



RESP

CREATING SUSTAINABLE ECONOMIC
MODELS THAT BENEFIT PEOPLE AND
NATURE.

Assessing biodiversity impacts and benefits of sheep wool



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MODELS THAT BENEFIT PEOPLE AND
NATURE.

61st LCA Discussion Forum – 15 March 2016

The Responsible Ecosystems Sourcing Platform



COLLABORATIVE ACTION TO CREATE NET POSITIVE IMPACTS
BY FOSTERING CHANGE TOWARDS
THE RESPONSIBLE AND SUSTAINABLE USE OF NATURAL CAPITAL.



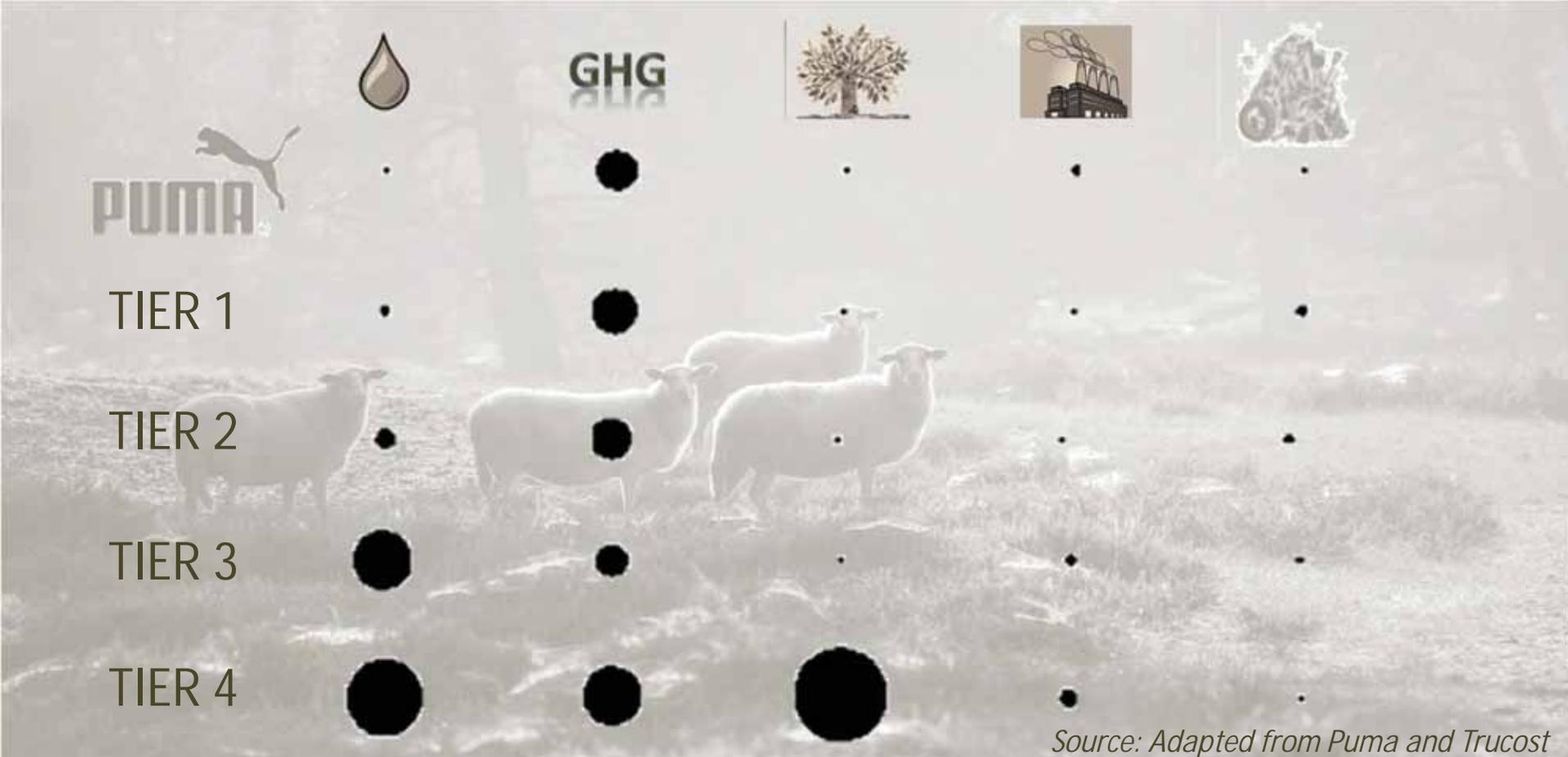
Defining Ecosystem Indicators



Finding responses to a number of gaps and risks identified by the International Working Group on Wool Fibres of RESP



The cost of environmental impacts



Source: Adapted from Puma and Trucost

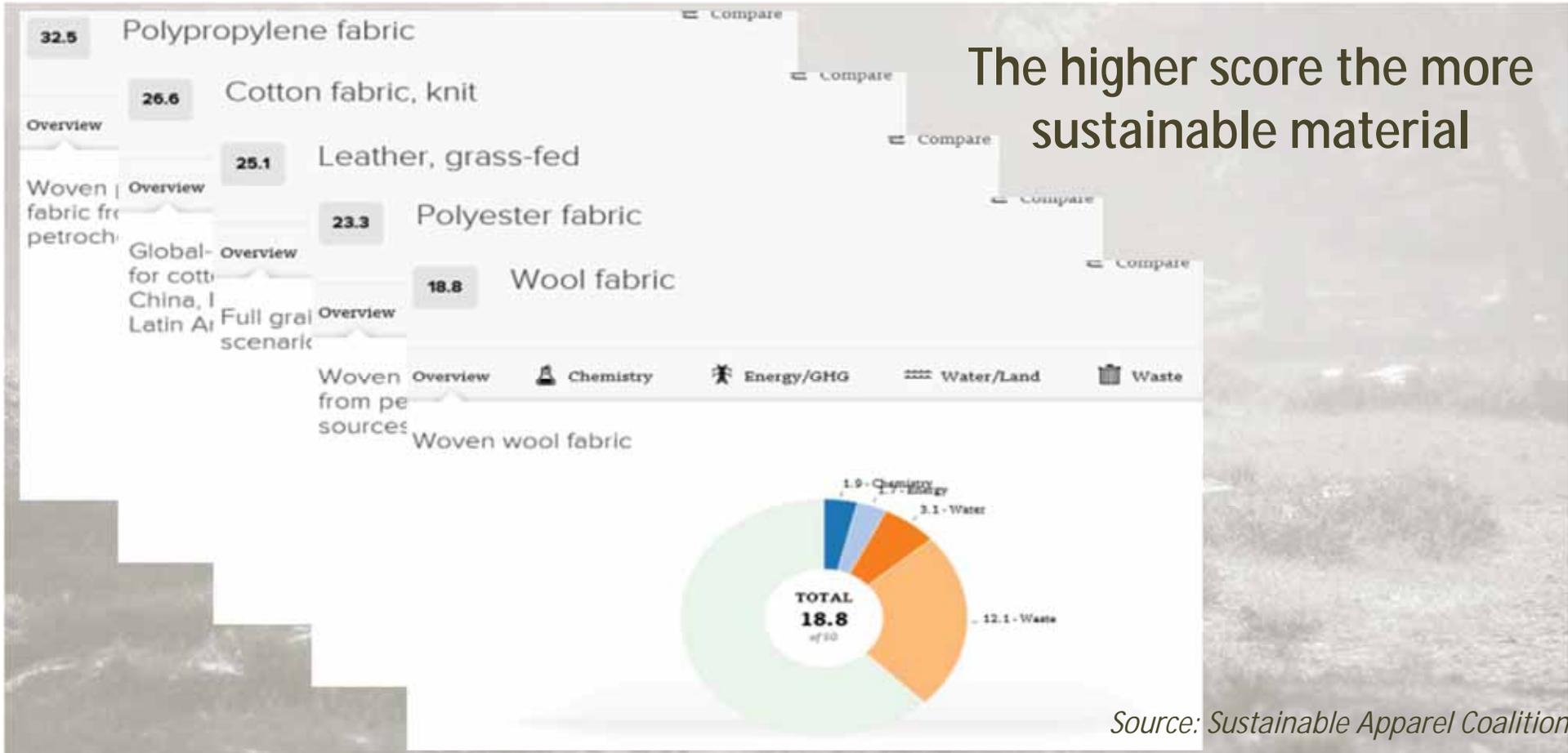
... but the supply chain acts in the opposite way



State of play



The higher score the more sustainable material



Source: Sustainable Apparel Coalition

Proposed midpoint indicators



Ecosystem services

Midpoint indicator	Impact pathway	Physical unit	Economic approach	Data source	Interpretation
Erosion resistance potential	Ecosystem services	t/ha*yr	Cost of mitigation measures	WOCAT	Natural resistance change
Mechanical water purification potential	Ecosystem services	cm/day	1 st treatment	WaTER	Change in water filtration
Physicochemical water purification potential	Ecosystem services	cmol/kg _{soil}	2 nd & 3 rd treatments	WaTER	Change in water filtration
Freshwater renewal potential	Ecosystem services	mm/yr	Water to supply	UNESCO	Change in water provided
Carbon sequestration potential	Ecosystem services	tCO ₂ /ha*yr	Social cost of carbon	various	Net CO ₂ emitted
Biotic production potential	Ecosystem services	tC/ha*yr	Productivity loss	FAO	Production loss or gain

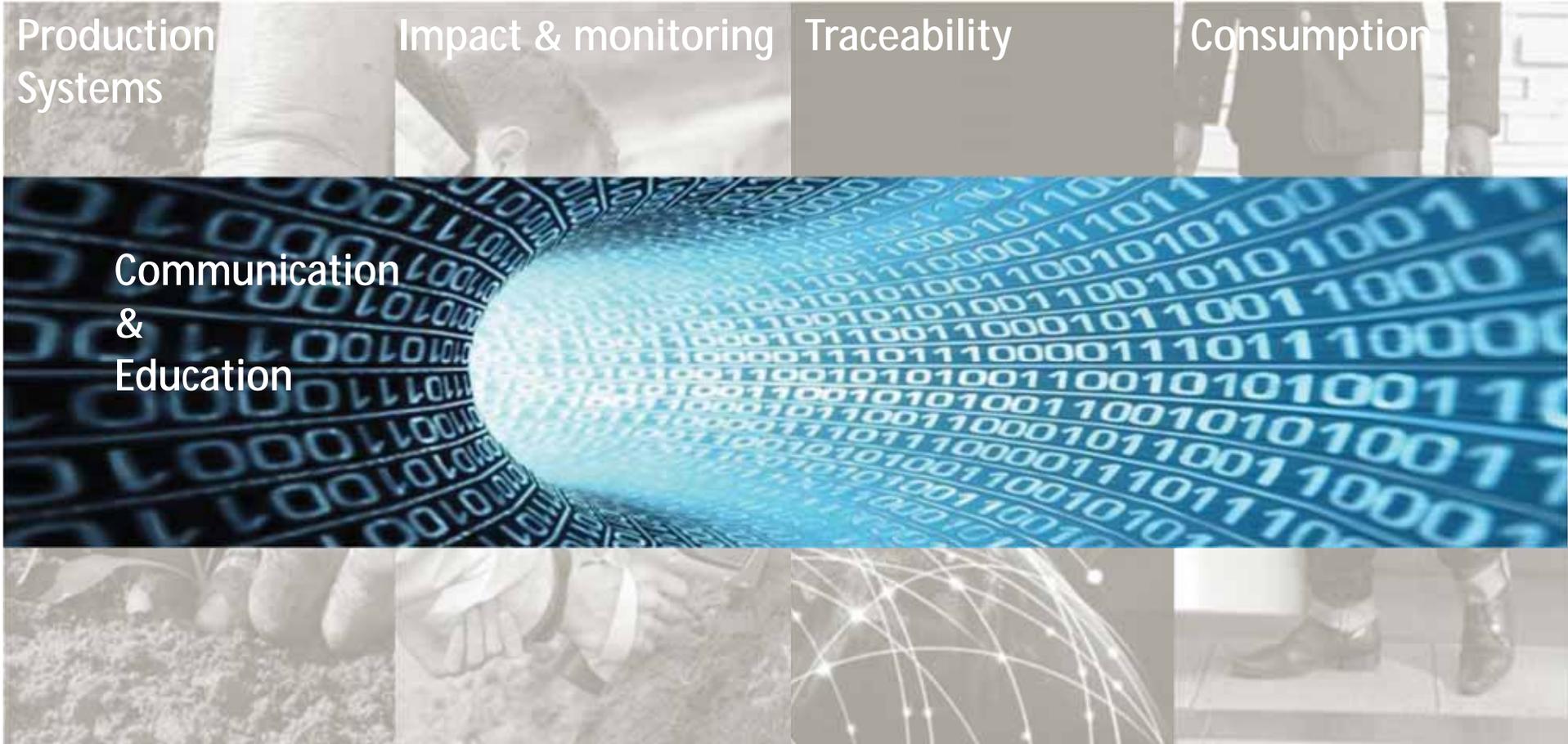
Biodiversity

Midpoint indicator	Impact pathway	Physical unit
Species richness	Structural biodiversity	PDF/m ² *yr
Functional diversity	Functional biodiversity	Relative reduction in species functional diversity

Where this sits in the decision-making structure



Where this sits in the decision-making structure





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