Maritime Risk Management Frameworks and Toolboxes

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OVERVIEW

Risk Management: Generic Concepts

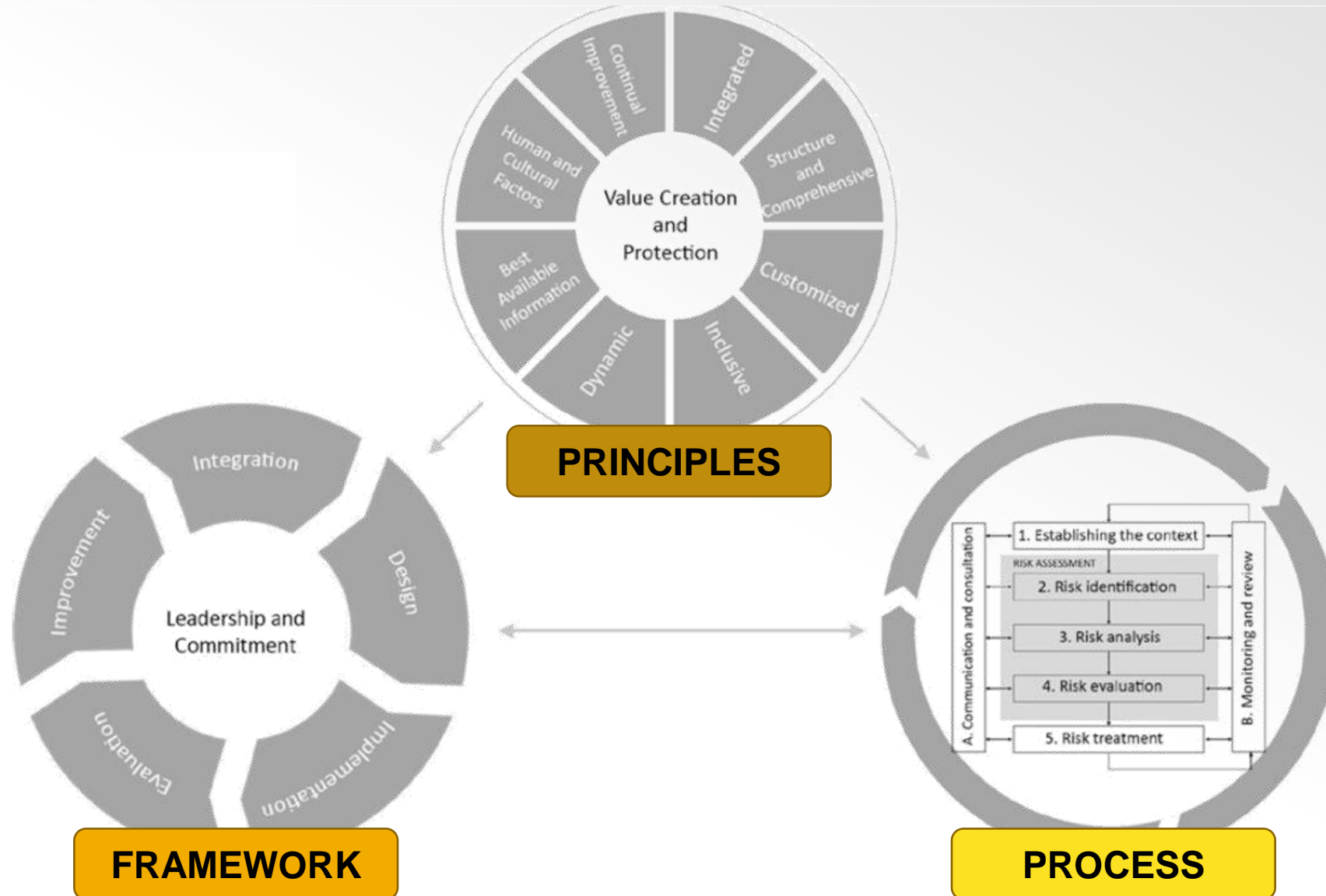**Risk Frameworks for
Maritime Authorities and Industries**
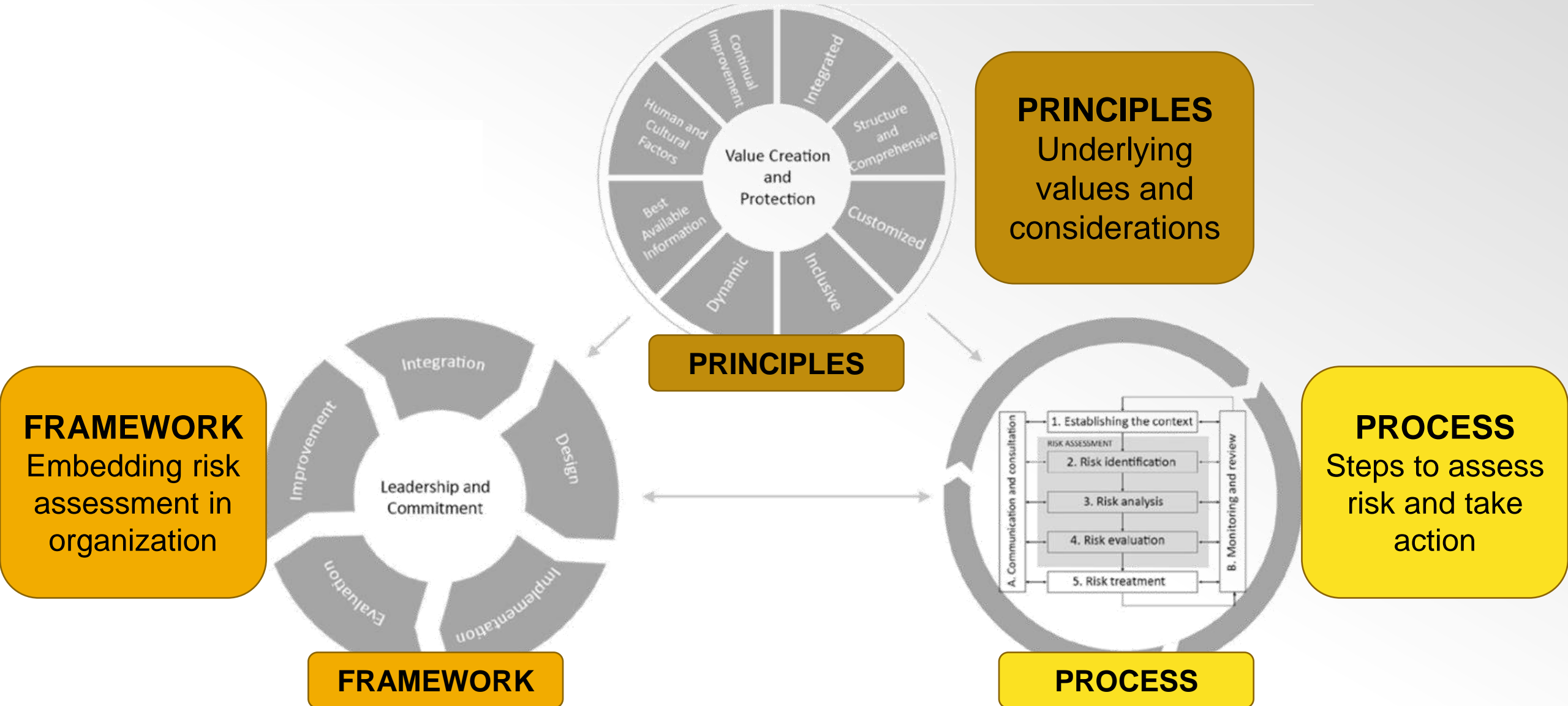
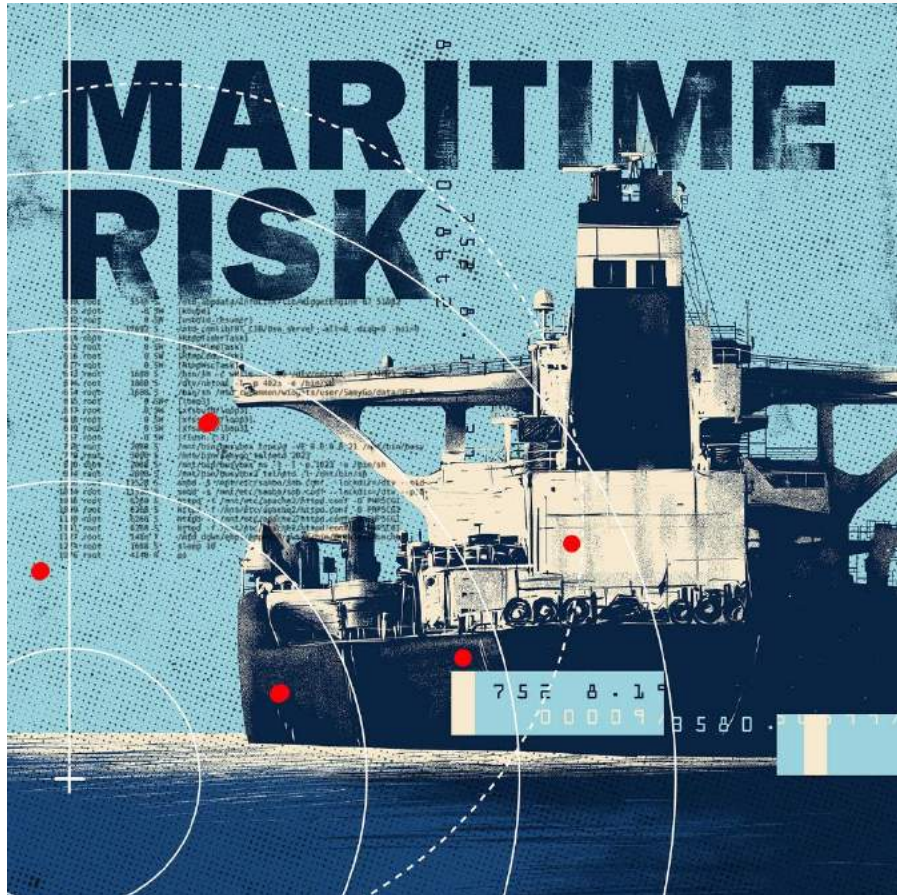❑ **Pollution Prepardness and Response**

❑ **Port Risk Management**

Risk Management: Generic Concepts

ISO31000:2018 Overview

PRINCIPLES

FRAMEWORK

PROCESS

ISO31000:2018 Overview

PRINCIPLES
Underlying values and considerations

PRINCIPLES

FRAMEWORK
Embedding risk assessment in organization

PROCESS
Steps to assess risk and take action

FRAMEWORK

PROCESS

Risk Frameworks for Maritime Authorities and Industries

Maritime Risk Frameworks and Toolboxes: Examples

Example		Application Domain	Intended users
EPPR Guideline	EP PR	**Arctic Risk Assessment Shipping accidents Environmental risk**	Administrations Intergovernmental Organizations Non-governmental Organizations Consultants
Hazard Toolkit	HAZARD	**Seaport risk management**	Port Authorities Terminal Operators Marine Industry
IALA Toolbox	IALA	**Navigation risk for Aids to Navigation**	Administrations Intergovernmental Organizations
OpenRisk guideline	OpenRisk	**Oil spill preparedness**	Administrations Intergovernmental Organizations

Maritime Risk Frameworks in light of ISO31000:2018
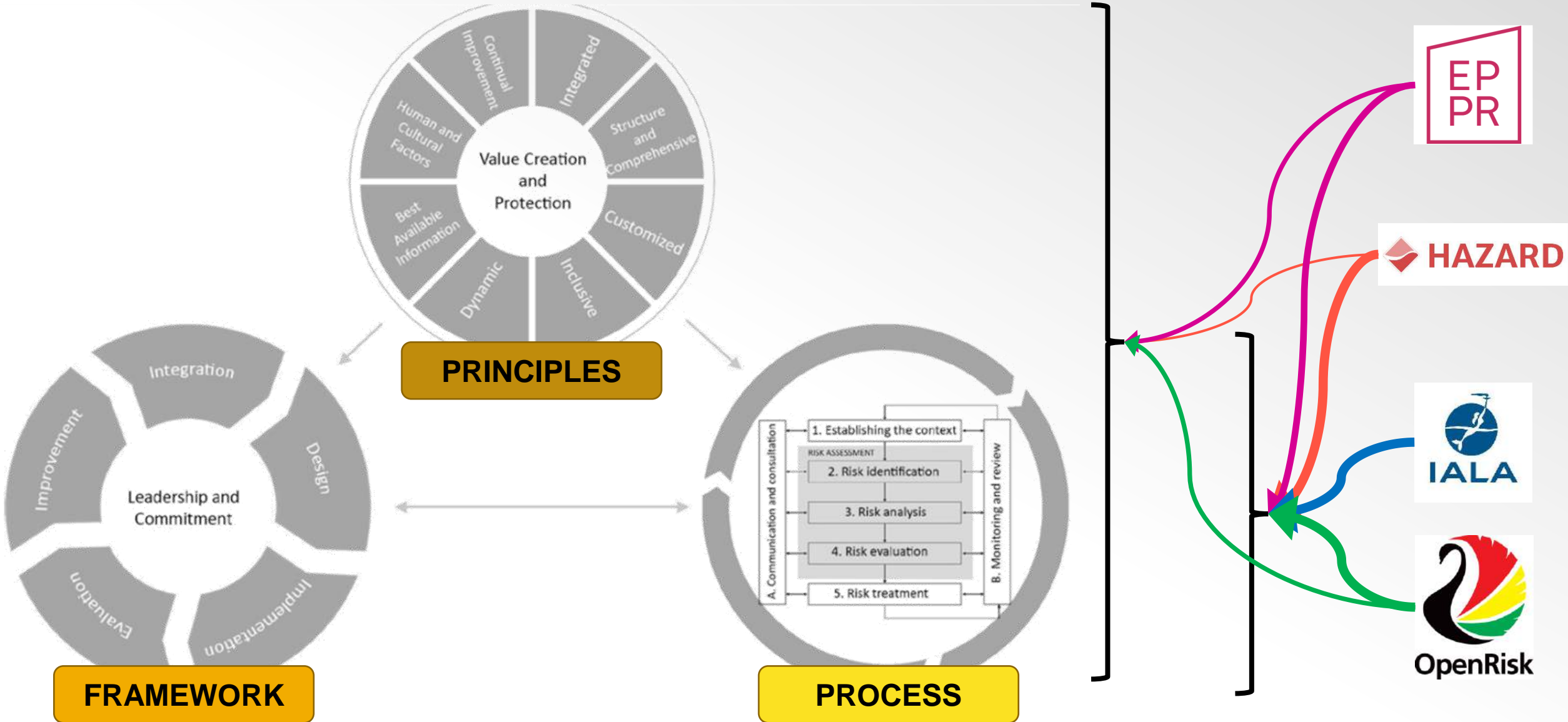
Pollution Preparedness and Response

EPPR Guideline for Arctic Marine Risk Assessment

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EPPR Guideline for Arctic Marine Risk Assessment

RISK ASSESSMENT PROCESS DESCRIPTION

1. Scope, context and criteria
2. Risk identification
3. Risk analysis
4. Risk evaluation
5. Risk treatment
6. Report

TOOLS AND RESOURCES

BEST PRACTICES

References to completed reports on models and analyses

DATASETS

Repositories and sources for meteorological, oceanographic data, ice data, biological data

WEB TOOLS

Online maps on environmental vulnerability and marine activities

ARCTIC COUNCIL WORKING GROUPS

Links to relevant projects within Arctic Council relevant for Marine Risk Assessment

Seaport Risk Management

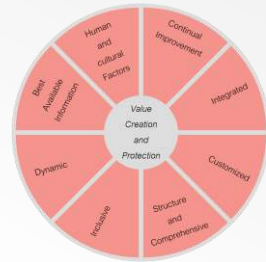**HAZARD Toolkit**
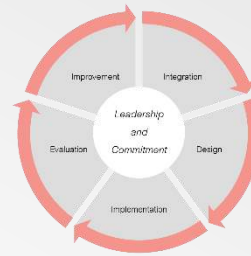
Source: https://hazard.logu.tuhh.de

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Seaport risk management: HAZARD Toolkit

RISK MANAGEMENT

Principles

Framework

Process

HAZARD TOOLKIT

SEARCHABLE REPOSITY OF RISK TOOLS

1	2	3	4	5
Risk Groups	Risk Subgroups	Risks	Method Properties	Complete

TAGS

Risk Groups

Risks

Method Properties

- ❑ Environmental
- ❑ Natural disasters
- ❑ Safety
- ❑ Organisational

- ❑ Spills and leakages
- ❑ Dangerous goods
- ❑ Meteorological
- ❑ Software
- ❑ Machinery and devices
- ❑ Containers
- ❑ Hydrological
- ❑ Employees
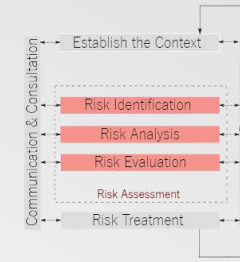
- ❑ Method type
- ❑ Complexity
- ❑ Effort
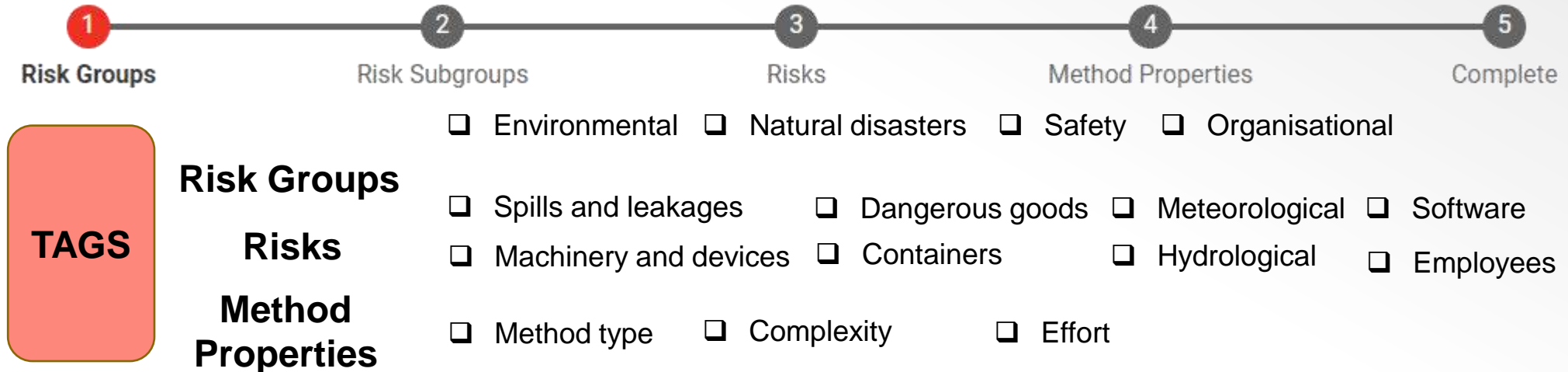
Thank you!
Questions?

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