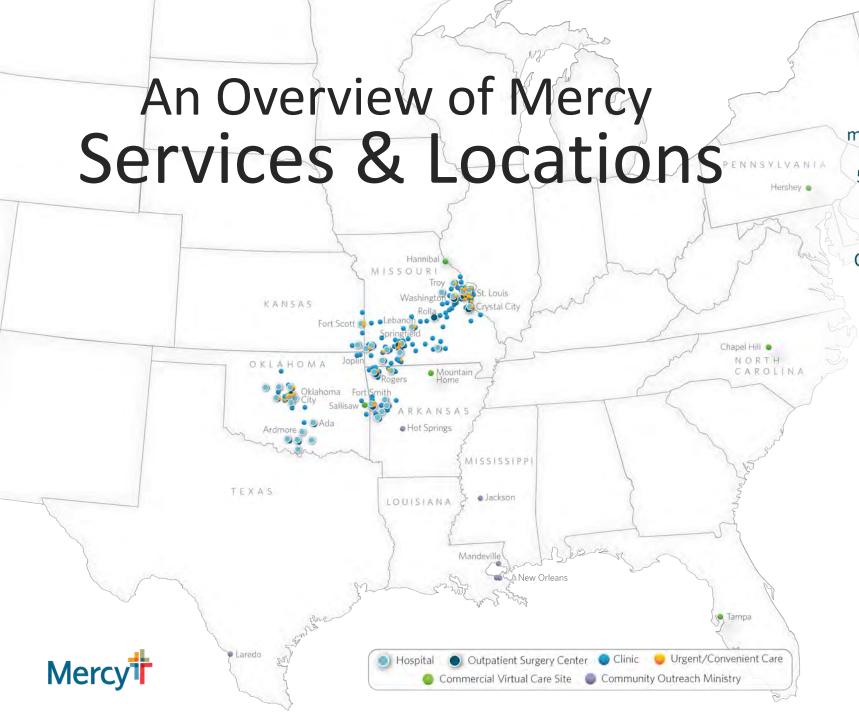
What Is The Purpose of Data: HANA Improves Perioperative Health Operations at Mercy



Jamie Oswald

18 April 2018

SAP Federal Summit



Headquartered in St. Louis with a multi-state footprint, Mercy is the 5th largest Catholic health system in the US.

Outreach ministries in Arkansas, Louisiana, Mississippi and Texas.

Opened the first of its kind virtual care center.

Serving millions each year.

1827 founded

44 hospitals

350 outpatient facilities

3,000 integrated providers¹

40,000 co-workers

>\$5B revenue

Top 5 consistent best performing large health system²

 Physicians & advanced practice clinicians
 Truven Health 15 Top Health System consecutive years: 2016 & 2017



Agenda

Perioperative Background

Solution Delivery

Results

Perioperative Services

Our area of business centered around operating rooms

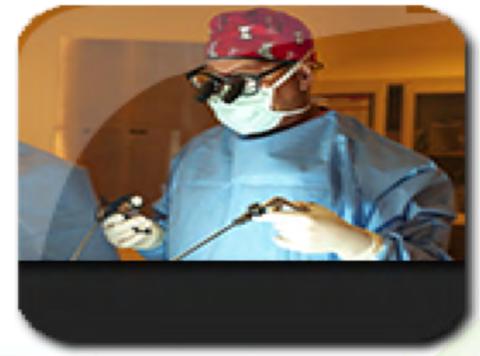
- highest cost/discharge service line in nation

Key Metrics

- Cost/Case
- Block Utilization
- Turnover Time

Key Challenges

- Governance
- Volume
- Dynamic Grouping/Filtering



Business Landscape Prior to 2012

- US healthcare reimbursements were going down
- Organization was inconsistently structured across facilities
- Measures were inconsistently defined across facilities
- Data collection and analysis was very manual and often estimated
- Varying opinions for best practice, price and product.

Why HANA?

Why HANA for Periop?

- Self-service
- Speed to delivery
- Speed of analysis



Why HANA?

Self-Service





BusinessObjects Explorer

- Took from Indexed size limits
- Weeks > Years
- Lower Level of Detail
- Added more complex calculations

SAP Lumira

• 2.0 Deployed, in its way

SAP Analytics Cloud

Under Review

Speed of Delivery

- Aggregations go away, so requirements can be tweaked and validated in real-time
- Data loads are significantly faster, too.
 - Up to 100k rows/second
- Learning Curve must be accounted for



Why HANA?

Speed of Analysis

Some queries couldn't come back

 Yes, even the preaggregated ones

Dynamic Grouping/Filtering

Can't be pre-aggregated





Agenda

- Perioperative Background
- Solution Delivery
- Results

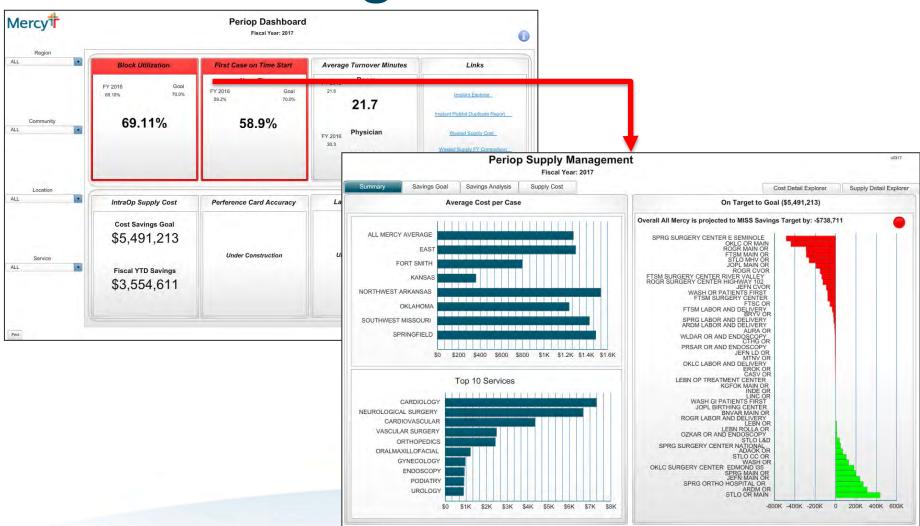
Supported Platforms

Epic and SAP BusinessObjects



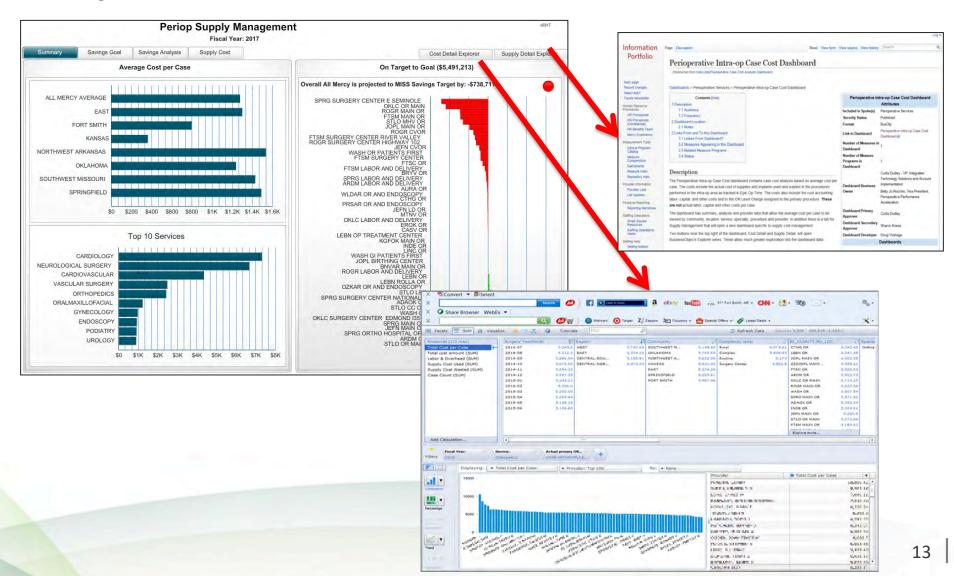


Dashboard Navigation

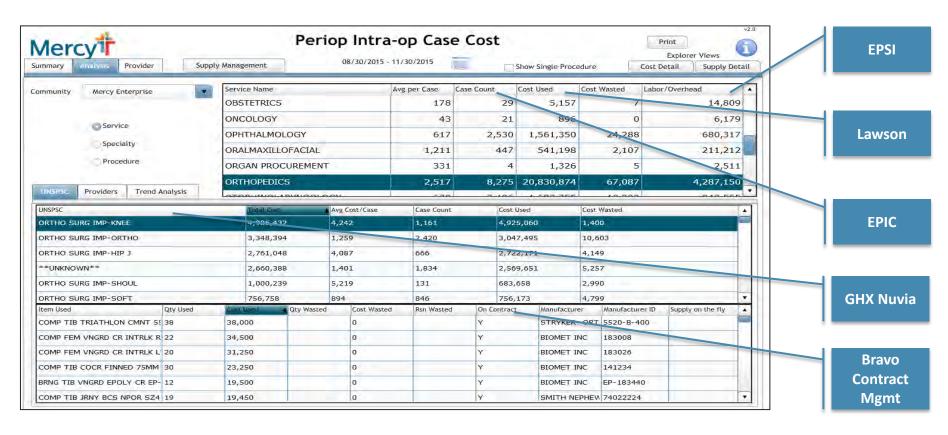




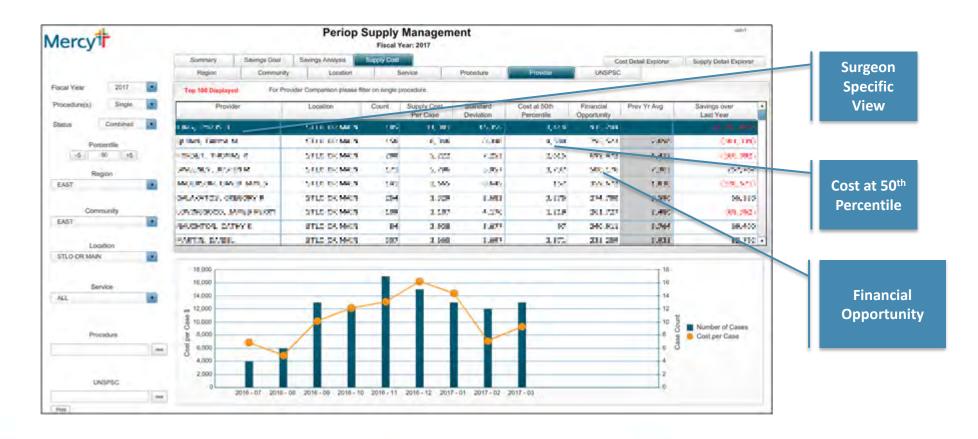
Cost per Case Dashboard



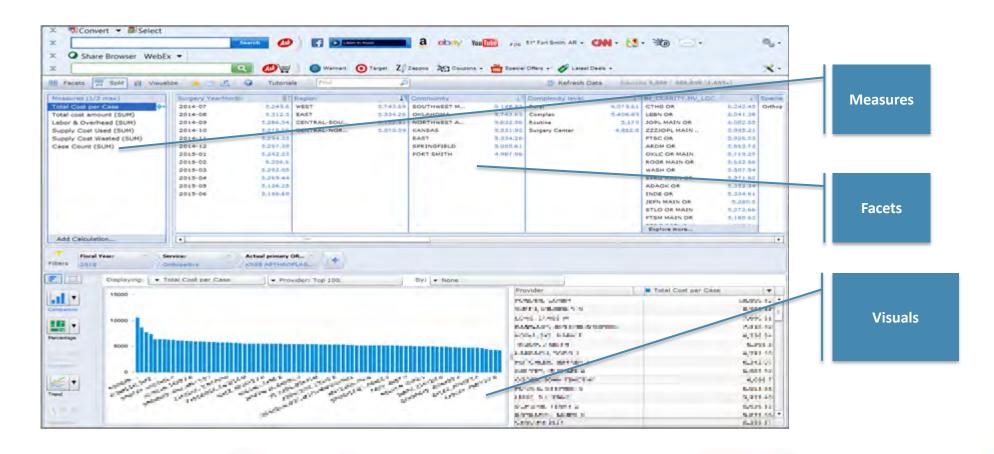
Multiple Data Sources in a Single View



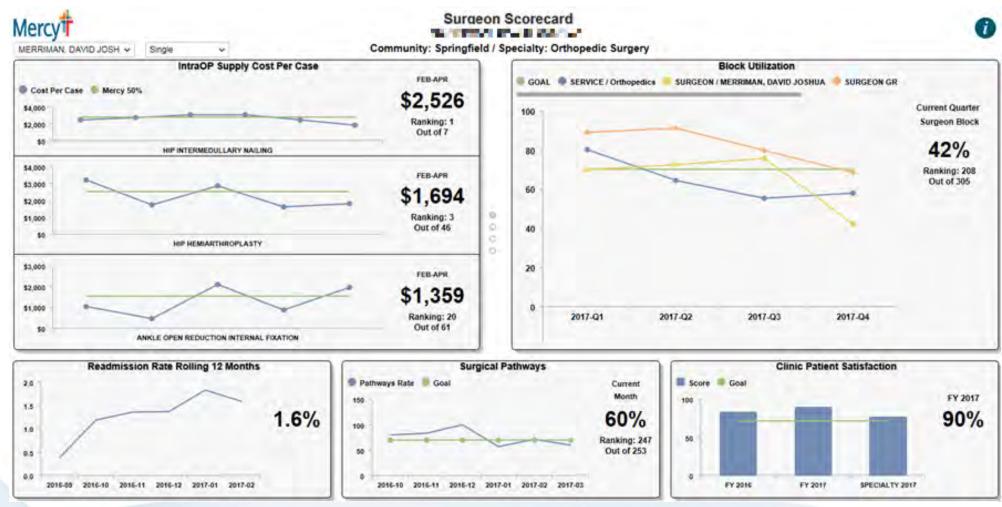
Finding Opportunities



Self-Service



Physician View

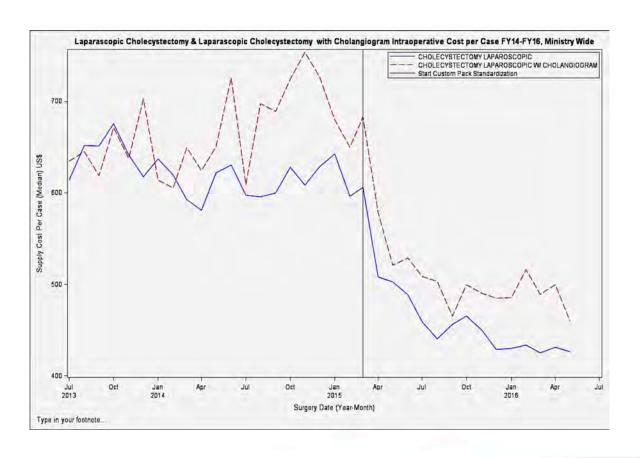


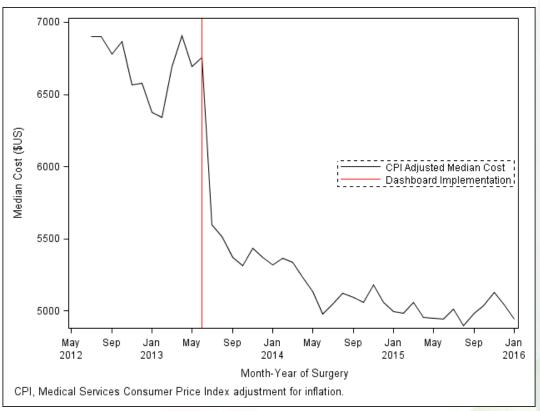


Agenda

- Perioperative Background
- Solution Delivery
- Results

Analytics Success Reduced Variation





Analytics Success

By the Numbers

Periop

- \$17 Million in Periop & Cardiology last fiscal year
- \$33 Million over the first 4 years

Other Areas

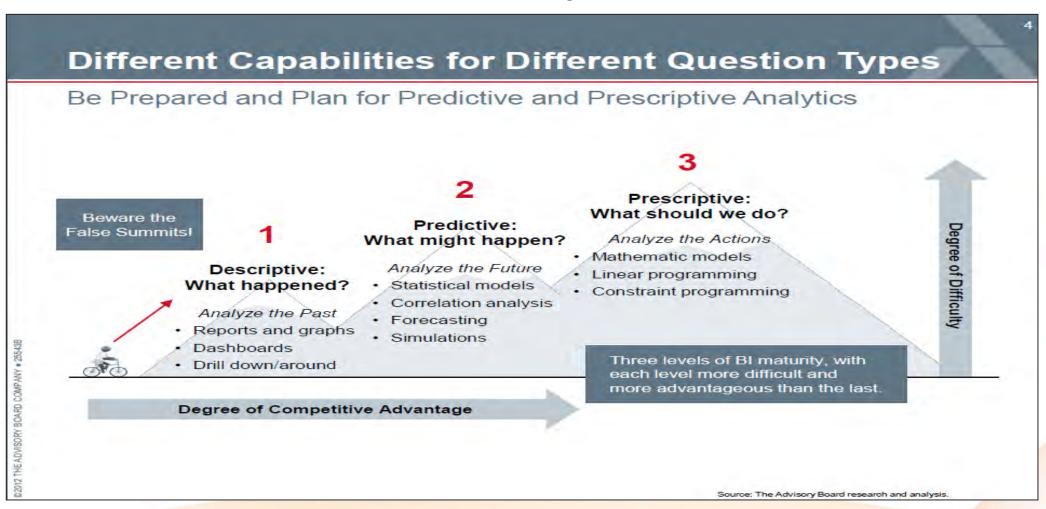
- \$4 Million in Nursing Labor
- \$1 Million in Lab

Lessons Learned

- You need support from the top and bottom of the organization.
- Choose your battles wisely.
- You have to get the data right.
- You will never kill Excel.

Analytics Maturity

No Shortcut to the Top



Questions?

jamie.oswald@mercy.net

https://www.mercytechnology.net/

https://twitter.com/oswaldxxl