

Risk Governance: Managing the Life Cycle of Risk

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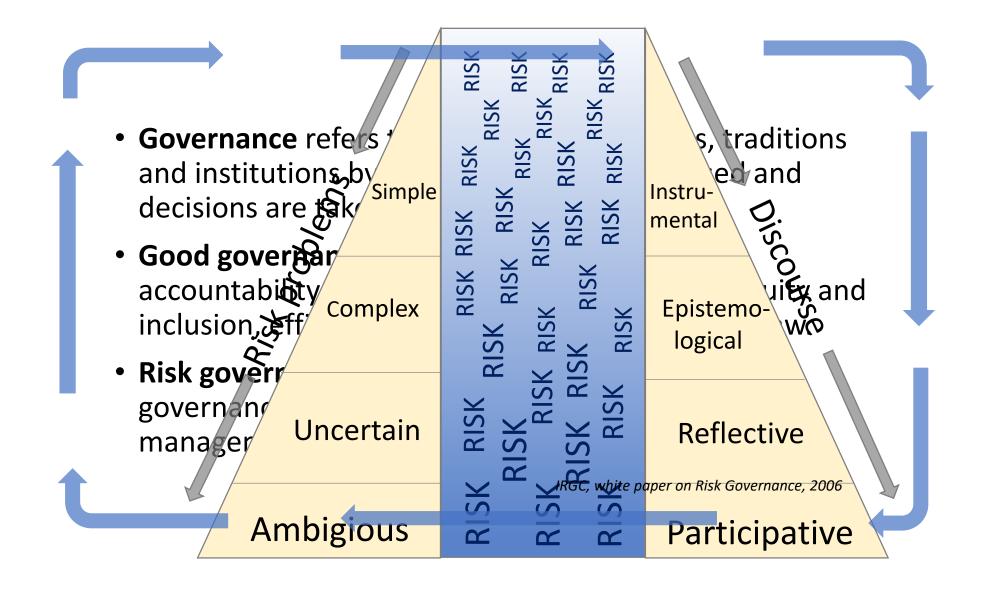








Risk Governance: Managing the Life Cycle of Risk



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Management Sphere: Assessment Sphere: Decision on & Implementation of Actions Generation of Knowledge Interlinked steps **Monitoring** Pre-ass Pre-Assessment Core functions serving cross-cutting and feedback Problem Framing aspects **Early Warning** Screening **Risk Management** • involving stakeholders Risk Assessment Determination of **Implementation** Scientific Conventions • HGQMMHNiCation Estimation Option Realisation Scientific (technical) **Monitoring & Control** asse ment • • Exposure is a tilperability Assessment Feedback from Risk Mgmt. Practices **Risk Estimation** Usake guidancent **Decision Making Communication** • Risk Perceptions Integrations validated methods, tools Opinion Identification & Generation **Opinion Assessment** andsbest practices **Opinion Evaluation & Selection** Perception, opinion and Evaluation **Tolerability & Acceptability Judgement Risk Evaluation Risk Characterization** Judging the Tolerability Risk Profile & Acceptability Judgement of the

Seriousness of Risk

Conclusions & Risk Reduction Options

Need for Risk

Reduction Measures

NAN RIGO

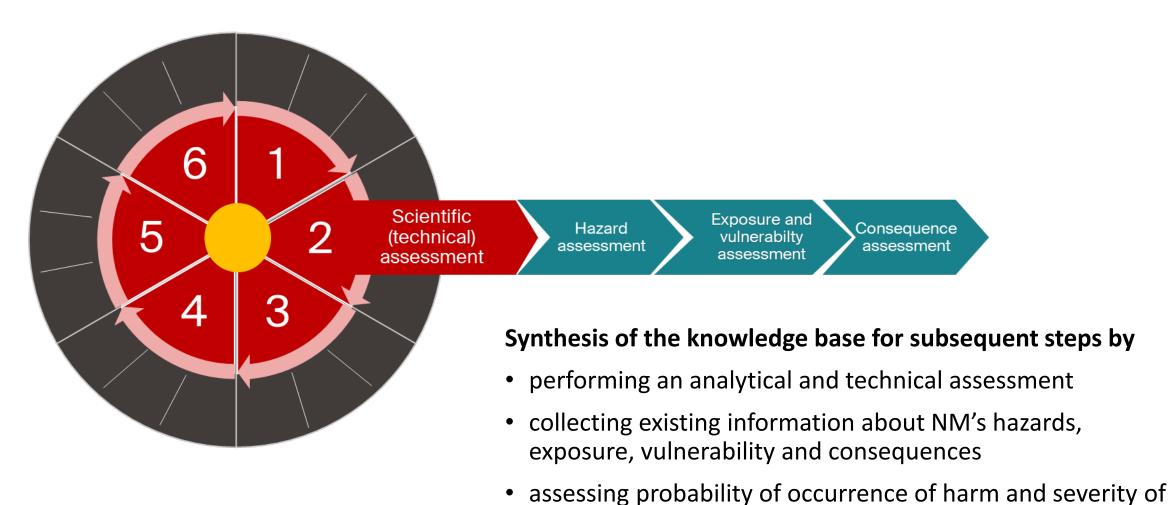
IRGC, white paper on Risk Governance, 2006

Nano Risk Governance: Pre-assessment





Nano Risk Governance: Scientific Assessment

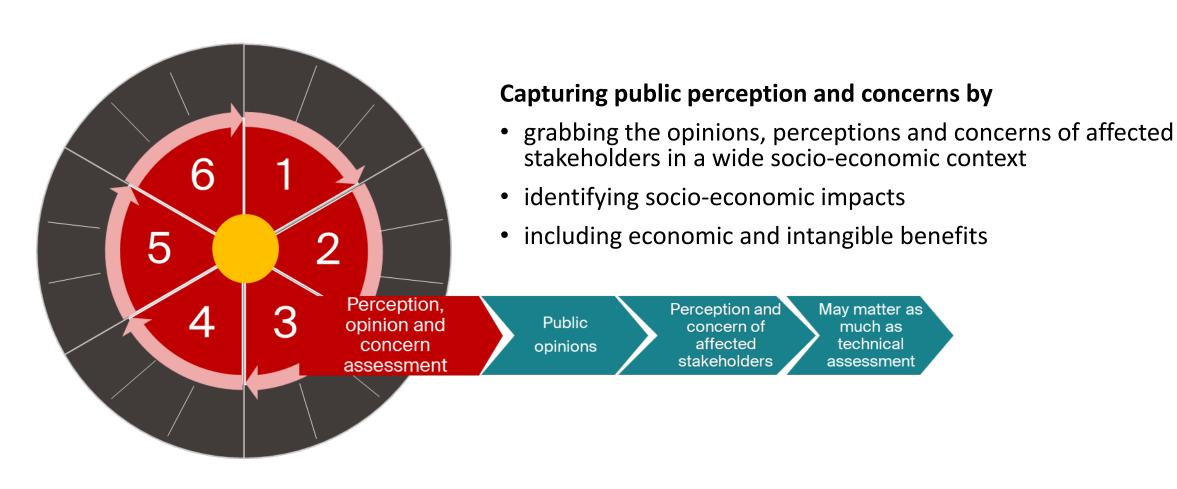


consequences through quantitative and qualitative models

for human and environmental risk assessment



Nano Risk Governance: Opinion, Concern & Risk Perception Assessment





Nano Risk Governance: Evaluation

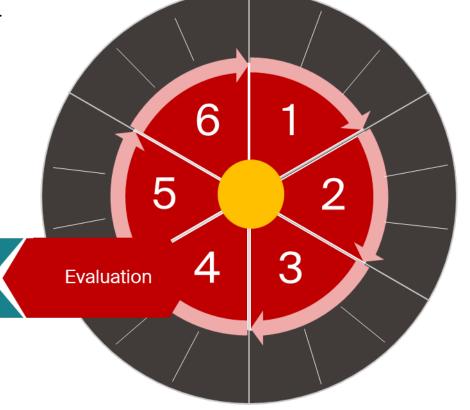
Determination of the significance and acceptability of the risk by

reviewing technical and concern assessment

 considering economic, political or other priorities of decisionmakers

 deciding about precautionary approach if knowledge is insufficient or

 proposing responsible innovation with appropriate risk management measures



Decision

Tolerability to the risk

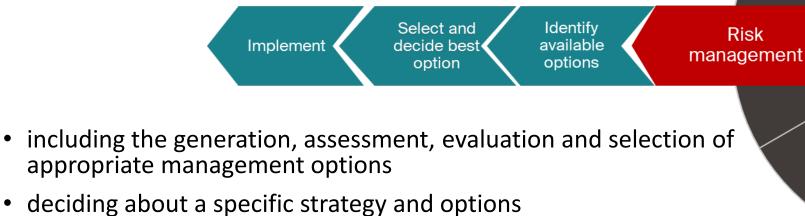
Characterisation of the risk



Nano Risk Governance: Risk Management

Treatment and regulation of risk by

- designing and implementing the actions and remedies required to
 - avoid
 - reduce (prevent, adapt, mitigate)
 - transfer or
 - retain the risks



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3

• implementing the strategy



Nano Risk Governance: Monitoring and Feedback

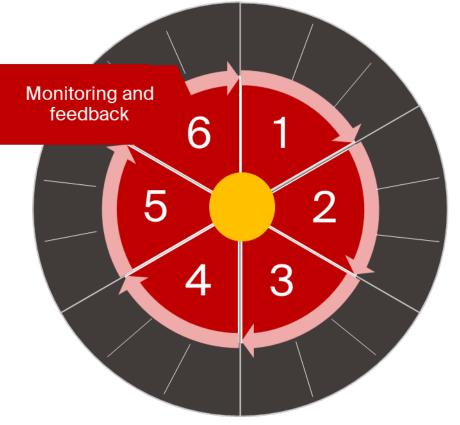
Monitoring of risk, feedback to stakeholders and risk owners, and adoption of measures until the end of risk life cycle by

ensuring compliance with developing regulatory and social needs

Review and revise Evaluate success Monitor performance

ensuring economic, human health, social and environmental sustainability

- performance monitoring
- evaluating and providing feedback to assessors and managers







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Thank you for your interest

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