



# Integrating sustainability concepts

CIVE 324

Sustainable Project Management

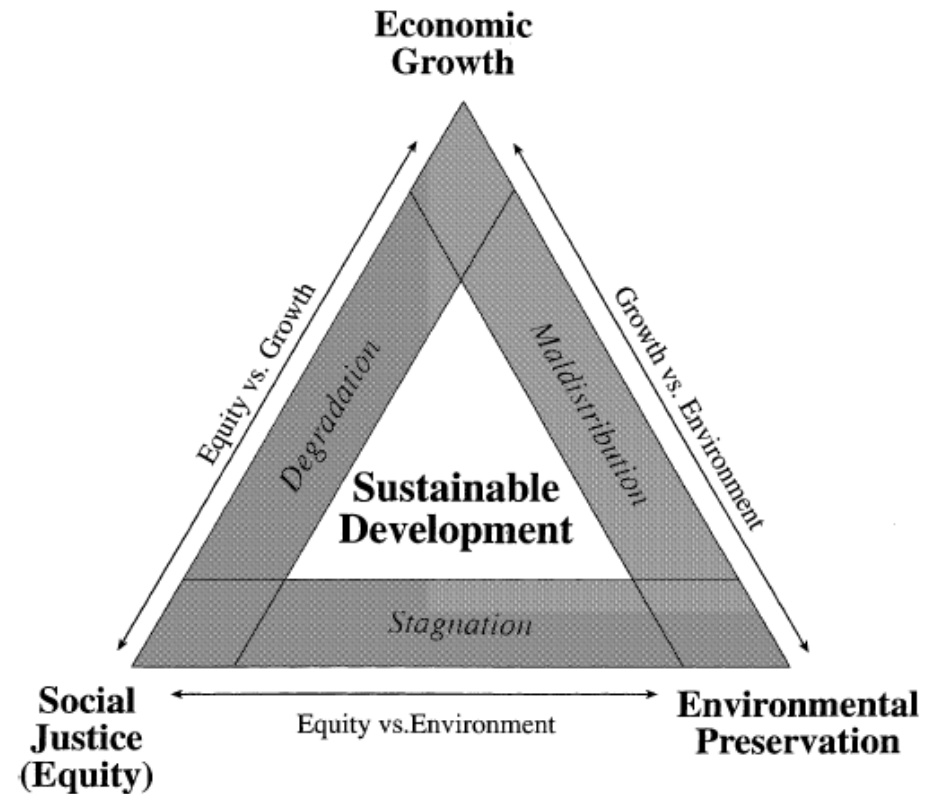
Marianne Hatzopoulou





# Introducing sustainable development

Emphasizes 3 main goals &  
balances 3 tradeoffs:  
(Feitelson, 2002)

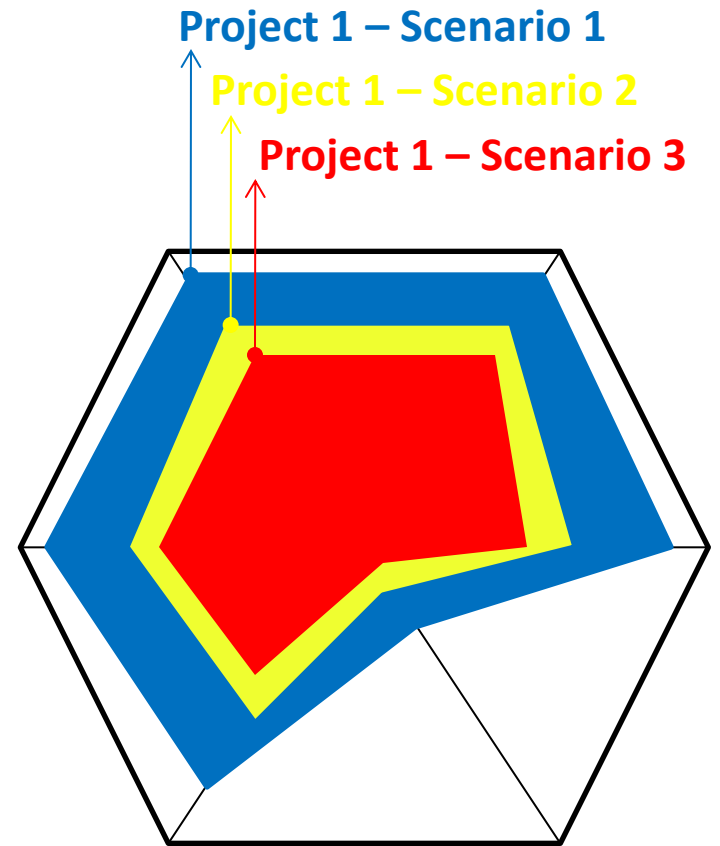
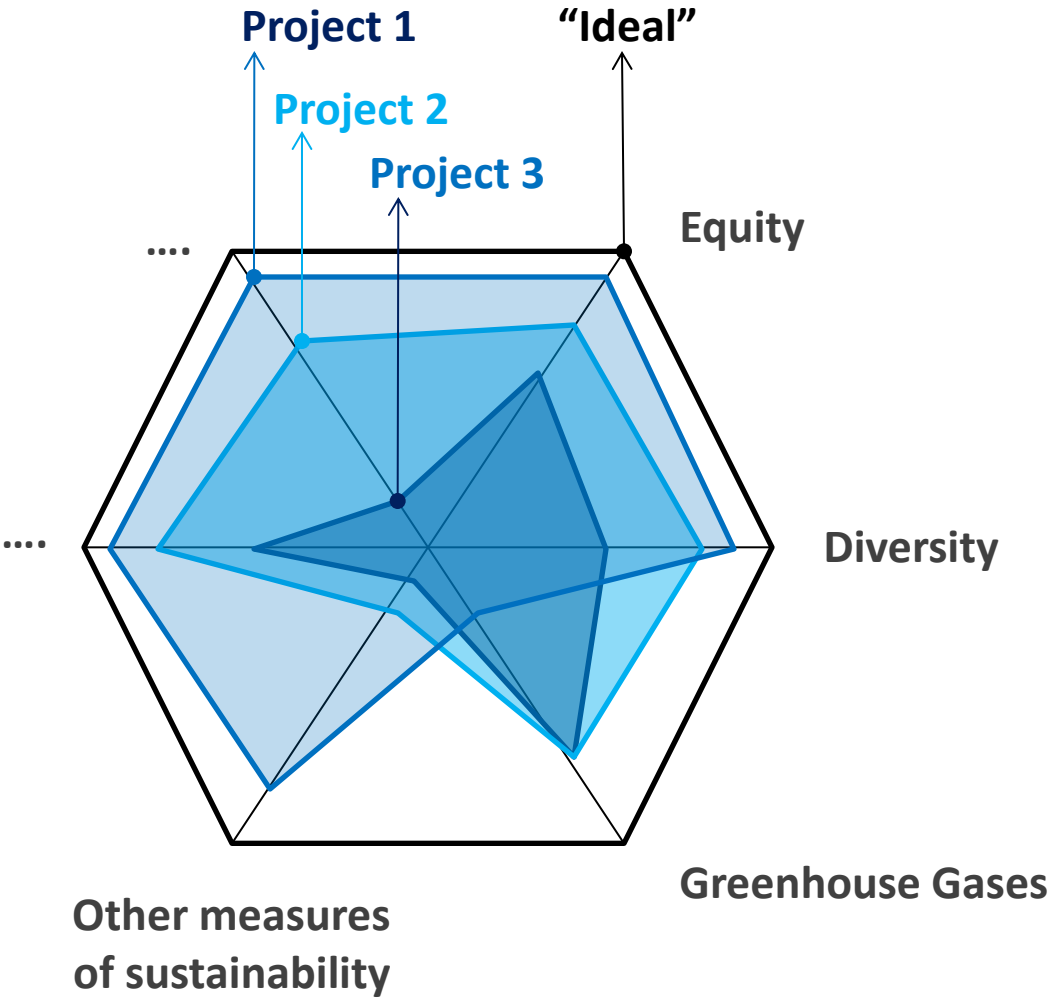




# Can we measure sustainability?

## Performance

## Reliability





# Project vs. Asset Lifecycle

**Project Life Cycle**

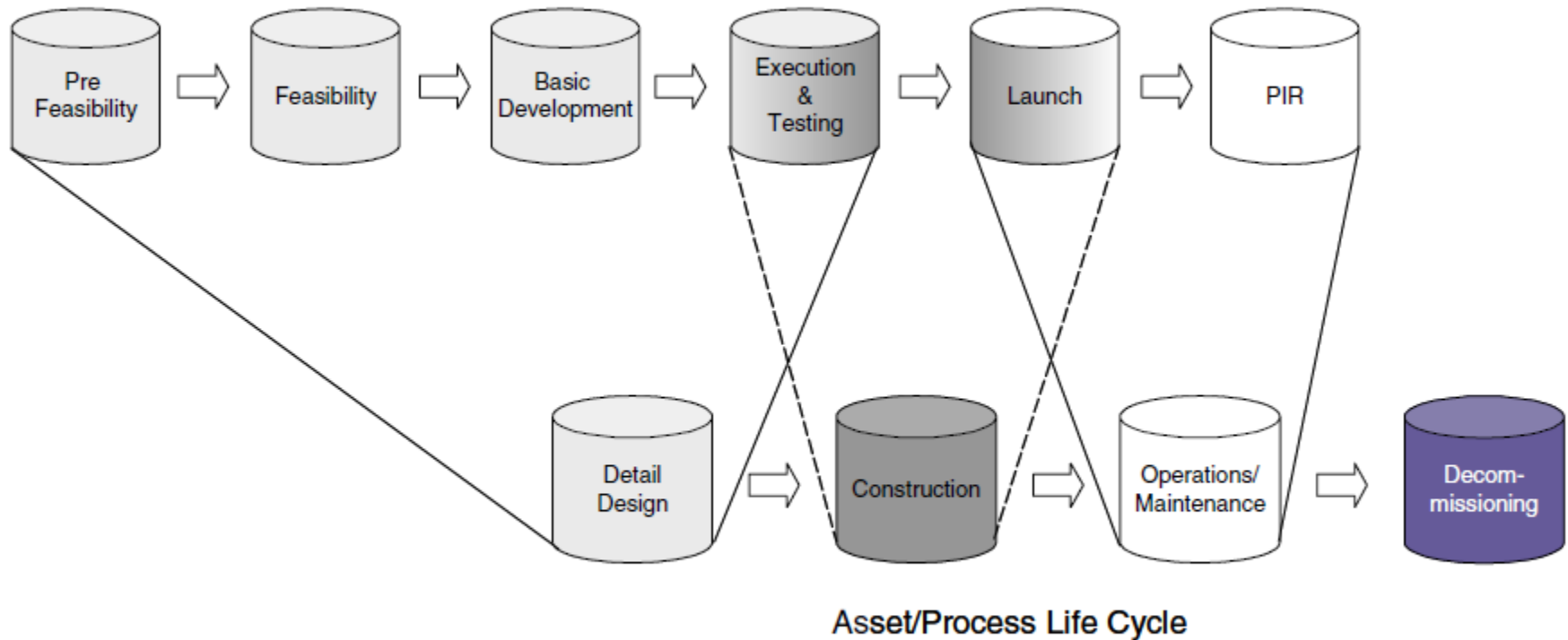


Fig. 5. Interaction between project and asset life cycle.



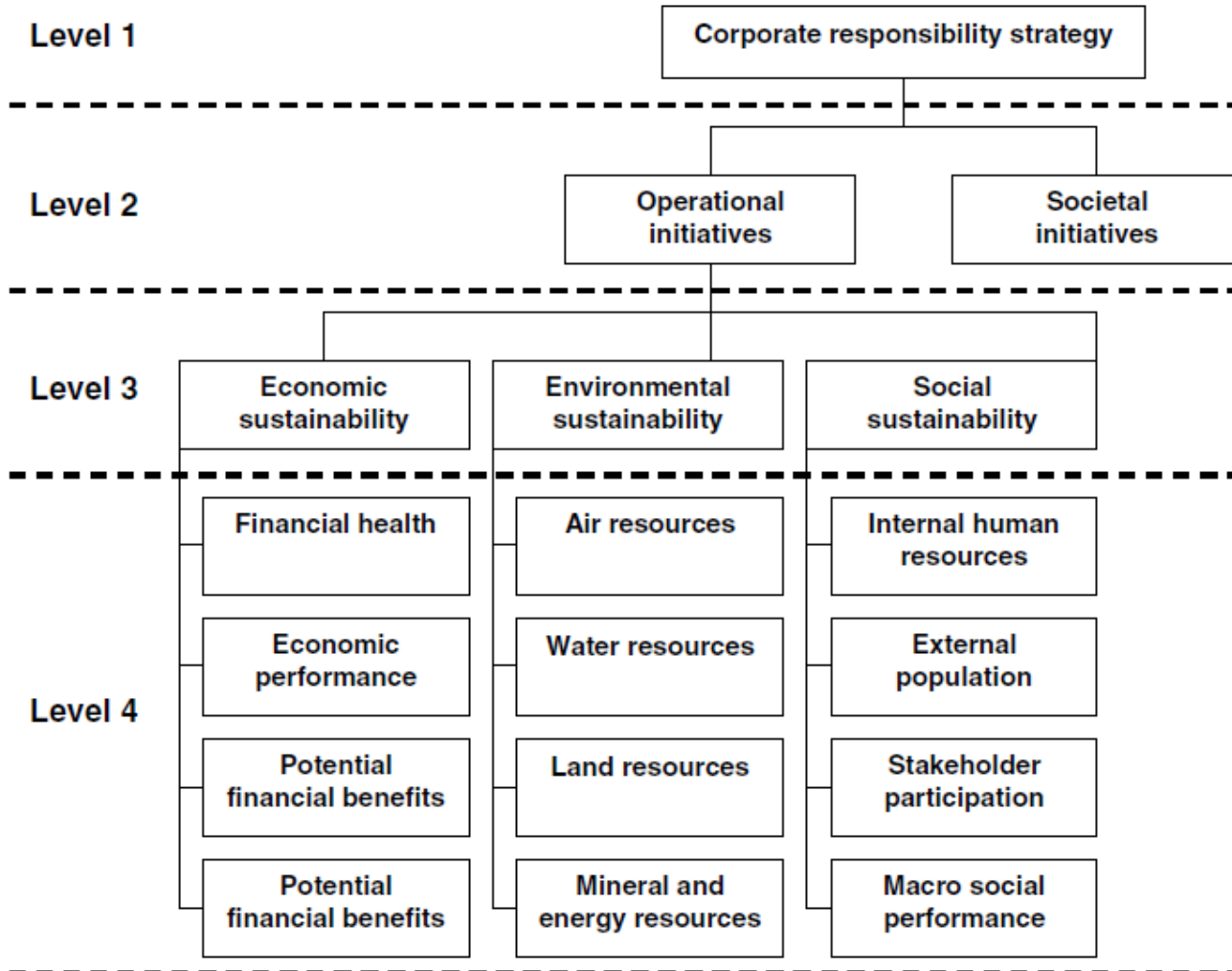
## Project vs. Asset Lifecycle

“Aligning project management methodology with the principles of sustainable development therefore requires that the sustainability consequences of the asset lifecycle must be considered during the project lifecycle”

Adapted from: Labuschagne and Brent, 2005



# Sustainability evaluation framework to assess projects during the early lifecycle phases in terms of the sustainability impacts of future implemented assets



# The Construction Project Lifecycle

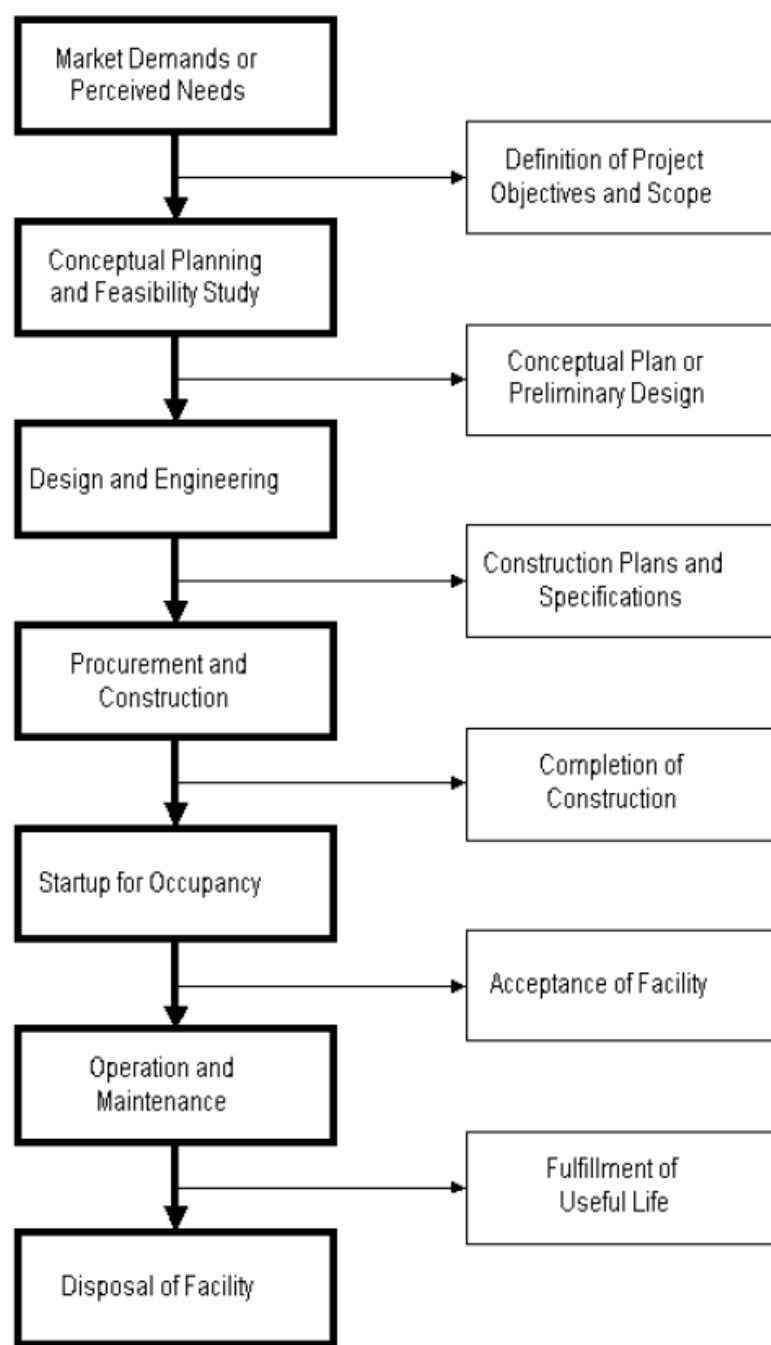


Figure 1-1: The Project Life Cycle of a Constructed Facility

Chris Hendrickson, **Project Management for Construction**. Department of Civil and Environmental Engineering, Carnegie Mellon University, Pittsburgh, 1998. Available from <http://pmbook.ce.cmu.edu/index.html>.<sup>7</sup>