Reference Architecture & Governance

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Straw-Architecture: IBM’s MAPE-K

- Add artifacts & people
- Circles are tasks, not components
- Knowledge systemically maintained
- Boundaries are fuzzy
- Multi-level eco-system
  - component
  - enterprise
  - sector
  - economy
- Need to model env.
- Arch varies by level
  - low: hierarchical
  - high: peer
- Add governance, oversight, and accountability

source: http://escoffier.me/
SYS

- instrumentation/data
- people: docs/patients/nurses...
- monitors/bods...
- processes
- objectives (belong in gov)
- constraints on behavior
- enforcement mechanisms
Centrality of oversight & enforcement
Hierarchical-ish
Where does Experimentation Fit In?

Generally not a scientific experiment
Largely “in-vivo”
Also simulate alternatives as part of Analysis task
Multi-level, type varies by level
  – system: tweak a component
  – sector: launch a start-up company
  – economy: conduct “social experiment”, like medicare (once upon a time)
Where does Mechanism Design Fit In?

(Somebody speak up :)