Alpha Demonstration
Irrigation Distribution Uniformity Analysis

Team 7. Toro
CSE 498, Collaborative Design

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Project Overview

- IDUA is a tool to assist engineers with finding the most efficient arrangement of sprinklers to ensure uniform irrigation.
- Retrieves data stored in a MS Access database and performs transformations and calculations.
- Represents findings in a visual graph known as densogram.
Project Overview, cont.

- Multiple modes: Automatic and manual
- Automatic mode allows for a single sprinkler type to be placed in preset arrangements
- Manual allows for multiple sprinklers to be placed as desired
Architecture Illustrated
Architecture Illustrated, cont.
Screen Shot
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Screen Shot
Screen Shot
Screen Shot
What’s left to do?

- Dynamic densogram
- Allow placement of multiple types of sprinklers
- Zoom
- Export
- Toggle modes
- Coefficient of scheduling calculation