

Reference Architecture & Governance

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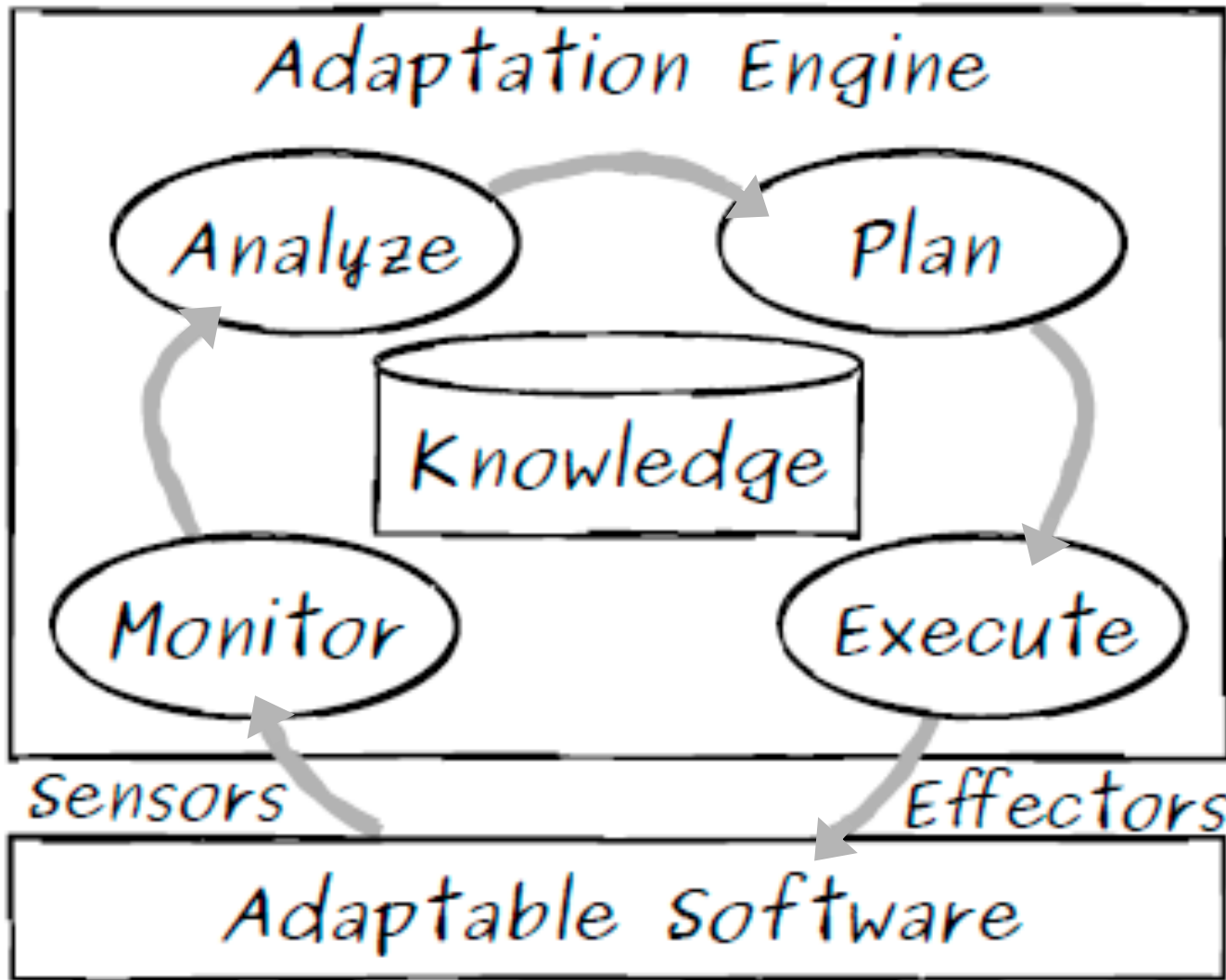
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Straw-Architecture: IBM's MAPE-K

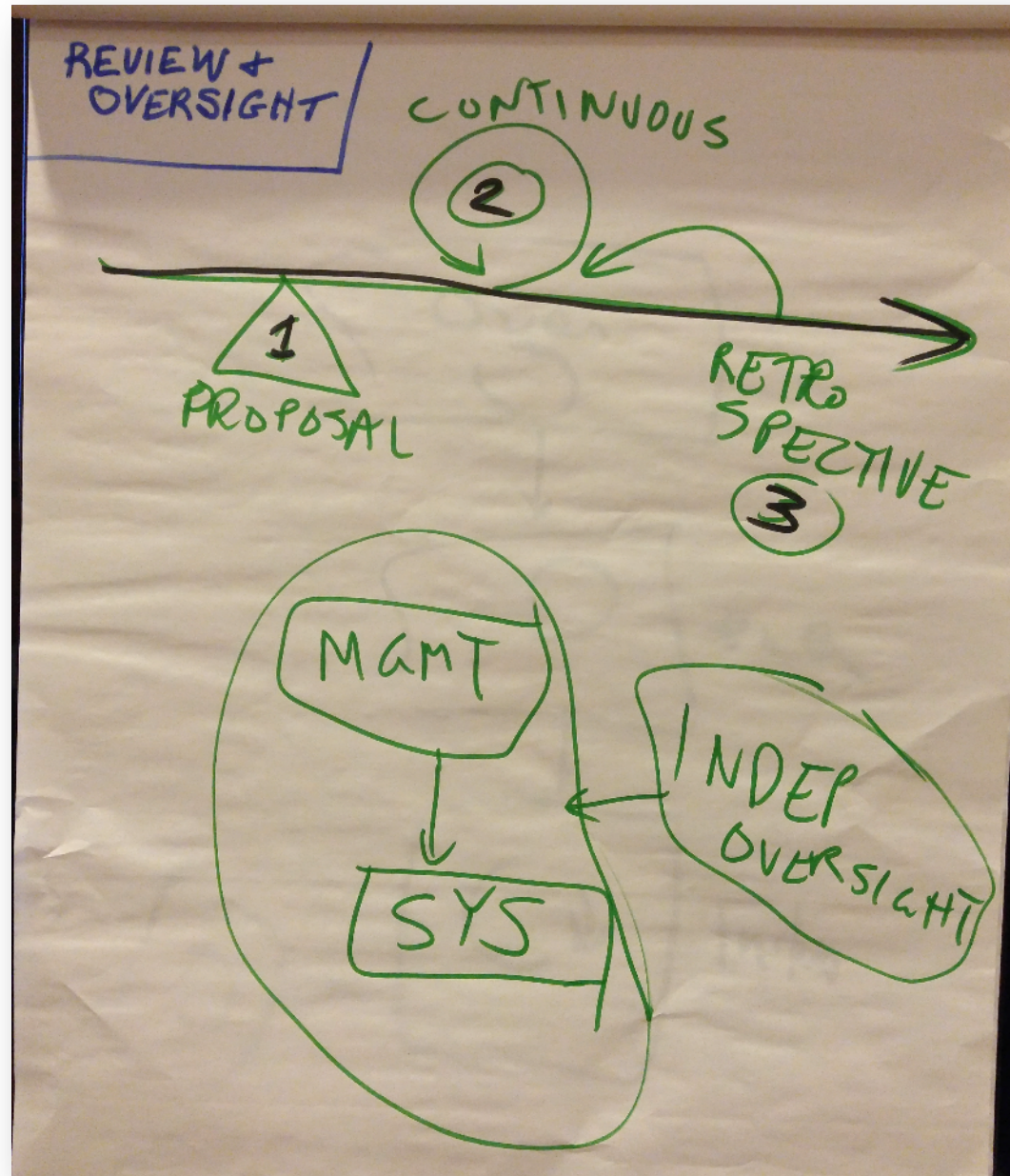


- Add artifacts & people
- Circles are *tasks*, not components
- Knowledge systematically maintained
- Boundaries are fuzzy
- Multi-level eco-system
 - component
 - enterprise
 - sector
 - economy
- Need to model env.
- Arch varies by level
 - low: hierarchical
 - high: peer
- Add governance, oversight,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

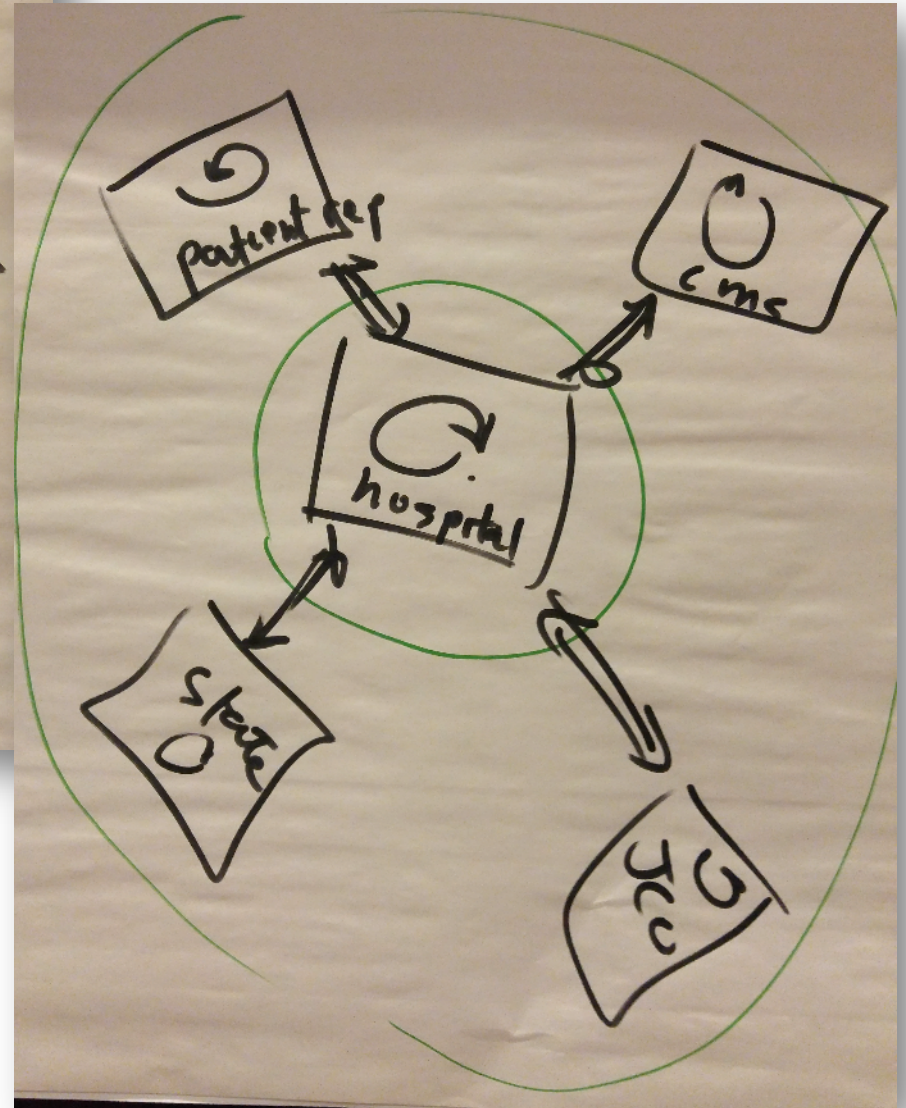
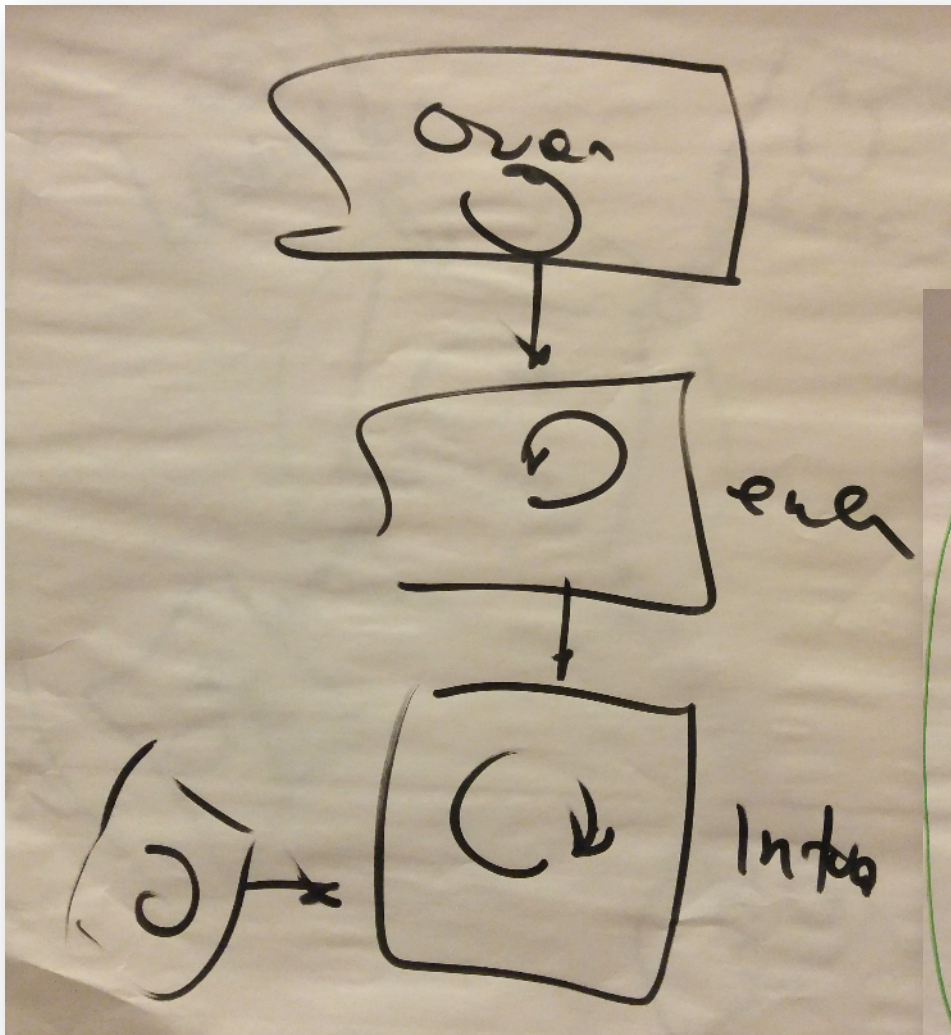
SYS

- instrumentation / data
- people: docs / patients / nurses
etc
- monitors / beds / ...
- 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 :)