

# Providence Health & Services



## ProvConnect Business Intelligence

## PBI Project Goals

- ▶ Simple, easy access to information
- ▶ Push information to decision makers when action is needed
- ▶ Develop on our core back office technology (Lawson- aka “ProvConnect”)
- ▶ Collaborate with other BI projects to ensure organizational data integrity

## Providence Portland Medical Center Project

- ▶ Started March, 2007
- ▶ Dashboard for department managers
- ▶ Content determined by pilot group of 8-10 managers

## Guiding Principles

- ▶ Pilot **department manager** group to guide and direct content
  - Providence Portland Medical Center/Oregon Region executive teams to validate manager accountabilities and processes
- ▶ Focus on information that is currently available in ProvConnect (Finance, HR/Payroll, Supply Chain)
- ▶ Use technical solutions that are available today

## PPMC - Measures of Success

- ✓ The dashboard is a tool that managers use regularly and depend on for their back office information
- ✓ Managers report time savings because they spend less time looking for information and more time acting on it
- ✓ Managers report that they have valuable information they did not have before
- ✓ Managers recommend use of the dashboard to their peers

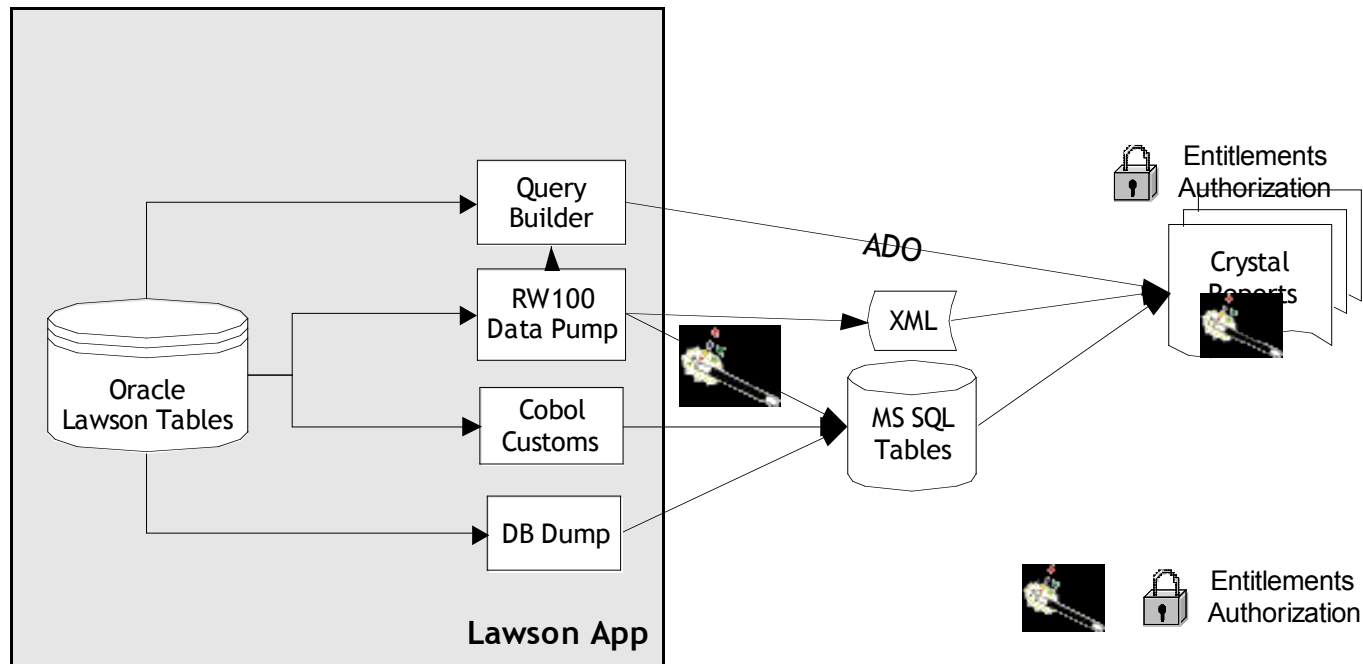
## PBI Tools Summary

- ▶ Dashboards – Lawson Framework Services
  - Delivered in the Lawson Portal
- ▶ Lawson Smart Notification
  - Alerts to user triggered by events
- ▶ Analytics – Executive Viewer to Essbase, MSAS/SSAS
  - Table or chart presentations of summarized data
  - Interactive, business-focused analysis for power users
- ▶ Reports – “Prov Reports” (BOE) and Lawson Reporting Services
  - Formatted Crystal Reports

## PBI Supporting Data

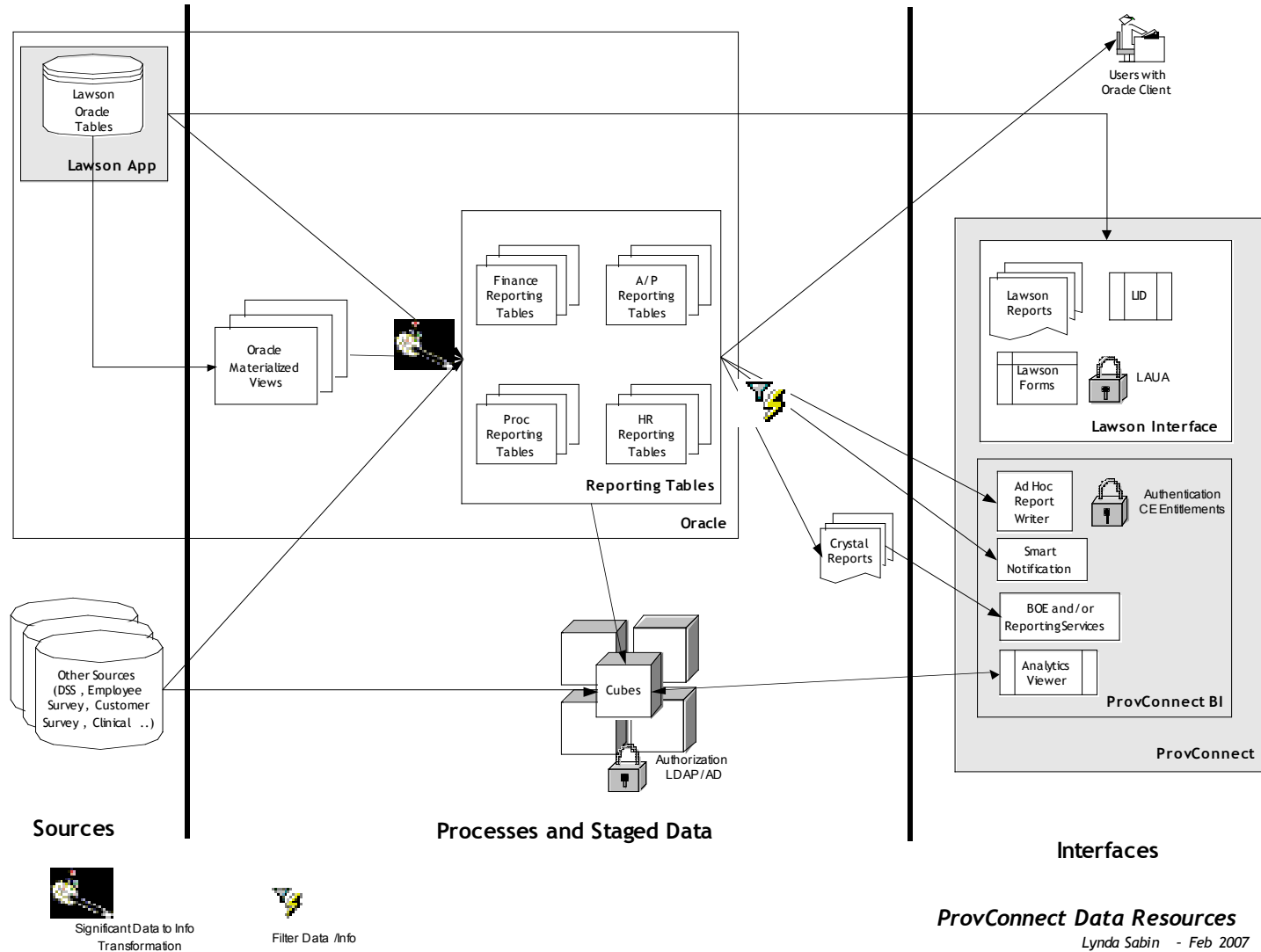
- ▶ Reporting Tables from production data
  - Oracle
- ▶ Analytic cubes (built from Reporting Tables)
  - Hyperion Essbase
  - Microsoft/SQL Server Analysis Services
- ▶ Additional data marts
  - e.g., E WA/MT HR Data Mart from Meditech systems (SQL Server 2005)

## ProvConnect Data Sources





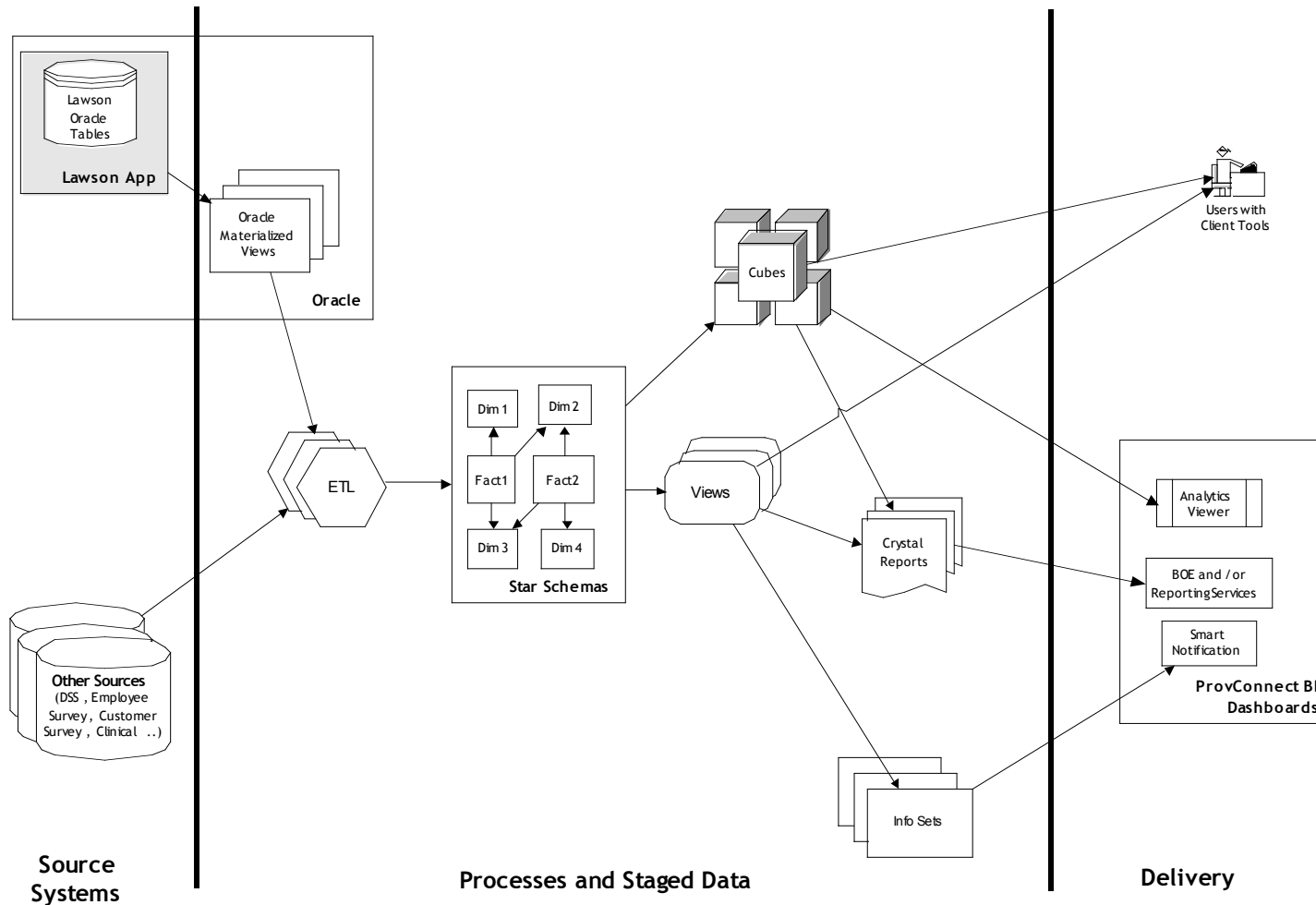
## ProvConnect Data Sources



**ProvConnect Data Resources**

Lynda Sablin - Feb 2007

## ProvConnect Data Sources



Vision

ProvConnect Data Resources

Lynda Sabin - Feb 2008

## Demonstration

- PPMC Dashboard

## Department Manager Dashboard - Next Steps

- ▶ Complete “foundation” for sustainable, scalable support
- ▶ Delivery system-wide in 2008 (February – July)
  - Complete Oregon
  - Add region-specific content for each region
    - ▶ California
    - ▶ Alaska
    - ▶ Western Washington

## **“Seize BI” Initiative**

“Seize the initiative to deliver enterprise business intelligence for Providence”

1. Drop (or freeze) non-ProvConnect Business Intelligence (PBI) projects
2. Partner with Application Directors
  - Collaborate with business on BI content and priorities
3. Sustainability/Scalability
  - Create production-ready BI platform for enterprise scope
4. Architecture and planning to improve foundation for rapid development
  - Security
  - Scalability
  - The right tools (e.g., leading edge, interoperable, rapid development)
5. Strategy for business buy-in, acceptance, participation in design and testing, training and support

## Lessons Learned - One

- ▶ Give 'em what they ask for and they'll be happy
  - Medical center department managers have their own view
- ▶ Up-front scope limitation critical to rein in requirements (done > perfect)
- ▶ Medical Center CFO/CEO as active sponsors
- ▶ Start with a small group – they become Super Users
- ▶ Dedicated IT development team =  
quick turnaround on deliverables = momentum & happy managers

## Lessons Learned - Two

- ▶ Two-stage testing (before delivery to users)
  - ProvConnect analysts (internal)
  - Regional business staff
- ▶ Analytics offers major “value-add”
  - Summary view built on transaction detail
- ▶ Smart Notification is the key to actionable info
- ▶ Smart Notification has significant limits
  - “Single-threaded” – other notes on same server held during refresh
- ▶ Security is still the primary challenge