

Project Demonstration: Aligning a Remediation Project to Corporate Sustainability Goals

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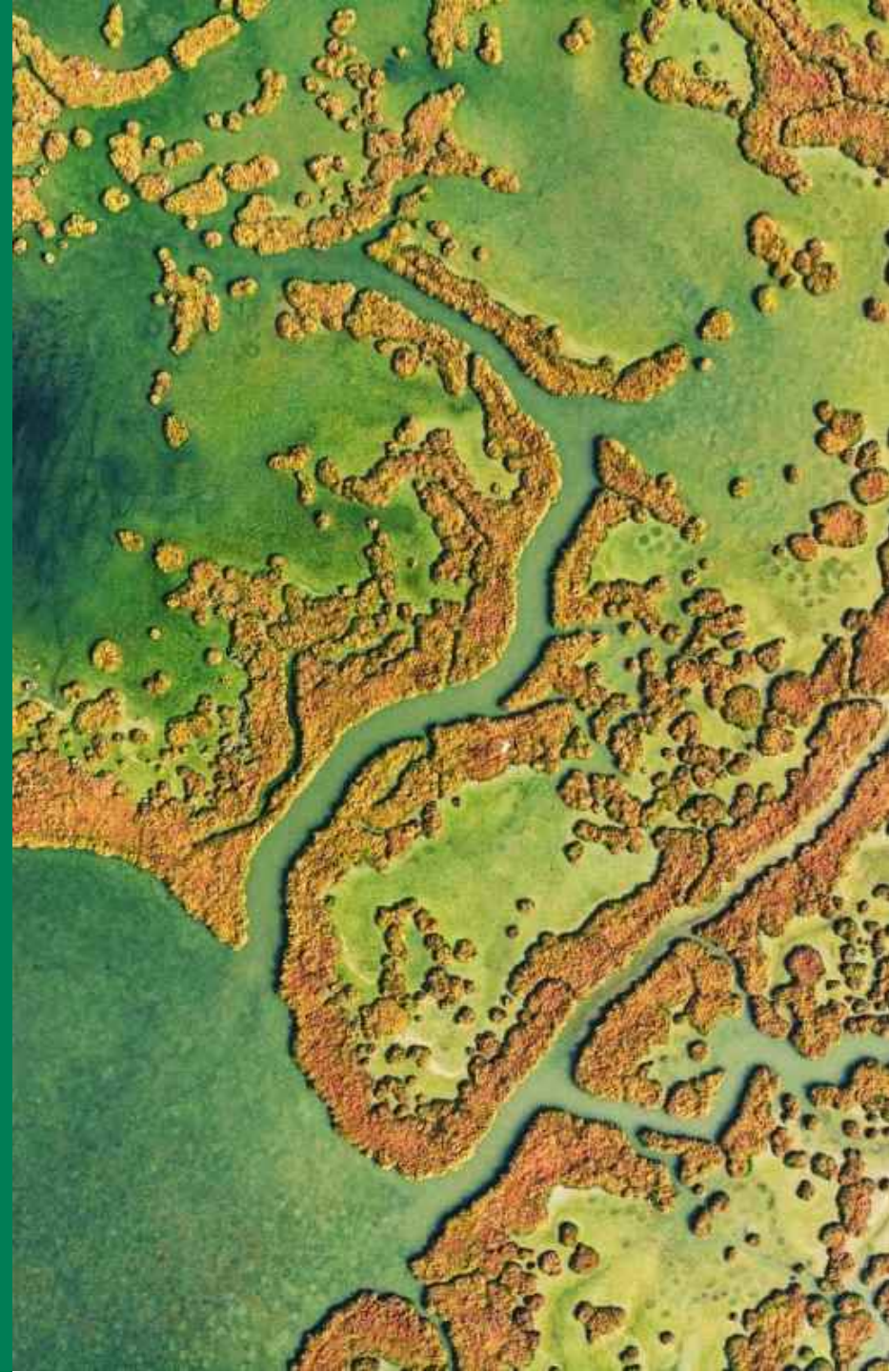
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Agenda

- Refresher: ESG and UN SDGs
- Process Demonstration
 - Step 1: Evaluate corporate goals
 - Step 2: Select and define priorities
 - Step 3: Compare project components
 - Step 4: Align and track progress
- Conclusions
- Questions

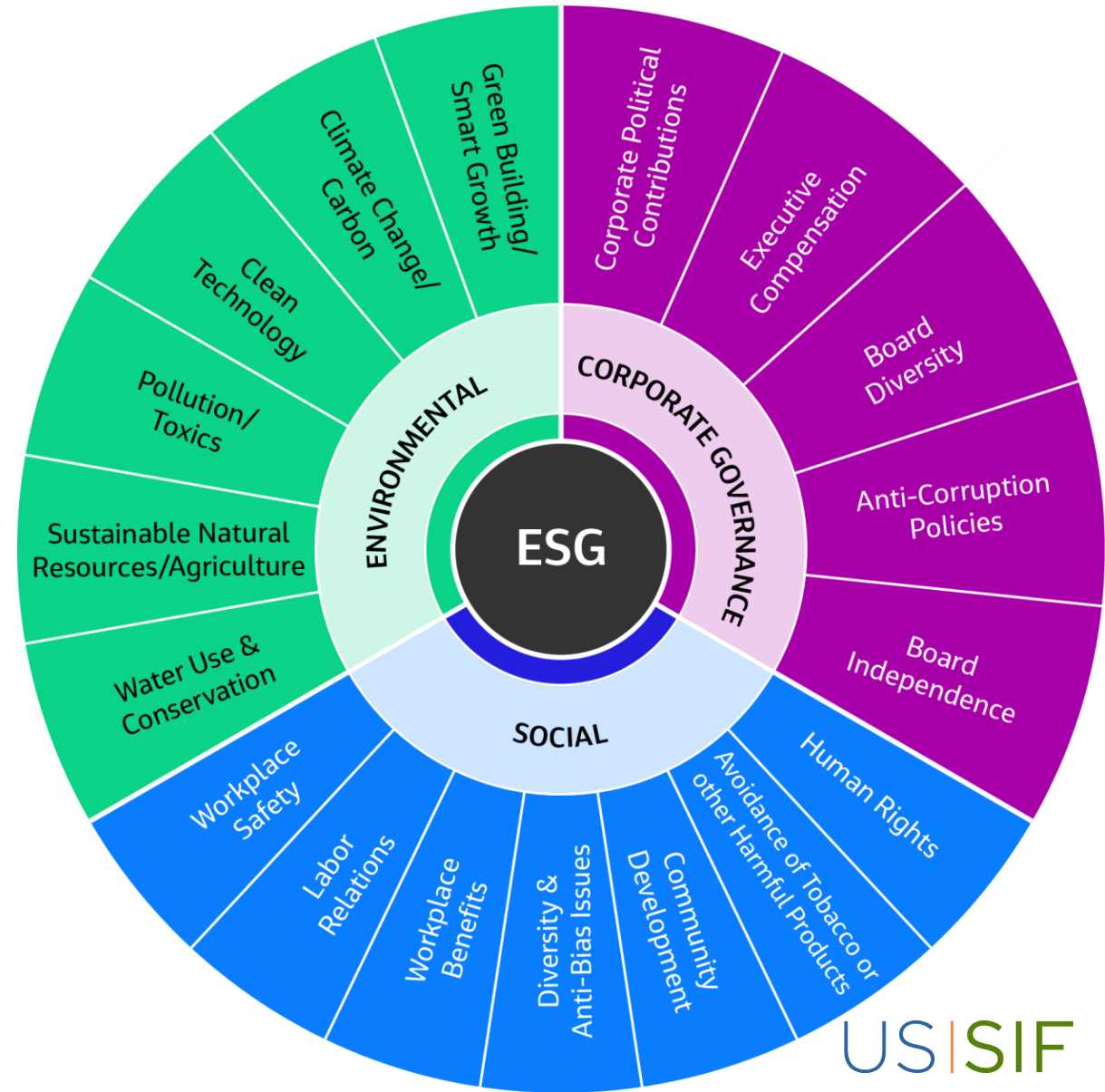


Remediation ≠ Sustainability



Refresher: ESG

- **Environmental, Social, and Governance (ESG)** – key factors when measuring sustainability and ethical impact of organizations
- **Stakeholders** use ESG as a common language when defining difficult to grasp sustainability terms
- Higher ESG scores indicate improved **long-term performance** and **resilience** of companies
- ESG criteria may vary depending on what is **material to the specific industry**



US|SIF

The Forum for Sustainable and Responsible Investment

Refresher: UN SDGs

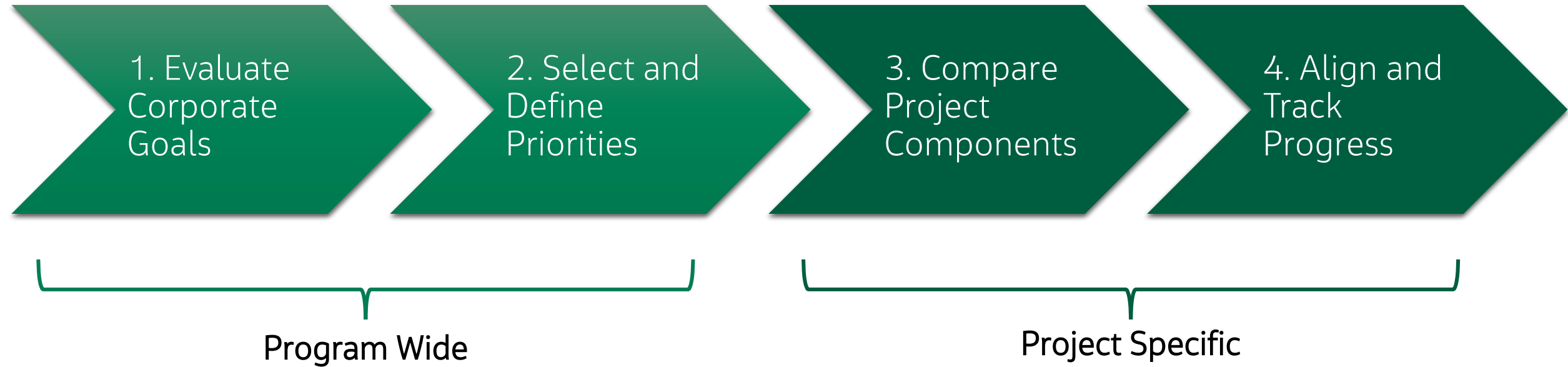
United Nations Sustainable Development Goals (UN SDGs):

- **17 interlinked objectives** to serve as a "*shared blueprint for peace and prosperity for people and the planet, now and into the future*"
- Corporations establish sustainability goals using this framework

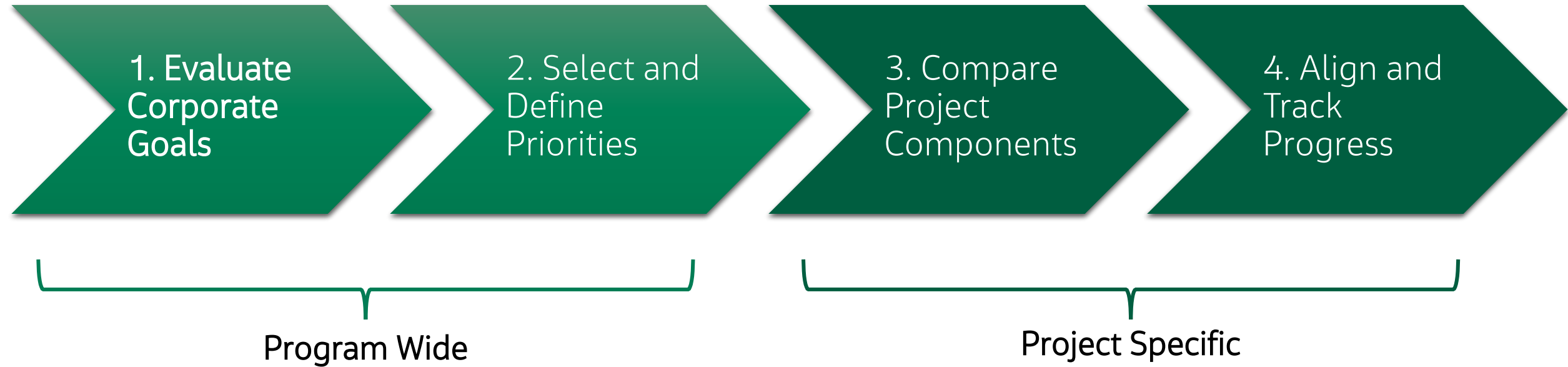
SUSTAINABLE DEVELOPMENT GOALS



Process Demonstration



Process Demonstration



Step 1: Evaluate Corporate Goals

Review client specific
ESG and Sustainability
Reports, understand
corporate goals

Industry specific ESG criteria – Example from S&P

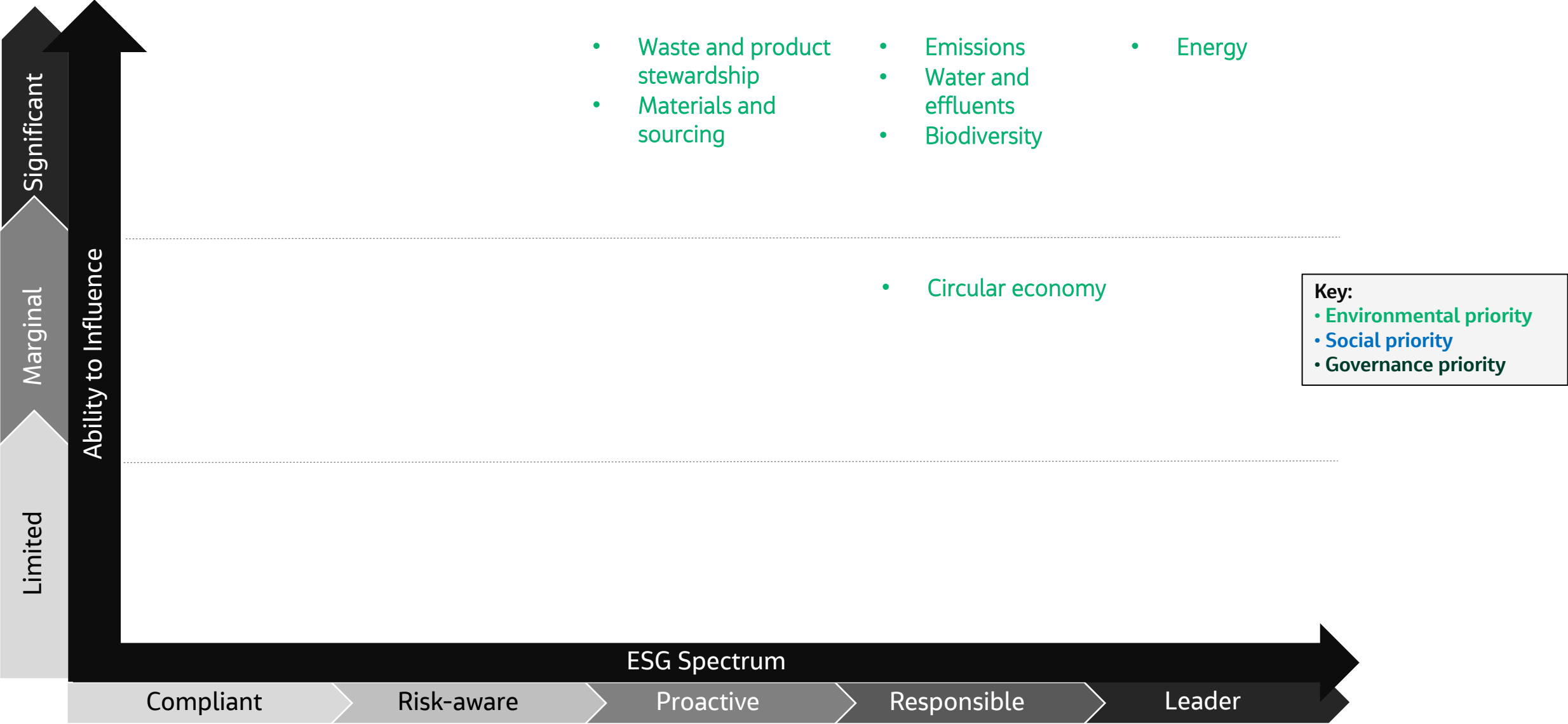
Dimension and Criteria Weights – 2021 Banks, Electric Utilities and Pharmaceutical Industry CSA

S&P Global CSA Criteria Weights by Dimension	Banks	Electric Utilities	Pharmaceuticals
Environmental Criteria	13	28	9
Climate Strategy	7	6	2
Environmental Policy & Management Systems	-	5	2
Environmental Reporting	3	3	2
Operational Eco-Efficiency	3	7	3
Product Stewardship	-	7	-
Social Criteria	32	28	41
Addressing Cost Burden	-	-	4
Corporate Citizenship and Philanthropy	3	2	3
Financial Inclusion	4	-	-
Health Outcome Contribution	-	-	5
Human Capital Development	6	5	5
Human Rights	3	4	3
Labor Practice Indicators	4	4	3
Occupational Health & Safety	3	6	3
Social Reporting	3	3	2
Strategy to Improve Access to Drugs or Products	-	-	5
Talent Attraction & Retention	6	4	8
Governance & Economic Criteria	55	44	50
Anti-Crime Policy & Measures	4	-	-
Codes of Business Conduct	8	7	6
Corporate Governance	10	8	9
Customer Relationship Management	2	3	-
Financial Stability & Systemic Risk	2	-	-

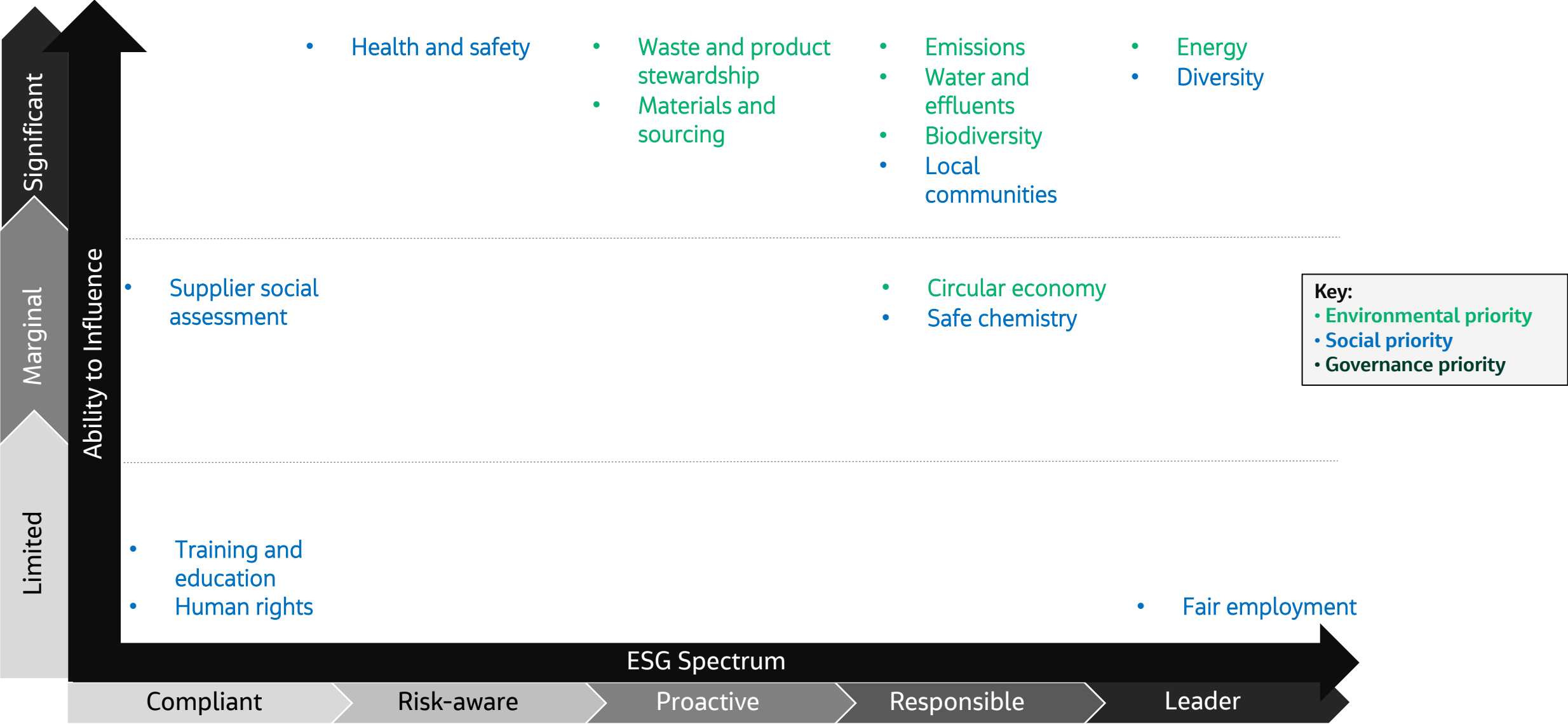
Step 1: Evaluate Corporate Goals



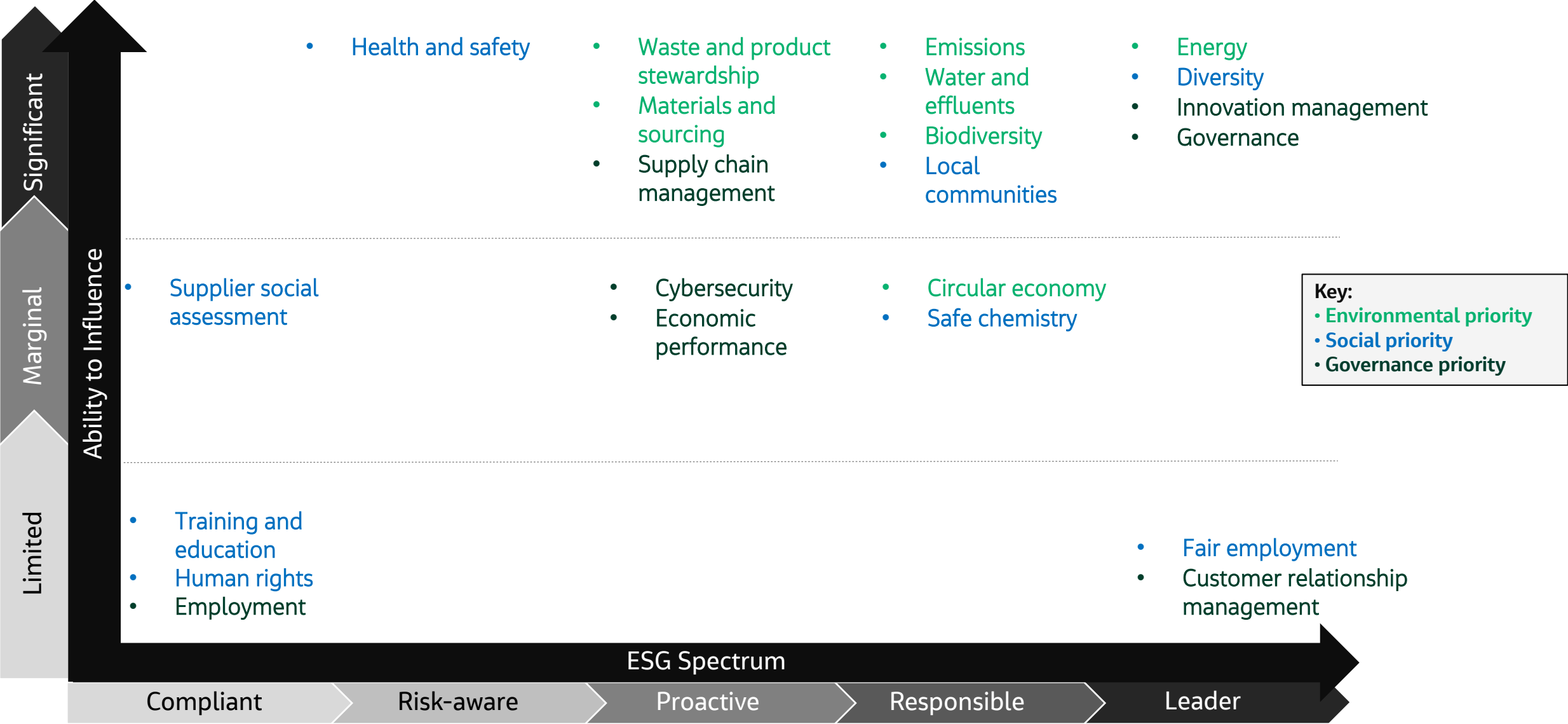
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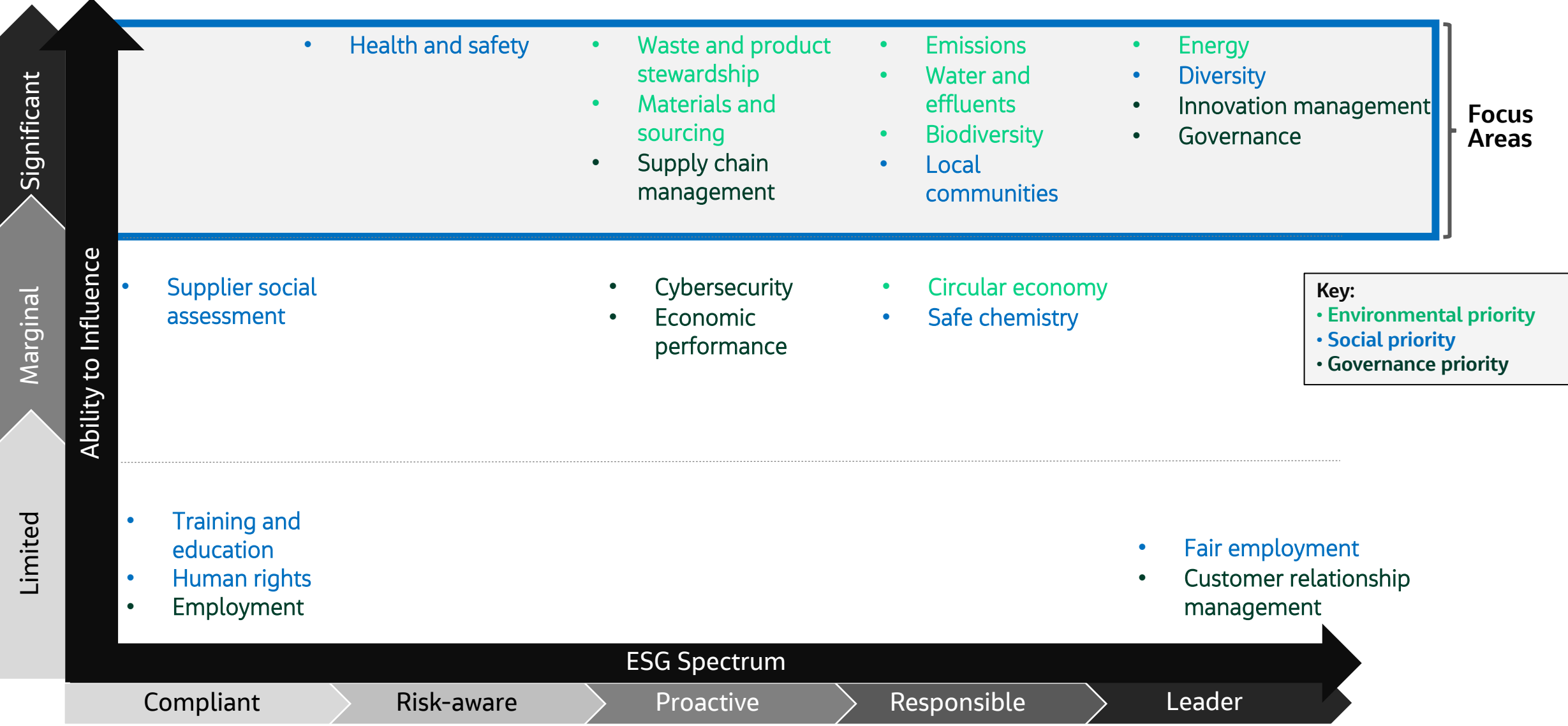
Step 1: Evaluate Corporate Goals



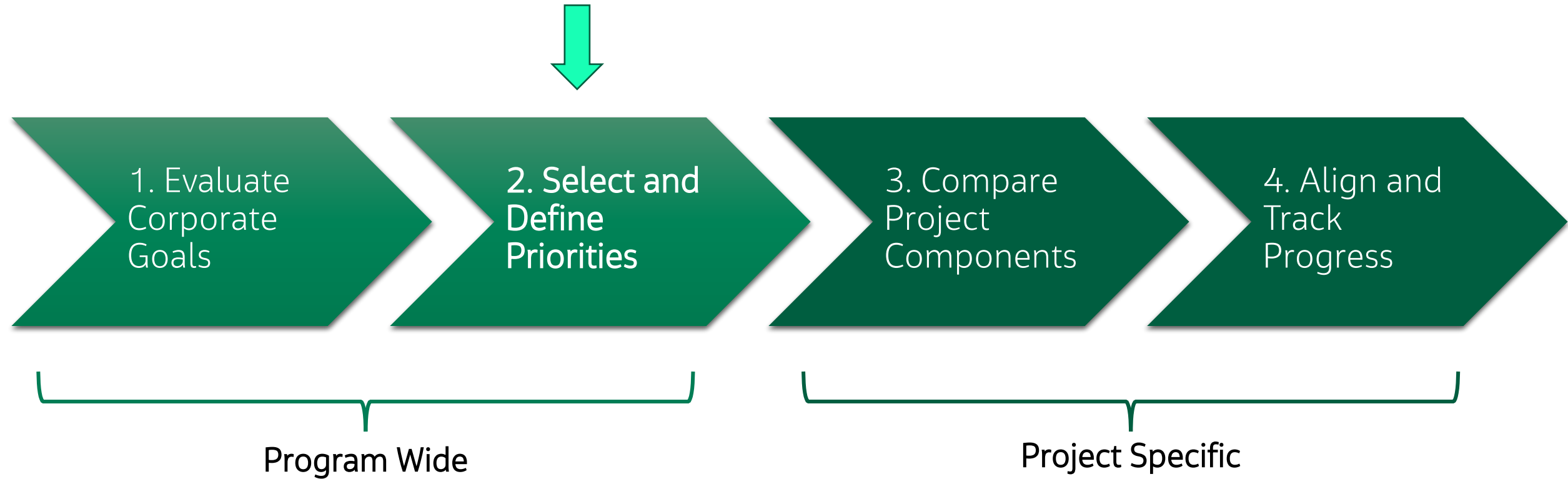
Step 1: Evaluate Corporate Goals



Step 2: Select and Define



Process Demonstration



Step 2: Select and Define Environmental Priorities

ESG Criteria	Description	Scale	Best Feasible	Medium Feasible	Worst Feasible
Environmental					
Emissions	-Commitment to reduce annual carbon emissions	Measured	 Estimated change in CO2 (%)		
Water	-Avoid additional water withdrawals and runoff by monitoring status of surface waters and groundwater	Measured	 Change in gallons of runoff water (%)		
Biodiversity	-Increase in number of species and plants; restoring and enhancing habitats	Assigned	Positive impact = increase in variety of life (5)	No impact = no change in variety of life (3)	Negative impacts = reduction in variety of life (1)

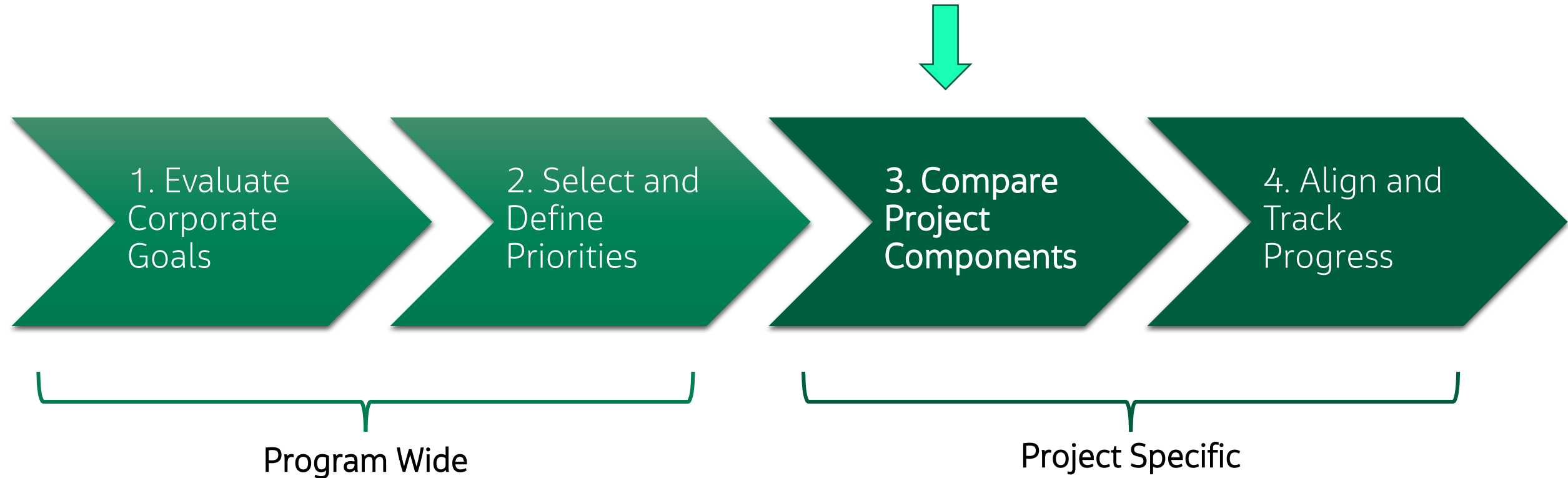
Step 2: Select and Define Social Priorities

ESG Criteria	Description	Scale	Best Feasible	Medium Feasible	Worst Feasible
Social					
Health and Safety	-Managing risks: contamination, operative skills, training, and environmental health and safety	Assigned	Oversight of risk management from internal or external parties that promote development of policies, procedures, emerging regulatory developments that exceed baseline compliance (5)	Proper occupational health & safety guidelines are established, and baseline regulations are satisfied (3)	Baseline (1)
Local Communities	-Leave a site better than it was found (aesthetic, connectivity, comfort) -Improvements to community safety	Assigned	Collaborating to build resiliency and address the unmet needs of a community through actions like conducting a community survey (5)	Improving project site back to sufficient standard, no community opinion and needs assessment conducted (3)	Baseline (1)

Step 2: Select and Define Governance Priorities

ESG Criteria	Description	Scale	Best Feasible	Medium Feasible	Worst Feasible
Governance					
Innovation Management	-Application of new technology -Incentivizing innovation -Profoundly changing how an industry works	Assigned	Utilizing innovative technologies, designing for circularity and a lower carbon future (5)	Technology is understood and used occasionally (3)	Baseline (1)
Supply Chain Management	-Utilize a transportation carbon footprint tracker	Measured	← Estimated change in emissions (%) →		

Process Demonstration



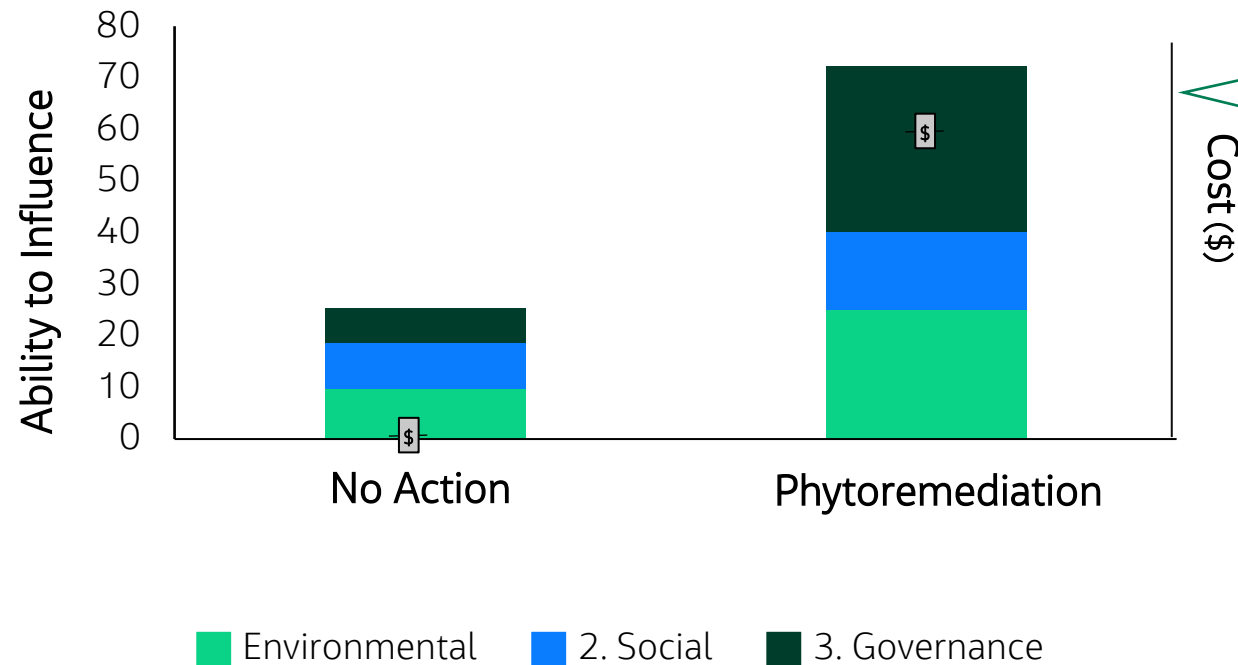
Step 3: Compare Project Components

Can have as many
alternatives as
desired

Can have as many
criteria as desired

Evaluation Criteria	Worst Feasible Outcome	Best Feasible Outcome	Alt 1. No Action	Alt. 2 Phytoremediation
Environmental				
Emissions	1	5	3	2
Water	1	5	2	3
Biodiversity	1	5	1	5
Social				
Health and Safety	1	5	1	4
Local Communities	1	5	2	4
Governance				
Innovation Management	1	5	1	4
Supply Chain	1	5	2	2

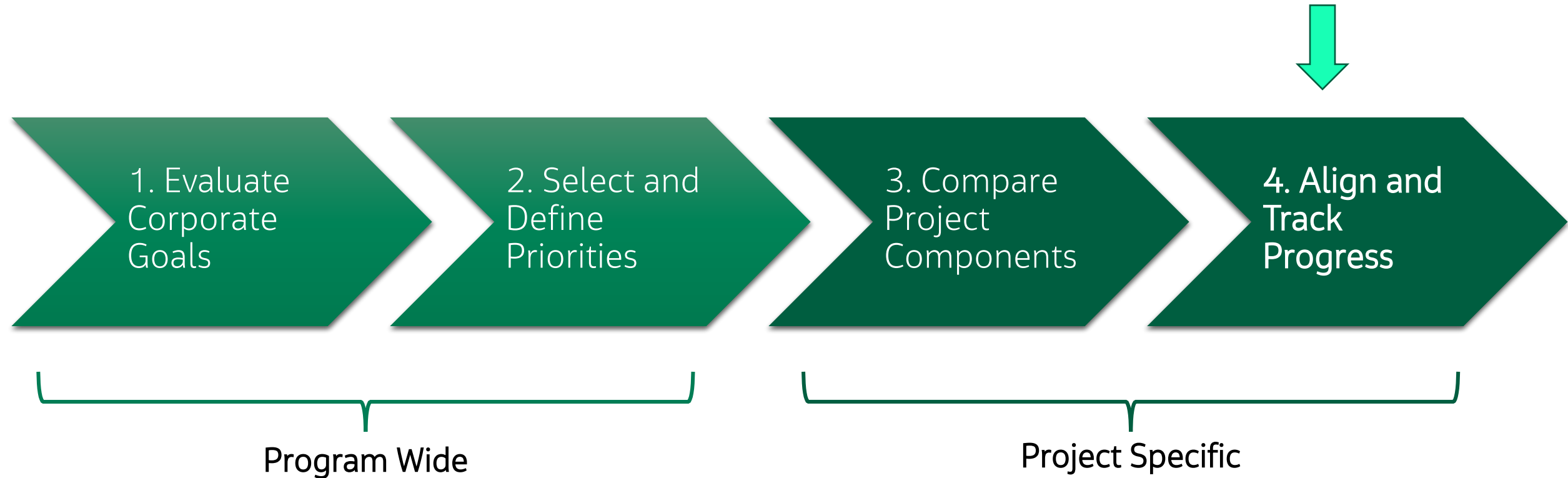
Step 3: Compare Project Components



Value:

- Select alternative considering positively influenced ESG criteria and financial factors
- ESG criteria can be tracked and reported throughout the project life

Process Demonstration



Step 4: Align and Track Progress

SUSTAINABLE DEVELOPMENT GOALS



Step 4: Align and Track Progress

Environmental
Emissions
Water
Biodiversity
Social
Health and Safety
Local Communities
Governance
Innovation Management
Supply Chain

Priorities

This stage aims to identify your sustainability priorities.
Select on the boxes below to highlight which areas are most important/relevant to your project.
Click as many or as few as you would like - you can return to this stage at any point.
Hover over the boxes to see their definitions.

Crime & Nuisance

Regulation & Ethics

Cultural Heritage

Stewardship & Change

Drainage & Flooding

Water Quality

Air Quality

Acoustics

Select relevant priorities

Step 4: Align and Track Progress

Priorities

This stage aims to identify your sustainability priorities. Select on the boxes below to highlight which areas are most important/relevant to your project. Click as many or as few as you would like - you can return to this stage at any point. Hover over the boxes to see their definitions.

Crime & Nuisance

Regulation & Ethics

Drainage & Flooding

Water Quality

Managing water quality

6 CLEAN WATER AND SANITATION9 INDUSTRY, INFRASTRUCTURE AND BUILDINGS12 RESPONSIBLE CONSUMPTION AND PRODUCTION13 CLIMATE ACTION14 LIFE BELOW WATER15 LIFE ON LAND17 PARTNERSHIPS FOR THE GOALS

Construction water pollution

3 GOOD HEALTH AND WELL-BEING6 CLEAN WATER AND SANITATION11 SUSTAINABLE CITIES AND COMMUNITIES12 RESPONSIBLE CONSUMPTION AND PRODUCTION13 CLIMATE ACTION14 LIFE BELOW WATER15 LIFE ON LAND17 PARTNERSHIPS FOR THE GOALS

Drinking water quality

Water protection

3 GOOD HEALTH AND WELL-BEING6 CLEAN WATER AND SANITATION9 INDUSTRY, INFRASTRUCTURE AND BUILDINGS12 RESPONSIBLE CONSUMPTION AND PRODUCTION13 CLIMATE ACTION14 LIFE BELOW WATER15 LIFE ON LAND16 PLUG BODIES INTO THE GRID17 PARTNERSHIPS FOR THE GOALS



Opportunities

Use the icons below to explore sustainability opportunities. During this stage, you can make commitments to help you deliver a sustainable project. You can also pick from our recommended indicators to measure your performance. Not quite right for your project? Add your own indicators to suit your projects requirements.

Step 4: Align and Track Progress

Managing water quality

6 CLEAN WATER AND SANITATION

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LAND, OCEANS AND MARINE RESOURCES

17 PARTNERSHIPS FOR THE GOALS

Construction water pollution

Drinking water quality

Water protection

Water quality monitoring

Commit to..

Monitor the status of surface waters and groundwater, and assess the impacts of the proposal on the water environment

☒

Target Value	Unit	Progress	% Complete	Evidence	Assigned To
1	Number	0	0	Upload/View	
20	Acre(s)	0	0	Upload/View	
100	Percentage (%)	0	0	Upload/View	

Track progress:
Change in gallons of runoff water (%)

Step 4: Align and Track Progress

Number of commitments

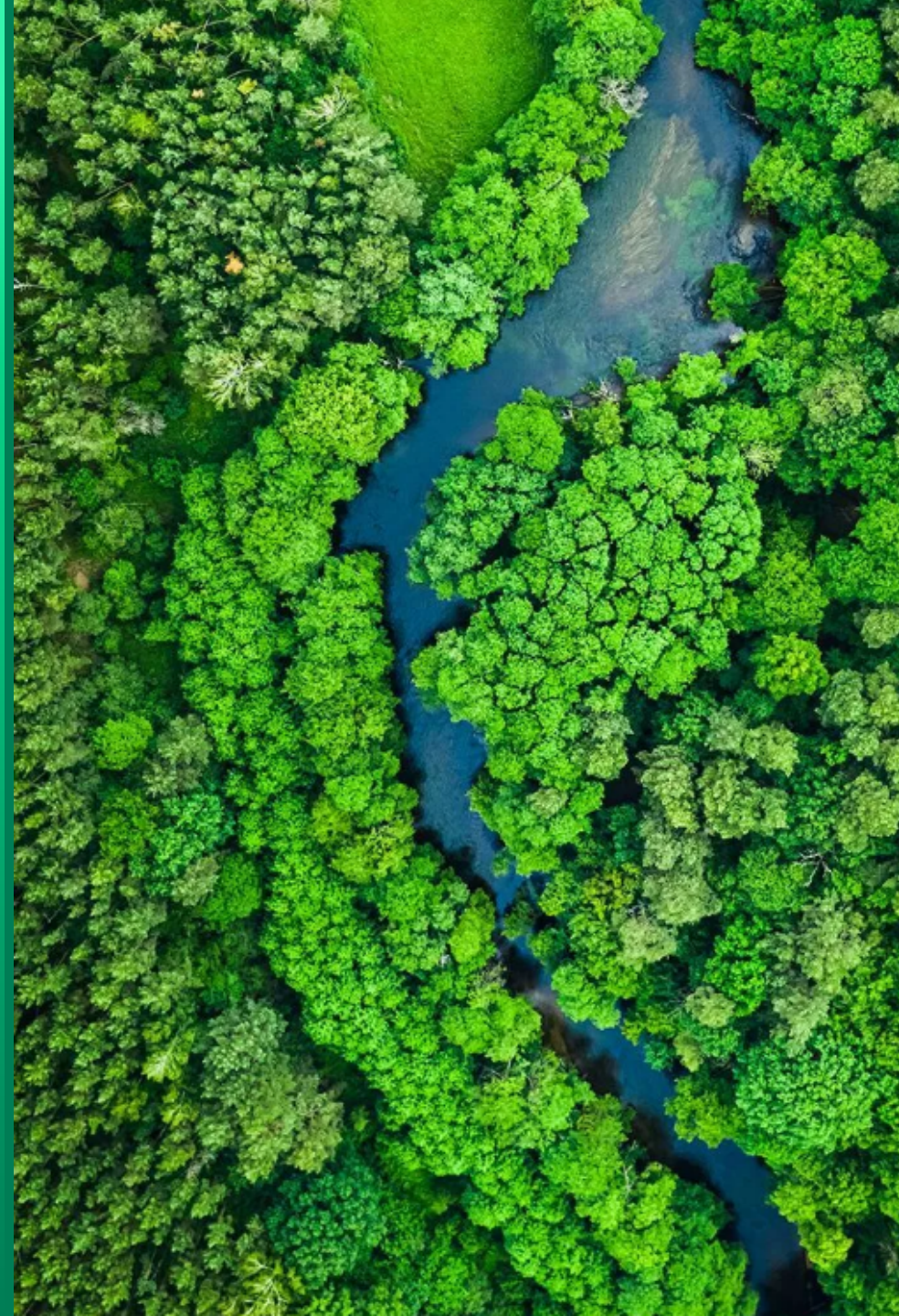
Project progress



- Value:**
- Tracks project progress toward achieving UN SDGs
 - Contributes value to corporate sustainability goals

Conclusions

- Remediation projects DO have potential to positively influence corporate sustainability
- Utilize existing frameworks to select and implement a remedial alternative based on its overall positive impact
- You are likely making sustainable decisions on your projects, so utilize processes to identify, track, and highlight those efforts



Thank you! Questions?

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Challenging today.
Reinventing tomorrow.

