Risk Governance of Nanomaterials

3 European projects working together

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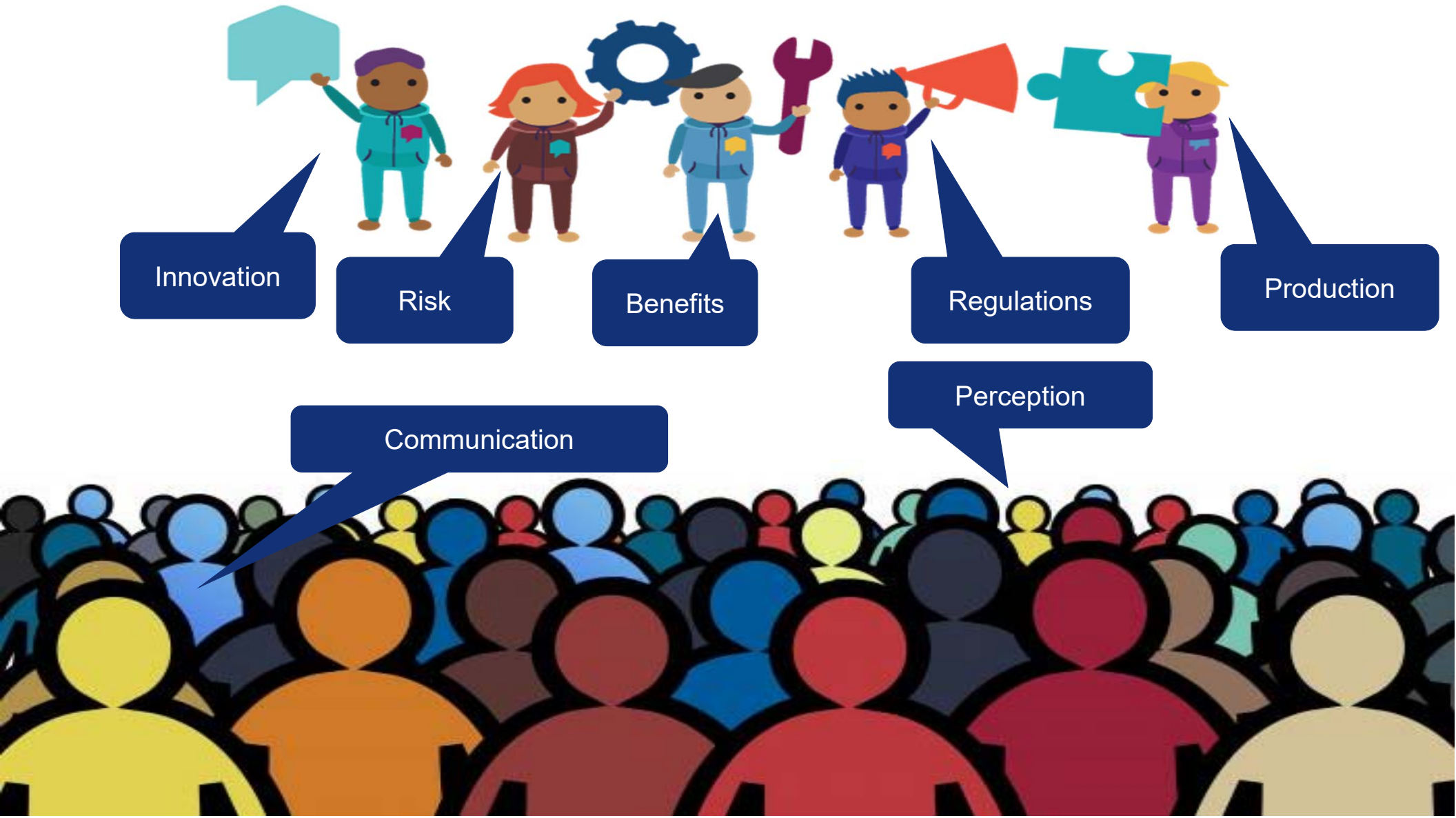
Innovation
Risk
Benefits
Regulations
Production
Perception
Communication

Governance

Challenge

- Nanotechnology impacts a broad range of industries and applications
- Interaction of engineered nanomaterials with the living environment is complex and is marked by uncertainty and ambiguity
- Urgent need to develop appropriate governance structures, to ensure the trust of all stakeholders

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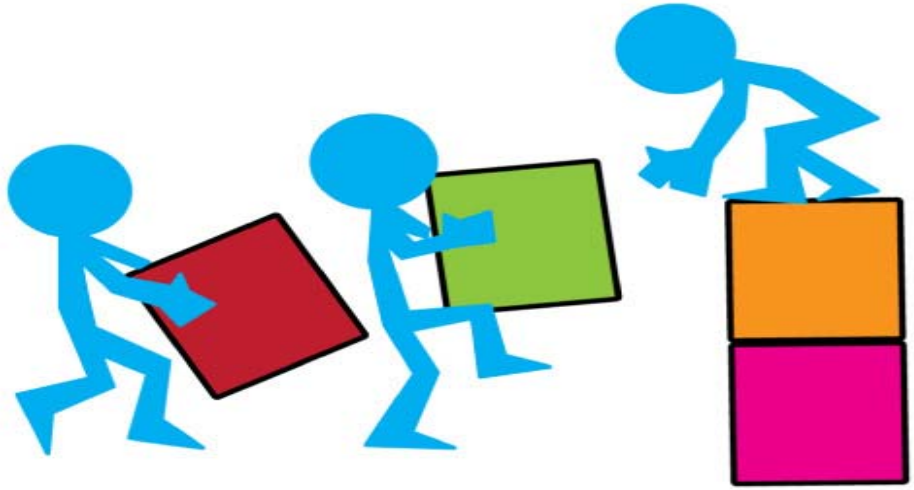
NANORIGO – Gov4Nano – RiskGONE
NanoInformaTIX - NanoSolveIT



We must play together

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FAST FACTS

Financial resources
H2020 Projects
Budget: € 18.3 million

Duration
January 2019 – February 2023

Collaboration
3 projects
82 partners
17 EU countries, Brazil, India, Iran, Switzerland, South Africa, South Korea and USA

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Risk Governance Framework for decision making

Supporting Infrastructure data, tools & instruments

Outcome

- Self-sustained European Risk Governance Council
- Proof of concept of an effective risk governance process
- Operational Nanotechnology Risk Governance Framework
- NanoSafety Governance Portal
- Demonstrate functioning of the Council

Nano Risk Governance Framework

- Decision making framework for Council
- Future-proof based on International Risk Governance Council
- Integrates scientific data and operational tools
- Participative and pro-active role for stakeholders
- Based on existing infrastructure
- All domains: chemicals, biocides, consumers, food, medicine
- Connecting key organizations and stakeholders (EU and global)

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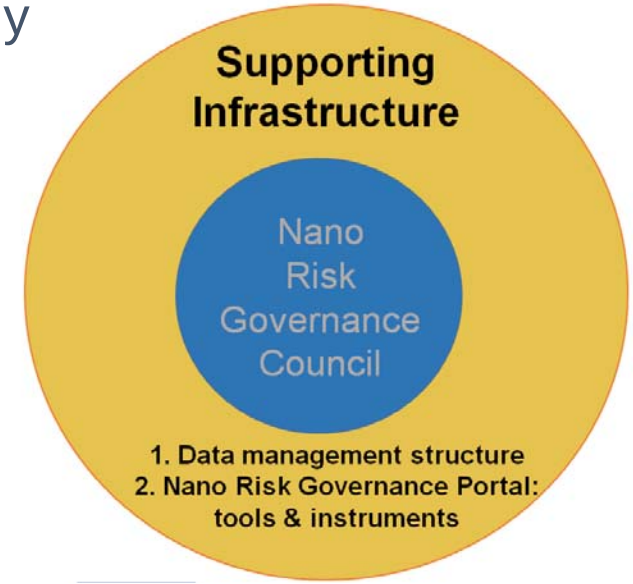
Nano Safety Governance Portal

- Infrastructure integrates academic, industry and regulatory
- Validated state-of-the-art tools
- NANoREG, caLIBRAte, NanoCommons & NanoReg2
- QA/QC processes and decision tree
- Process for collection and harmonisation of data
- Covers applicability and acceptance (regulatory or industrial)



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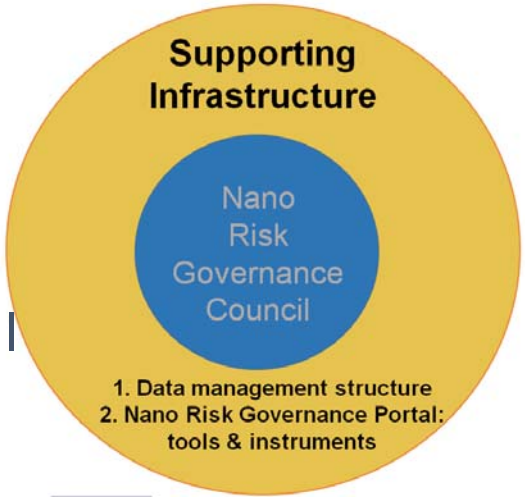
Data management (incl. NMBP-14 projects)

- FAIR – EHS data infrastructure

  ***F**indable, **A**ccessible, **I**nteroperable and **R**eusable*
- Computation platforms allow easy access to curated data
- Easy uploading, Quality Assessment e.g. Mutual Acceptance of Data (OECD)
- Build on NanoCommons and work towards machine learning



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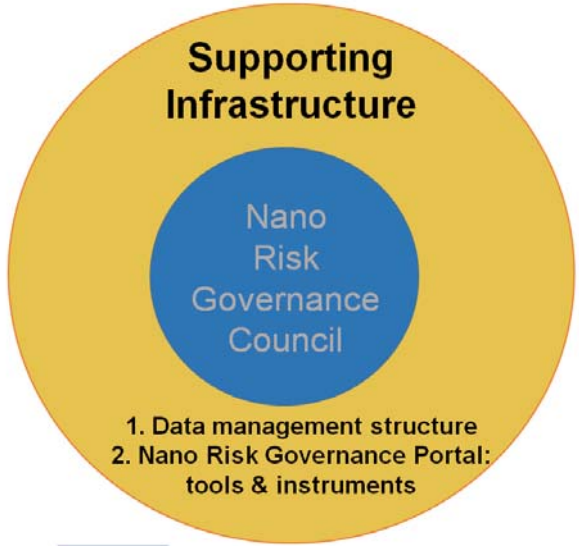
Scientific support for harmonised testguidelines

- Collaboration with Malta Initiative to join (EU) forces
- Nano-specific adaptations of OECD TG/GD
- Dedicated regulatory risk research & experimental work
- Specific endpoints to be addressed: surface chemistry, solubility, reactivity and dustiness of nanomaterials



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The Malta Initiative

A joint route towards standardisation, testing guidelines and guidance documents.

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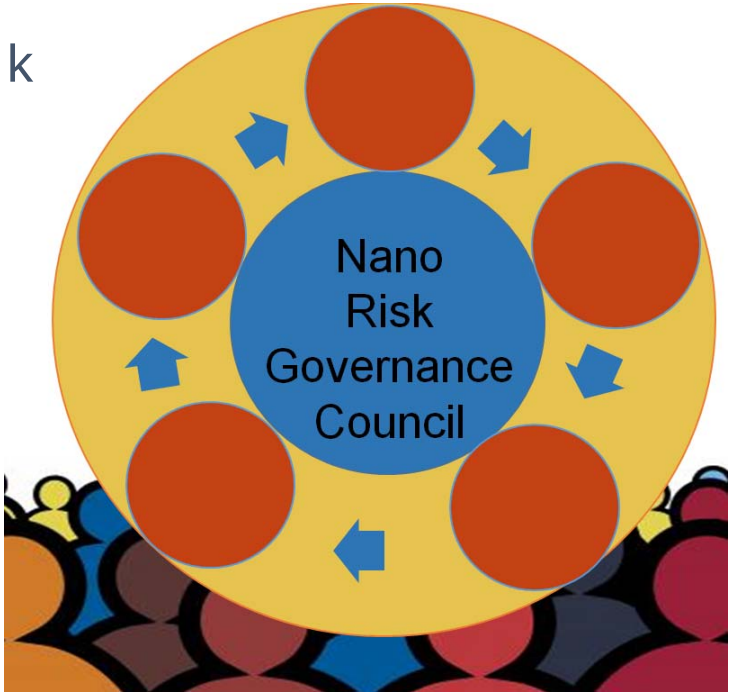
Nanotechnology Risk Governance Council

- Governance Council to put the framework into practice
- Overarching, independent, trustworthy body
- Bridge between knowledge generators and decision makers
- Services for all stakeholders



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