



# Business Intelligence Solutions Maximizing Your Investment in Data

Seeing the big picture to solve the biggest problems in health care.

see more. [solve more.](#)

# Realizing Value

*“ Conventional data warehousing principles describe a process that begins with data and ends with delivery of information. ...*

*Turning data into information doesn't create value. It creates only cost. ...*

***When information leads to action and action leads to outcomes, then value is produced. ”***

*- David Wells, The Data Warehousing Institute*

# Ingenix Consulting Vision:

Deliver tailored BI solutions to improve Patient Care and reduce Costs :

- > For Clinics: Integrate Practice Management and Clinical information on a single platform with custom tools.
- > For Health Systems: Integrate Ambulatory, Inpatient, Financial, and Reference data to provide longitudinal episode-of-care reporting for improved patient outcomes
- > Leverage Ingenix data assets to provide points of reference for best practice

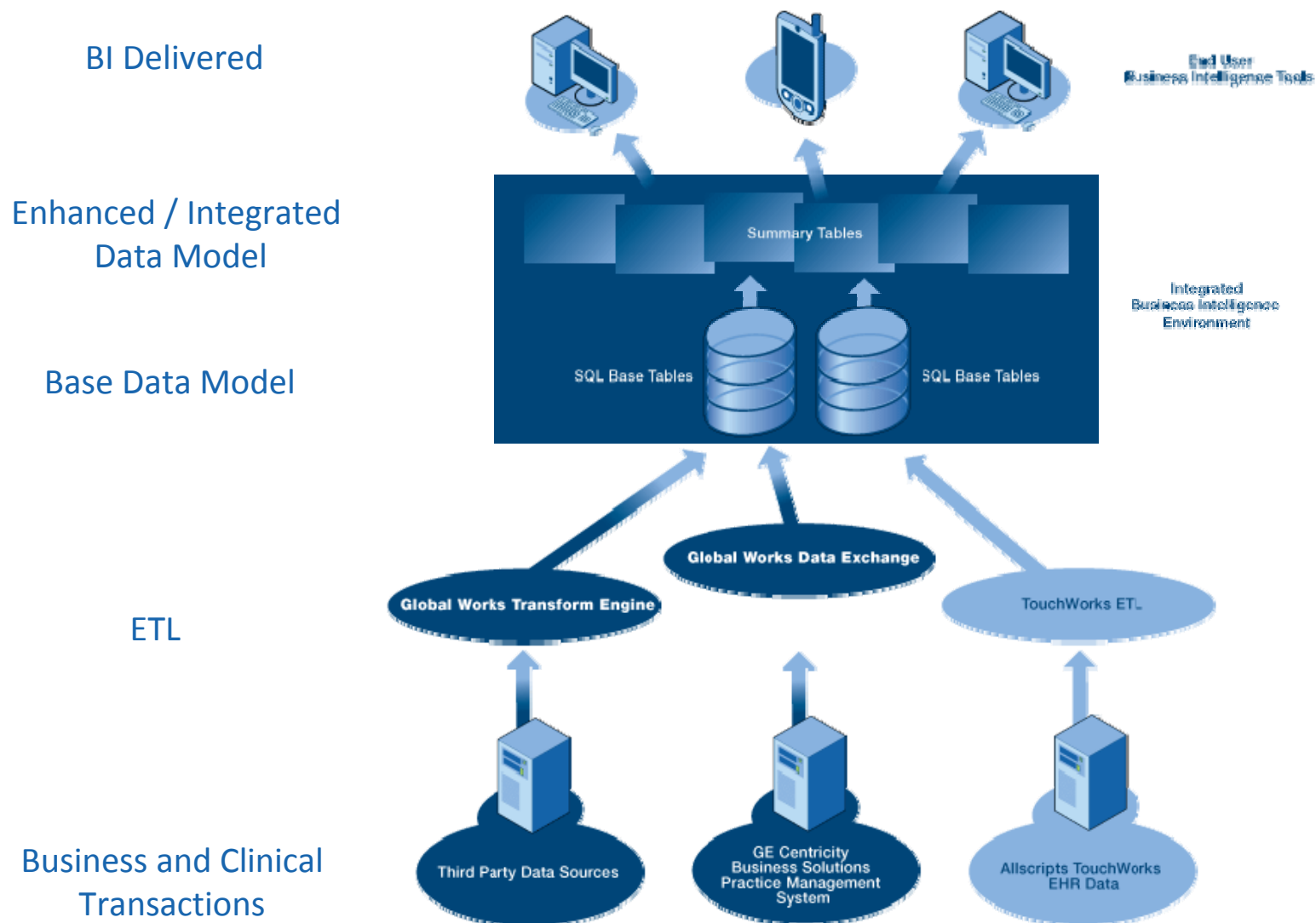
# General Characteristics of a BI System

- Offload reporting and analysis from core transaction systems
- Combine data from multiple systems into one reporting framework:
  - EMR + Financial System + HR/Payroll + Legacy Data
  - Combine data from Multiple EMRs (Amb + IP)
- Restructure data to optimize accuracy:
  - Clarified views and pre-calculated measures for end-users
  - One version of the truth for the enterprise.
- Direct access to data via on-demand or automated report delivery, ad-hoc query access, and dashboards

# What We Offer:

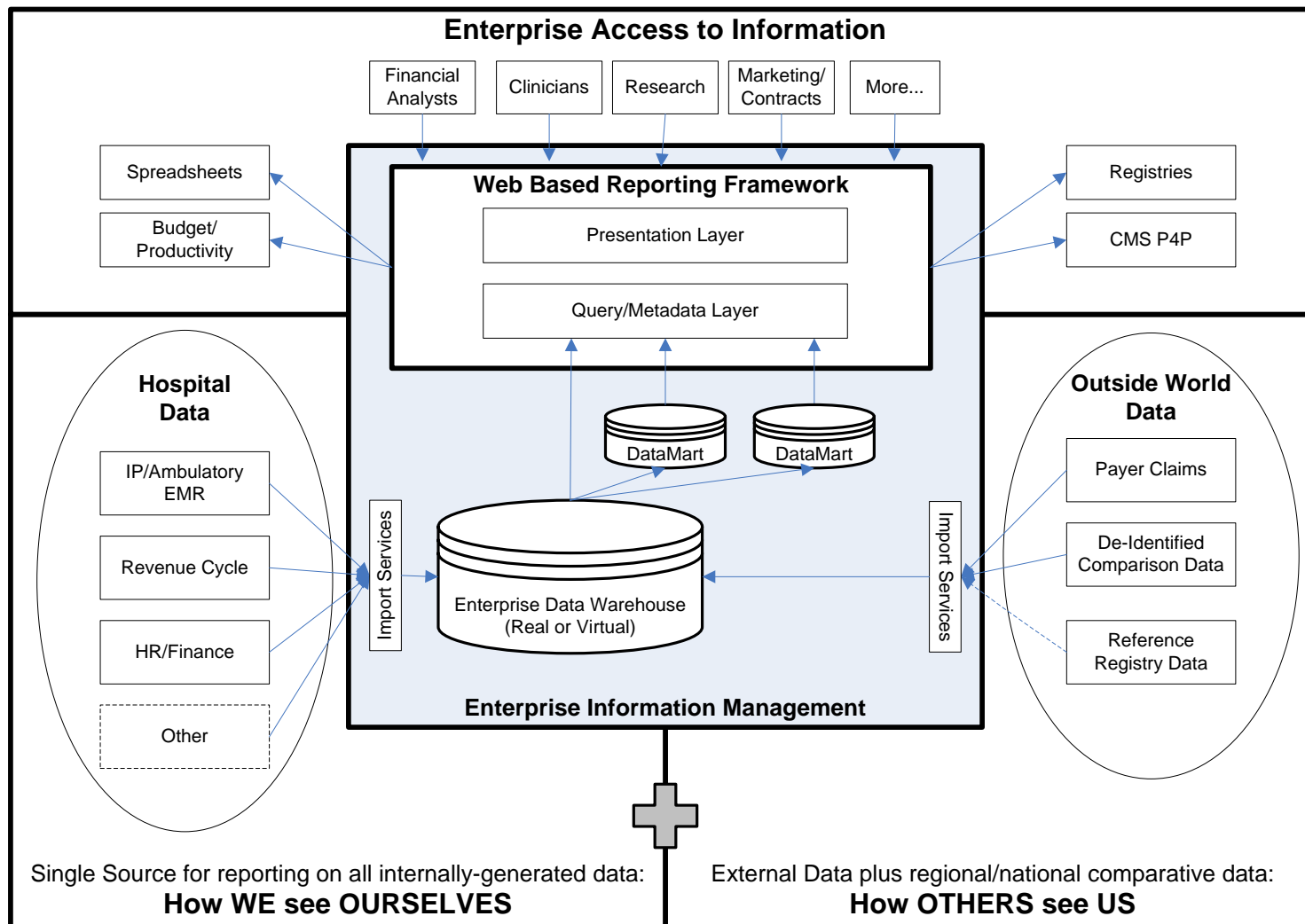
- End-to-End BI solutions for GE Centricity and Allscripts Touchworks
- Enterprise Information Management:
  - Program/Project Management and Governance
  - Data and System Architecture
  - Clinical and Financial Subject Matter Expertise
  - ETL, Query, and Dashboard Development
- Ingenix Data:
  - Episode Treatment Groupers for outcomes tracking
  - Comparative/Reference Data

# Ingenix Consulting BI Foundation



# Enterprise Information Management

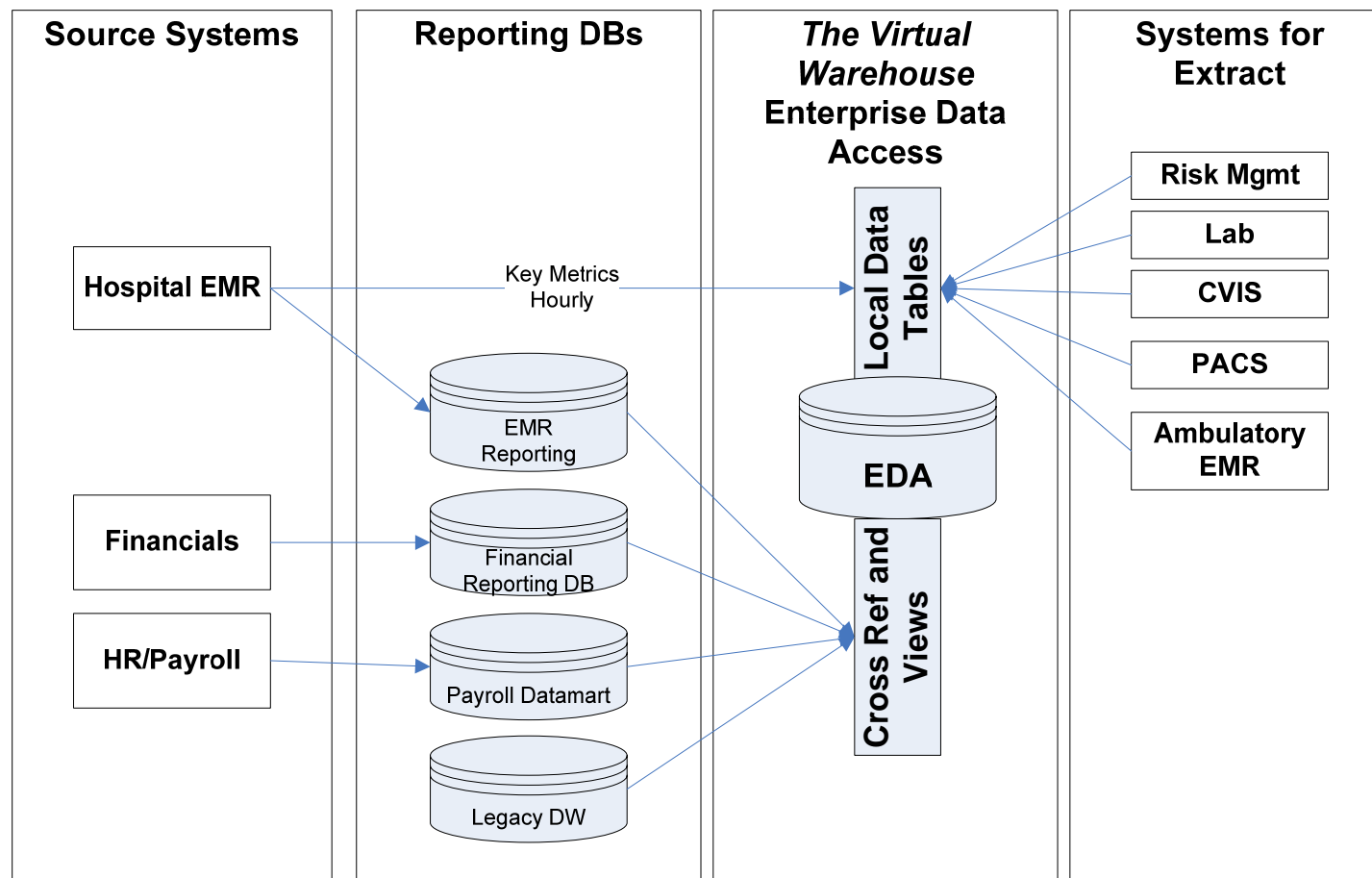
- Integrating Internal and External Data into a single framework for analysis and delivery to the enterprise



# Virtual Warehousing Methodology

Maximize Existing Datamarts – Reduce Data Replication

- EMR Reporting Tables, Legacy DW
- ETL to EDA as needed for summary



# BI Delivers KPIs – Internal and External

- Internal Measures:
  - Department Performance
  - Census/Utilization Trends
  - Profitability/Cost Modeling, Staffing Models.
- External Measures:
  - Registry Reporting
  - Joint Commission “Core Measures” (ORYX)
    - Facility-Oriented
    - SCIP (Surgical Care Improvement), Pneumonia, Heart Failure, Acute MI, Pregnancy, Children’s Asthma
  - CMS “PQRI” Reporting
    - Physician-oriented
- Stimulus Reporting:
  - EMR Adoption (CPOE Compliance)
  - E-Prescribing statistics

# Common Internal KPIs

Patient Clinic Visit Wait Time	Average Length of Stay (multiple depts)	Physician Load (Patients/Appts Per Phys)
Patient Wait Time	Average Daily Census	Survival Rate (1 year, 3 year)
OP Confirmed Cancel Rate	Bed Turnover Rate	Total Discharges
ED waiting time	Hospital Mortality Rate	Pathology Turnaround Time
Left without being Seen	Re-Admission to CCU	Blood Product Wastage Rate
Re-Visits to ER within 72 Hrs	Overtime Rate	Blood Product Transfusion Rate
ER Admissions	Staff Turnover Rate	Paid Leave to Regular Time
ER Discharges	Sick Time Rate	Days in Inventory
ER Mortality	Employee Cost	Out of Stock Rate
New Patient Appt Turnaround Time	Staff Stability Rate	Report turnaround time
Asset Turnover	Sick Leave Cost Rate	Nursing Turnover Distribution
AR Rate - Days	Total number of zero-stock days	Mortality rate
Staff turnover rate	Inventory Turnover Rate	What else...?

# How Can We Help?

- Strategic Leadership and Analysis
  - > No matter what stage you're at or what tools you're using, we can assess your needs and build a business case.
- Governance
  - > Presenting the Data is the first step: Engineering the organization to be “analytically aware” and responsive to data is an ongoing process and we can help.
- Development
  - > From Data Architecture, ETL, Report/Query Design, to User Portal implementation, we have the expertise to deliver success.
- Products
  - > End-to-End Ambulatory DataMart solutions, ETL tools, and Ingenix Data Assets