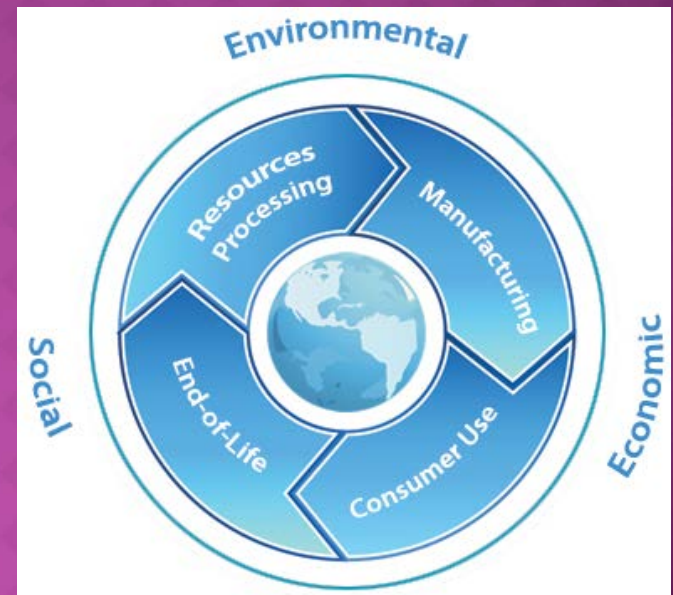
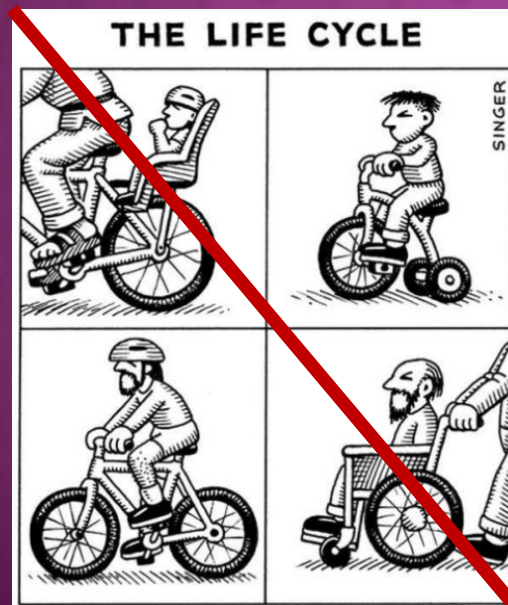


# CLIMATE CHANGE AND INFRASTRUCTURE: LIFE CYCLE ASSESSMENT

Mary Ann Curran, PhD, FAICHe

Cincinnati, Ohio 45244

macurran@cinci.rr.com



**BAMAC, Ltd.**

January 30, 2013

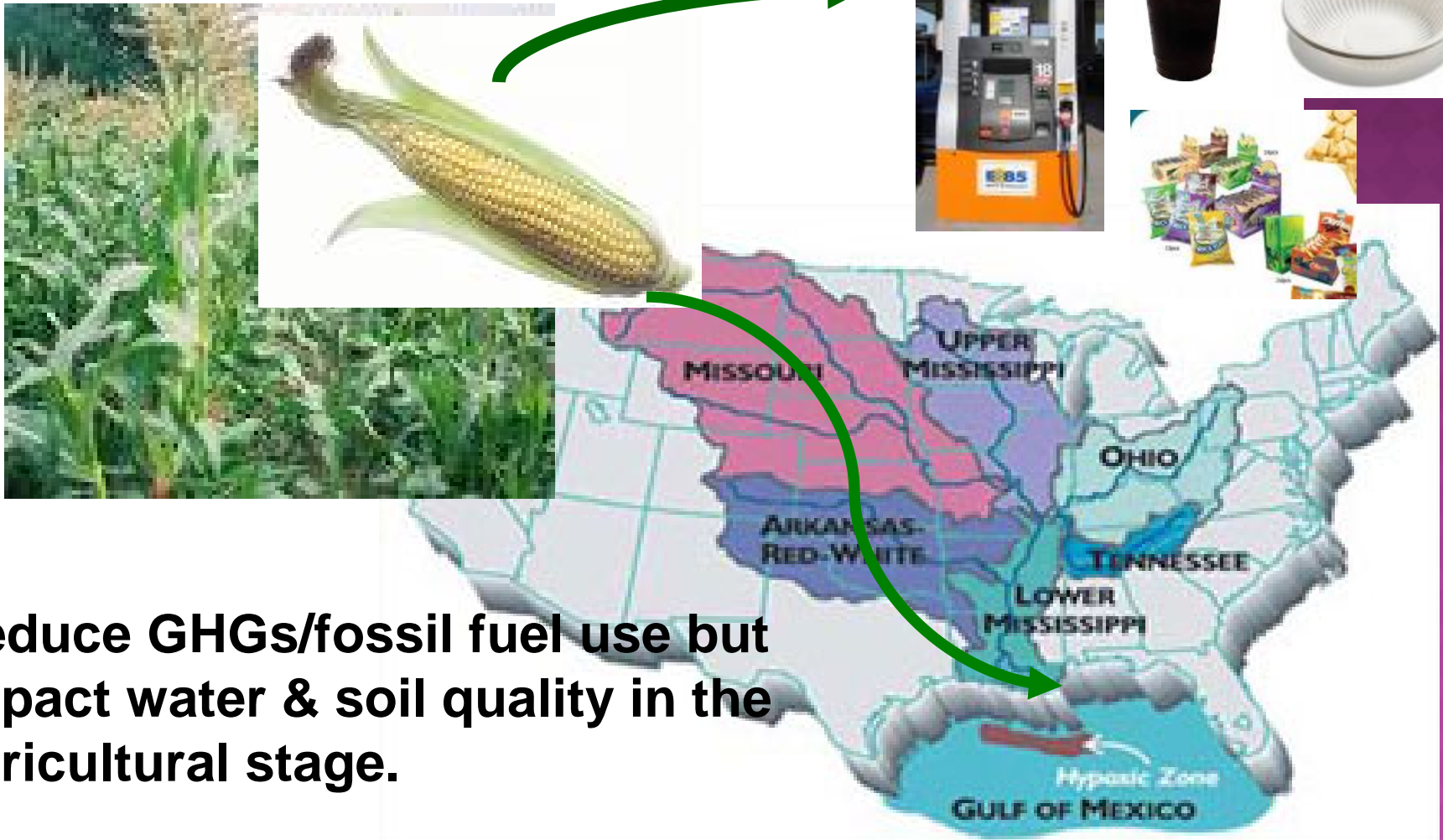
**Environmental**

**Social**



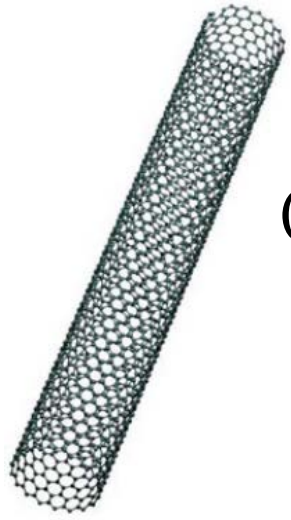
**Economic**

# BIO-BASED PRODUCTS

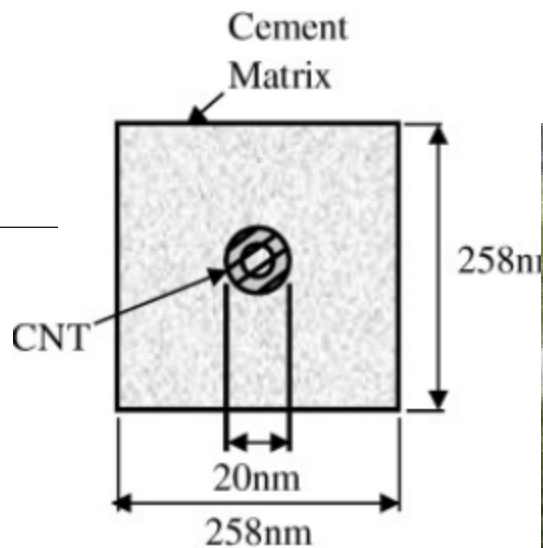


**Reduce GHGs/fossil fuel use but impact water & soil quality in the agricultural stage.**

# LCA OF MITIGATION ACTIONS

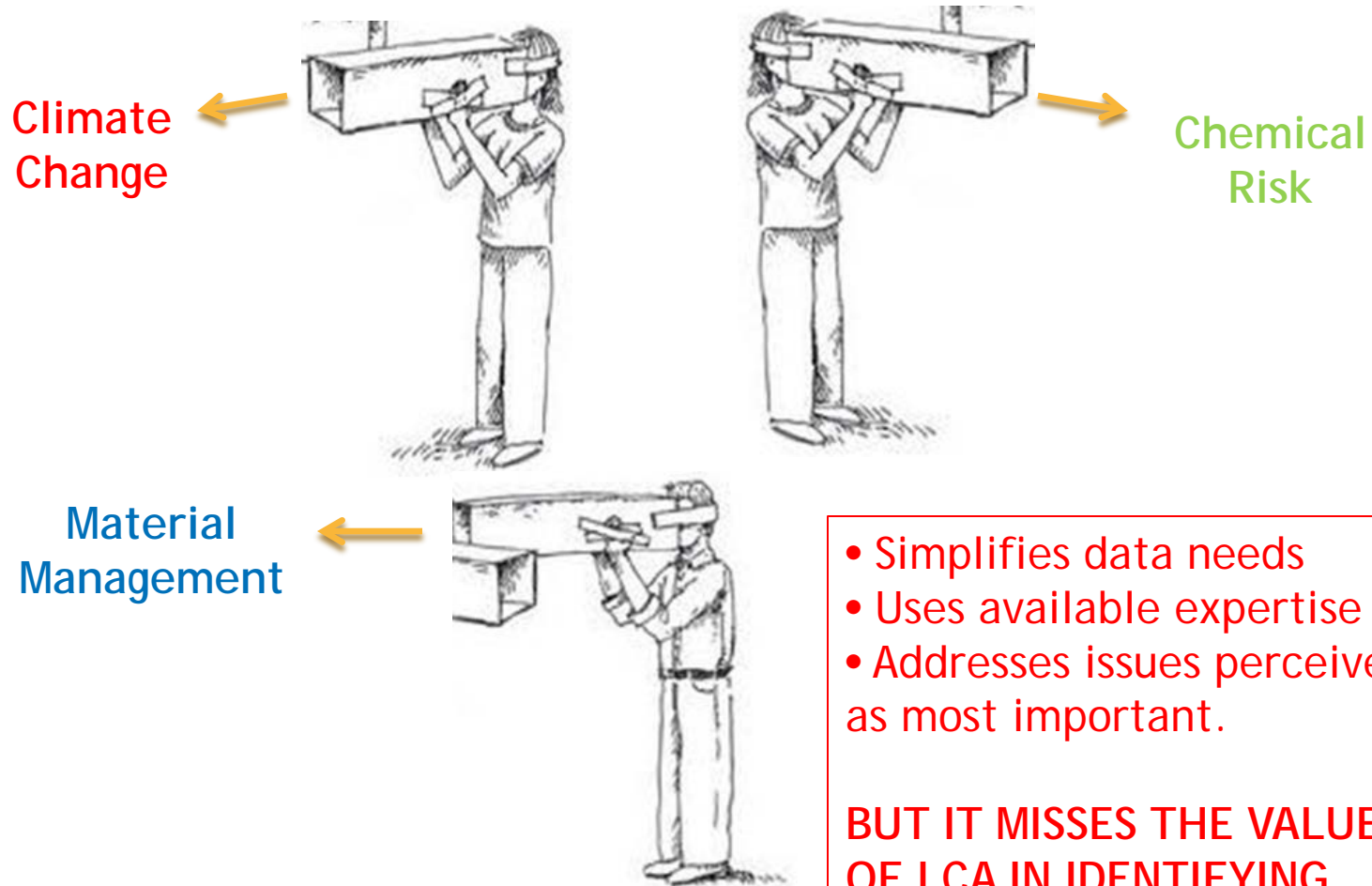


## Carbon Nanotube-Reinforced Concrete



Toxicity of CNT??

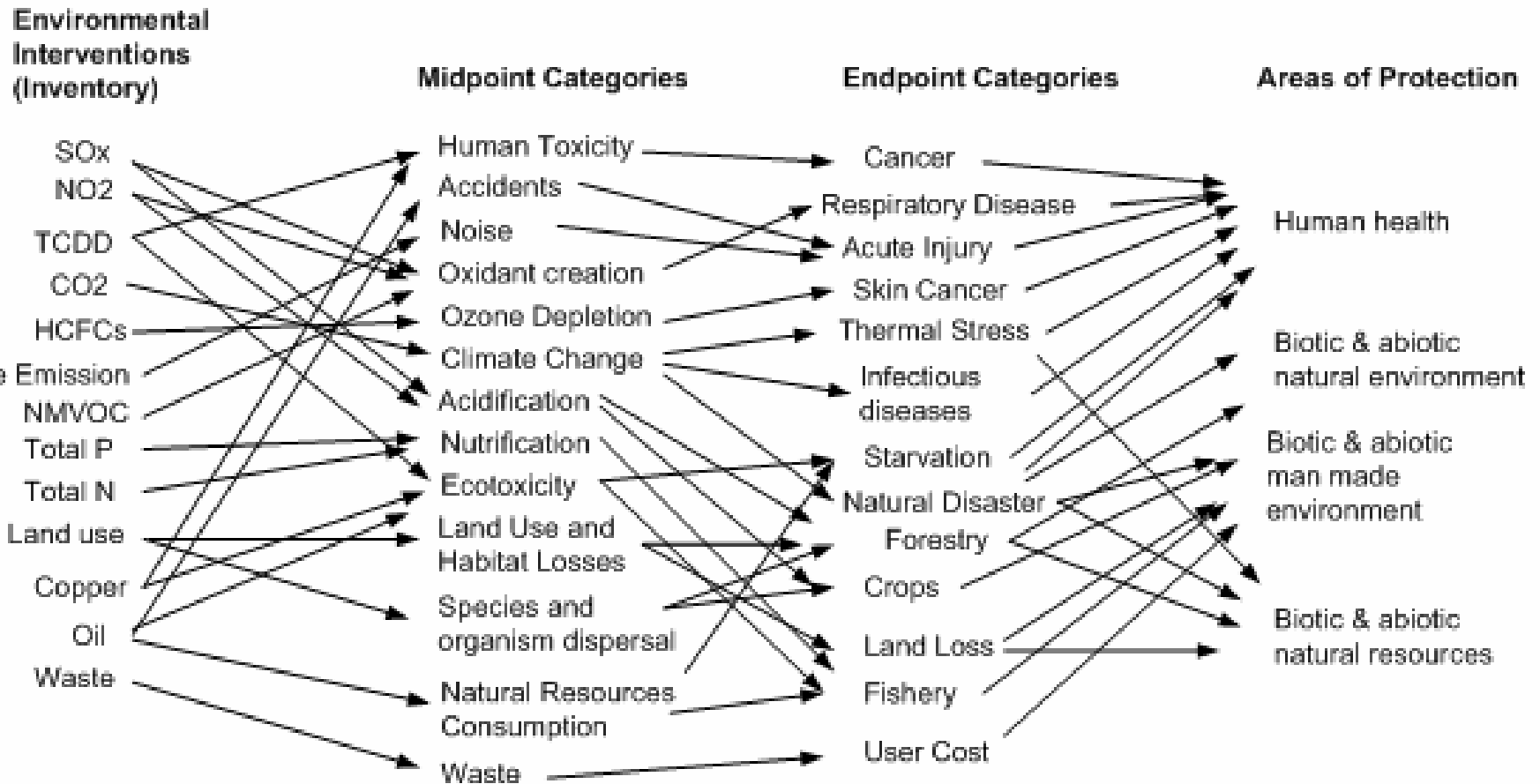
# SELECTIVE LIFE CYCLE MANAGEMENT



- Simplifies data needs
- Uses available expertise
- Addresses issues perceived as most important.

**BUT IT MISSES THE VALUE OF LCA IN IDENTIFYING POTENTIAL TRADE-OFFS!**

# LIFE CYCLE IMPACT CATEGORIES



From Jolliet et al. (2004) The LCIA Midpoint-Damage Framework of the UNEP/SETAC Life Cycle Initiative, *IJLCA* 9 (5) 394-404.

# LCA DOES NOT ALWAYS (USUALLY) DECLARE A “WINNER”

The desire to come up  
with a single “score”  
can lead to a  
meaningless result...

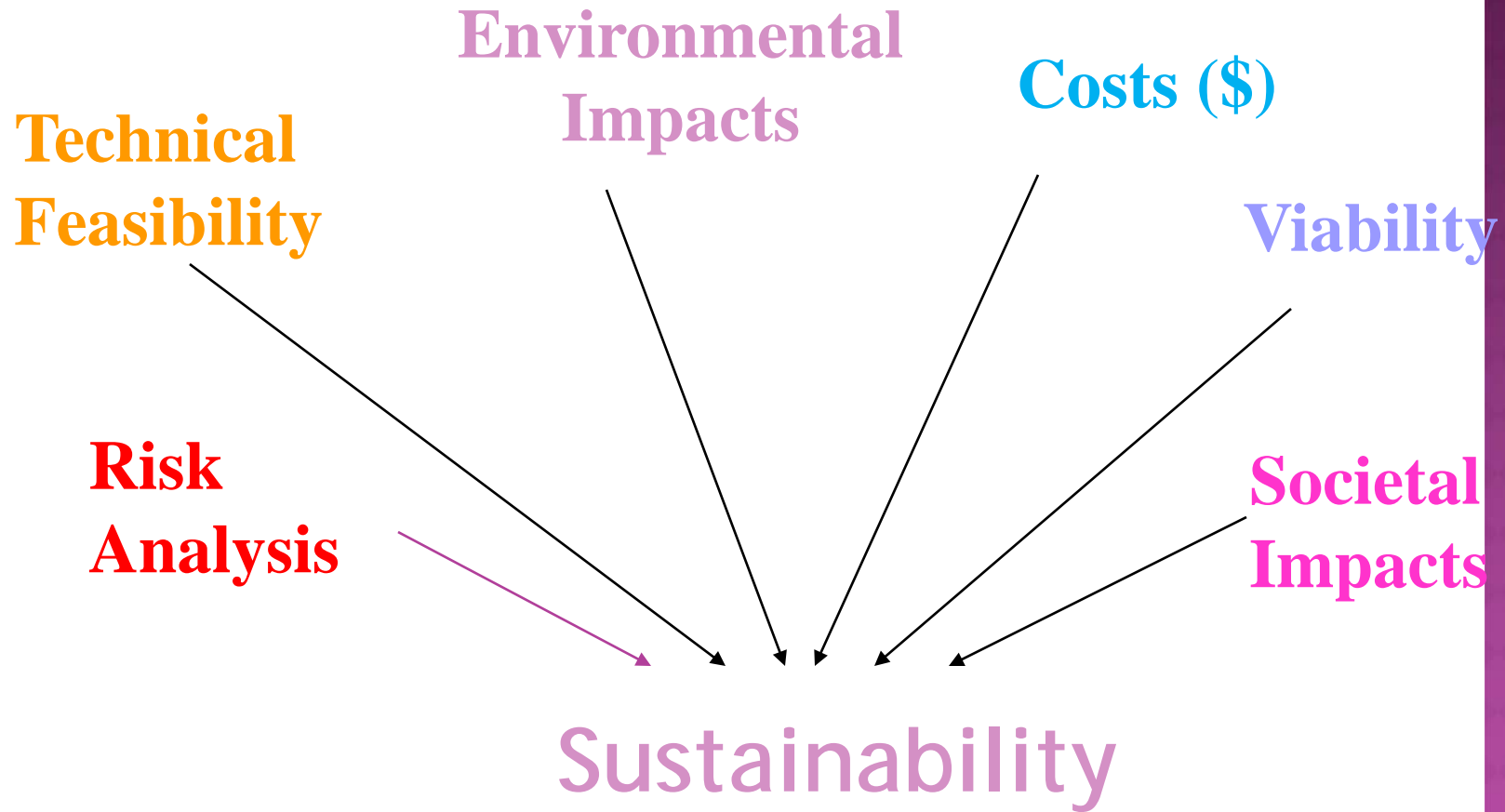


## Entering Hillsville

Founded	1802
Elevation	620'
Population	3,700
Total	6,122



# INTEGRATED DECISION MAKING



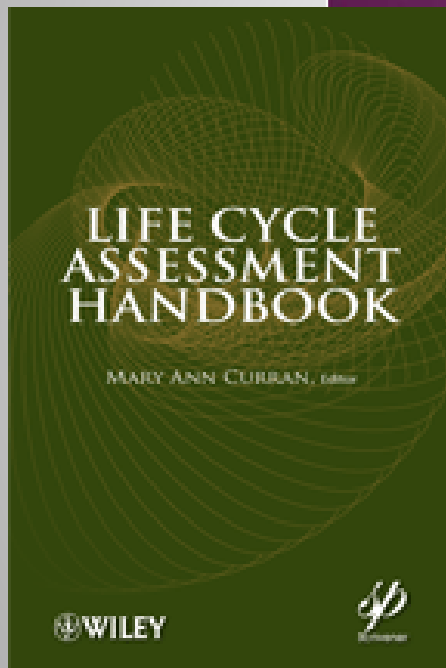






October 2012

# LIFE CYCLE ASSESSMENT HANDBOOK: A Guide to Environmentally Sustainable Products



MARY ANN CURRAN, Editor

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