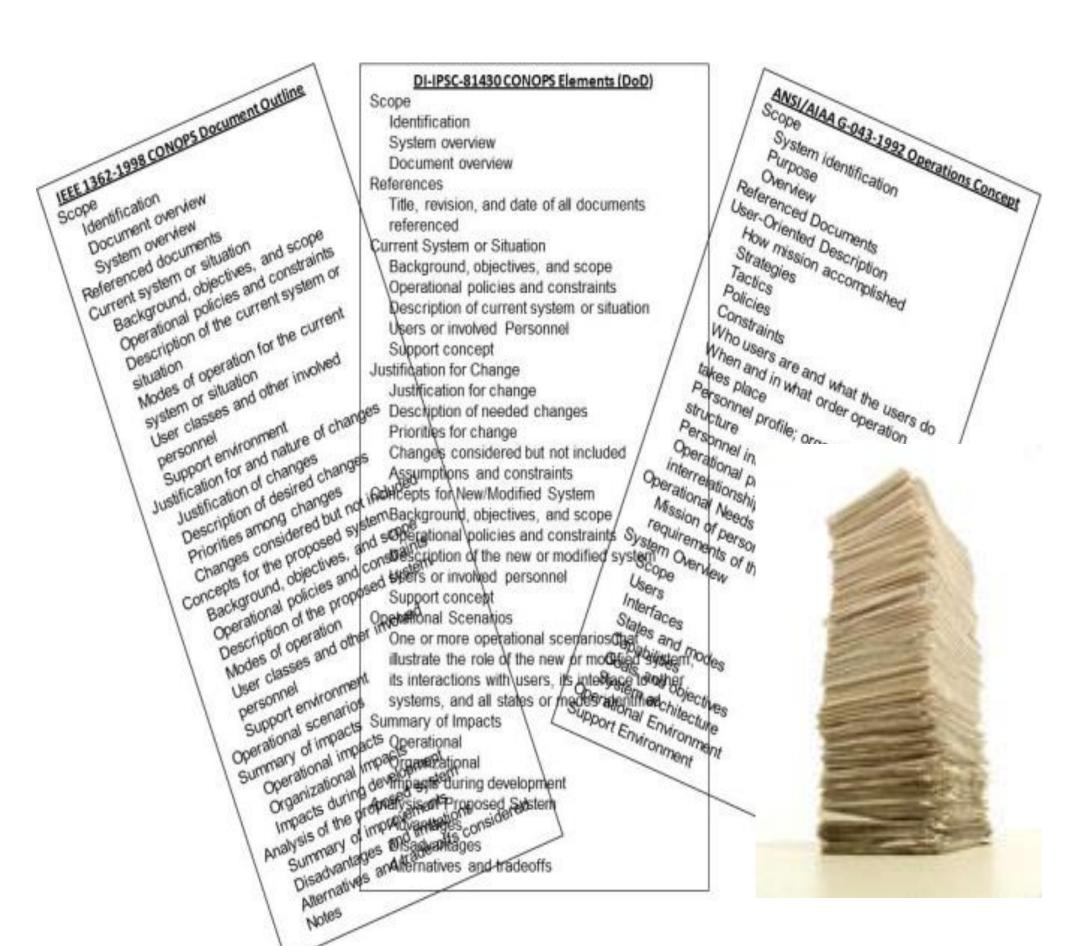
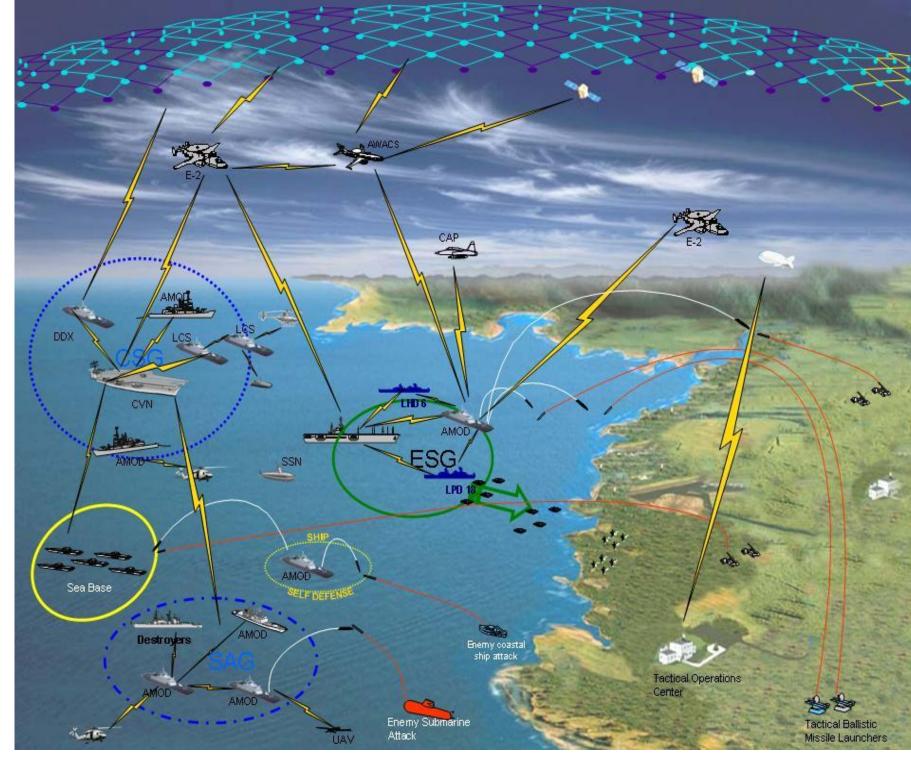
CONCEPT ENGINEERING AGILE DEVELOPMENT OF A GRAPHICAL CONOPS

Today





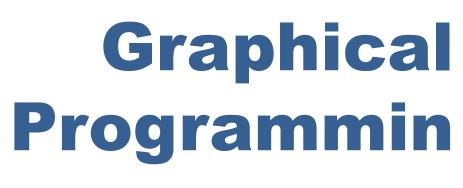
Problems: Static text, static graphics, difficult to change, no human roles are represented, difficult to

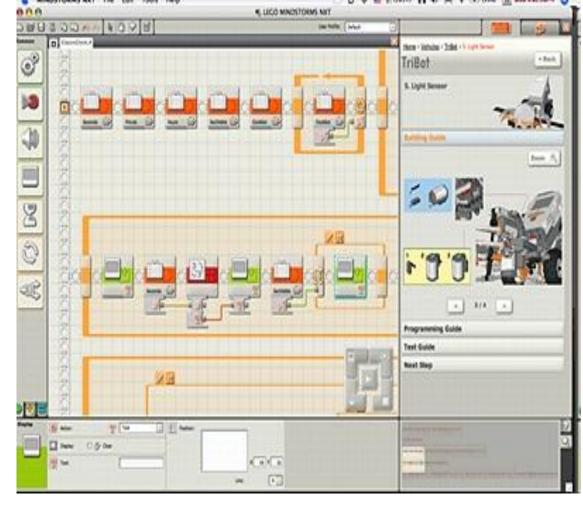
VISITOR NEED: Inereis a need to quickly and graphically articulate a operations concept of (CONOPS) for new missions, business processes, and feature sets to realize a shared model mental and understanding mission, and potential solutions across a set of diverse stakeholders

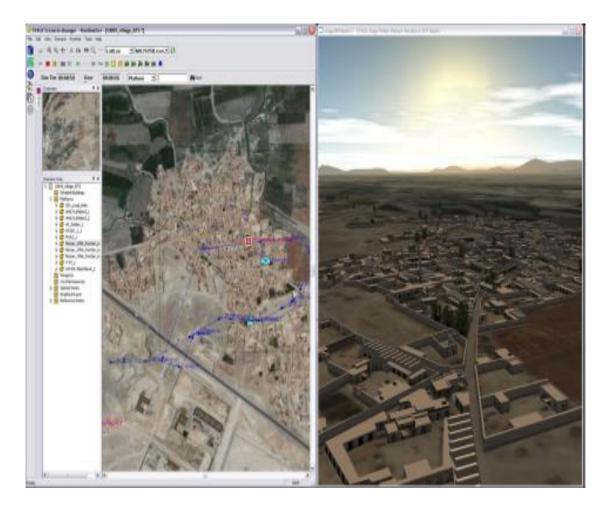
Current Technologies



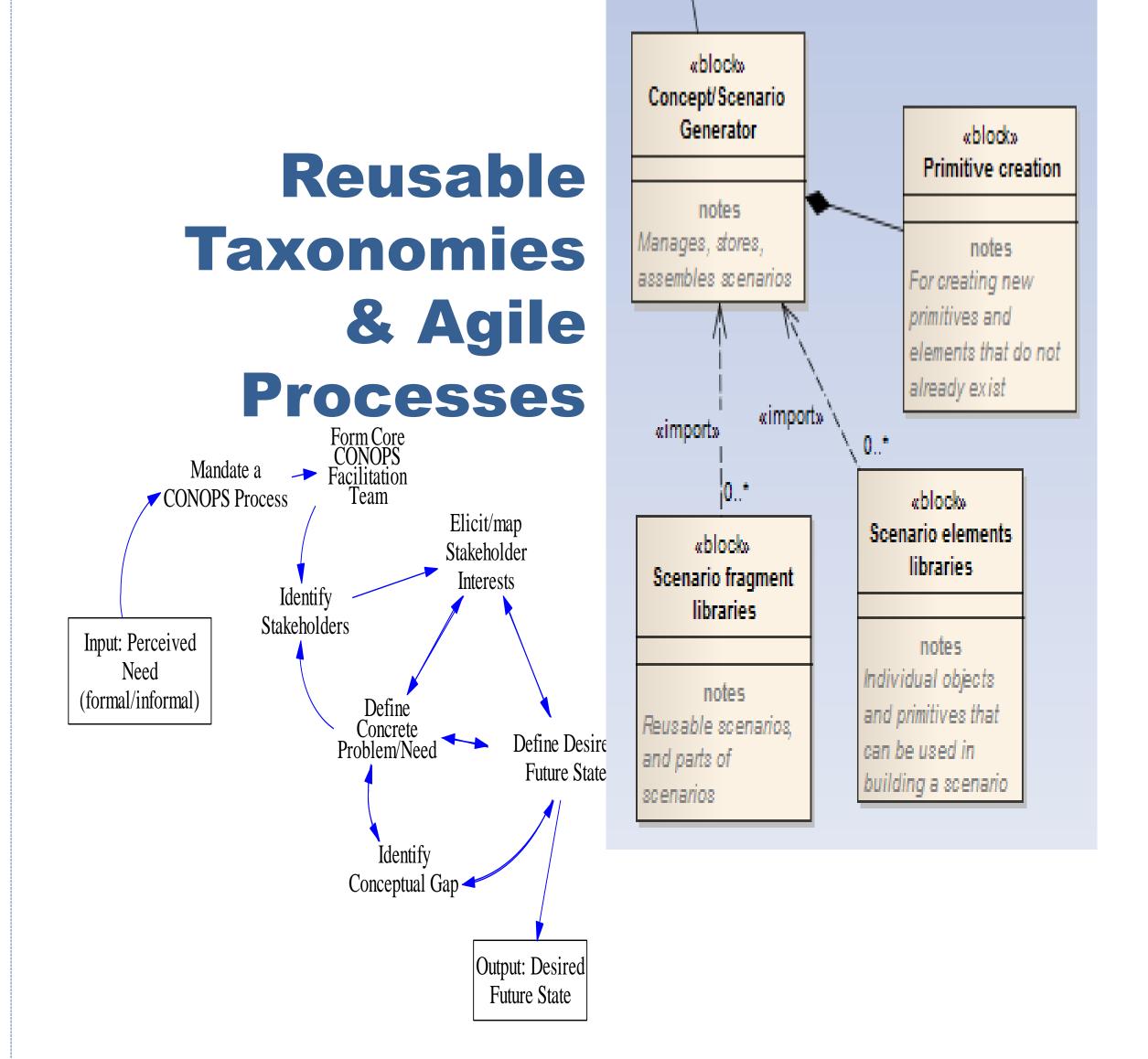
Human-Centered
Design
Approach







Rapid
Virtual
Environment
Generation





Immersive
Virtual
Environment
S

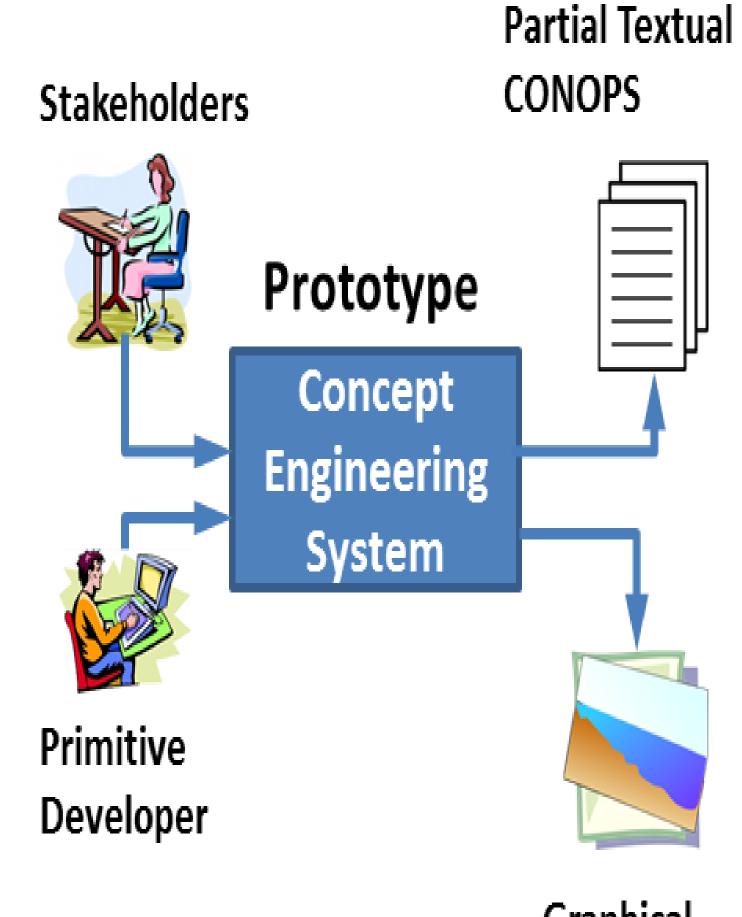
A significant amount of research has been accomplished, and technology exists – but it needs to be reconstituted to enable Concept Engineering

What is Needed

Proof of concept prototype to demonstrate the integration of research and technology to graphically create a CONOPS which is both graphical and textual

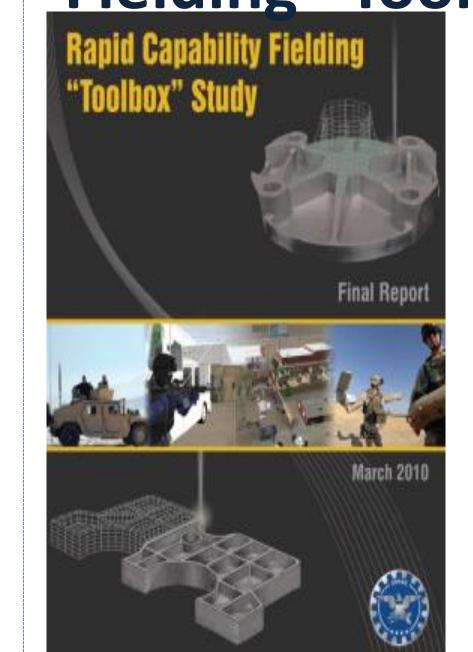
Some Top Level Requirements

- Graphical storytelling to build scenarios
- Execution engine
- Reusable objects and actions in pre-programmed libraries
- Real-time, viewable, graphical and textual results, to include multiple dimensions of info transmission, such as voice, video, dynamics, etc.
- Rapidly iterative environment enabling tradeoff analysis
- Report generator



Graphical Scenarios

This work is consistent with findings in the Rapid Capability Fielding "Toolbox" Study



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