

Radical transparency & growing internalization of externalities

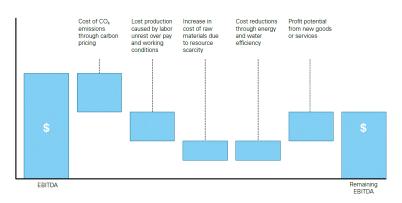
What is driving the pricing of externalities?

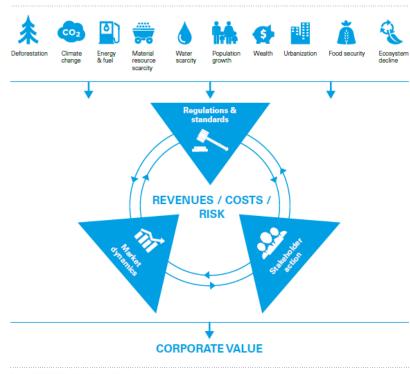
Regulation and Standards Laws, taxes, subsidies, certifications

Stakeholder Action Shifts towards sustainable value chains – paying true price

Market Dynamics
Disruptions in supply and demand

Example analysis of internalized externalities





Source: KPMG (2014). A New Vision of Value: Connecting corporate and societal value creation

KPMG's true value methodology: three-step approach to measure and manage societal and environmental impacts

ASSESS THE COMPANY'S 'TRUE' EARNINGS

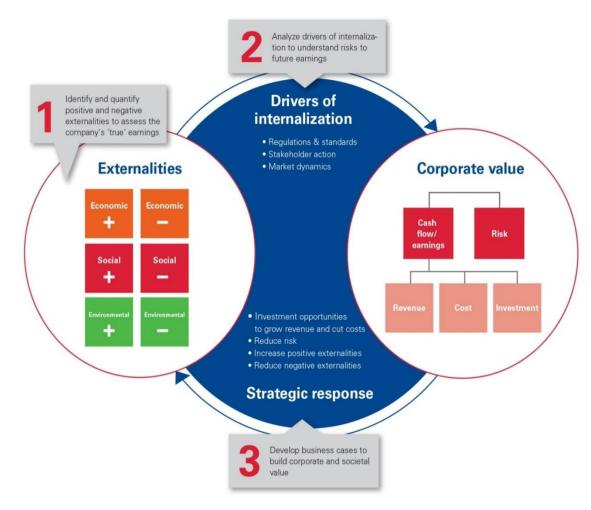
by identifying and quantifying its material externalities

2 FUTURE EARNINGS AT RISK

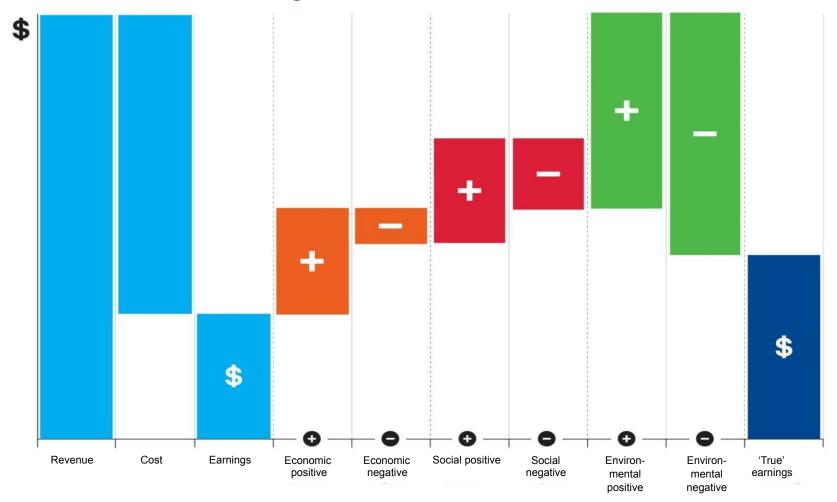
by analyzing exposure to the forces of internalization

3 CREATE CORPORATE AND SOCIETAL VALUE

by developing business cases that capture value, create opportunities and reduce risk.



Step 1: Assess the company/product/project's 'true' value



Step 1: Assess the company's 'true' earnings by identifying and quantifying its material externalities



The first step in KPMG's True
Value methodology is to
identify the company's
positive and negative
externalities and to monetize
them, i.e. to quantify them in
financial terms

Benefits to business leaders and investors

- Provides a clearer view of the company's externalities
- Enables a more balanced conversation with stakeholders on value creation, exploring positive as well as negative societal value created
- Provides a strategic lens of corporate and societal value creation

Step 1 project flow example – much emphasis on scoping and approach development phase...



perspectives

countries and

Select pilot

products

- Identify most
 Conduct
 research and
 select main FES
 P&L indicators
 - Develop approaches per indicators

Developing

approach

 Engage key stakeholders and prepare country pilots



Modelling



Analysing



Reporting (internally



- Construct FES
 P&L model
 Oallesteed
 - Collect and
 - validate data
 - Populate model with data
 - Tailor and finalize modelling for pilot countries

- Analyse overall and countryspecific results
- Consult internal stakeholders to validate results
- Identify potential application
- Synthesize findings

- Create overall and countryspecific FES P&L read-outs
- Present pilot project outcomes and decide on next steps
- Identify key FES
 P&L
 implementation
 applications
- Start developing and implementing applications in pilot countries / already engaged functions during project

Step 2: Understand future earnings at risk

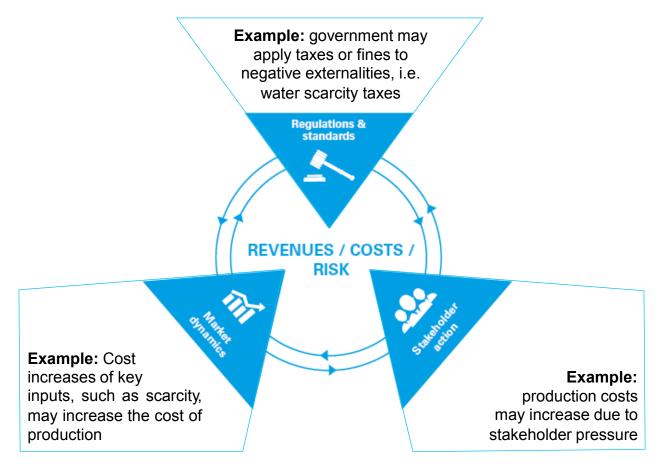


Understand how the externalities identified in step 1 may be internalized by the three drivers of internalization and the extent to which those drivers could affect earnings

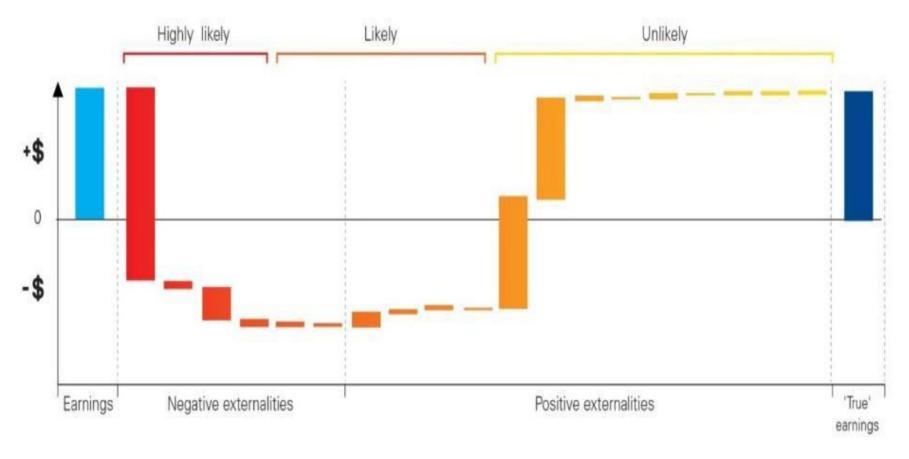
Benefits to business leaders and investors

- Enables understanding of the company's exposure to internalization of its negative externalities
- Quantifies potential risks to earnings through reduced revenues, increased costs, or increasing investment requirements
- Provides information to guide riskreduction strategies.

Step 2: Understand future earnings at risk through drivers of internalization



Step 2: Understand, prioritize and assess future earnings at risk



Step 3: Create corporate and societal value

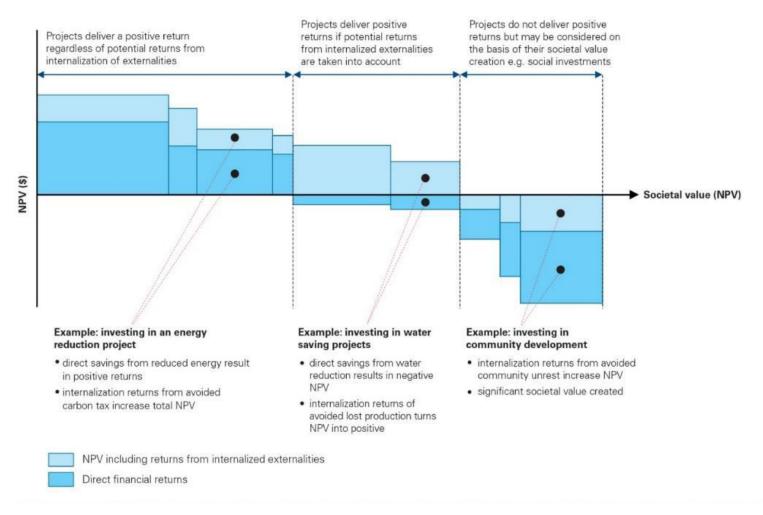


Step 3 helps companies to build business cases for investments that create both corporate and societal value in the most cost effective way possible

Benefits to business leaders and investors

- Provides a more complete (i.e. corporate and societal) view of the potential value creation of an investment
- Quantifies the Net Present Value of investments including likely internalization of externalities
- Provides insights to make balanced investment decisions on maximization of both corporate value and societal value.

Step 3: Create corporate and societal value – building the business case



Combined approach could inform revenues & costs hypotheses through True Value lens to shape sustainable business cases



Baseline revenues and costs of business





Select key product(s) / categor(y)(ies) & identify true value





Apply hypothesesdriven approach to value creation





Develop business / value cases

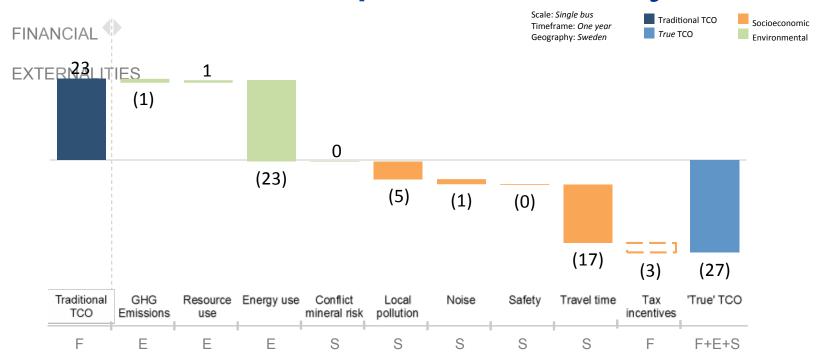




Define implementation plans

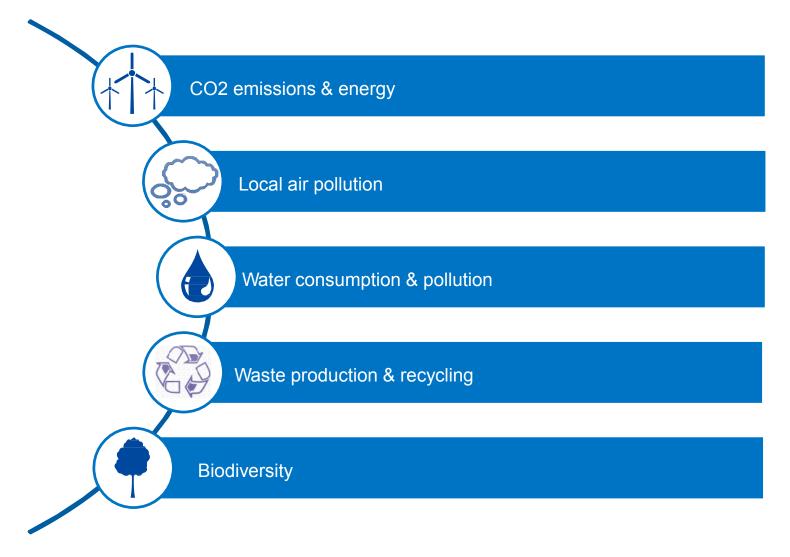


Helping to transform asset management, to include externalities as part of Total Cost of Ownership / Utilization over product lifecycle



Based on the KPMG True Value methodology wiith Volvo data

Overview of environmental indicators



Measuring Social Value

- Standard for social value measurement is still under development –
- <u>Janne Dietz (KPMG NL)</u> was seconded last year to the WCSD in Geneva to help come to a standard a wrote the paper: "Social Capital in Decision-Making: How social information drives value creation"
- Social value requires often a bespoke approach per project (dependent often on materiality and data availability)
- Bespoke approaches are devised by following steps of the impact chain:

Step	Description
1. Input	The resources necessary to carry out an activity. These indicators can be monetary, material or social related
2. Beneficiaries	The target population (direct and indirect) benefiting from or being impacted from the implementation of an intervention or product
3. Output	The results of the activity in question or the volume of work accomplished by the company or project. Common 'output' indicators include volumes sold and numbers of people reached
4. Outcome	Advantages, disadvantages or neutral changes for stakeholders as a result of the output
5. Impact Definition	The long-term societal consequences of the outcomes. The impact can be both direct and indirect
6. Quantitative Impact Indicators	Quantitative indicators that express impact in a certain quantity
7. Valuation Approach	Valuation relates to the different approaches associated with the measurement of change in 'welfare' of individuals and society in aggregate



Mobility & Travel Time

At the core of all transport related companies:

- + Mobility: "Transport of people (or goods) from A to B"
- Travel Time: "Time is Money"

Method & Basic Concepts

- Coefficient based on Revealed Preference is used in Societal Cost Benefit Analysis
- Basic Concepts:
 - Value of Time (VoT)
 - Value of Reliability (VoR)
 - New Concept currently being developed : Value of Convenience
 - Travel Time Multipliers (i.a. waiting, walking, crowdedness)



Wellbeing

- Measurement of employee wellbeing is a field still under development, no integral multipliers available to date yet, requires bespoke approach and should be related to certain programs
- Available studies often US focused due to larger internalization of health care cost for employers
- 'Hot' topic right now in real estate, e.g. building design and influence on productivity and medical cost
- Practical issue during engagements: limited data available (even pharma companies)

Examples SROI from studies

- For every \$ spend on wellness programs at companies \$6 dollar SROI (\$3.27 in medical cost and \$2.27 in absenteeism, productivity outcomes are not included) – similar return for tobacco programs
- Obese employees have on average 105% higher costs for prescriptions and 39% higher primary care costs. Overweight employees cost for prescription costs were 37% higher and primary care costs were 13% higher. Obese employees are on average 3.72 days absenteeism and have 6% higher chance to claim disability
- Every \$ spend on biking or hiking trails results in a 3\$ dollar medical cost saving



Economic Valuation

Direc

We assess the direct economic impact generated in two stages:

Construction



Operation



The economic benefits provided that are generated by the additional expenditure flowing into the economy as direct result of the construction and operation activities.

These arise from the expenditure of contractors, visitors, and venue operators, commonly known as direct impacts.

Indirect

We will assess the indirect economic impact generated by the suppliers of the construction contractors and venue operators.

Supply chain impacts



The expenditures from the direct impact are then captured as turnover for firms and incomes to local employees. These expenditure flows to additional suppliers and other service providers. These are known as **indirect impacts**, and supports additional employment and value throughout the economy.

Induced

We will assess the induced economic impact generated by the employee directly and indirectly related

Further impacts by employee



Induced impact arises from shifts in spending on goods and services as a consequence of changes to the payroll of the directly and indirectly affected business. Induced impact are measures of retail spending, and may include food, clothes etc

leakage that occurs in the calculation of economic impacts typically includes:

- Expenditure on goods and services outside of Hong Kong (such as imports); and
- Income for employees outside of Hong Kong



The Link

Expanding horizons, opportunities exploring

Annual Report 2014/2015 Strategic Report









Lok Fu Plaza interior after asset enhancement

OTHER FINDINGS INCLUDE: Lok Fu Plaza

INDUCED SHOPPERS

+50% +50% TOTAL SPENDING

+10% +14% DURATION OF STAY

QUANTIFYING OUR VALUE CREATION: BEYOND OUR FINANCIAL STATEMENTS

As an extension of the living room, we also have an impact on uplifting the standard and quality of life for those around us. Some of the longterm community benefits our enhancement works offer include: creating new jobs during and after enhancement works, providing shoppers with more retail choice and improving accessibility. Quantifying these socio-economic contributions of our shopping centres is just as important as measuring financial performance. Only by taking into account both of these measurements can we demonstrate the overall effectiveness of our business.

We commissioned KPMG Hong Kong to conduct a socio-economic impact assessment of our operations at Lok Fu based on KPMG's True Value methodology. The study considered economic value generated by our shopping centre, benefits to local government, economic impact on the community and perceived changes in community quality of life. The study found that every HK\$1.00 we invested in Lok Fu Plaza and Market, generates between HK\$2.10-\$4.10 and HK\$1.80-\$8.70 in annual socio-economic benefits, respectively.

A survey of shoppers and residents revealed that after asset enhancement:

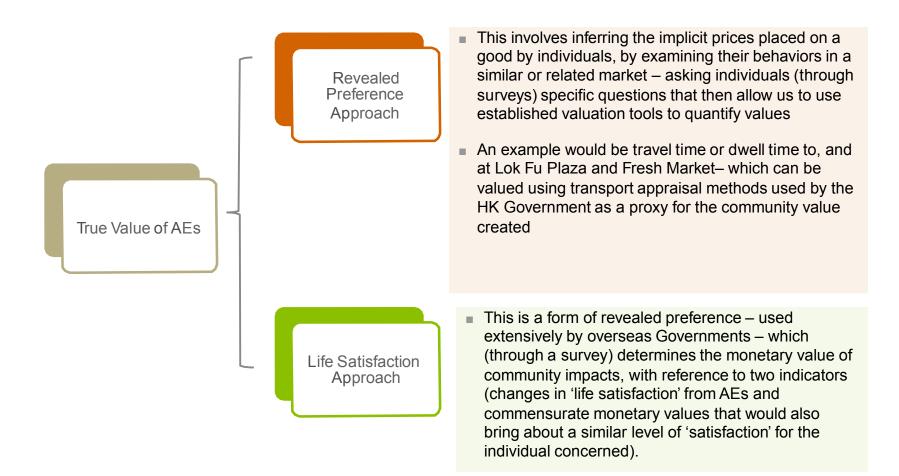
- . Lok Fu catered to an expanded catchment
- . Nearby residents have a strong social dependence on the property, which now provides better public areas enabling social networking and community development
- . Induced shoppers are from a younger demographic
- . Shoppers are staying longer and spending

The outcome of this initial study enable us to measure and understand the overall contribution of our shopping centres and allow us to identify priority areas for improvement in future asset. enhancements. By quantifying our socioeconomic impacts at Lok Fu we are establishing a platform to ensure that the communities we operate in increasingly benefit from our business operations. As a business that is committed to improving the lives of those around us, we will continue to develop this platform to demonstrate that The Link is a financially and socially responsible investment.



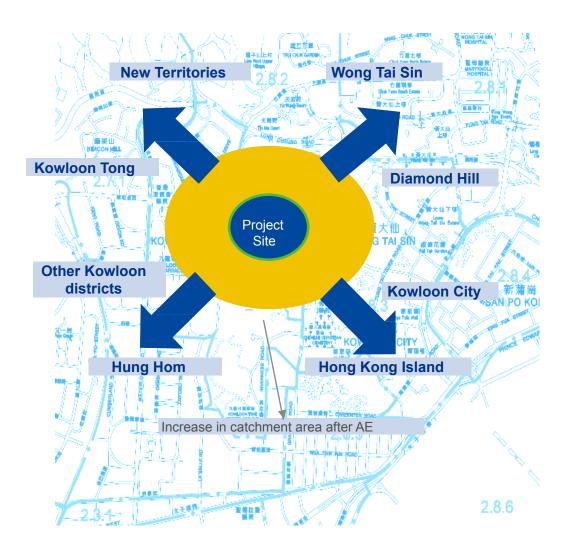


Our assessment methodology





Findings: Catchment area increased





Findings: Number of footfall

ncrease in pping trips by districts, Lok Fu Plaza



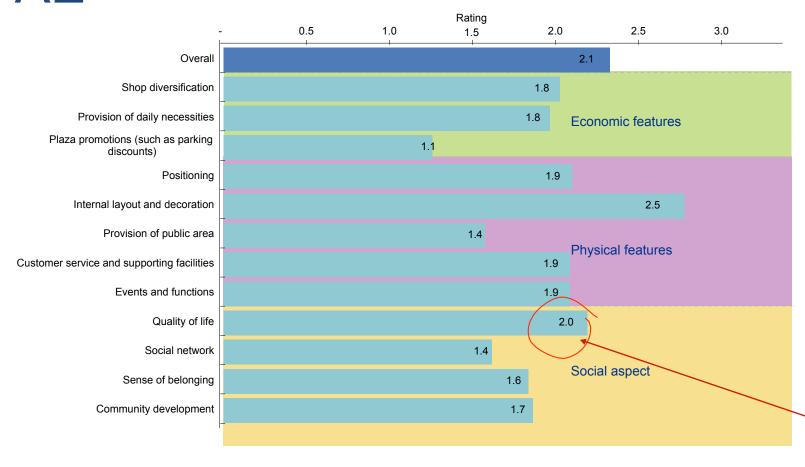
No. of induced shopping trips + 29%

Number of shopping trips by districts, Lok Fu Fresh Market





Life Satisfaction: Lok Fu Plaza after AE



Quality of life was generally perceived as one of the most appreciative element of the Lok Fu Plaza AE





Thank you