

D3.2

The Risk Governance Framework prototype (NRGF)



Introduction

- D3.2 outlines the background on which the NANORIGO Risk Governance Framework is founded and explains the structure, and architecture of prototype and the web-based demonstrator
- The integration of ethical, social, legal and environmental aspects (ELSEA) of nanotechnology is a key element in the NANORIGO Risk Governance Framework (RGF)
- The framework developed by NANORIGO integrates selected methods, tools and best practices that can improve or complement existing regulation and industry practices for safety and risk management.
- The framework aims to help various actors and stakeholders to deploy a responsible nanotechnology risk governance process, and to improve their practices based on a learning process of their potential deficiencies and opportunities.



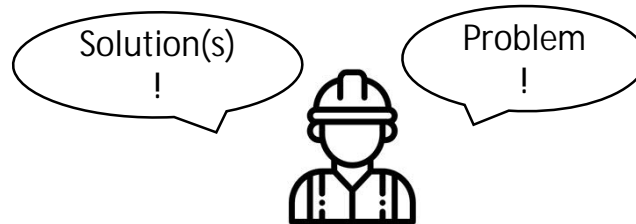
D3.2 structure

- This report (D3.2) is composed from three different parts:
 1. D3.2-A Background document for NANORIGO Nanotechnology Risk Governance Framework (NRGF)
 2. D3.2-B The Demonstrator of the Risk Governance Framework prototype
<http://nanorigo.europeanprojects.net/>
 3. D3.2-C NRGF Web-platform manual
- The D3.2-A report is the supporting document for the Risk Governance Framework prototype.
- The web-platform prototype (demonstrator D3.2-B) is based on D3.2-A (“NANORIGO Nanotechnology Risk Governance Framework, NRGF”) in which all the functions and resources (tools, databases, and documents) will be integrated
- The D3.2-C report will serve as a manual for using the prototype.

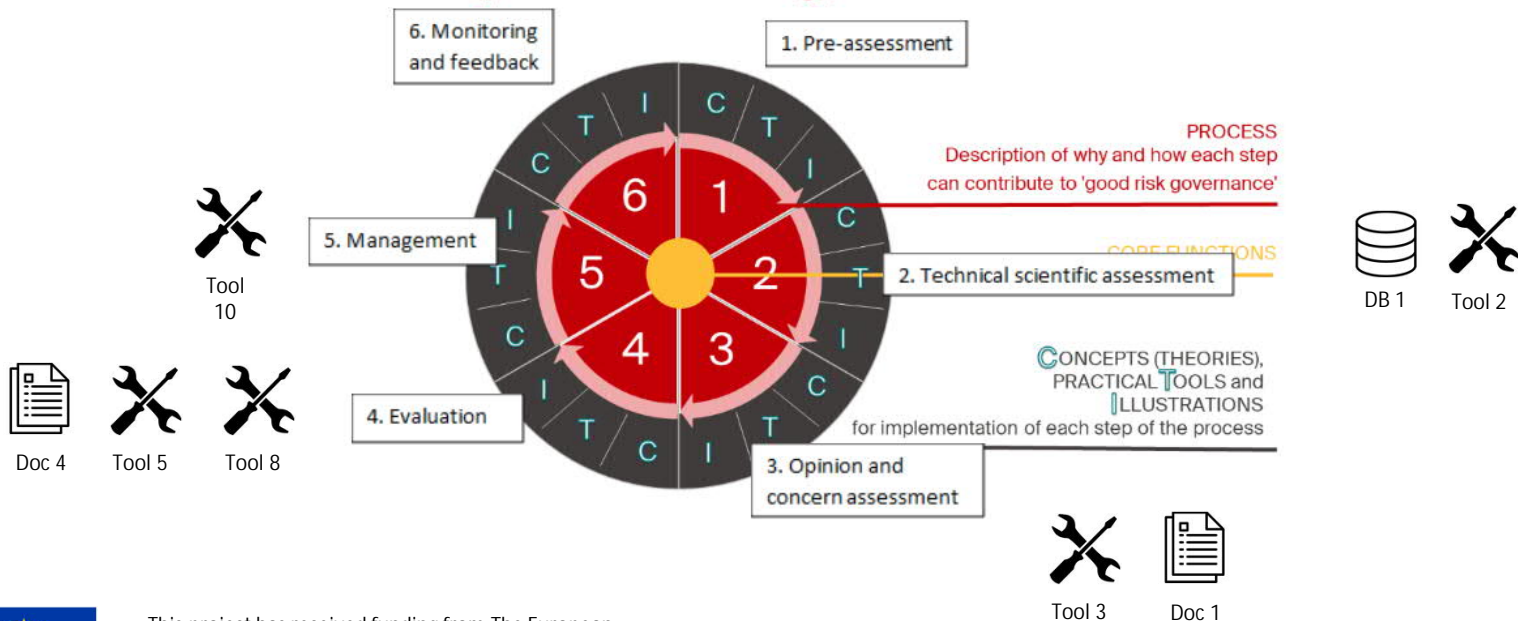


NANORIGO

Outline of the risk governance framework prototype



A possible Nanotechnology Risk Governance Framework



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Conclusions

- The NRGF provides a comprehensive and integrative method to deal with safety and risk, with risk defined as the effect of uncertainty on objectives (ISO 31000) or uncertain consequences of events or activities with respect to something that human value (IRGC).
- Risk acceptability varies across sectors, stakeholders, cultures and internationally, so determining and agreeing on what risk is acceptable and to what extent, using a multi-stakeholder process directs towards a shared objective.
- The NRGF will enable evidence-based weighing of benefits and risks, in view of intended purpose, and trade-off resolutions
- The NRGF can also be used to evaluate and recommend guidelines for addressing needs and concerns related to long-term sustainability and Responsible Research and Innovation (RRI).
- The NRGF is a framework that addresses a range of issues related to emerging technologies, in a co-creation process with stakeholders, to ensure robustness and legitimacy, and to work towards the future.

