

# Standards in Practice

## *Embedding Resilience in Infrastructure*

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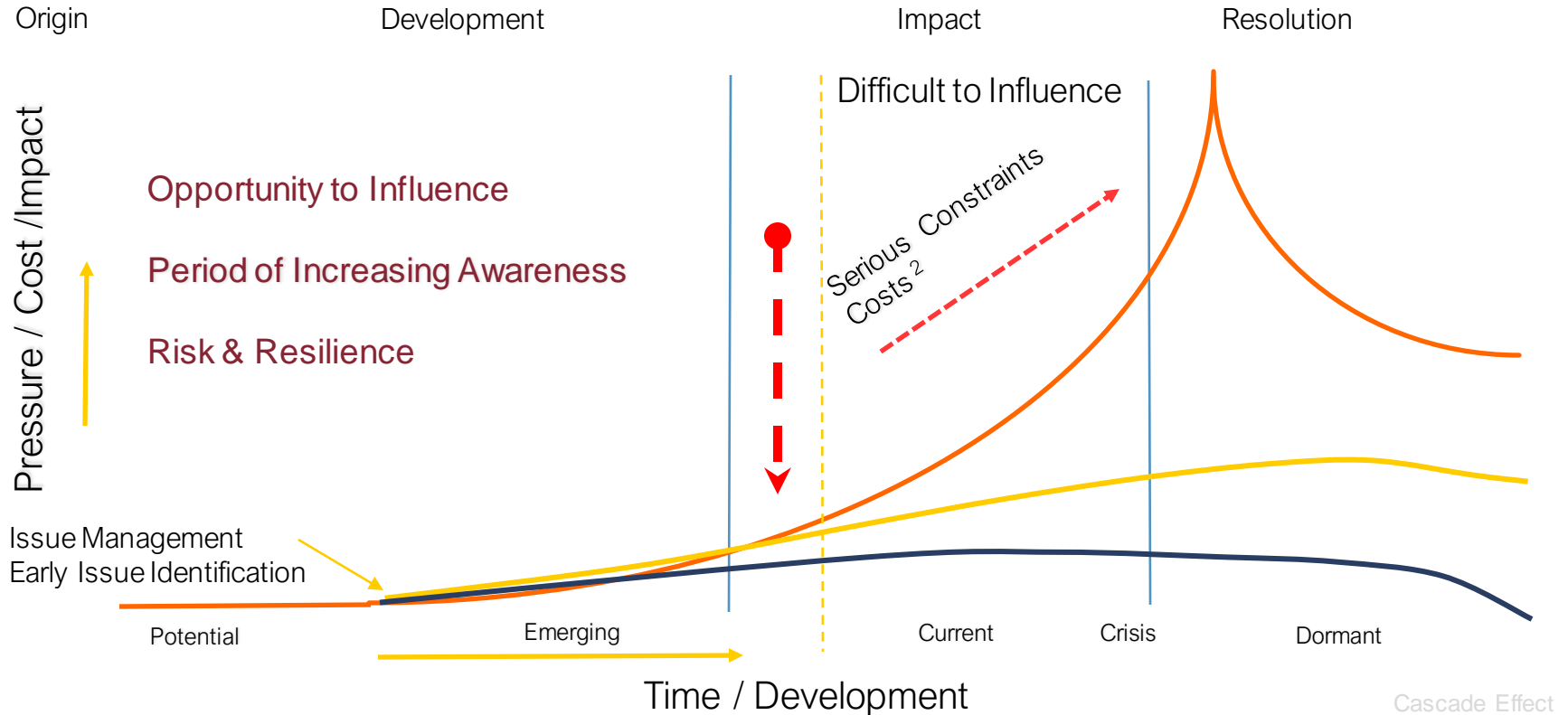


# Who are ISO?

- Founded in 1948, ISO is the worlds largest publisher of international standards covering 170 countries. It is an NGO and is based in Geneva.
- ISO provides a bridge between public & private sectors. Many of its members are part of government.
- ISO builds a consensus that aim to meet the needs of business and broader society.
- A critical component to World Trade Organization rules & national standards, regulation and legislation



# Risk & Resilience Life Cycle



# Landscape and Context

## Development of standards

Business Continuity

Crisis Management

Information Technology & Security

Physical Security

Governance

Risk Management

Organizational Resilience

Disaster Recovery

Compliance & Regulation

Emergency Management

Bigger picture

# Resilience: a quality of an organisation to ‘keep going’

## CAPABILITIES, e.g:

- Anticipation
- Response
- Adaptation
- Recovery
- Learn and Improve

## ACTIVITIES, e.g:

- Risk management
- BCM
- Contingency planning
- Supply chain mgmt

## ATTRIBUTES, e.g:

- Organisational culture
- Strategic insight
- Informed decision-making
- Adaptability
- Strong leadership

## PRINCIPLES, including:

- Clarity and focus on why the organisation exists, its core values & value generating activities
- Commitment to resilience as a core value across the organisation
- Normalise risk and resilience thinking and planning at the team level
- Leadership and managerial commitment – engagement, teamwork and collaboration

Bigger picture

# Protecting the future

## How standards are changing and evolving

- Business Continuity
    - ✓ ISO 22301:2018
    - ✓ ISO 22313:2018
  - Organizational Resilience
    - ✓ ISO 22316:2017
    - ✓ BS 65000:2022 Building on good practice
  - Risk Management
    - ✓ ISO 31000:2018
    - ✓ IEC 31010:2019
    - ✓ ISO Guide 73:2009 & ISO 31073
    - ✓ ISO 31022 Legal Risk Management
- Building insight and information to create and preserve value in society

# We need an ISO on Resilient Infrastructure

Better information and improved national planning for critical infrastructure

- There currently are no ISO standards on resilient infrastructure
- Creates common understanding and consensus on “resilient infrastructure”
- Infrastructure investment and planning do not take into account the systems approach or complex nature of risks
- Infrastructure systems and the services they provide are increasingly being affected by natural and man-made hazards

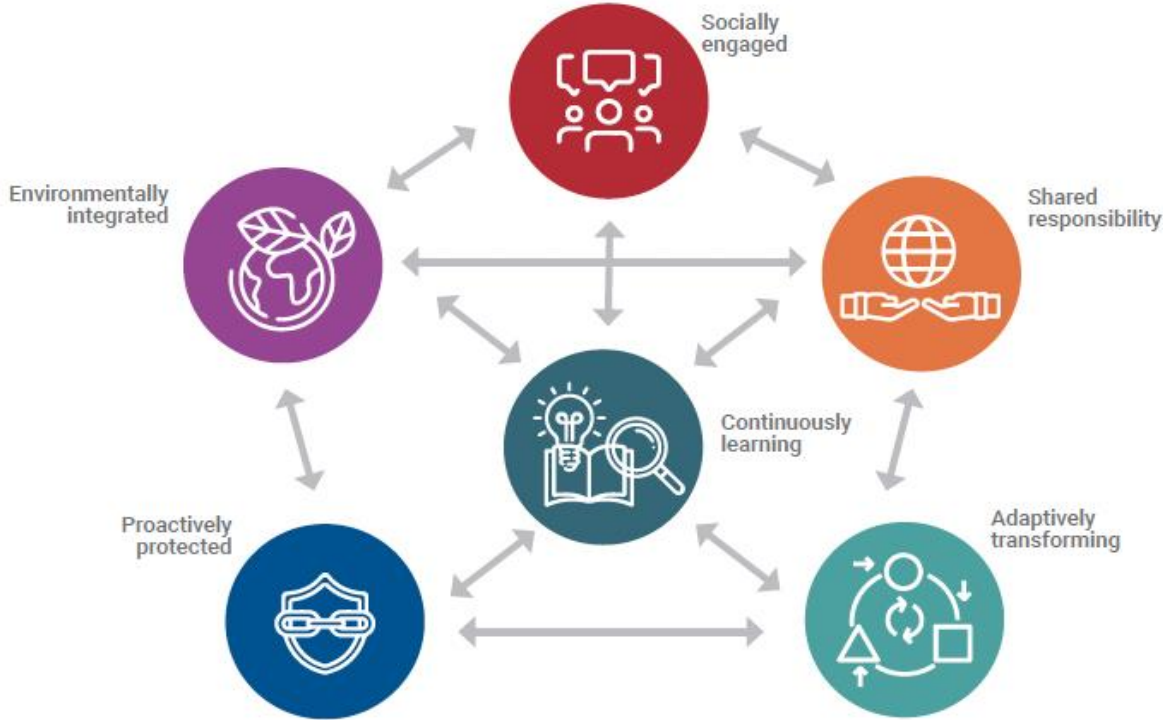
## ISO 22372 Resilient Infrastructure —Guidelines

Probability

# Foundations for success



Handbook for  
Implementing the  
Principles for Resilient  
Infrastructure





# Summary & Questions

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