Alpha Presentation
O-Show for Simulation Software

The Capstone Experience

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Project Overview

• Read-in Problem Set
  ▪ Multiple Starting Points (1-10)
  ▪ Multiple Evaluators (1 – 100)
  ▪ Multiple Destination Arenas (1-100)

• Optimize
  ▪ Number of Evaluators Commissioned

• Show
  ▪ Evaluator Routes
System Architecture
O-Show Launcher

![O-Show Launcher Interface]

- **Input Arena File:** arena_list.txt
- **Evaluators:** 100
- **Time Limit:** 24 (Hours)
- **Distance / Evaluator:** 1000 (Miles)
- **Evaluator Speed:** 700 (MPH)

**Buttons:**
- **Start Simulation**
- **Quit**
OpenSceneGraph Visualization
What’s left to do?

• Parse Input
  ▪ Error Check
  ▪ Formulate Formal LP
• Format lp_solve Solution for OSG
• Refine Visualization Interface
  ▪ View Visualization from Individual Evaluators
  ▪ Manipulate Time
  ▪ Refine Models