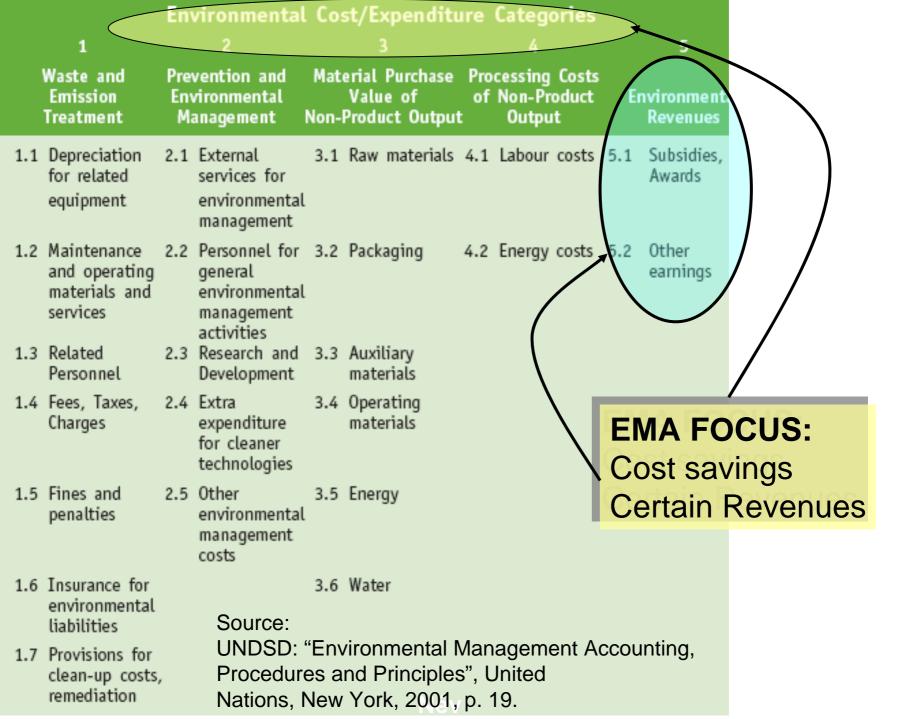
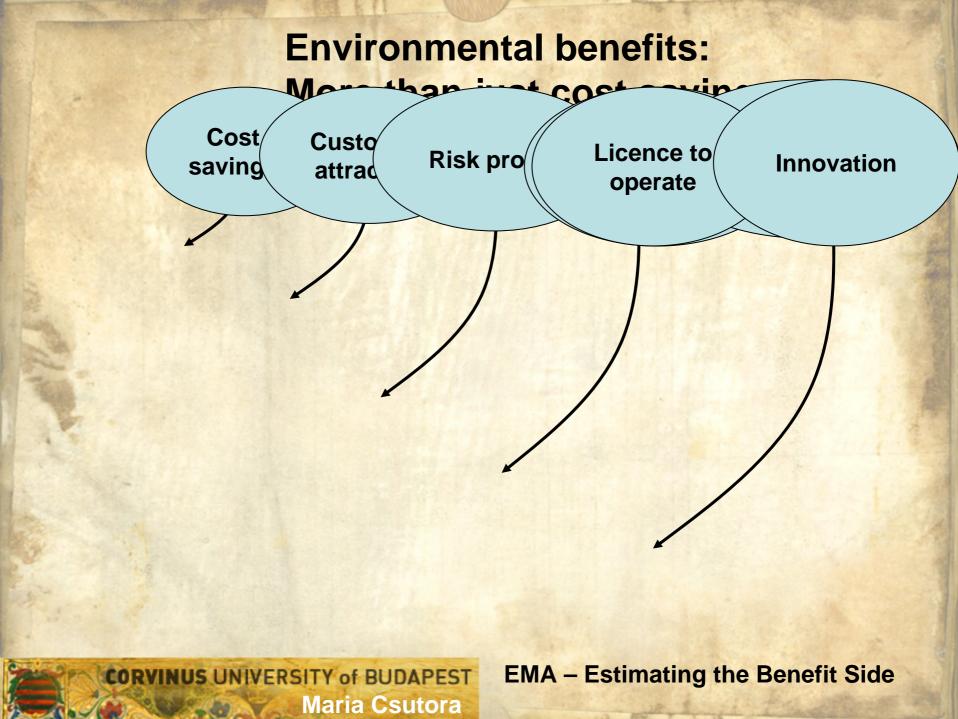
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EMA – estimating the benefit side

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Customer attraction

Value Drivers	Customer attraction (sales)
Environmental	
benefits	
Environmentally different. products	Sales
recyclable waste	Sales
non environmental products	Sales due to halo effect
Tradable permissions	Deemed value



Customer attraction

- Sales contribution of environmentally differentiated products:
 - May have a big impact on shareholder value
 - Which products can be labeled as environmental ?
 - Official logo, regulation or selling point what matters
 - Partly environmental products
 - % of sales or % of sales increase



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Cost reduction

Value Drivers	Customer attraction	Cost reduction and efficiency
Environmental	(sales)	improvement
benefits		
Cleaner production measures		Cost reduction (resource savings, O&M, Fees and tax)
Efficiency improvement, defects	contribution to sales	cost reduction
Reduction of emissions and discharges		Cost reduction on fees, fines, reduction on monitoring cost
More efficient operation of env. management		Cost reduction



Risk reduction

	attraction	Cost reduction and efficiency improvement	-	-	Licence to operate
mon i cuucuon	increasing sales	penalties, reduced interest rate, reduction in	Reduction in expected costs of accidents, willingness to pay for cost reduction		Sustain future cash flows



Risk reduction

- Usual risk
- Extreme risk:
 - Much more money should be spent on prevention if your business is at stake, e.g. it would go into bankruptcy due to high clean-up and compensation costs or would lose its operation permit. Applying statistical rules would require a high number of occurrences, and should not be applied for unique or events with extreme magnitude.
 - You cannot buy insurance for these risks
 - Willingness to pay for risk avoidance must exceed the expected cost of extreme risks

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Environmental PR

Szöveg

Value Drivers	Customer attraction	Cost reduction and efficiency	Risk	Reputation and brand	
Environmental	(sales)	improvement	profile	value	
benefits					
Environmental PR (exhibitions, environmental	Sales increase or stabilisation	Substitution cost of marketing		Deemed travel costs of	
report)				attendants	

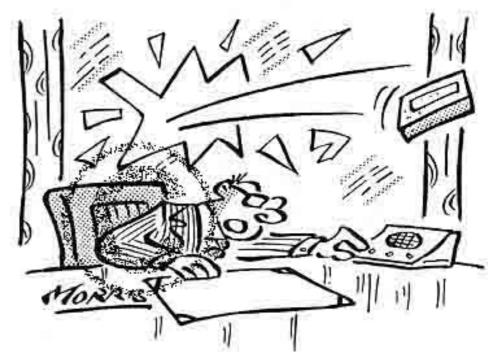


Reputation

- Marketing value of environmental programs:
 - Actual increase in sales due to an environmental program
 - Substitution costs for marketing is a proxy
 - Value of time spent by stakeholders on company exhibitions, reading the reports, attending to conference presentations can be estimated as another proxy for marketing value

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"Miss Wimbush, get me my PR man!"

Applicable methods

- Travel cost method:
- The travel cost method is based on the assumption that time is value. People spending time on a company presentation at a conference sacrifice their time, pay the travel costs to get there and may pay some attendance fee, too.





Willingness to pay

 is a widely used method in resource economics for measuring the value people contribute to environmental amenities. It is subjective by nature and can be used for measuring risk acceptance of managers or their willingness to pay for risk avoidance.



Replacement costs

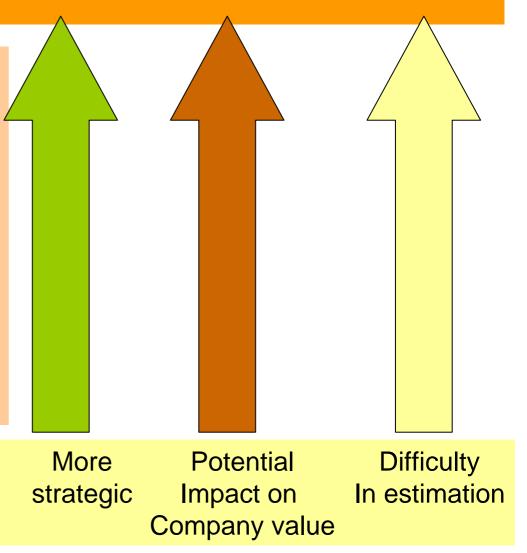
- approximate the value of a measure by the saved cost of an alternative measure. Better working conditions, for example, might result in decreased turnover of employees. The value of decreased turnover can be estimated by the saved replacement and training costs of new entrants.
- Lower estimate estimate
- PV of dental prosthesis costs as an estimate for your real teeth





Tangibles vs. intangibles

- Customer
 attraction
- Reputation
- Risk reduction
- Cost avoidance



2007.06.12.