

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

O-Show for Simulation Software

The Capstone Experience

Team Boeing

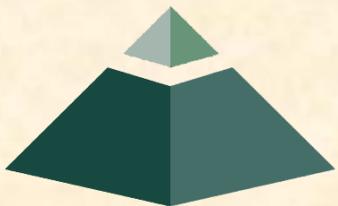
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*From Students...
...to Professionals*

Project Overview

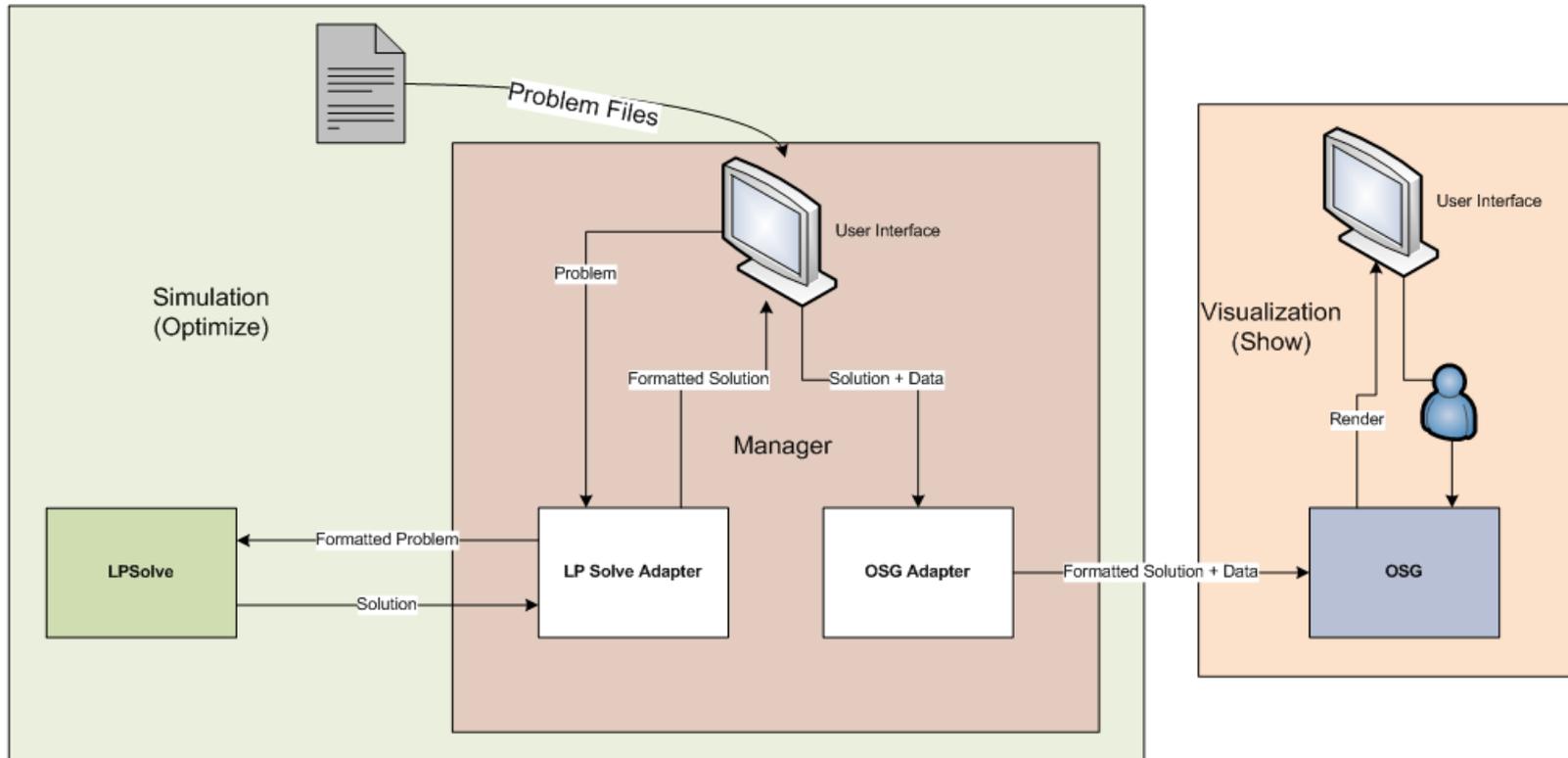
- Read-in Problem Set
 - Multiple Starting Points (1-10)
 - Multiple Evaluators (1 – 100)
 - Multiple Destination Arenas (1-100)
- Optimize
 - Number of Evaluators Commissioned
- Show
 - Evaluator Routes

System Architecture

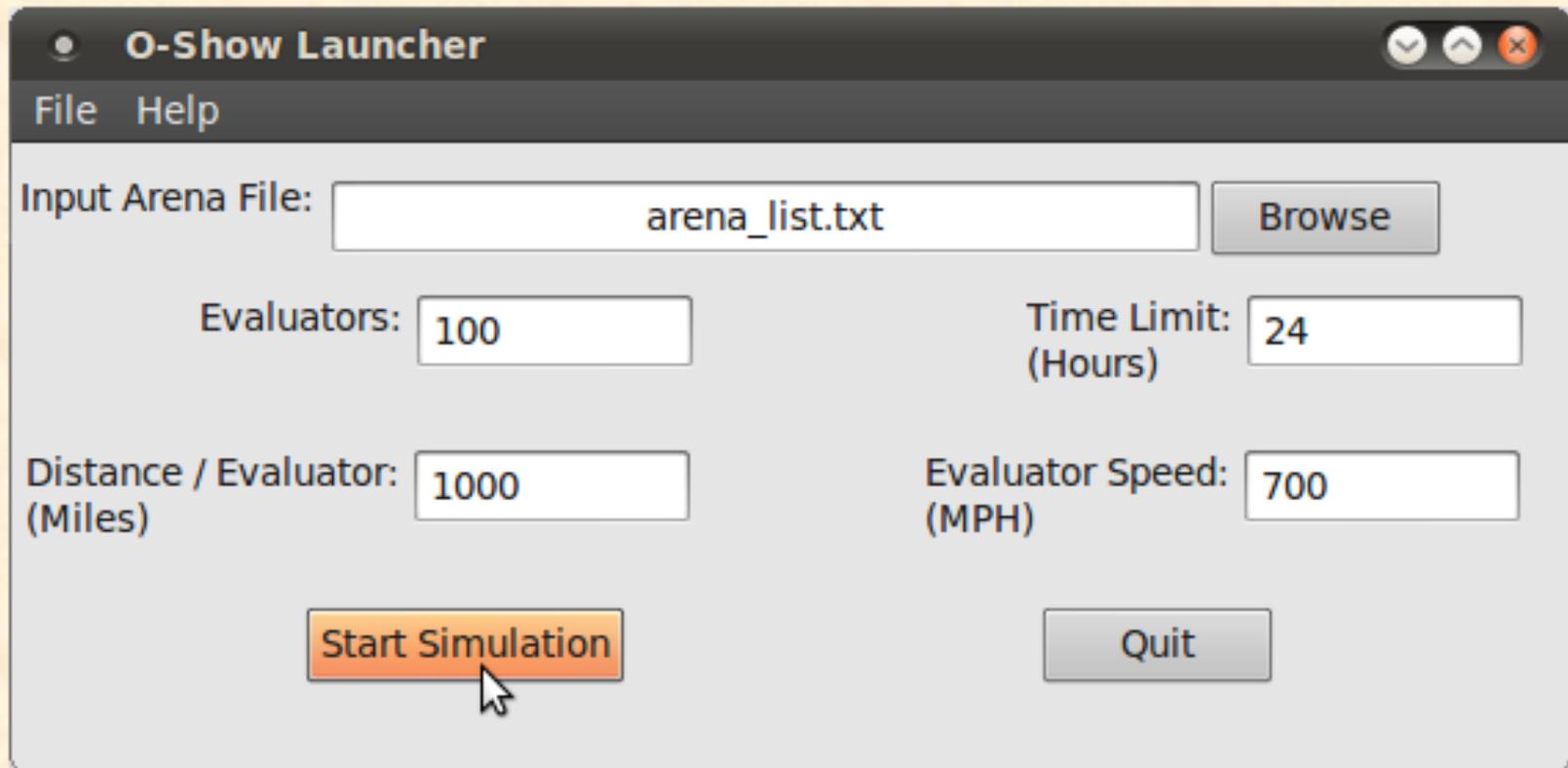


O-SHOW

OS-SA-V1.2



O-Show Launcher

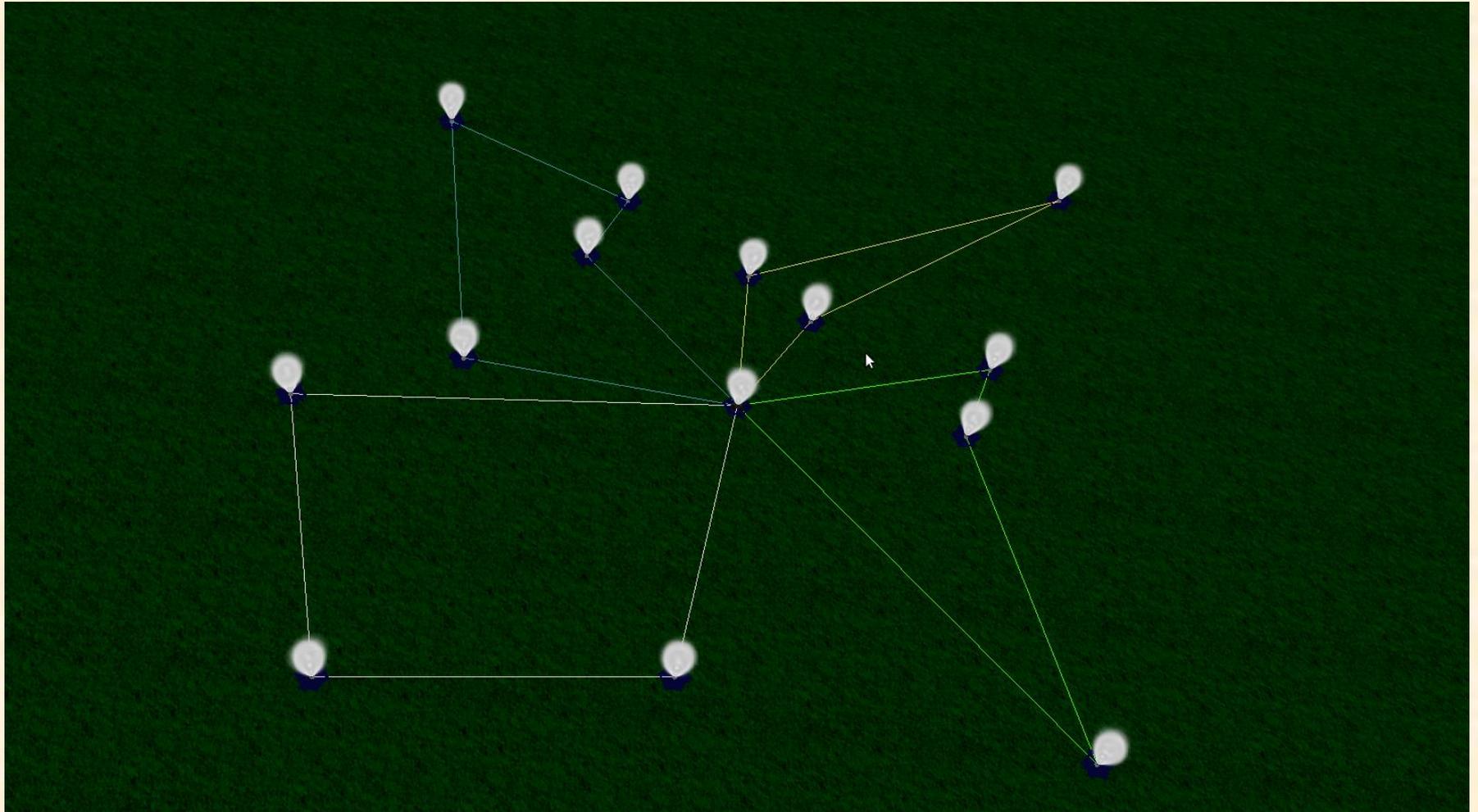


The screenshot shows a window titled "O-Show Launcher" with a menu bar containing "File" and "Help". The window contains several input fields and buttons:

- Input Arena File:** A text box containing "arena_list.txt" and a "Browse" button.
- Evaluators:** A text box containing "100".
- Time Limit (Hours):** A text box containing "24".
- Distance / Evaluator (Miles):** A text box containing "1000".
- Evaluator Speed (MPH):** A text box containing "700".
- Start Simulation:** An orange button with a mouse cursor pointing to it.
- Quit:** A grey button.



OpenSceneGraph Visualization



What's left to do?

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

