How do you develop a system if you do not know what it is supposed to do?

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

Leveraging 3D Gaming Technologies To Help Visualize Operational Concepts of New Products
A Concept Engineering Framework for the Future

Improving the Fidelity of Graphical CONOPS

Use the SERC Graphical CONOPS as a Front End for the STK

SysML Model V(s)

Draft CONOPS

Iterate

SysML Model V(x+1)

Iterate

Requirement Engineer

Reasoning Tools

Decision Makers

Executed CONOPS

Development Process and Tools

- Adopting a modified Scrum process
  - 30 Day Sprints
  - Weekly telecons with all parties invited

- Using an Internet tool – Trello to track Day-to-day work assignments

- Use Unity Asset Server to manage/share codebase

- Releases will be first Monday of each Month.

SERC/Govt Funding?

Open Source? Spin-off?

Corp Partner?

What is our way forward?

From Agile Development Approaches to Integration with COTS Tools