

Outline
Government Perspectives on Engineering Systems
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Overview

1. Government Experience
 - a. Government regulations – examples
 - i. Telecommunication standards
 - ii. Environmental projects
 - b. Manufacturing
 - i. PNGV experience (trades model at NASA)
 - ii. Process design for small manufacturers
 - c. Government role
 - i. R & D
 - ii. Match making: information to user
2. Educational Experience
 - a. Engineering education
 - i. Societal issues/applications
 - ii. Technology: use vs. design; analysis of design process
 - b. Major technology changes
 - i. Visualizaton programs
 - ii. Systems design and visualization
 - c. Examples
 - i. 4D modeling in Construction Management
 - ii. Virtual reality – design, trades, build to schedule
 - d. Government involvement
 - i. R & D programs
 - ii. Engineering education