



# *Building Custom Jasper Domains & Dashboards for KPI*

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## Business Intelligence

- A set of theories, methodologies, processes, architectures, and technologies that transform raw data into meaningful and useful information.

*Sign #6 you need better BI: in your boardroom they just replaced the whiteboard with a dartboard*



# Introduction To JasperReports Server

- Report Generating Server
- Static and Interactive Reporting
- Data Analysis
- Stand-Alone or Integrated
- Common Metadata
- Shared Services
  - Security
  - Repository
  - Scheduling

## Welcome to Jaspersoft



# PROPworks® Business Intelligence

PROPworks® Business Intelligence (powered by Jaspersoft), provides AirIT customers a foundation which can be used to build reports designed to meet specific customer needs without the need to develop static custom reports.

PROPworks	
Ad Hoc Component	
<b>Ad Hoc Reports</b>	<b>Agrmt - Agreement List [order by Company/Agrmt]</b>
Domains	<b>Agrmt - Allowed Products List [order by Company/Agrmt]</b>
Agreements	<b>Agrmt - Bill Rule Summary List [order by Company/Agrmt]</b>
Billing and Invoice	<b>Agrmt - Leasehold List [order by Company/Agrmt] (all UOMs)</b>
Company/Contract	<b>Agrmt - Leasehold List by UOM [order by Company/Agrmt]</b>
Events	<b>Agrmt - Maintenance Responsibility List [order by Company/Agrmt]</b>
Insurance & Su	<b>Agrmt - Provision Summary List [order by Company/Agrmt]</b>
	<b>Agrmt - Utility Responsibility List [order by Company/Agrmt]</b>

# Key Performance Indicators

- Performance Measurement
- Evaluate Success
  - Progress Toward Strategic Goals
  - Repeated, Periodic Achievement
- What is important to the organization?

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"And this is the only performance indicator that's moving up. Unfortunately, it's my blood pressure."

## What are the questions?

- What is our...
  - ...Aeronautical Revenue per Passenger?
  - ...Operating Cost per Movement?
  - ...Utilities/Energy Usage per Square Meter of Terminal?
  - ...Customer Satisfaction?
  - ...Lost Work Time from Employee Accidents and Injuries?
  - ...Total number of Aircraft Movements?

## Industry KPI's

### *ACI's Guide to Airport Performance Measures*

- 42 performance indicators across 6 categories
- Factors that drive results
- Strengths and weaknesses of each measure



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Source: February 2012. Oliver Wyman, Inc. *Airports Council International Guide to Airport Performance Measures*.

# ACI's Key Performance Areas



Core



Safety and Security



Service Quality



Productivity/Cost Effectiveness



Financial/Commercial



Environmental

Source: February 2012. Oliver Wyman, Inc. *Airports Council International Guide to Airport Performance Measures.*



## ACI's Airport Performance Indicators

- Passengers
- Origin and Destination Passengers
- Aircraft Movements
- Freight or Mail Loaded/Unloaded
- Destinations—Nonstop

Core



- Runway Accidents
- Runway Incursions
- Bird Strikes
- Public Injuries
- Occupational Injuries
- Lost Work Time from Employee Accidents and Injuries

Safety and Security



Source: February 2012. Oliver Wyman, Inc. *Airports Council International Guide to Airport Performance Measures*.

# ACI's Airport Performance Indicators

- Practical Hourly Capacity
- Gate Departure Delay
- Taxi Departure Delay
- Customer Satisfaction
- Baggage Delivery Time
- Security Clearing Time
- Border Control Clearing Time
- Check-in to Gate Time

## Service Quality



- Passengers per Employee
- Aircraft Movements per Employee
- Aircraft Movements per Gate
- Total Cost per Passenger
- Total Cost per Movement
- Total Cost per WLU
- Operating Cost per Passenger
- Operating Cost per Movement
- Operating Cost per WLU

## Productivity/Cost Effectiveness



Source: February 2012. Oliver Wyman, Inc. *Airports Council International Guide to Airport Performance Measures*.

# ACI's Airport Performance Indicators

- Aeronautical Revenue per Passenger
- Aeronautical Revenue per Movement
- Non-Aeronautical Operating Revenue as Percent of Total Operating Revenue
- Non-Aeronautical Operating Revenue per Passenger
- Debt Service as Percentage of Operating Revenue
- Long-Term Debt per Passenger
- Debt to EBITDA Ratio
- EBITDA per Passenger

Financial/Commercial



- Carbon Footprint
- Waste Recycling
- Waste Reduction Percentage
- Renewable Energy Purchased by the Airport (Percent)
- Utilities/Energy Usage per Square Meter of Terminal
- Water Consumption per Passenger

Environmental



Source: February 2012. Oliver Wyman, Inc. *Airports Council International Guide to Airport Performance Measures.*

# Core KPI's - First Steps

## Statistics Dashboard

### Landings



### Landed Weight (per 1000 lbs)



### Passengers



### Cargo



# Financial/Commercial KPI's - First Steps

Revenue per Square Foot



Revenue per Passenger



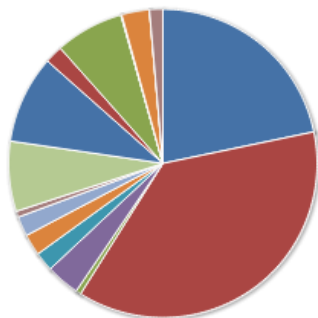
Evaluation of revenue per square foot and passenger.

# PROPworks KPI's – First Steps



Balance Due

Outstanding Invoices by Type



Fiscal Year is between

Fiscal Period is between

Submit

Reset

- 1-RENTMINS
- 18-AIRDEF
- 1C-AIRNDEF
- 2-GENVAR
- 2B-SECURTY
- 3-AVNVAR
- 3-FACILFEE
- 3-FCL
- 3-LNDGFEE
- 3ACOMMUSE
- 3BJOINTUSE
- 4-AVIMNTLY
- 4-AVIQTRLY
- 4-TOUROP
- 5-CONCESS
- 7-CLEARING
- 7-SPECIAL

Company Name	Agreement #	Invoice Date	Invoice #	Line #	Line Amount	Payment Amount	Balance Due
<b>1-RENTMINS</b>							
421, LLC	001573	2/1/11	2011-08-93956	1	\$187.50	\$0.00	\$187.50
Aviation Partners, LLC	001148	2/1/11	2011-08-94300	1	\$119.85	\$0.00	\$119.85
Aviators, LLC	002346	2/1/11	2011-08-94245	1	\$50.00	\$0.00	\$50.00
Composite Squadron, CAP	001754	2/1/11	2011-08-94246	1	\$30.00	\$0.00	\$30.00
Extreme Skydiving, Inc.	003406	2/1/11	2011-08-94396	1	\$955.00	\$0.00	\$955.00
Extreme Skydiving, Inc.	003406	2/1/11	2011-08-94396	2	\$200.00	\$0.00	\$200.00
Extreme Skydiving, Inc.	003406	2/1/11	2011-08-94396	3	\$25.00	\$0.00	\$25.00
Extreme Skydiving, Inc.	003406	2/1/11	2011-08-94396	4	\$150.00	\$0.00	\$150.00

# Creating your Own KPI's and Dashboards

- Taking an Existing View and making it your own
- Creating your Report
- Assemble a Dashboard



# Questions

