

ValSim

AGIFORS

Airline Operations

Value Simulator Research Update

May 2005

Kaaren Cramer

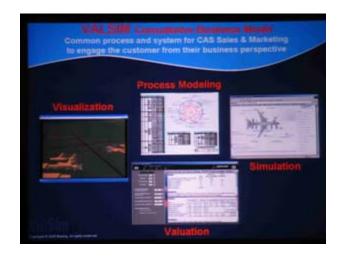
Michael Irrgang



System Overview

- Visualization
- Simulation
- Quantification
 - What-If Solution Set









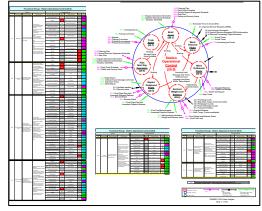
ValSim Working Together

Value Simulator



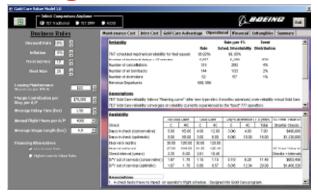




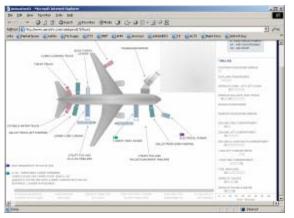




Integrated Valuation



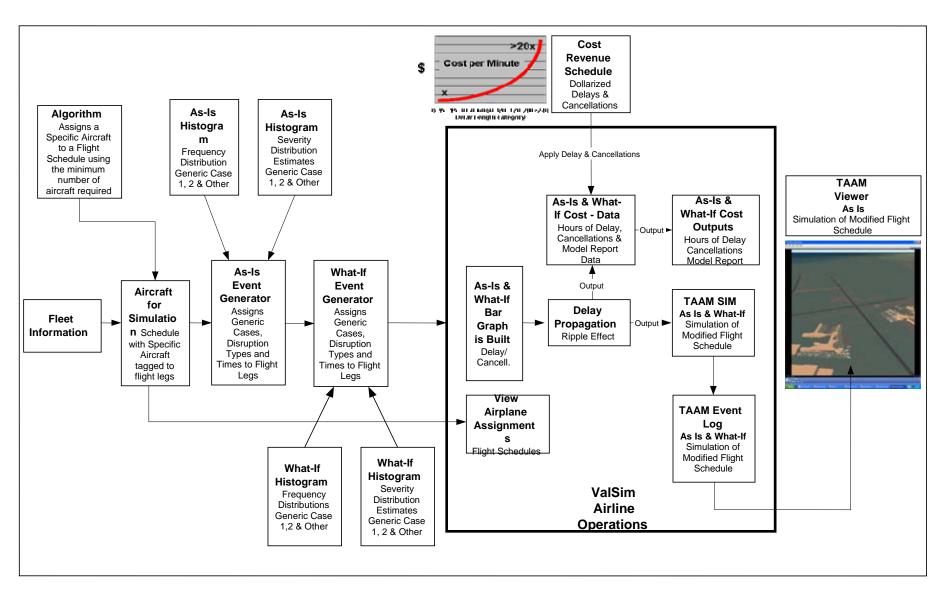








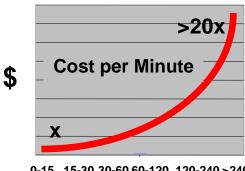
Air Carrier Operations – Overview



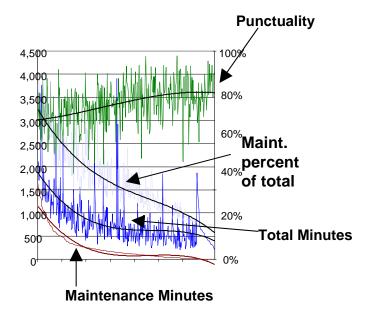


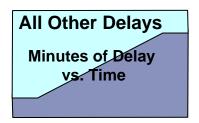
Research Findings Maintenance Delays Increase Other Delays

- Most non-Maintenance delays are less than an hour
 - Average 20-30 minutes in all our test cases
- Most Maintenance delays are greater than an hour
 - Mean in short-haul carriers is 45-70 min., long-haul 75-120
- As Maintenance Delays Increase, <u>All</u> Delays Increase



0-15 15-30 30-60 60-120 120-240 >240 Delay Length Category





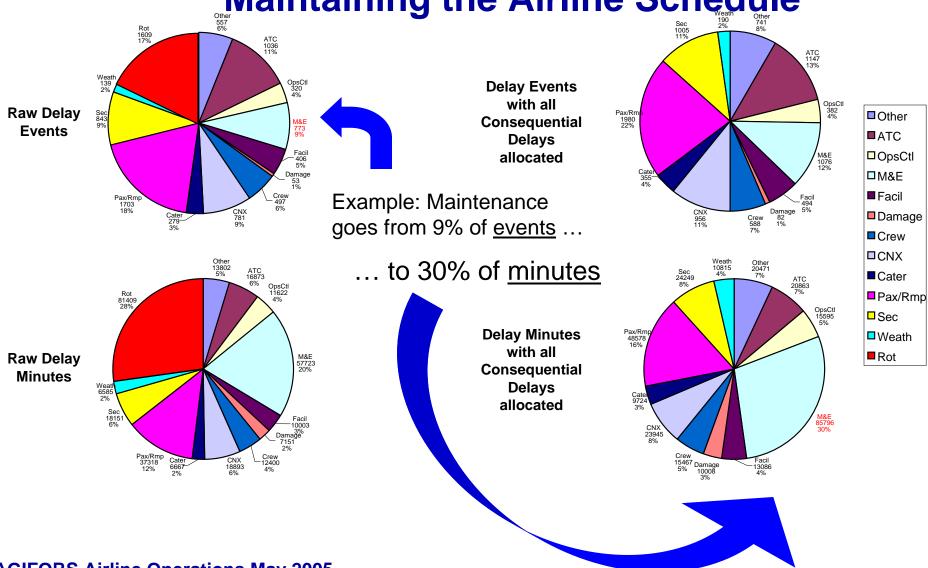
All Maintenance Delays



Research Findings

How Should We Look at Airline Delays?

Maintaining the Airline Schedule







AGIFORS Airline Operations May 2005