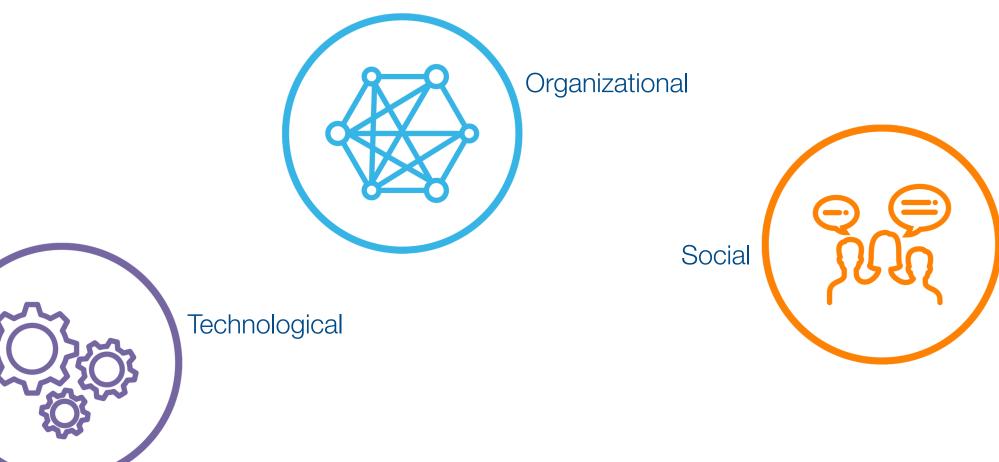
Orphan Risks

Modern risks from radical new technologies, innovative ideas, and shifting norms need more than conventional risk management tools





ORGANIZATIONS & SYSTEMS



The risk domain of organizations and systems concerns the orphan risks associated with how businesses operate, and the broader social, economic, and political environment they operate within. It addresses often-overlooked risks associated with internal culture, and tensions between foundational values and organizational practices. It also addresses the sometimes-intangible risks associated with maintaining reputation and trust, and navigating a complex and shifting national and global governance and regulatory ecosystem.

This risk domain has six dimensions where lack of awareness and process can lead to orphan risks:







Governance & Regulation

Organizational Values & Culture

Reputation & Trust





If this question applies to you



review these orphan risks

Are there other organizations within your industry operating unethically or outside of accepted standards that may lead to stakeholders questioning your own organization?

Bad ActorsReputation & Trust

PerceptionCo-opted Tech

How might current international relations affect your organization's ability to do business globally?

GeopoliticsGovernance & Regulation

Product LifecycleWorldview

How might future global regulations affect your organization?

GeopoliticsGovernance & Regulation

Product LifecycleWorldview



If this question applies to you



review these orphan risks

How might emerging regulations, standards, or governance frameworks affect your business?

Governance & RegulationStandards

Product LifecycleHealth & Environment

How could evolving regulations and norms around the use of personal data affect your business?

Governance & Regulation
 Standards
 Reputation & Trust

Privacy
Social Trends

Loss of Agency

How could the evolving global politics around the use of data and AI potentially affect your business? Governance & RegulationStandardsGeopolitics

PrivacyLoss of Agency



If this question applies to you



review these orphan risks

Are there disconnects between your organization's values and practices that may impact its future?

Organizational Values & CultureReputation & Trust

Ethics

How is organizational culture likely to affect the success of your business?

Organizational Values & CultureReputation & Trust

EthicsWorldview

In what ways could your product or process create tensions around your organization's values?

Organizational Values & CultureReputation & Trust





If this question applies to you



review these orphan risks

In what ways could your organization's culture undermine long term growth and success?

- **Organizational Values & Culture Reputation & Trust**
- Perception (😴 Social Trends Worldview

What might some of the biggest threats be to your organization's reputation?



Reputation & Trust

Perception Social Trends Worldview

How could future product and process developments erode stakeholder trust?

Reputation & Trust Organizational Values & Culture

Ethics Product Lifecycle



If this question applies to you



review these orphan risks

Are there ways that your product is developed, marketed or used that could potentially undermine stakeholder trust, and therefore threaten your organization's reputation?

How might emerging standards around your process or product affect your business?



Reputation & Trust
 Organizational Values & Culture
 Standards

Ethics

Perception

Product Lifecycle



Product LifecycleEthics



SOCIAL & ETHICAL FACTORS

The risk domain of social and ethical factors covers risks that are associated with how people think, feel, and act, and what they believe to be important, appropriate, and right. These risks are tied to personal and societal values and norms, and what is considered to be ethical behavior. They are also associated with how people see the world (their worldview), and their values and beliefs. And they are deeply affected by how people behave, including how perceptions, cognitive biases, and mental shortcuts (heuristics) affect the decisions they make and the actions they take.

This risk domain has six dimensions that lead to potential risks that are easy to overlook, but that can have profound consequences to sustainable growth if not identified and addressed early on:

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- Social Justice & Equity
- Social Trends





If this question applies to you



review these orphan risks

What are the ethical questions associated with your product and its potential uses?



Co-opted Tech
Bad Actors
Reputation & Trust

How might ethical concerns affect your ability to grow and succeed as a company?

EthicsPerceptionWorldview

Reputation & TrustOrganizational Values & Culture

How might perceptions by key stakeholders and influencers affect your organization?

PerceptionSocial TrendsWorldview

Reputation & Trust



If this question applies to you



review these orphan risks

How might negative consumer attitudes toward products similar to yours extend to your own products?



Perception Worldview Social Trends **Bad Actors Reputation & Trust**

How does your product have the potential to compromise the privacy of clients or stakeholders?

How might the data you have privileged access to be used in ways that may compromise others?

Privacy Ethics Perception Social Justice & Equity Loss of Agency **Reputation & Trust**

Privacv Ethics Perception Social Justice & Equity Loss of Agency **Reputation & Trust**



If this question applies to you



review these orphan risks





If this question applies to you



review these orphan risks

Are there ways your product or process could lead to employees or outside stakeholders being discriminated against?

How might your product lead to perceived or actual discrimination, and how might this affect your business?

How might changing trends in the way people make purchases affect your business?

Social Justice & Equity
 Ethics
 Perception

Product Lifecycle
 Loss of Agency
 Reputation & Trust
 Organizational Values & Culture



Reputation & Trust
 Bad Actors
 Co-opted Tech



Product Lifecycle



If this question applies to you



review these orphan risks

How might evolving social norms, behaviors, and attitudes impact your business?



Reputation & Trust
Organizational Values & Culture
Health & Environment

How could the political, religious, and social views of potential customers as well as your larger community affect future business?

How might the cultural practices, beliefs and lifestyles of key stakeholders affect your business?

Worldview
Perception
Social Trends

Reputation & TrustGeopolitics

Worldview
 Perception
 Social Trends

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Reputation & TrustOrganizational Values & Culture



UNINTENDED CONSEQUENCES OF EMERGING TECHNOLOGY



The risk domain of unintended consequences of emerging technologies specifically addresses the often-unanticipated impacts of new technological capabilities. These are risks that often fall within conventional risks domains like health and the environment, but are sufficiently novel that they elude established risk assessment and management approaches.

This risk domain has six dimensions where unintended consequences can lead to orphan risks if they are not considered:

Orphan Risks: Unintended Consequences of Emerging Technologies

- Black Swan Events
- Co-opted Tech
- Pealth & Environment
- Intergenerational Impacts
- De Loss of Agency
- Product Lifecycle





If this question applies to you



review these orphan risks

What are some of the low probability but high impact future risks associated with your product?

Black Swan Events
 Health & Environment

Reputation & Trust

Is there a danger of perceived risks associated with your product affecting your business?

Co-opted Tech

Perception
Bad Actors
Reputation & Trust

How could applications of your technology outside of its stated intended use affect your organization?



Co-opted TechBlack Swan Events

Bad Actors
 Reputation & Trust
 Ethics
 Perception

If this question applies to you



review these orphan risks

If someone else uses your product or process in ways that you and others consider to be unethical, how will this affect your organization?

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Co-opted Tech **Black Swan Events**

Organizational Values & Culture Reputation & Trust Perception **Ethics**

If your organization changes leadership or is acquired by an outside company, could your technology be used in ways that are harmful or dangerous, or otherwise outside of your original intention?

What are the possible unintended health consequences-short and long term--of the services you provide?

Co-opted Tech Loss of Agency Sta

Organizational Values & Culture Reputation & Trust



Health & Environment Intergenerational Impacts Black Swan Events





Does your product have the potential to release persistent pollutants into the environment?

What are some of the ways in which your product could potentially impact mental or emotional health?

Are there potential environmental risks associated with the technology, the product, or the waste produced from the process?





Health & Environment Loss of Agency

Ethics

Ethics

Standards

review these orphan risks

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Health & Environment Product Lifecycle

Standards Governance & Regulation Social Justice & Equity Ethics

Governance & Regulation

Social Justice & Equity



review these orphan risks

Could your product lead to future generations being adversely impacted?

If this question applies to you

Health & Environment Intergenerational Impacts **Black Swan Events**

Social Justice & Equity Ethics Reputation & Trust

How might your technology reduce the ability of customers or community members to have control over their own lives?

Loss of Agency (<u>}</u>∂) Co-opted Tech æ

Ethics Privacy Social Justice & Equity

Ethics

Privacy

In what ways might your product reduce the ability of users or_ other stakeholders to make informed decisions?

Loss of Agency

Co-opted Tech

Social Justice & Equity

Organizational Values & Culture





If this question applies to you



review these orphan risks

Does your product or process risk having built-in biases that potentially lead to some people being discriminated against?

Loss of Agency
Product Lifecycle
Co-opted Tech

- Social Justice & Equity
 - **Ethics**
- Perception
- Organizational Values & Culture

How might your process lead to adverse health and environmental impacts across the product life cycle, from production through to consumption and disposal? Product Lifecycle
 Health & Environment

Standards
 Governance & Regulation
 Social Justice & Equity
 Ethics



Review and Record your Orphan Risks

