

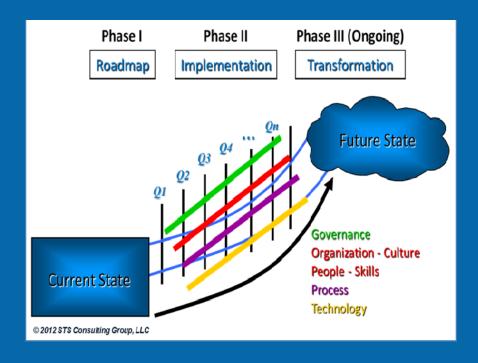
An Enterprise Business Intelligence Journey



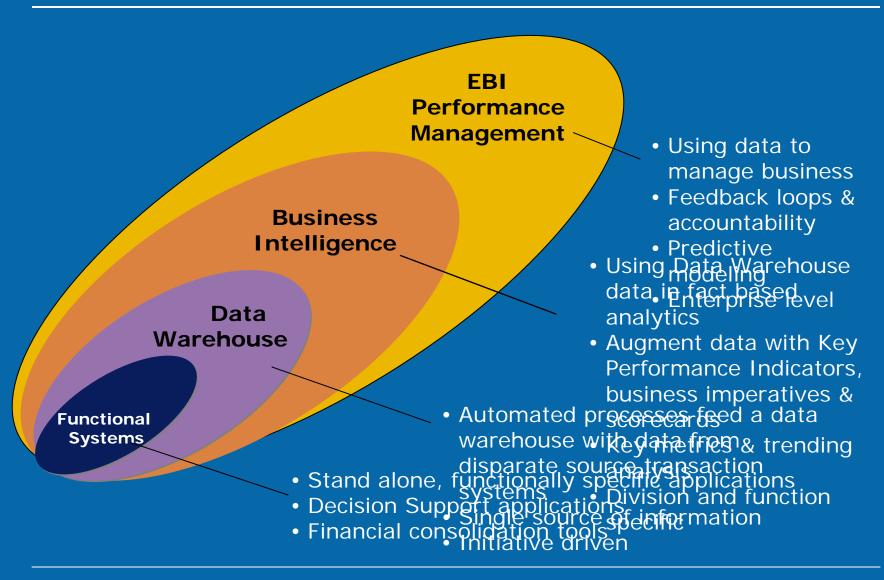
Agenda

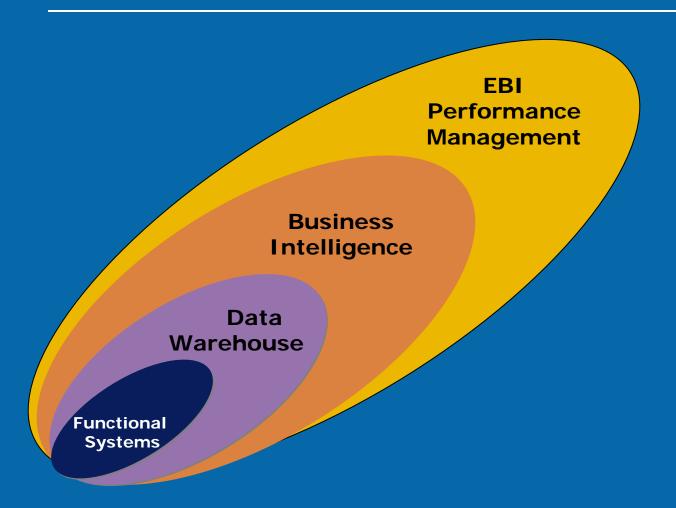
- Enterprise Business Intelligence (EBI) at Cleveland Clinic
- EBI Program Evolution
- EBI Program Results
- Questions and Answers

What is Enterprise Business Intelligence?

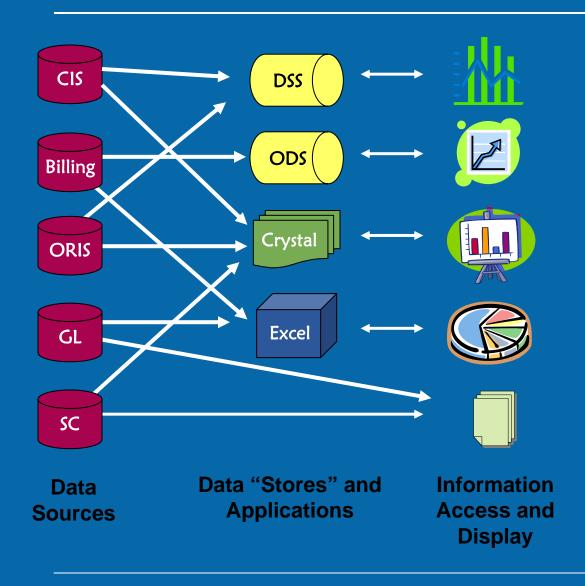


"EBI is an umbrella term describing the concepts and methods that improve business decision-making by using information in factbased analytics to drive quantifiable change and optimize operations"



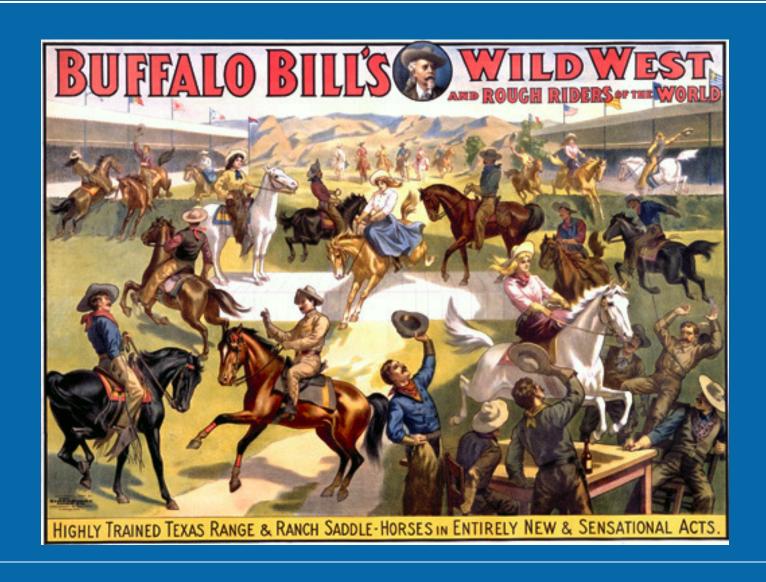


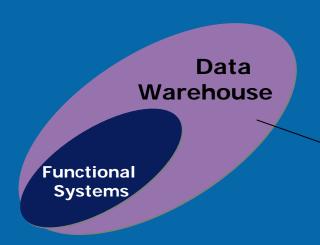
Why 'Enterprise' BI?



- Many 'silo' technology solutions with limited integration
- Data stores developed and independently owned – duplicative and expensive
- Inefficient and untimely delivery of information
- Disjointed approach to access and display
- Duplicate and inconsistent data and definitions – no 'single source of truth'

Why 'Enterprise' BI?

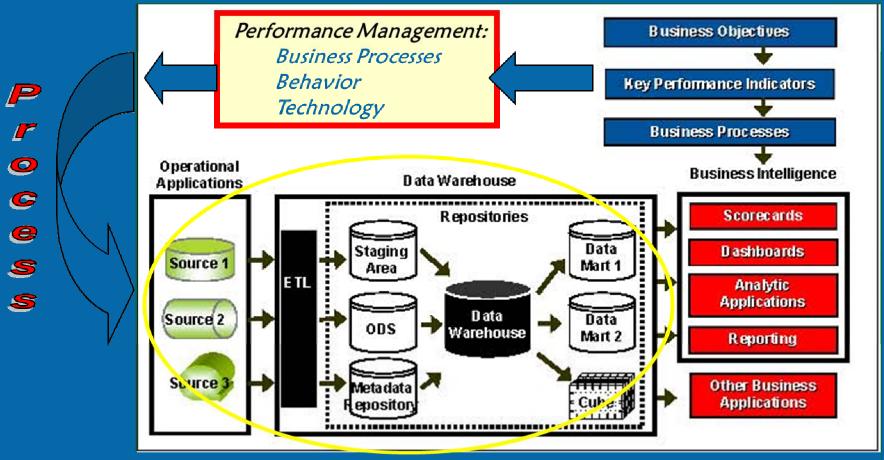




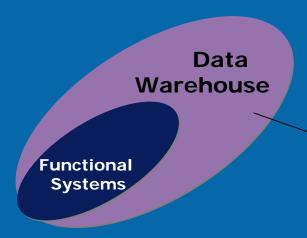
- Data Architecture
- Data Governance (Initial Concepts)

EBI Operating Model

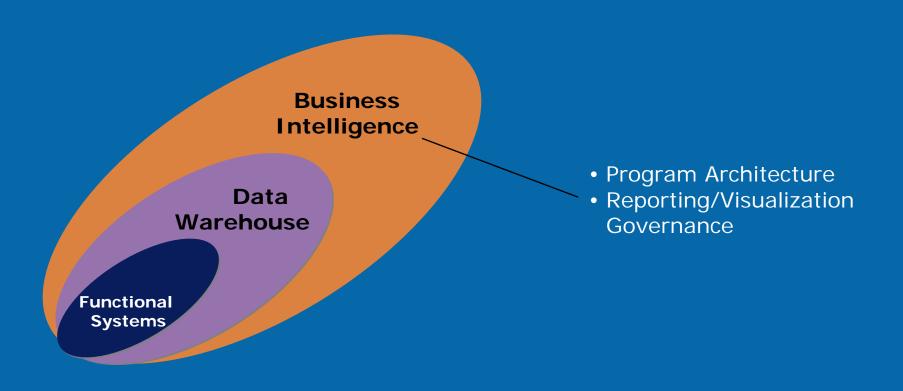
Enterprise Data Assets and Governance are a must!



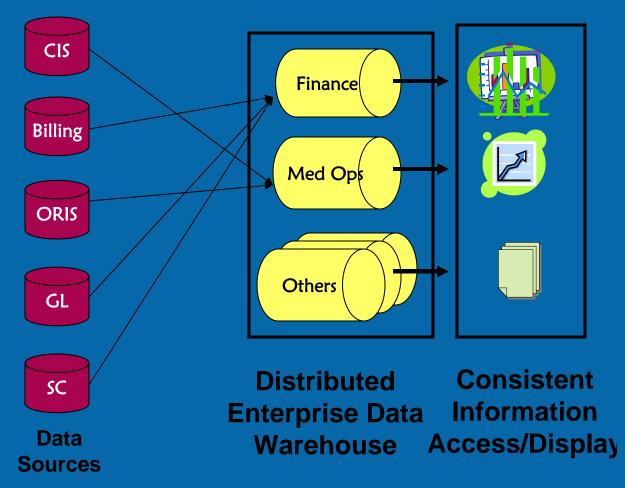
Source: STS Consulting Group, LLC modified Gartner BI Model



- Data Architecture
- Data Governance (Initial Concepts)
- ✓ Initiative-driven
- ✓ Introduce Standard Definitions



EBI Architectural Approach



Characterized by:

Coordinated approach regarding:

Data ETL and storage

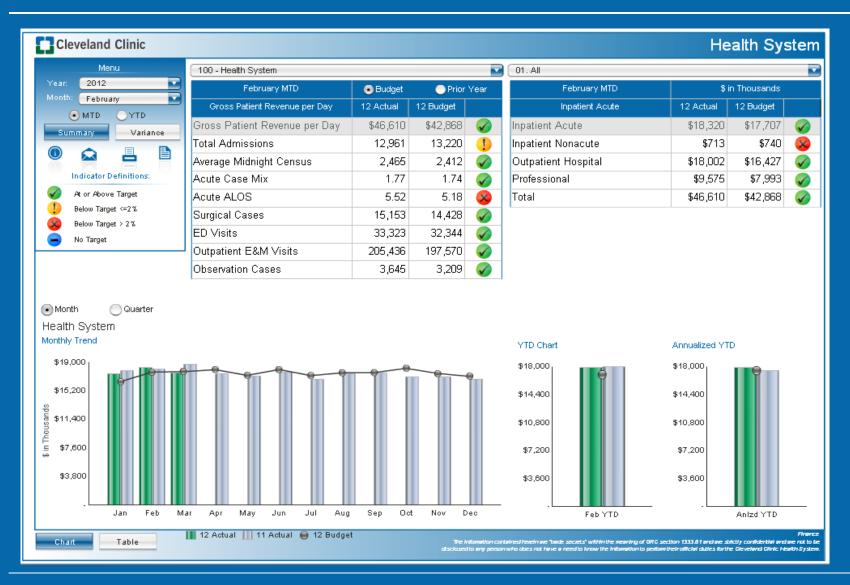
Data visualization and reporting

Data stores developed and owned by independent departments

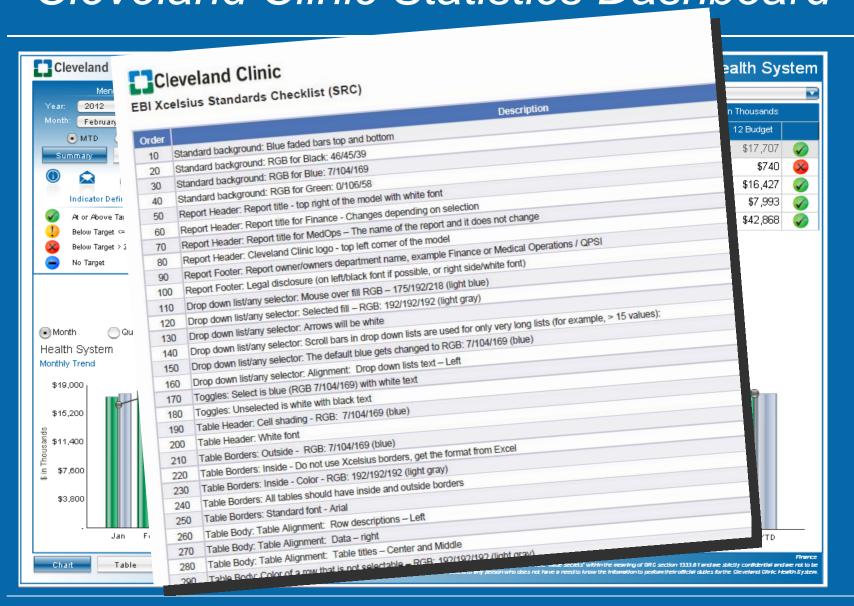
Efficient and timely delivery of information

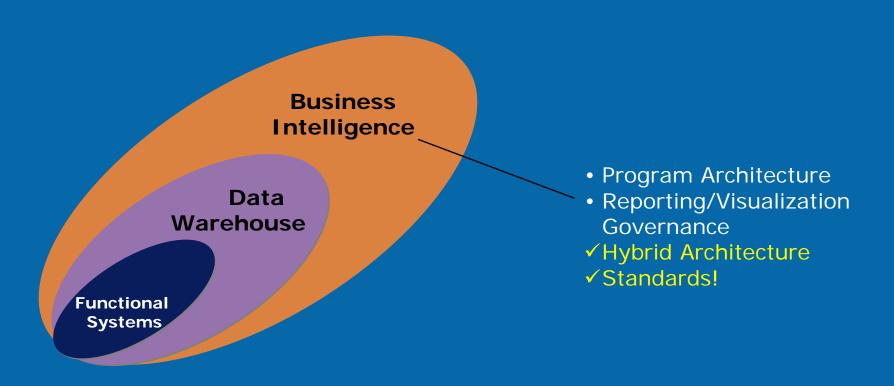
Coordinated
representations of data
with consistent
definitions – moving
towards a single source
of truth

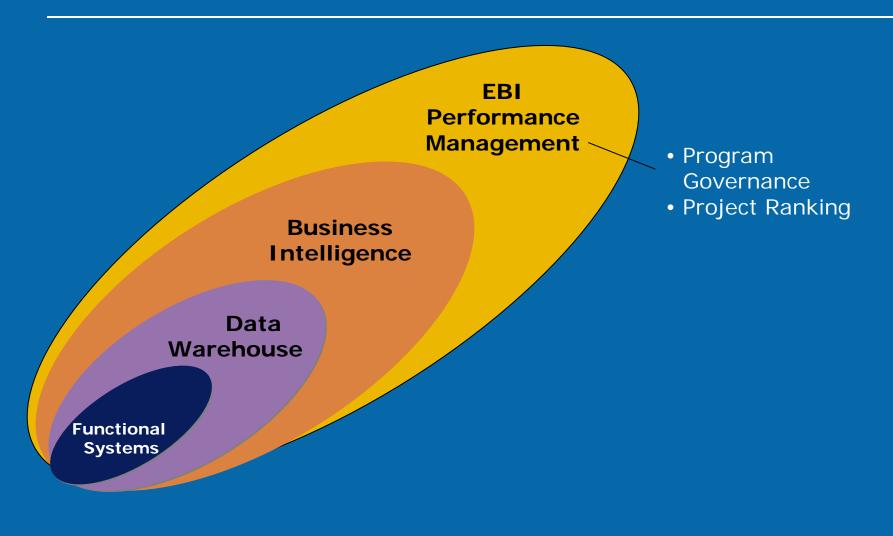
Cleveland Clinic Statistics Dashboard



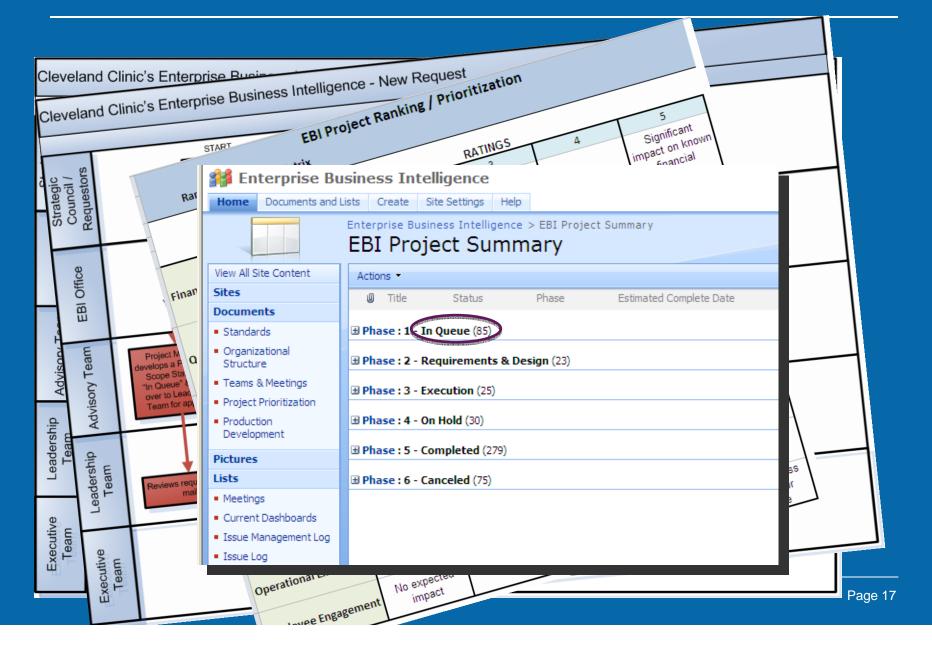
Cleveland Clinic Statistics Dashboard

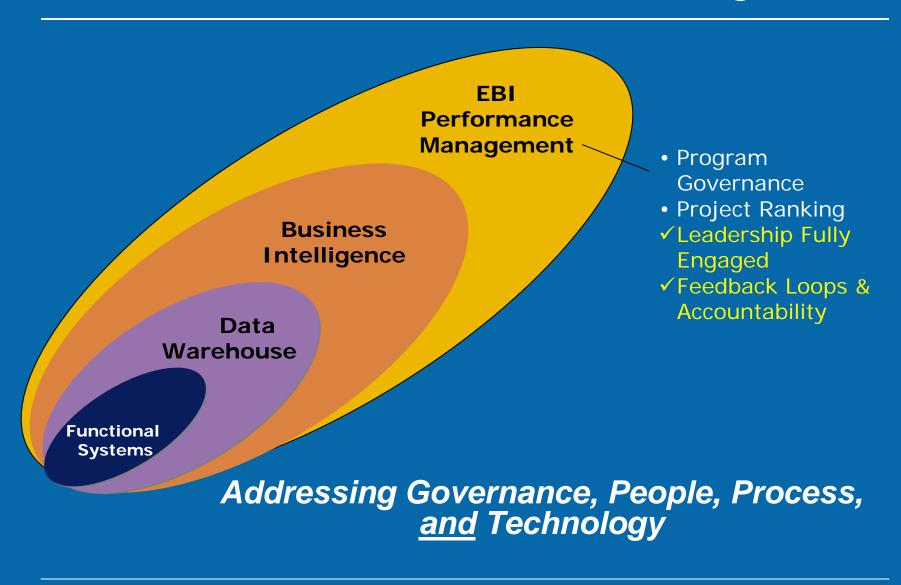






Our EBI Strategy



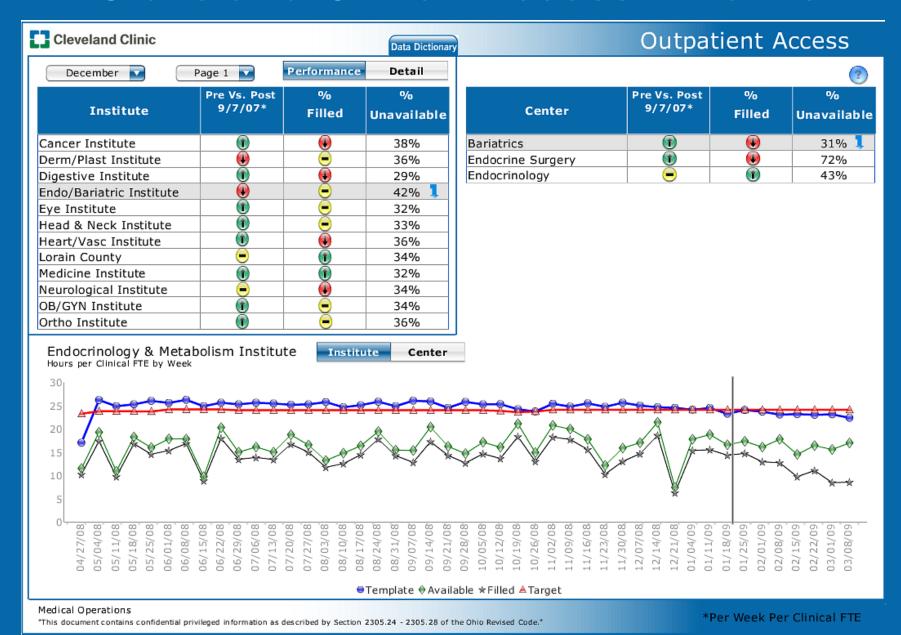


Cleveland Clinic - Access Initiative

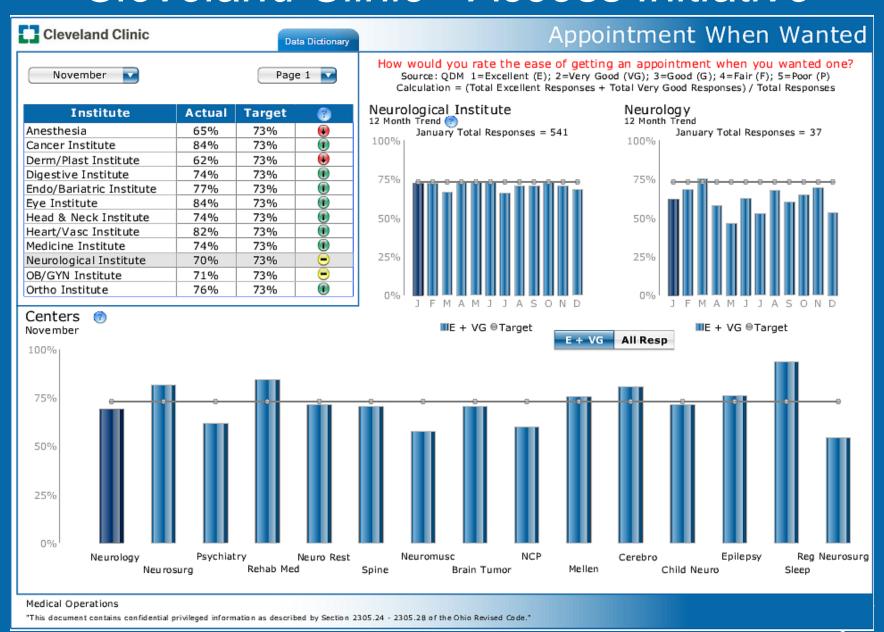
Challenge

- Improve patient access and wait times for appointments
- From CEO: "The Clinic is a great place to get care but you have to know somebody to get an appointment"
- Traditional measures of access ineffective

Cleveland Clinic - Access Initiative

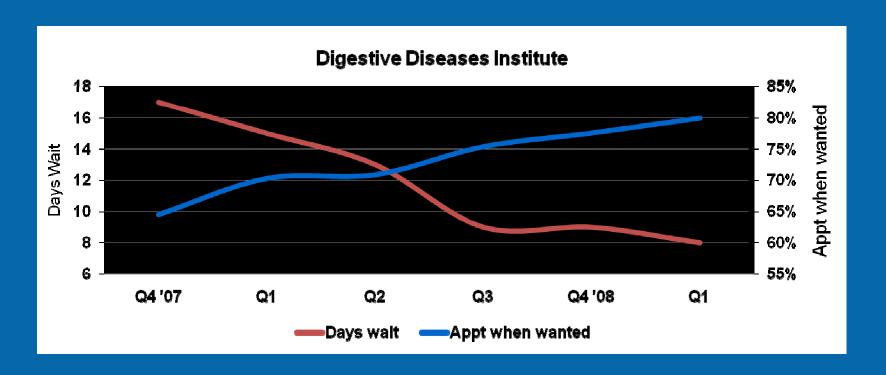


Cleveland Clinic - Access Initiative



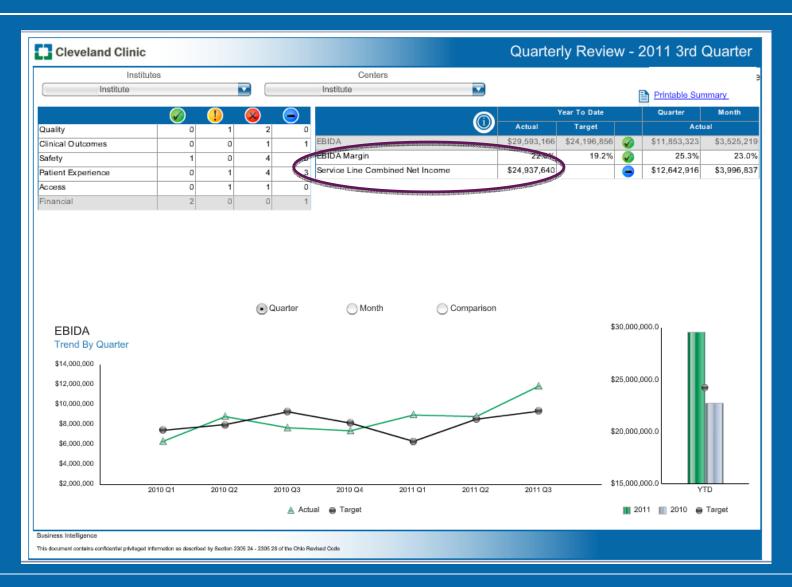
Cleveland Clinic Value Delivered!

- Outpatient Visits: 1,000 additional slots per week added
- Multi-million dollar impact
- Improved satisfaction with appointment wait times

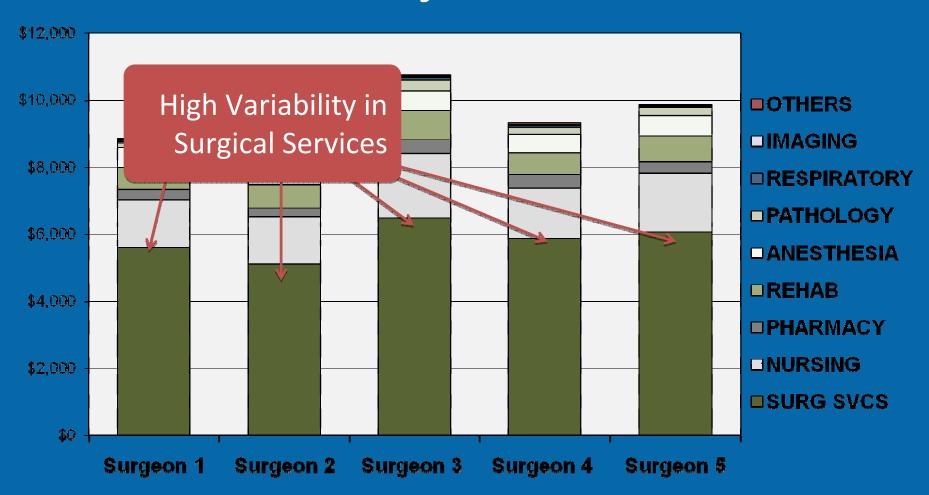


Challenge

- View financial performance and responsibility from a Service Line perspective
- Drive 4% reduction in cost per case for targeted populations



Direct Cost by Resource Area





Challenge

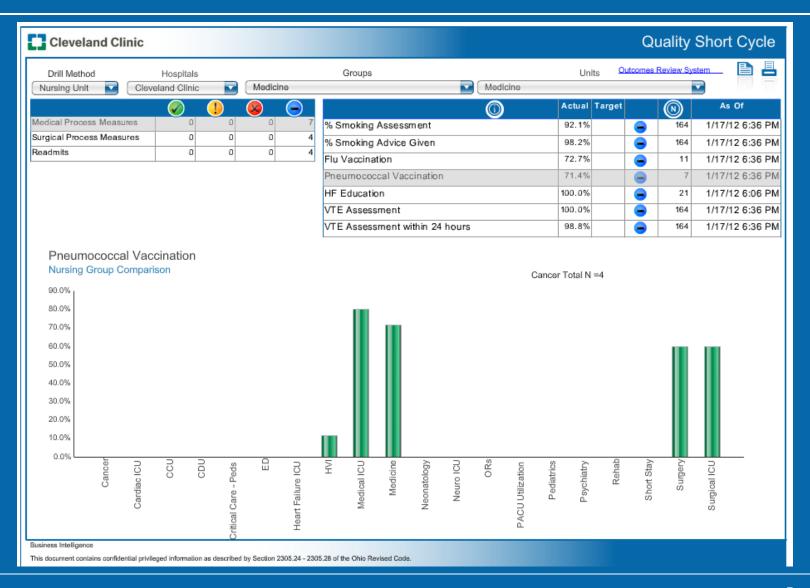
- View financial performance and responsibility from a Service Line perspective
- Drive 4% reduction in cost per case for targeted populations

Results

• 6.5% reduction in cost per case

Challenge

- Improvement in core measures compliance
- Cycle of improvement with existing process too long



Cleveland Clinic

Quality Short Cycle Detail Report

Cleveland Clinic - Patient List - Failed Pneumonia Vaccination as of 11/24/2010 02:40 PM Percent= 58.3% Numerator (Pass)= 42 Denominator= 72 Eligible Count= 30

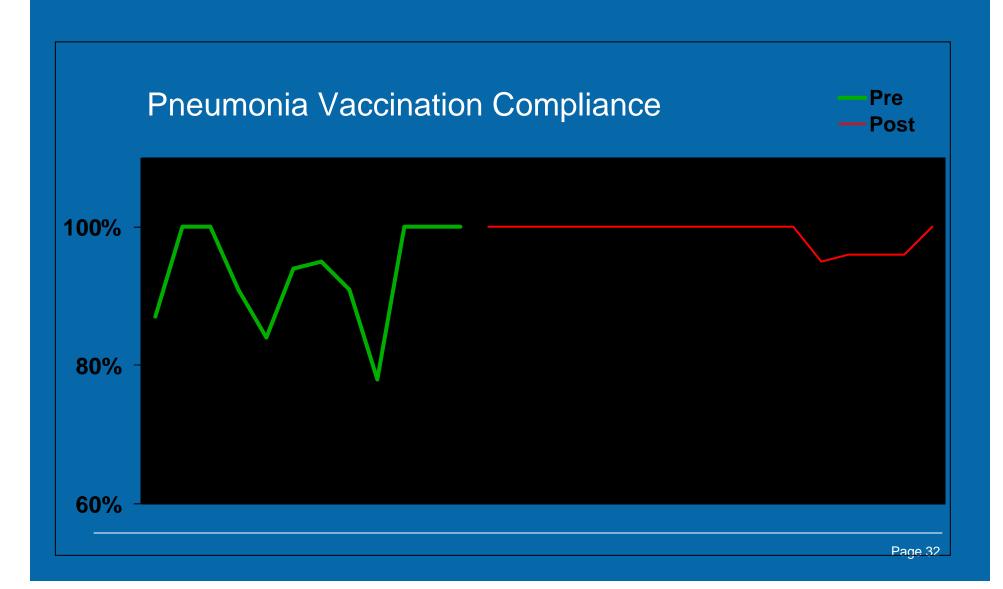
Nursing Unit	Bed Number	Admit Date	MRN	Attending Physician
G020	09	Nov 6 2010 11:12PM		P. RASMUSSEN
G061	12	Nov 21 2010 10:55PM		C. CHOUDHARY
G080	17	Nov 22 2010 6:08PM		V. NAGARAJAN
G100	31	Nov 23 2010 9:15PM		W. CAREY
H022	07	Nov 12 2010 12:33PM		M. VOGELBAUM
H050	18	Nov 17 2010 10:35PM		S. STRONG
H080	18	Nov 16 2010 1:26PM		R. FACTORA
J031	12	Nov 19 2010 11:48PM		S. NISSEN
J031	14	Nov 15 2010 2:35PM		S. NISSEN
J053	01	Nov 23 2010 10:33AM		G. PETTERSSON
J053	03	Nov 23 2010 4:51PM		T. MIHALJEVIC
J054	01	Nov 18 2010 12:59AM		K. MCCURRY
1054	03	Nov 18 2010 6:19PM		G PETTERSSON

Challenge

- Improvement in core measures compliance
- Cycle of improvement with existing process too long

Results

• Improved compliance:





Thank You!

Questions & Answers ... about our Journey

