

Measuring and Valuing Natural Capital

How to Enhance Business Value in the Technology Sector

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Introducing Trucost





Trucost has been helping companies and investors to assess environmental impacts and natural capital costs since 2000



Trucost maintains the world's largest database of corporate natural capital metrics: 4,600 companies over 12 years covering 93% listed equity



Trucost tools have analyzed supply chain natural capital risks of >500,000 suppliers representing >\$100 B expenditure



Leading academic institutions (including Stanford, Harvard, Yale & Oxford University) use Trucost data in their research and curricula, and Trucost models are supported by an International Academic Advisory Panel

Example Trucost clients

































Overview of session



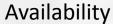
- 1. What is natural capital?
- 2. What does it mean to the Technology sector?
- 3. How can valuing natural capital enhance your business?

Environmental Risks in Supply Chains



Business disruption



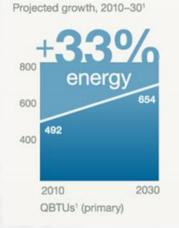


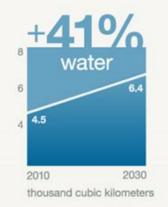


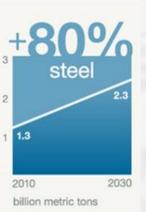
Price Volatility



Rising demand



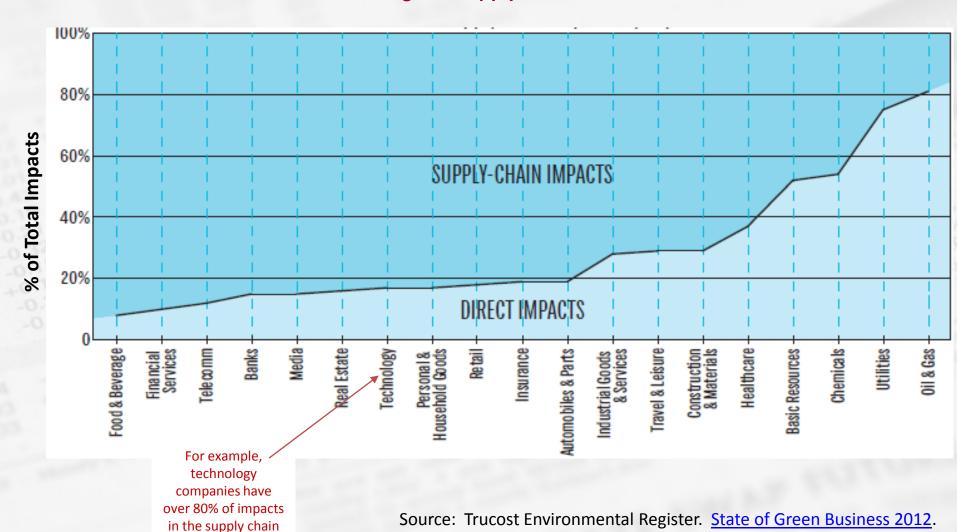




Environmental Impacts in Supply Chains



On average, 60% of business' natural capital impacts and risks are embedded in supply chains. Green procurement programs can save costs, reduce environmental risks, and build more resilient sourcing and supply chains.

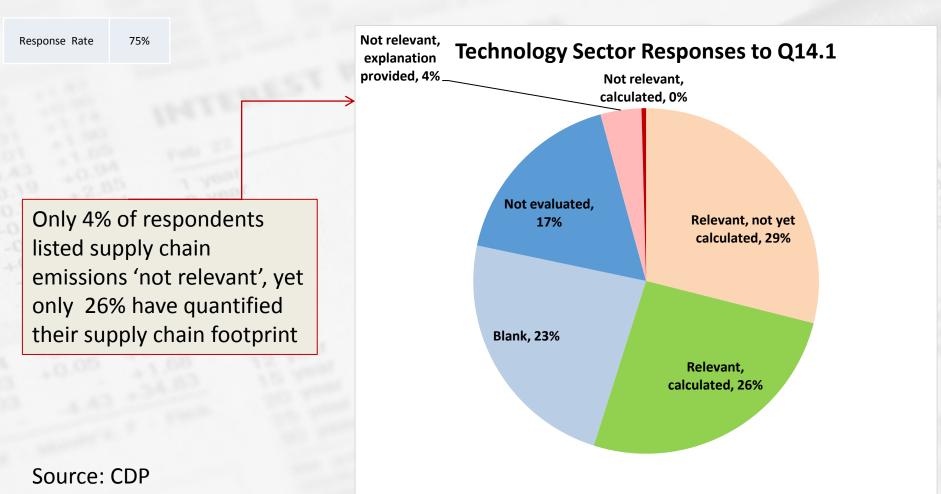


Are supply chain emissions relevant to me?



Question 14.1. Please account for your organization's Scope 3 emissions, disclosing and explaining any exclusions.

Source of Scope 3 emissions considered for this analysis: Purchased good and services.



Am I exposed to water-related risks in the supply chain?

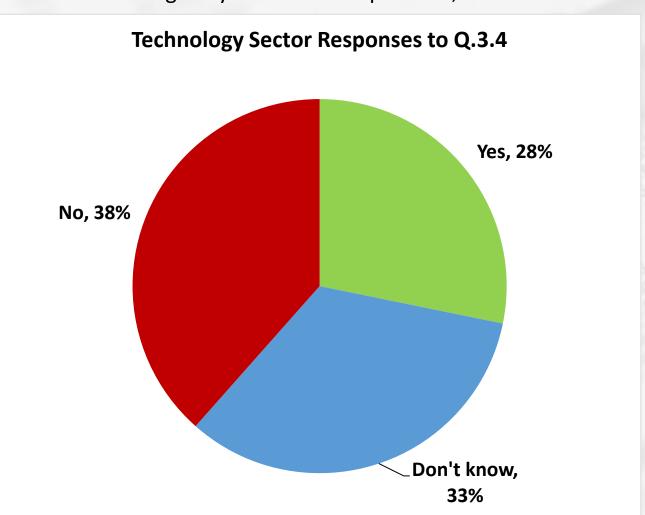


Question 3.4.

Is your supply chain exposed to water-related risks (current or future) that have the potential to generate a substantive change in your business operation, revenue or

expenditure?





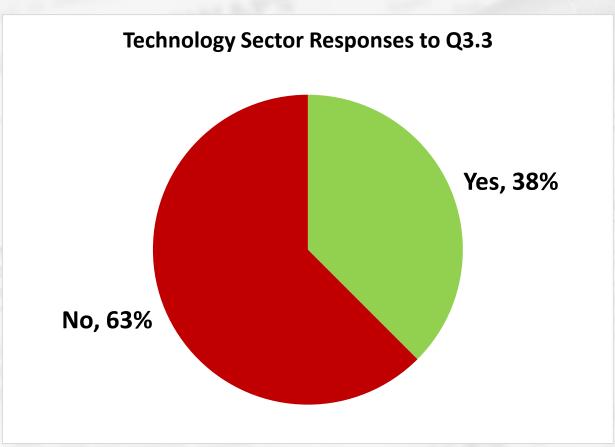
Am I exposed to water-related risks in the supply chain?



Question 3.3.

Do you require your key suppliers to report on their water use, risks and management?





Source: CDP

Sprint®



EIO Impact Spend Analysis Allows You to Focus Green Procurement on Most Important Suppliers







Suppliers = 91% Spend in 2011

5,000

Active
Suppliers
– In 2011

40,000

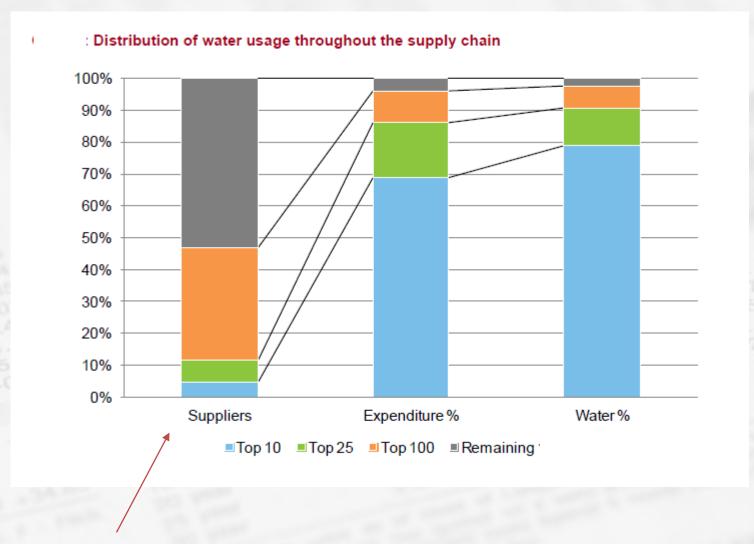
Suppliers in Database

http://www.sprint.com/responsibility/ouroperations/docs/2012SupplyChainWaterFootprint.pdf

http://www.sprint.com/responsibility/ouroperations/climate_change/scop3emissions.html

Small number of suppliers = big impact





Targeting a green procurement program at these 25 suppliers will address 85% of supply chain water risk

Sprint Selling iPhone cases made of waste CO2



AIRCARBON



Opportunity



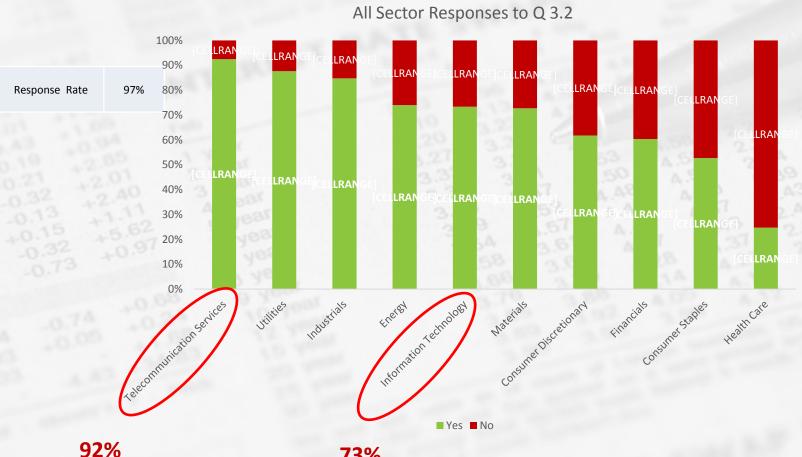


Are we part of the solution?



Question 3.2.

Does the use of your goods and/or services directly enable GHG emissions to be avoided by a third party?

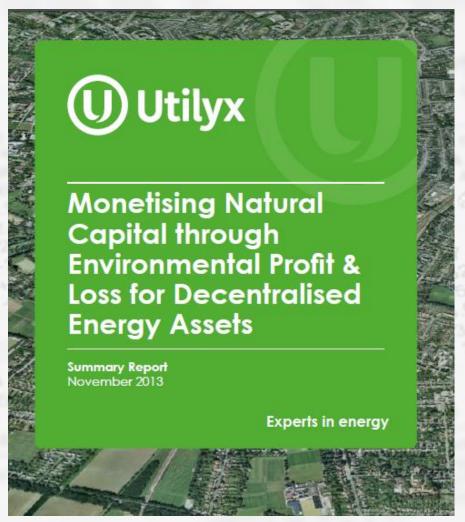


Source: CDP 73%

Communicating Benefits



Utilyx, a £1B UK-based company, wanted to demonstrate the benefits of its new technology to investors and customers.





http://www.utilyx.com/documents/pdf/natural-capital-report.pdf

Communicating benefits



New wood-based electricity and heat generation plant



OR

Conventional electricity + landfilled wood waste



The Challenge

Each key environmental benefit is measured by a different metric

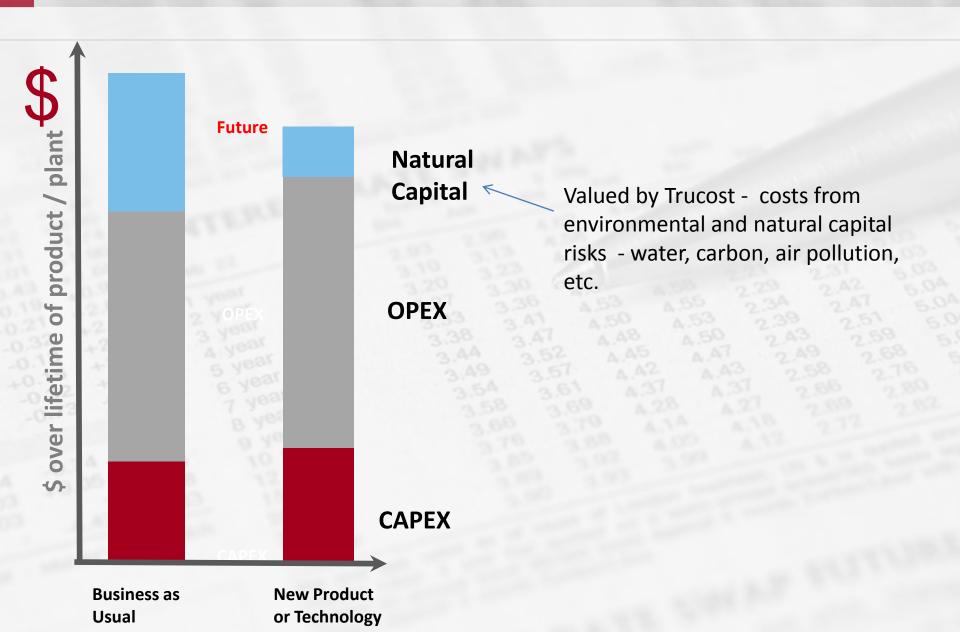
- Avoids sending wood waste to landfill
- Reduced CO₂
- Reduced air and water pollution
- Reduced water consumption
- etc

The Solution

Value each benefit in financial terms

Communicating benefits





Communicating Benefits



Net benefit

Over \$1,300,000 in benefit to society every year!





Wood-based electricity and heat generation plant



Conventional electricity generation plant



Landfill waste

Thank You



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