



Setting the Stage for the Future

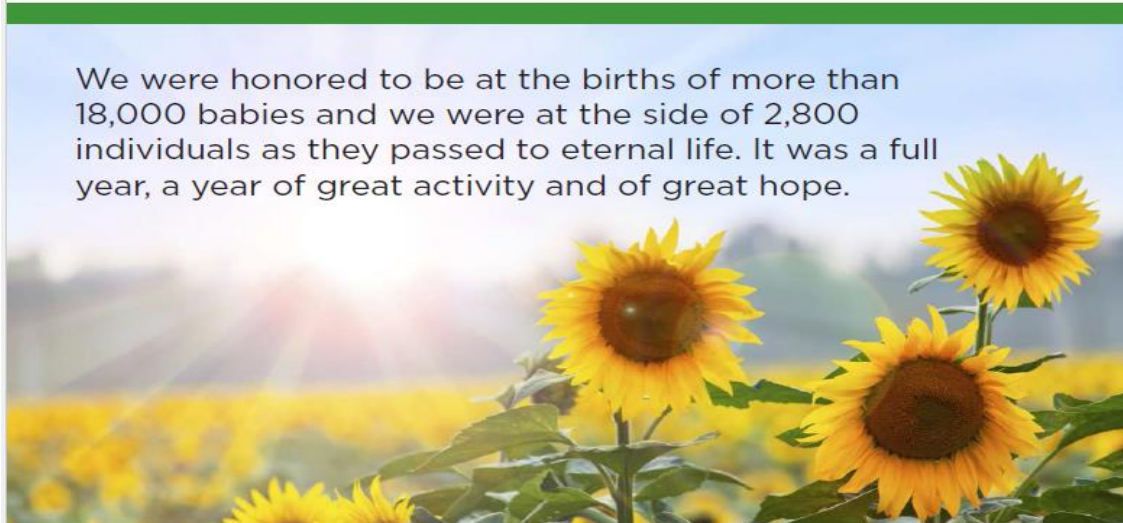
Michelle Woodley RN, MSN
VP, Clinical Informatics
St. Joseph Health

St. Joseph Health

**Our hands touched so many in our communities —
155,000 inpatients, 5.1 million outpatient encounters
and 2.2 million medical office visits.**



We were honored to be at the births of more than 18,000 babies and we were at the side of 2,800 individuals as they passed to eternal life. It was a full year, a year of great activity and of great hope.



St. Joseph Health

Through all these accomplishments and challenges, we have continued to extend the healing ministry of Jesus in the tradition of the Sisters of St. Joseph of Orange.

Each and every day, we work to:

- Save a life
- Help a family heal
- Meet one another's spiritual needs
- Bring more of our community together
- Make a difference in the lives of those we serve
- Be a community that serves, that speaks, that celebrates and prays in such a way that others – regardless of their religious belief – encountering this community experience a revelation of life's deepest truths ... about human dignity, community, success, power, growth, sacrifice, love, suffering, debility and death.

Experiencing a harmony between their heart's deepest resonances and this community's character, persons go from this encounter more healed, more whole, more able to live, to love, to hope and to die.



A photograph of two hikers walking away from the camera on a wooden boardwalk through a dense forest. The hiker in the foreground is wearing an orange long-sleeved shirt, grey pants, and a yellow backpack. The hiker further ahead is wearing a blue shirt, grey pants, and a red backpack. Sunlight filters through the tall trees in the background, creating a bright glow. The forest floor is covered in green ferns and moss.

OUR JOURNEY

St. Joseph Health 

Pathway

Laying the Foundation

- Standardize
- Utilization

Utilizing the Data

- Optimize
- Dashboards

Transforming Care

- Rules/ Alerts
- Prescriptive Analytics

Laying the Foundation- Standardization

- August 2012 Standardization Summit
- Sept 2013 first of three regions goes live
- June 2014 (9 months) system live across all 14 ministries
- Industry unprecedented timeline and scope

Helpful Tools

- Focus Groups
- SBAR – Rapid Decision Tool
- Benchmark data - Utilization

SBAR Process

- ☐ Situation
 - ☐ Background
 - ☐ Assessment
 - ☐ Recommendation
- Review for approval of Recommendation

ID #:			
Short Description:		Created on:	
Submitting Team/ Individual:		Last Modified on:	
Dictionary (If Known):		Approved on:	
Primary Affected Module(s):		Closed on:	
Controlled @ CMS:		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Supporting Documentation Links			
Situation			
Background			
Assessment (Option 1)			
Description:			
Pros:			
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Cons:			
•			
Assessment (Option 2)			
Description:			
Pros:			
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Cons:			
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Recommendations:			
Approve Option 1? :			
Standards Considered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Industry/Regulatory Standards Considered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Reason why Standards was not Followed:			
Socialized with:			
Vetting Group or Other Groups Received Input from:			
Vetting Group input was incorporated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Reason why input not incorporated:			

Information Sophistication Decision SBAR Template- Final 10-10-12

Utilizing the Data- Optimization and Analytics

- Several Optimization Initiatives
 - ED Optimization
 - Care Plan Collaborative
 - Discharge Process
- Requests
- Business Clinical Analytics Real-time Dashboards

Helpful Tools

- eChange and Governance Groups
- Rules and Alerts
- Real-time Data Dashboards

eChange

staffhub

 Search

Michelle Woodley ▾

Help & Training

staffhub ▾

Home Chatter Box Files TaskRay Knowledge Ideas QuickLinks Dashboards Reflections **eChange Requests** Identity Values in Action +

eChange Clinical Dashboard

[← Return to the eChange landing page](#)

Search: Go

Create New Clinical eChange Request

[Reports \(Export to Excel\)](#)

Request ID	Urgent --All-- ▾	Request Date	Ministry --All-- ▾	Requestor Name --All-- ▾	Status --All-- ▾	Request For --All-- ▾	Short Description
10018523	Yes	01/11/2016	St. Joseph Hospital, Eureka	Daniella Termele	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Please add Gemzar (Gemcitabine) 2 grams / 52.6 ML to meditech (and please add it to the gemzar set in Meditech).
10018521	No	01/11/2016	Santa Rosa Memorial Hospital	Egan Lasley	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Please activate LEVO330 for NSM
10018520	No	01/11/2016	Covenant Health	Garry Wesner	Submitted	Loc./Svc. Accomodation/Provider Grps(MIS)	AHP Provider Dictionary Change - K Bartley
10018519	No	01/11/2016	St. Joseph Hospital, Eureka	Lyndsey Chamberlain	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Remove combivent and atrovent inhalers from NKM and NRM
10018515	No	01/08/2016	Mission Hospital Medical Center	Monica Sonnie-Hoch	Submitted	PACS - Radiology	Add Dental procedures to EDS/Trauma category for Mission
10018514	No	01/08/2016	Mission Hospital Medical Center	Alice Kim	Submitted	Order Sets/CPOE/CDS (OE/POM)	SoCal Gen/Med Surg Admit and Gen/Med Surg SS has Echo Complete order with Reason for Exam defaulted to Heart Murmur and it needs to be changed to Other
10018513	No	01/08/2016	St. Mary Medical Center	Aniece Amos	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Fluorescein dosage
10018512	Yes	01/08/2016	St. Mary Medical Center	Monica Sonnie-Hoch	Submitted	Medical Records (MR)	LOAD MISSING 2016 HCPCS INTO MEDITECH ABS DICTIONARY
10018511	No	01/08/2016	St. Mary Medical Center	Aniece Amos	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Removing Heparin Inj 50,000 unit/10 ml from SYM dictionary
10018510	No	01/08/2016	St. Joseph Hospital, Eureka	Melanie Coffman	Completed	Loc./Svc. Accomodation/Provider Grps(MIS)	Request to update Provider Dictionary - Green
10018509	Yes	01/08/2016	Mission Hospital Medical Center	Christine Hearst	Submitted	Physician Desktop (PWM)	Change status - facility information for TAYRA001 to YYYYA - Ramin Tayani, MD
10018508	Yes	01/08/2016	St. Joseph Hospital, Orange	Richard Sakakura	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Activate Meditech drug Trabectedin Inj 1 mg Vial for SJM
10018507	No	01/08/2016	Queen of the Valley Medical Center	Constance Doebla	Submitted	Gen LAB/Path/Micro/ABGs (LAB/PATH/MIC)	JDL_QV new analyzer ABL80 Meditech dictionary build
10018506	Yes	01/08/2016	Santa Rosa Memorial Hospital	Egan Lasley	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	NSM wants to automatically print TPN batch
10018504	No	01/08/2016	St. Jude Medical Center	Liliana Celaya	Submitted	Loc./Svc. Accomodation/Provider Grps(MIS)	Add St. Jude Medical Center access to Dr. DeMarco (DEMPA002), prov type=ACT, on staff=y, admit priv=n, phys order=y, elec sig=b
10018503	No	01/08/2016	St. Jude Medical Center	Liliana Celaya	Submitted	Loc./Svc. Accomodation/Provider Grps(MIS)	Add St. Jude Medical Center access to Dr. Granese (GRARI003), prov type=ACT, on staff=y, admit priv=n, phys order=y, elec sig=b
10018502	No	01/08/2016	St. Joseph Hospital, Eureka	Lyndsey Chamberlain	Submitted	Pharmacy/Smart Board/Pxyis Connect (PHA)	Change order strings for epogen in CPOE
10018500	No	01/08/2016	St. Jude Medical Center	Sandra Slater	Submitted	Gen LAB/Path/Micro/ABGs (LAB/PATH/MIC)	2 New Tissues - -all regions test/live - Just Do It - ECIS - LIS



DATA DRIVEN STRATEGY
MEDITECH STANDARDIZATION
IT UTILITY COMPUTING

Clinical and Business Governance

Health System Operations Standards Committee (HSOSC)

Enterprise Physician Advisory Council

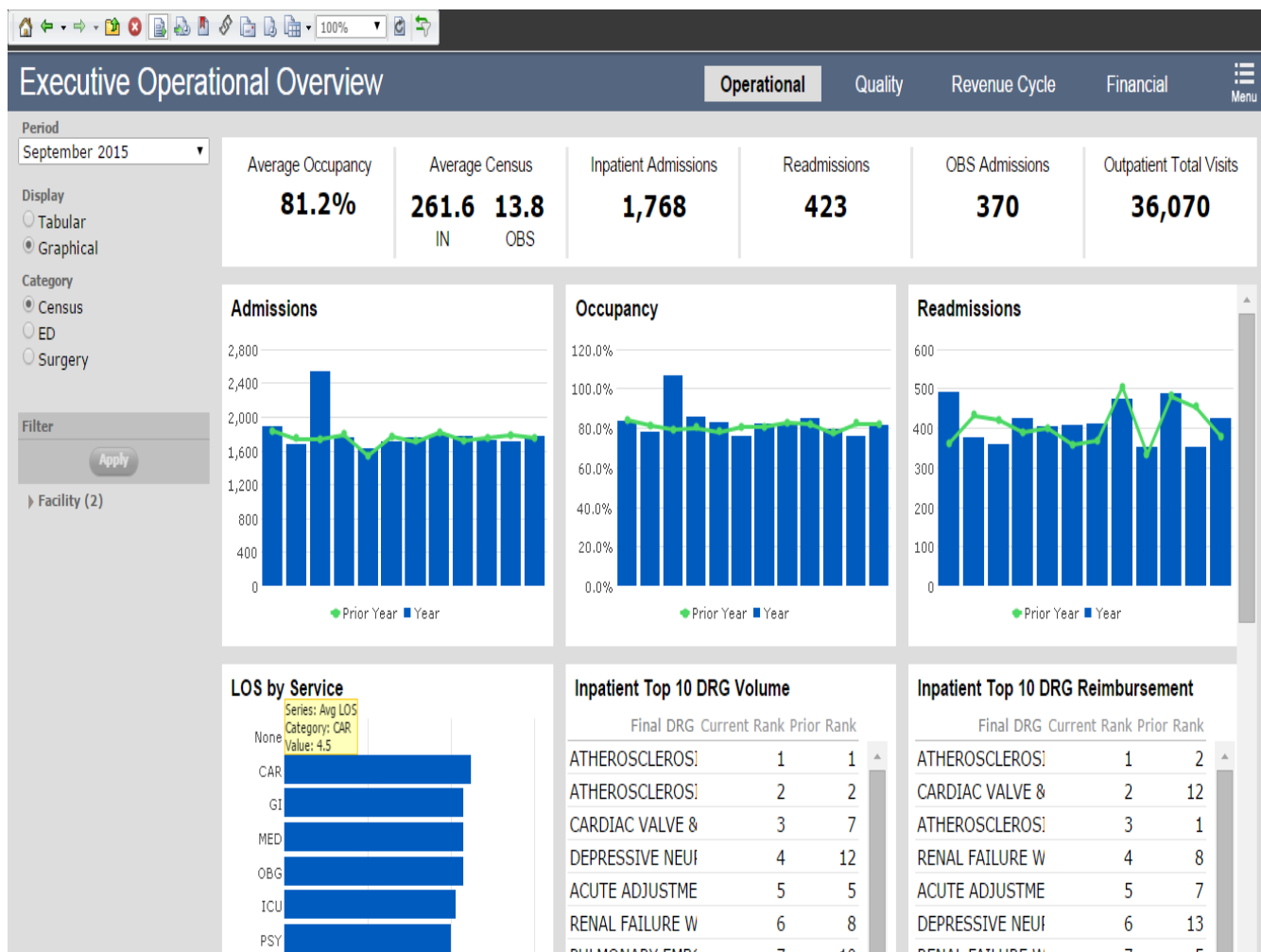
Regional
Physician
Advisory Councils

Clinical Governance
Groups
(8 Ancillary, 11 Nursing)

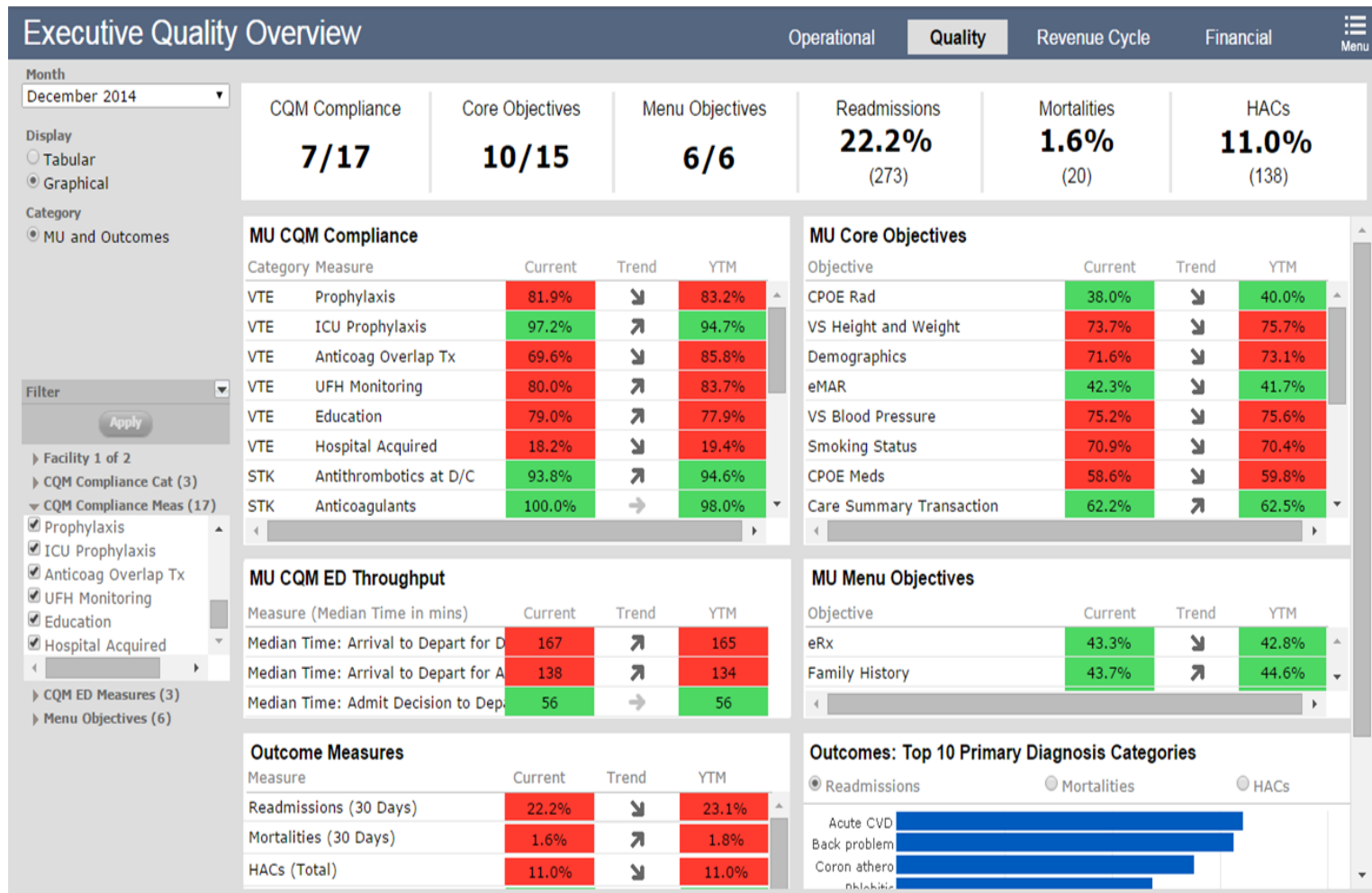
Revenue Cycle
Governance Group

Financial Services
Governance Group

Real-Time Dashboards



Real-Time Dashboards



Real-Time Dashboards



Utilizing the Data- Added Benefits

- Cancer Research Registries and Trials
 - Recruitment of patients for participation could be accelerated by mining clinical databases to locate eligible patients.
 - Design of clinical trials can be improved by using clinical databases to ensure optimal coverage of different patient populations within the trial.
- Donor matches

Transforming the Care Prescriptive Analytics- The Promise

Two Main Goals or Promises

- Improve patient outcomes
- Lower costs

Use of algorithms based on relational databases

So What Is Prescriptive Analytics

- Using data to know what might happen
 - Allows modification of conditions to a desired outcome
- Demonstrated benefits in many industries
- Usage in health care lagging behind
- Prescribes a course of action that would produce an optimal result, considering constraints and other variables

Who All Is In The Game of “Prescriptive Models”

- Insurers
- Technology firms
- Hospitals
- Health systems
- Physician offices
- Patients

With Healthcare It Gets a Little Scary

- How good is the data
- Plans to alter the natural outcome- SciFi or Not?
- New method of potentially curing disease raises its own set of ethical questions
- Predict could eliminate hereditary diseases but prescriptive analytics could further hone

Is it in the near future?

- Zuckerberg, the co-founder of **Facebook**, and his wife, Priscilla Chan, will give billions to advance various social causes over their lifetime
- Zuckerberg and Chan wrote in an open letter to their newborn daughter—is that "one day, you or your children will see what we can only imagine: a world without suffering from disease."



So how wonderful if it leads to...

- ***Personalization of Care***
 - Improve care by tailoring it to the needs of individual patients
- ***Personalized Medicine***
 - tailoring drug regimens and other treatments based on the genetic characteristics and prescriptive analytics

New Prescriptive Analytic Companies

- Industry seeing spawning of new companies of data scientists
- Formulating relational databases with high degrees of predictability
- Imagine a world where you could predict with 70-80% accuracy that someone would have a heart attack within the next 6 months if variables were not altered
- Those days are HERE!

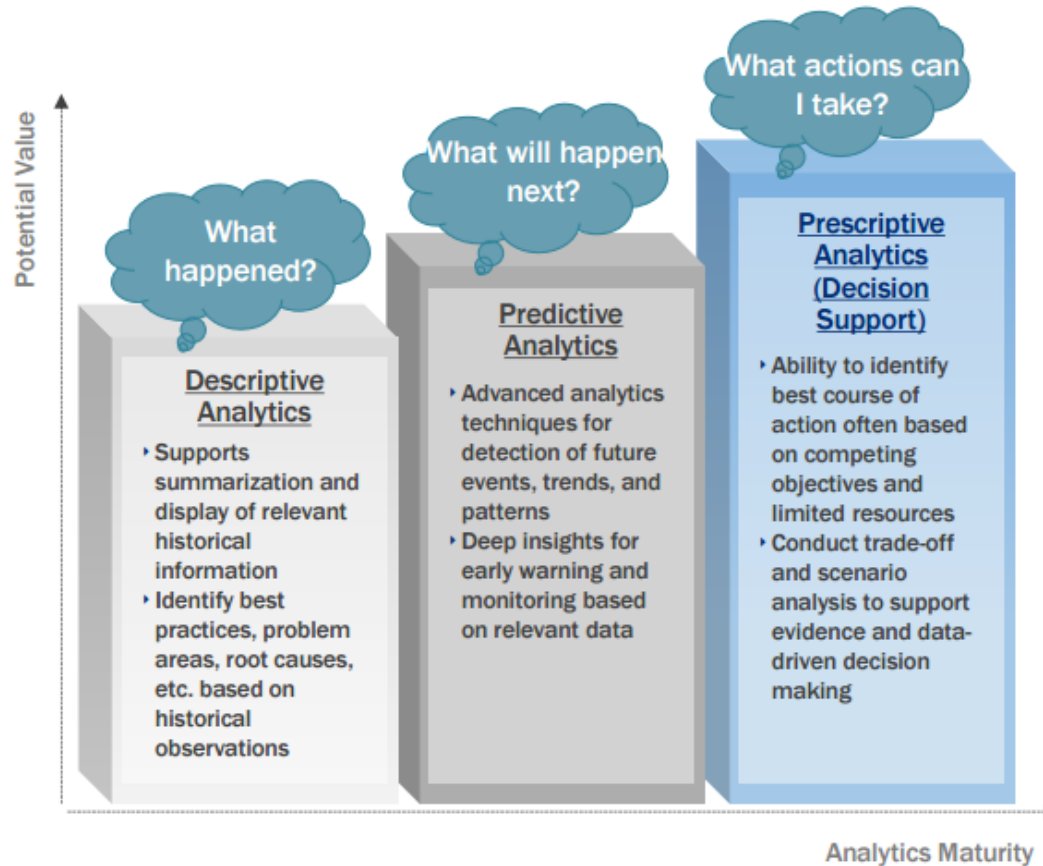


The Future

- Building of large databases partnering with prescriptive analytics companies
- Formulating most difficult questions and areas of focus
- Using the power of the computing to run algorithms and prescribe on most impactful interventions

The Evolving Journey

Analytics Capability Maturity Model



Hold On To Your Seats



“I've come to believe that each of us has a personal calling that's as unique as a fingerprint—and that the best way to succeed is to discover what you love and then find a way to offer it to others in the form of service, working hard, and also allowing the energy of the universe to lead you.”

*—Oprah Winfrey, television host,
producer and philanthropist*

Thank You

