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Design and Professional Practice 2

Sustainability

Dr Ian Radcliffe

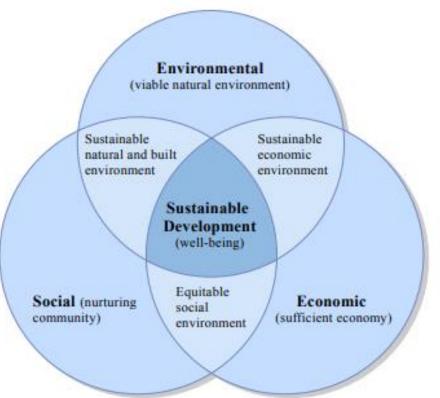
















Triple Bottom Line (three-Ps)

- Profit
- People
- Planet











Economic Sustainability

- Cost-Effectiveness
- Lifecycle Cost Analysis
- Return on Investment (ROI)
- Long-Term Planning











Social Sustainability

- Community Engagement
- Equity and Accessibility
- Health and Safety
- Cultural Sensitivity
- Quality of Life











Environmental Sustainability

- Minimize Resource Depletion
- Reduce Emissions and Pollution
- Promote Renewable Energy
- Protect Ecosystems
- Sustainable Materials



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Life Cycle Assessment

 Tool for evaluating environmental impact of a manufactured product.

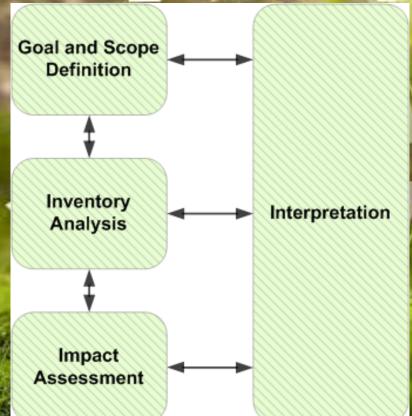


- Examination of supply chain processes.
- Four phases of assessment.



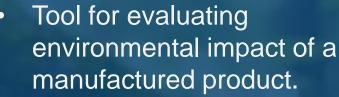
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Life Cycle Assessment







- Examination of supply chain processes.
- Four phases of assessment.



ISO 14040







