

## PHASE 1

### SUSTAINABLE TOOLS, METHODS & EDUCATION

- Life Cycle analysis
- Total Cost of Ownership
- Sustainable Materials
- Process Technology
- Education and Certification

## PHASE 2

### SUSTAINABLE DESIGN PROCESSES

- Sustainable Design Tools and Methods
- Clean Processes
- Life-Cycle Design
- Knowledge Base

## PHASE 3

### SUSTAINABLE PRODUCT SYSTEMS

- Innovation Based Design
- Design for the Life-Cycle
- System Integration
- Product and Service Support Strategies

# 3 phased journey to SUSTAINABLE PRODUCT SYSTEMS

Chart stylized and based on: Nasar, N. (June 21, 2007) Designing Sustainable Manufacturing Practices, OECD Workshop, Copenhagen.