Alpha Presentation
Fleet Auction Distribution and Sale Optimizer
The Capstone Experience

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Project Overview

• Chrysler sells fleets of vehicles that get returned to auction sites
• Dealers come to bid on cars at auction sites across the country (15 or so nation wide)
• Our task is to optimize where vehicles are sent
• Factors include climate, market saturation, transportation logistics, etc...
System Architecture

- Local DB2 Database
  - Current Distribution Statistics Cache
  - Baseline Vehicle Estimates Cache
  - Vehicle/Auction Site Information
  - Application/Depreciation Adjustment Settings

- External Chrysler Data Systems
  - Post Sales Data
  - Transportation Bundle Size Data
  - Transportation Relational Costs

- Application Framework
  - Rails Framework
  - Active Record ORM Mappings
  - JRuby Runtime
  - Java Virtual Machine

- Google APIs
  - Charts API
  - Maps API

- WebSphere Application Server

- Client Browser
Distribution Statistics
Adjustments
Adjustments
Suggested Changes
What’s left to do?

• Finish hooking up fake data to database values
• Finish UI for settings page
• Finalize UI for auctions and suggested changes pages
• Test functionality against real Chrysler data
• Create printable styles for exporting reports