



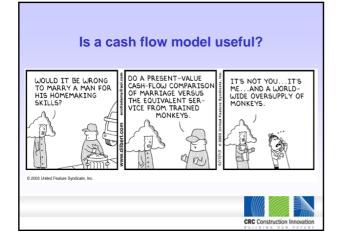
Introduction

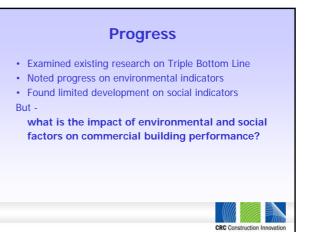
We structured a sophisticated cash flow model to determine the financial performance of existing office buildings, but....

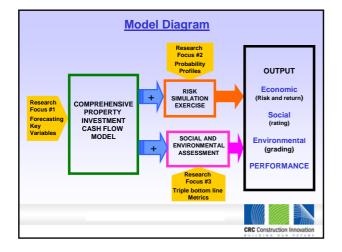
forward looking, responsible owners want more,

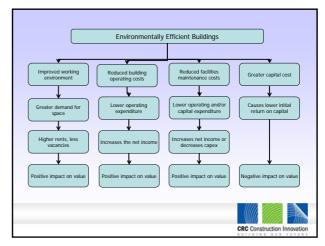
they want an evaluation of the **financial**, **environmental and social performance** of the asset



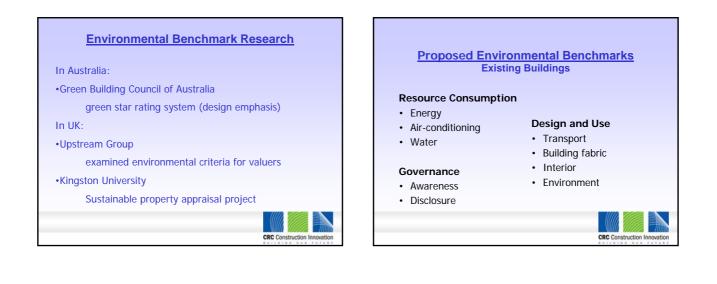








Project 11C: The Evaluation of Functional Performance in Commercial Buildings



Proposed Social Benchmarks

- · Health and safety
- Stakeholder relations
- Community engagement
- Accessibility
- · Occupier satisfaction and productivity
- Cultural issues
- Local impacts

(will expand on each benchmark)



Health and Safety

- compliance with H & S regulations and appropriate signage
- adequate public liability and service provider insurance
- awareness and training of emergency evacuation and accident first aid procedures for all floor wardens
- · a first aid station accessible to all building users



Stakeholder Relations

- monitoring of stakeholder concerns, views and provisions
- transparency and disclosure of landlord/tenant contracts and marketing agreements
- supportive use and occupation guidelines for tenants
- appropriate training for security and public relations
 personnel

CRC Construction Innovation
CRC Construction innovation



Project 11C: The Evaluation of Functional Performance in Commercial Buildings

Accessibility

- connections to designated green spaces
- proximity to urban spaces (town centres, malls, etc)
- · availability and efficiency of public transport
- wheelchair access
- · proximity to childminding facilities



Occupier Satisfaction and Productivity

- quality of communal service areas e.g. toilets, kitchen facilities
- complementary usage of building (compatible tenants)
- occupant productivity in terms of satisfaction and physical wellbeing
- Smart technology design provisions



Cultural Issues

- recognition of indigenous people through allocation of cultural space
- · communication of site or community history
- consideration of gender equity and minority group requirements
- preservation of heritage values
- · value of artwork as percentage of fit out



Local Impacts

- aesthetic implications (compliance with precinct theme, building scale, etc.)
- practical implications (traffic generation, off-street emergency parking and pedestrian management)
- nature of tenant businesses and naming rightscommunity linkages and sponsorship of local
- neighbourhood activities



Combining the impact of financial, environmental and social factors

Cash flow study must be adjusted for changes in:

- · cost of improvements/alterations
- ongoing operating expenses
- depreciation allowances
- rent

Thereafter the resultant return (IRR) or value (NPV) requires examination (example below)

CRC Con

Project 11C: The Evaluation of Functional Performance in Commercial Buildings

Hypothetical Office Building	IRR return on financial	IRR return on triple bottom line
	evaluation only	evaluation
Building A (socially good, environmentally good)	10.2%	10.4%
Building B (socially poor, environmentally good)	10.8%	10.3%
Building C (socially poor, environmentally poor)	11.5%	9.5%

Conclusions

- Triple bottom line evaluation means examining the market's demand for sustainability features
- Limited evidence of increased income achievable from sustainable buildings
- No clear standards on what is a socially responsible property entity

Future activity should be:

- initially agree on the benchmarks and standards
- thereafter research their effects on rents and sale prices

