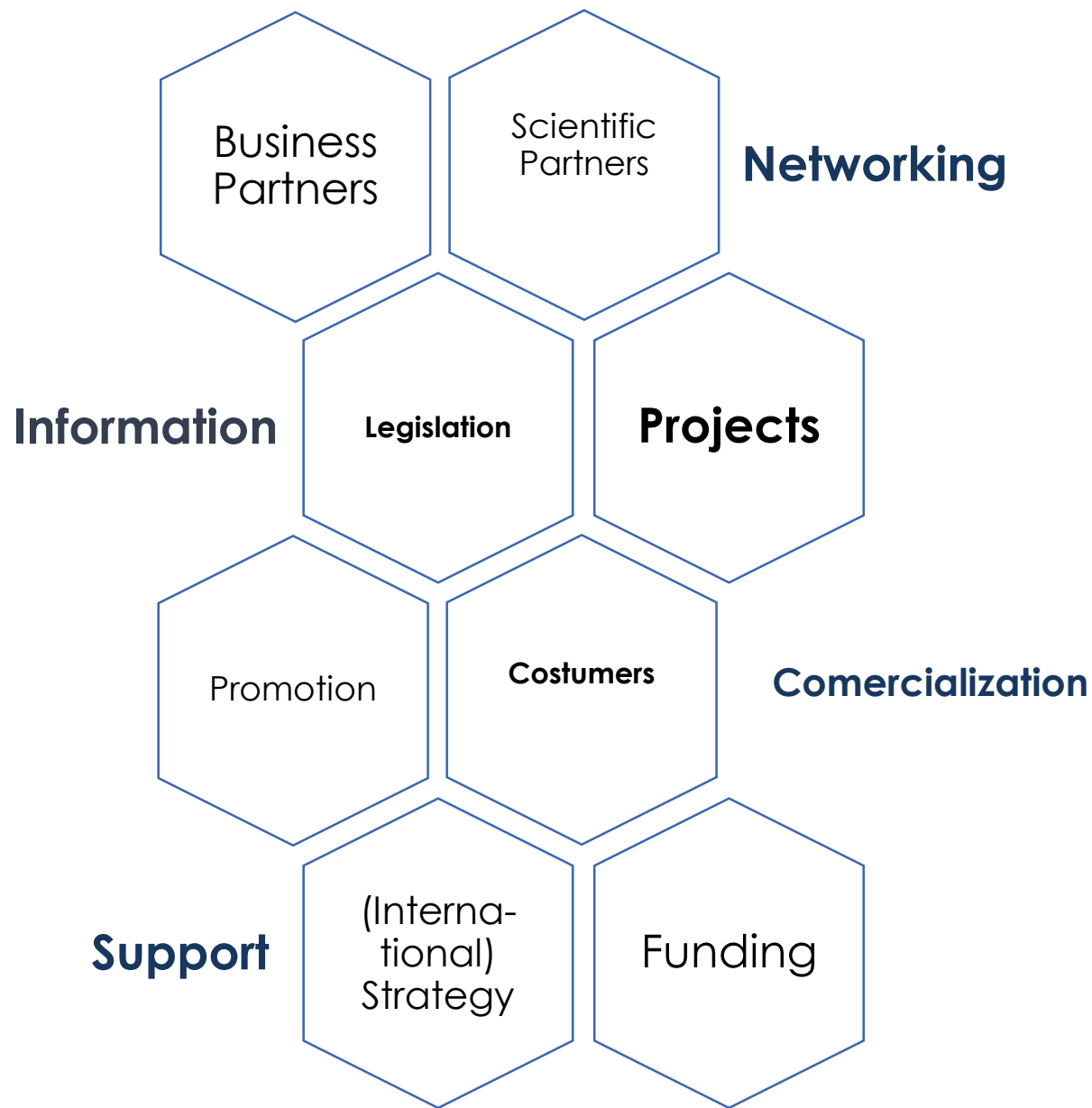


Appliaction of nanotechnology
enhanced 3D printed products in
other industry branches

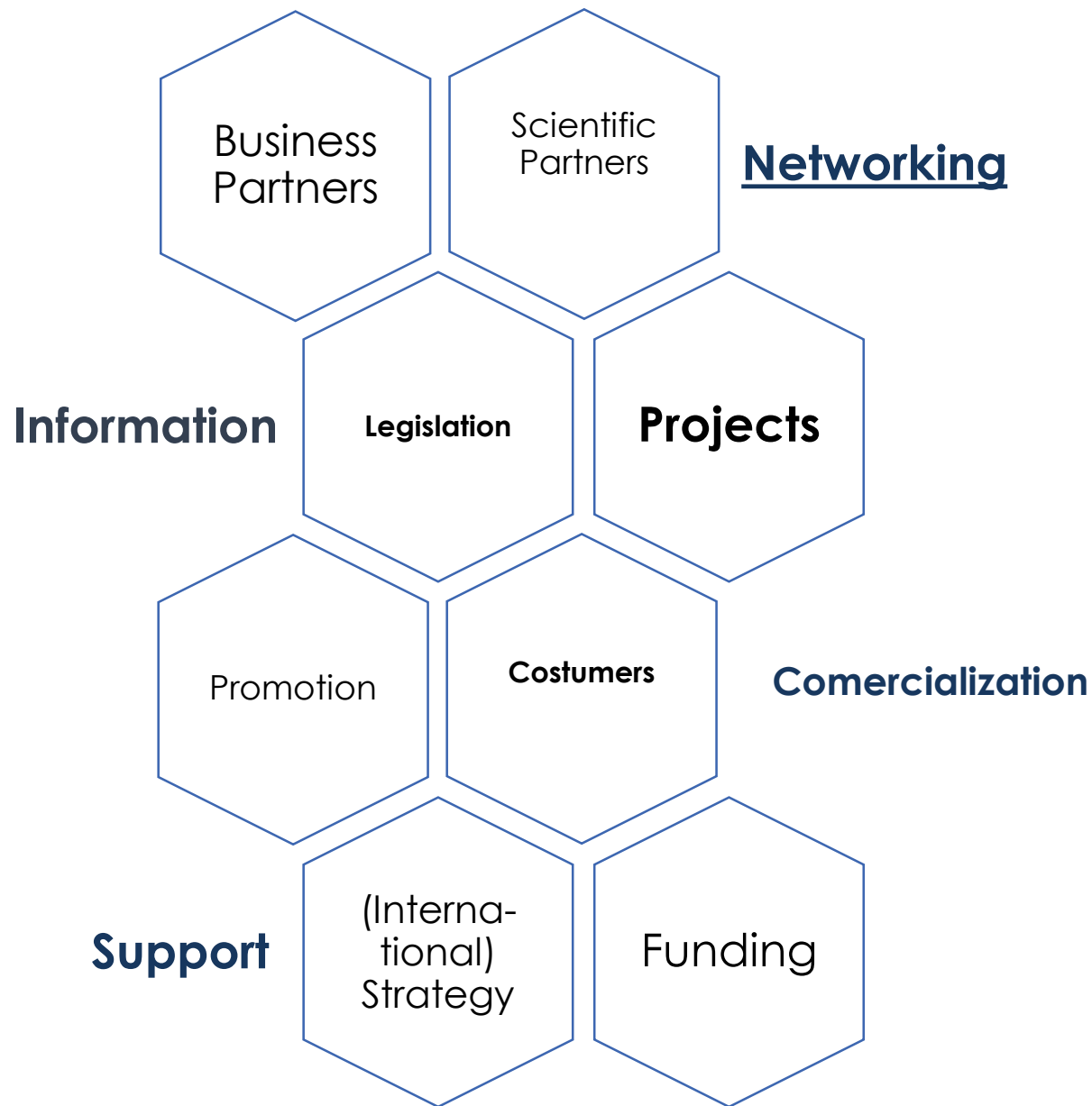
20% of cluster's industrial members
are directly involved in developing
3D printing technologies.



Ecosystem - needs

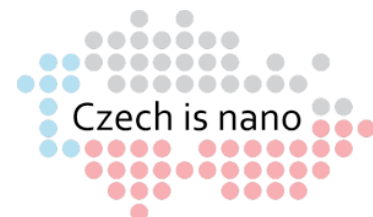


Ecosystem - actions



We create a platform of cooperation and organise meetings where all stakeholders can meet

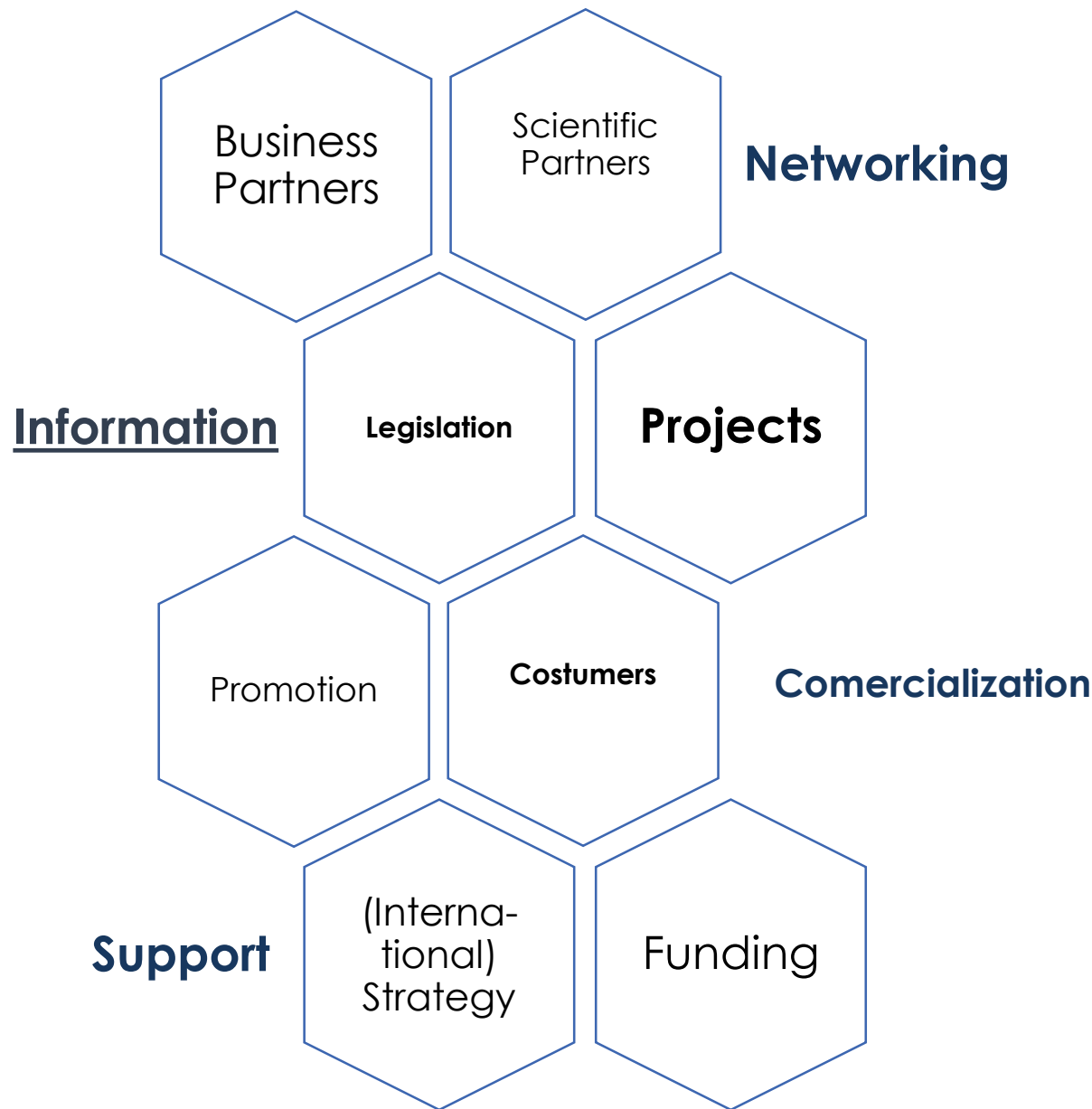
We collaborate with partners around EU



as well as local authorities and national agencies



Ecosystem - actions

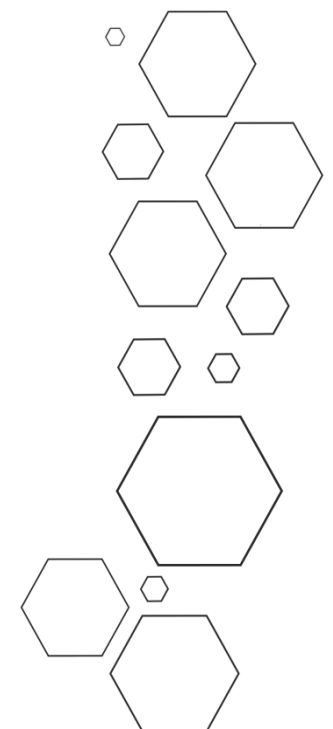


We monitor and inform on legislative processes and available projects.

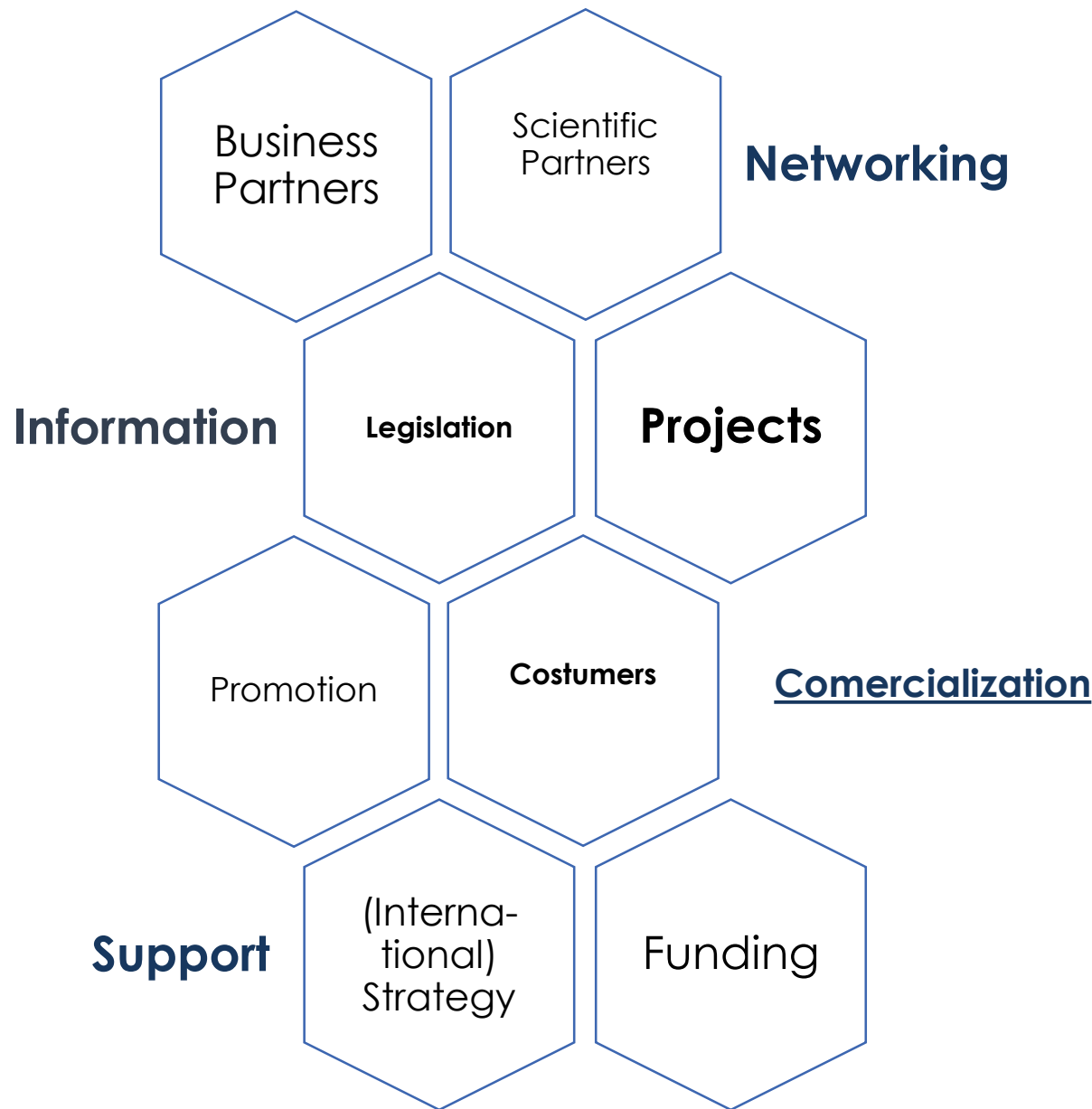
We are acively engaged in projects on nanosafety



and those that prvide development of KETs



Ecosystem - actions

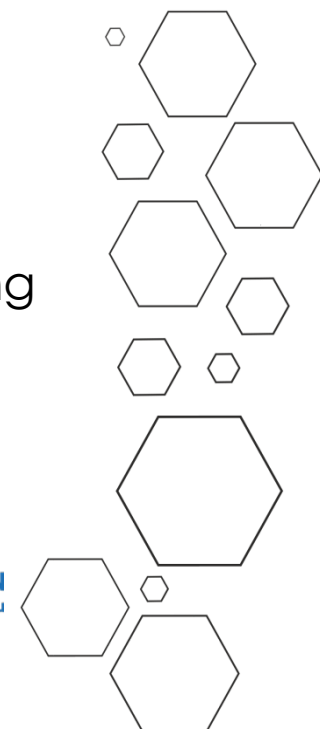


We promote our cluster and its members during multiple events including:

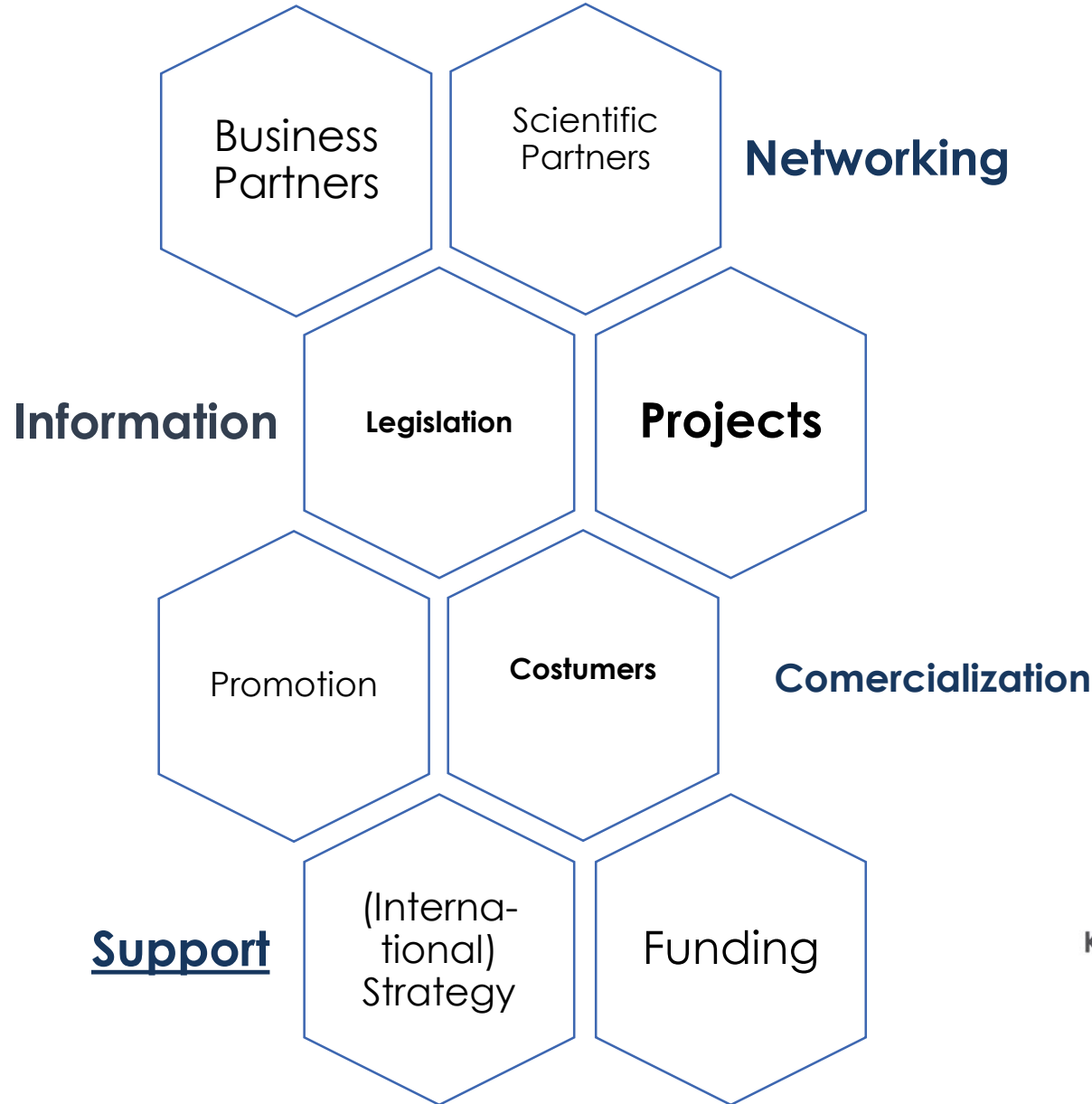
- 5 economic forums
- 12 trade fairs
- 35 seminars and conferences
- 1 parliament speech



We share information on services using interna communication channels, newsletter and webstite but also international paltforms



Ecosystem - actions



It is all about providing diverse environment for sustainable growth in every stage of development of the new technologies and policies

Sponsors of the foundation are:



Previous editions:

- ✓ 4 conferences
- ✓ 800 participants
- ✓ 17 countries
- ✓ 100 entrepreneurs
- ✓ 20 start-ups
- ✓ 2 nano start-up competitions
- ✓ 154 oral presentations
- ✓ 260 posters

www.internanopoland.com

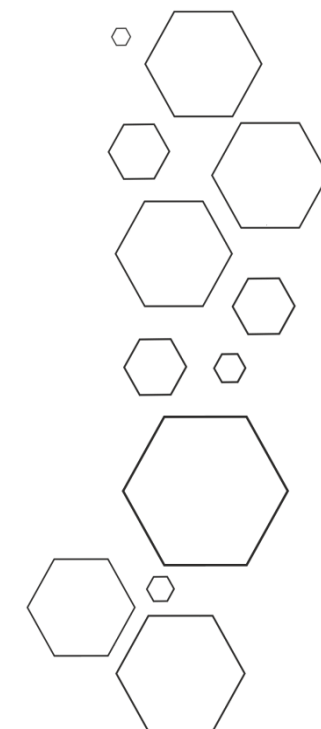


Business-to-Science

International Conference

16th - 18th October 2019

**3D PRINTING
SESSION!**



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