



Health Data Analytics

Business Case Development



Health Data Analytics (HDA)

Not BIG Data

Health Data Analytics (HDA) is the thoughtful combination of Business Intelligence (BI) and Clinical Intelligence (CI)

Creating value with Health Data Analytics requires the timely and relevant processed data (information) that allows you to make intelligent business/clinical decisions that drive action.

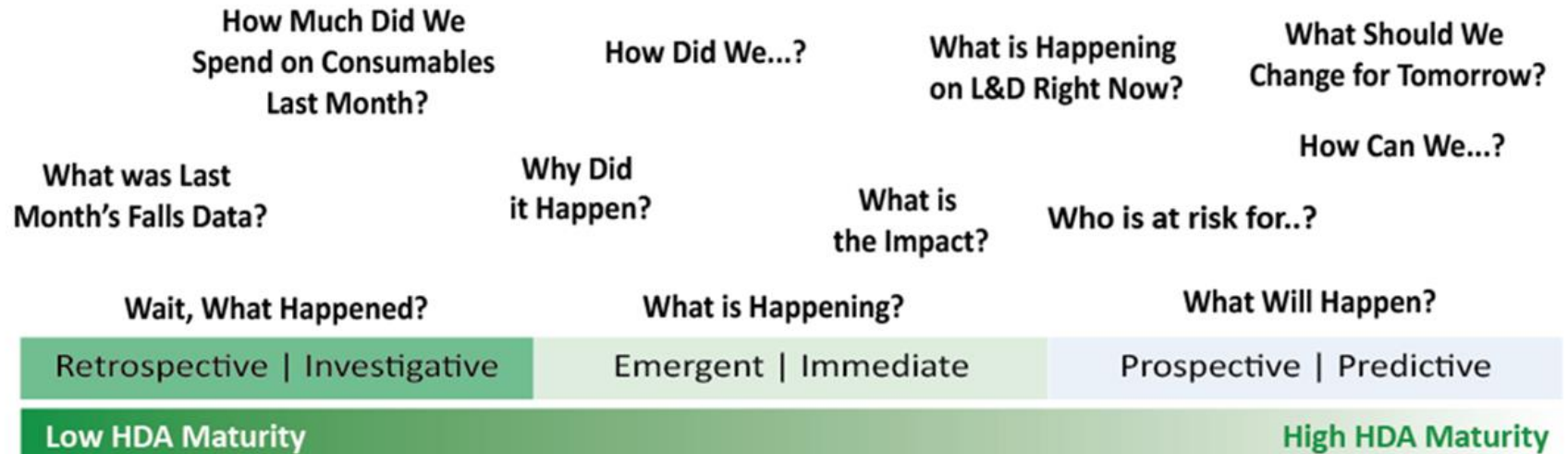


Health Data Analytics Maturity

Optimization of People and Associated Processes

Health Data Analytics Drivers

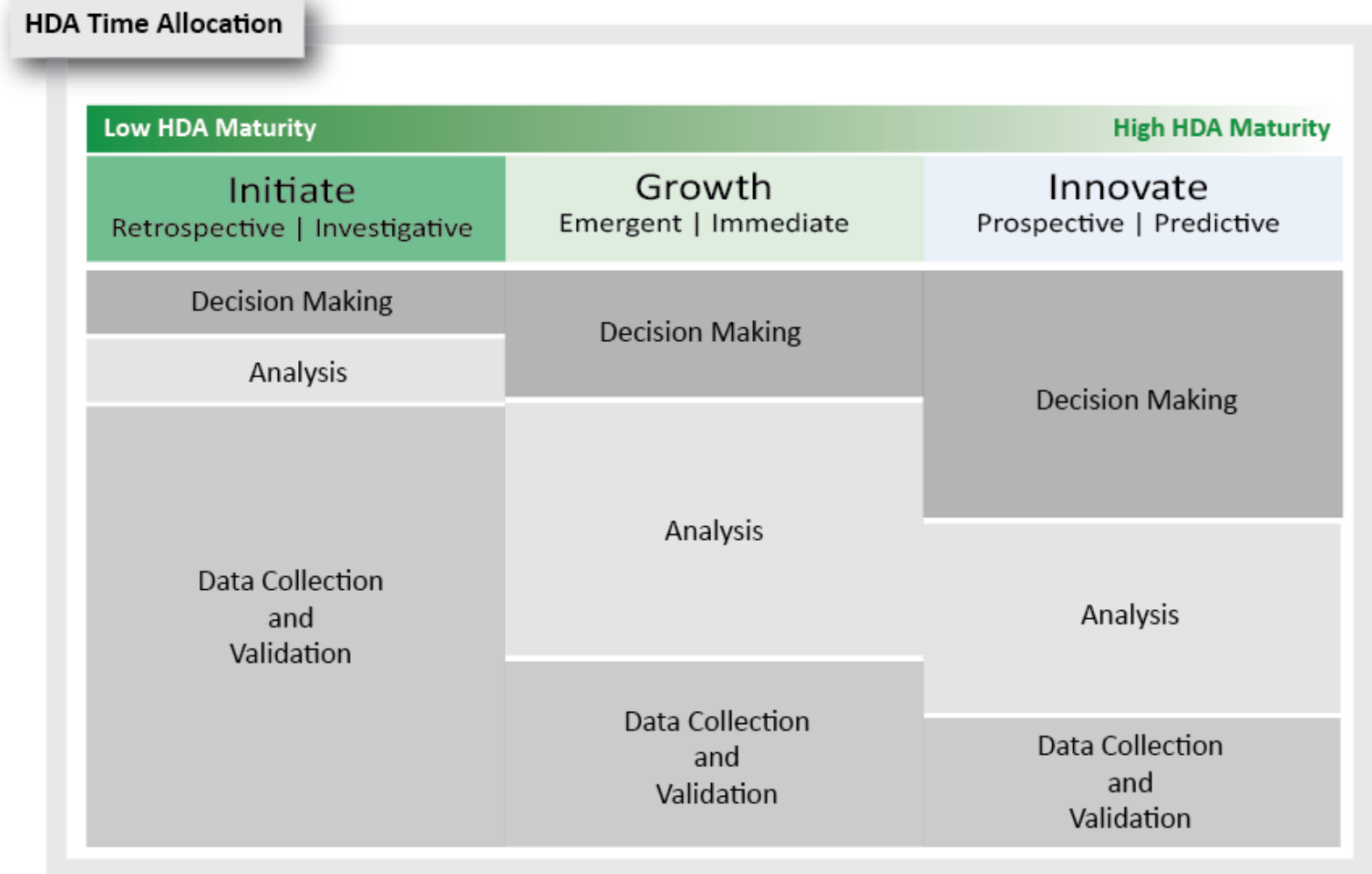
HEALTH DATA ANALYTIC DRIVERS ARE FORCING ORGANIZATIONS TO ANSWER MORE DETAILED AND IN DEPTH QUESTIONS





HDA Maturity Time Allocation

Higher Maturity – More time on Action





HDA Business Case

The First Step to Change

What a Business Case Is:

- The product of an assessment (where you are)
- A gap analysis (where you want to be and the effort for attainment)

What It Focuses On:

- How HDA fits into the organizations strategy
- The organization's change readiness stature

What the Components are:

- Benefits of becoming a data driven organization
- Courses of Action (COA) Development
- Resource requirements (people, time, budget, technology)
- Limitations and Constraints
- Recommendations

What is the Value

- Enable Leadership with a common operation picture to make an informed decision on the best course of action to pursue regarding increasing the maturity of the organizations HDA capability

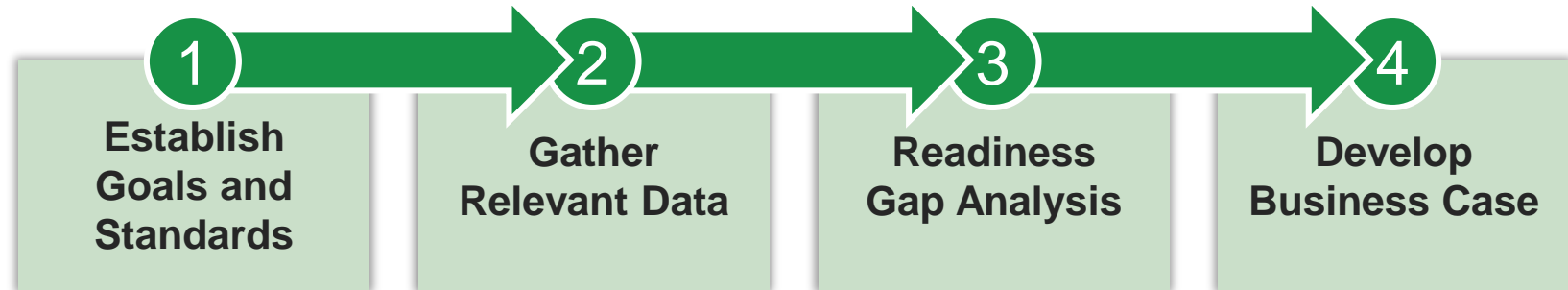


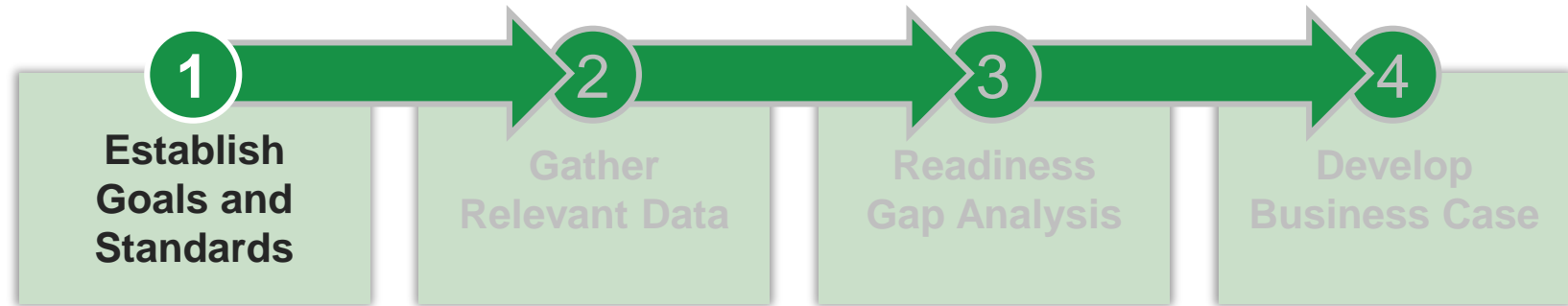
Developing a Business Case

Four Basic Steps

The process of developing a business case is a systematic look at the full spectrum of opportunities and challenges associated with increasing HDA maturity.

In advance of this complex, multi-stakeholder initiative, we will examine impacts to the organization, people, technology, and process necessary for increasing HDA maturity— with a deliberate eye on the key success factors for implementation.





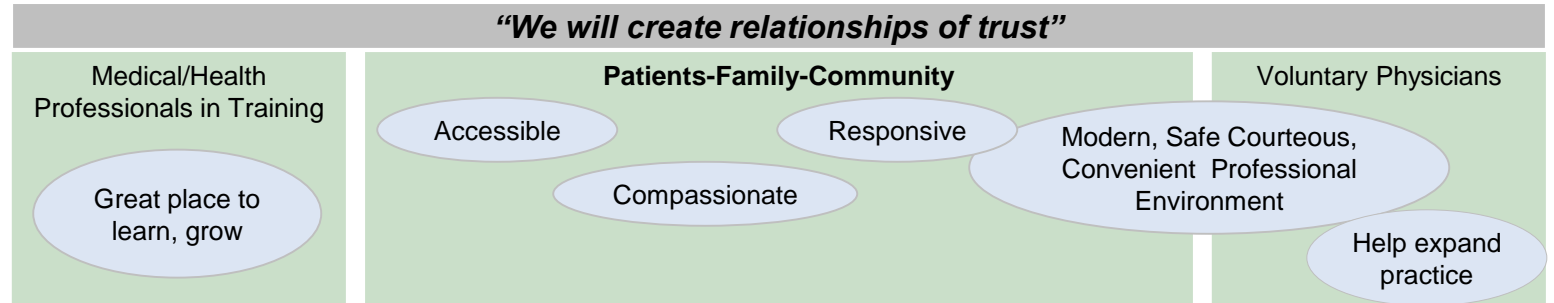
University Medical Center Strategy Map



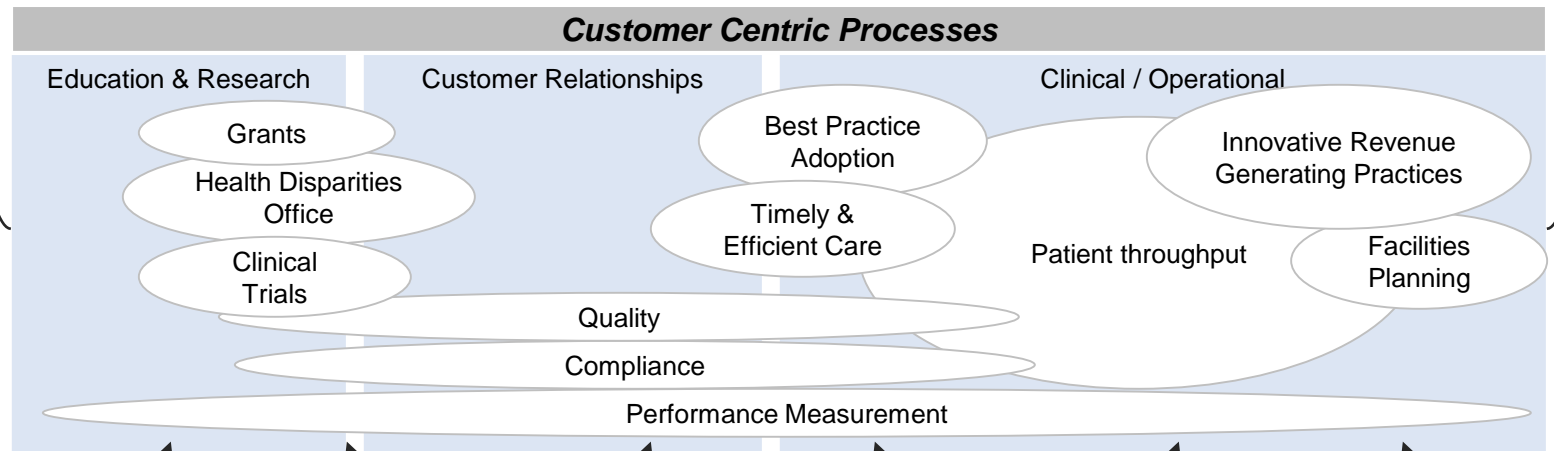
Financial Perspective
What we must deliver to sustain financial viability



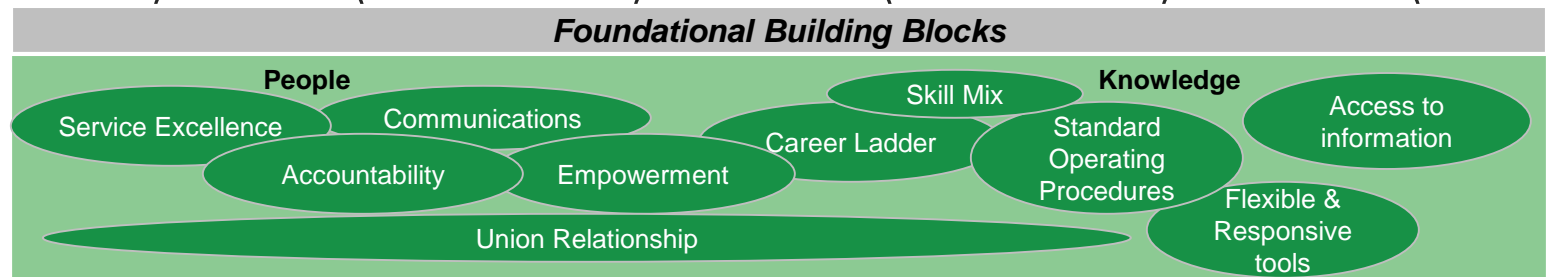
Customer Perspective
What our customers expect from us



Internal Perspective
What processes we must excel at to deliver what our customers expect



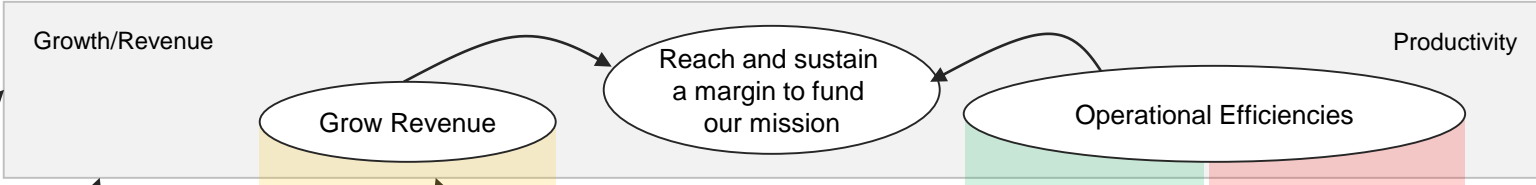
People /Knowledge Perspective
How we must develop the organization



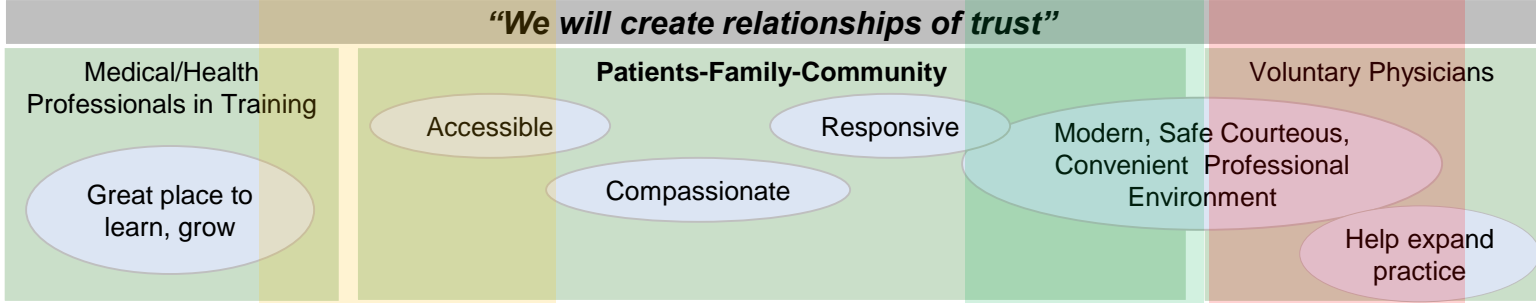
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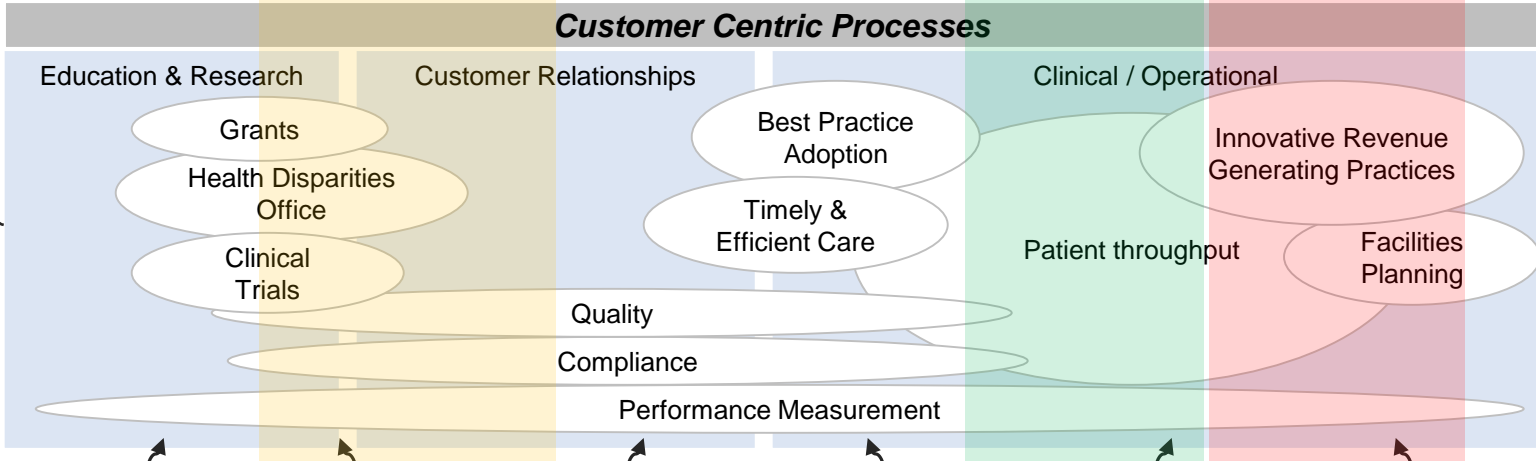
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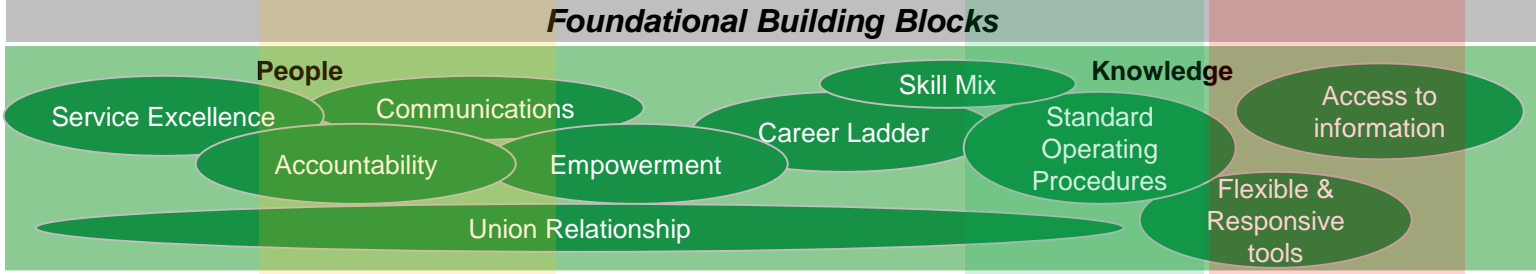
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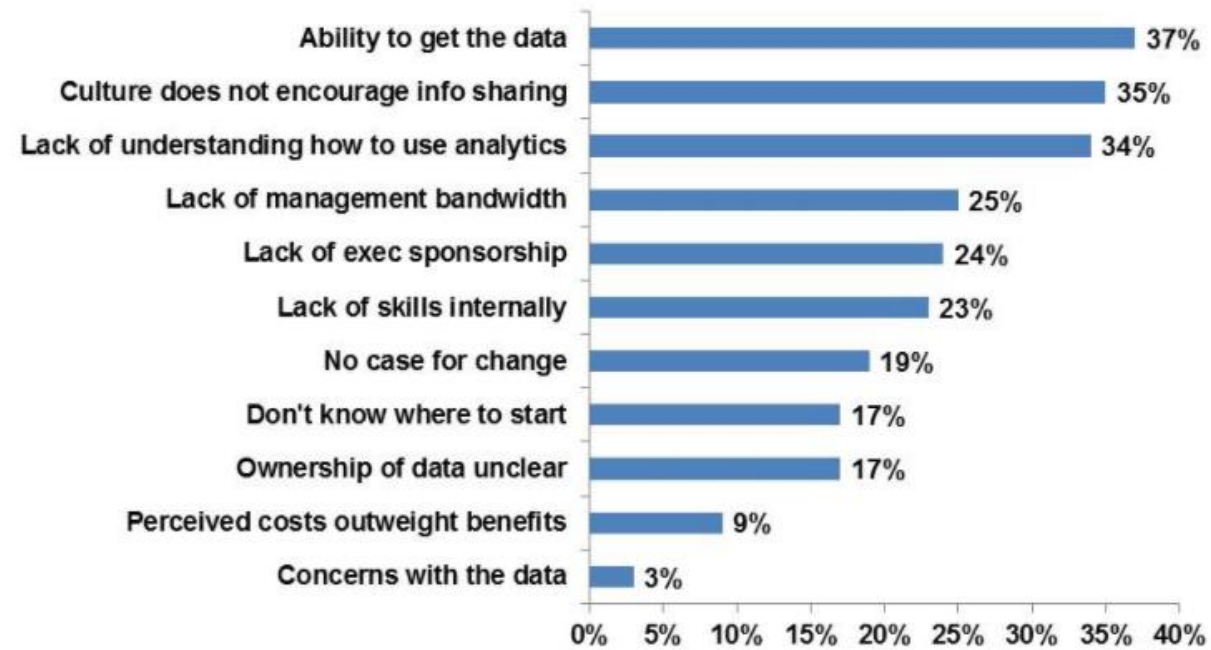




What Is Holding Healthcare Back?

Data and the Inability to Manage it is a Big Problem

Primary Obstacle to Widespread Analytics Adoption

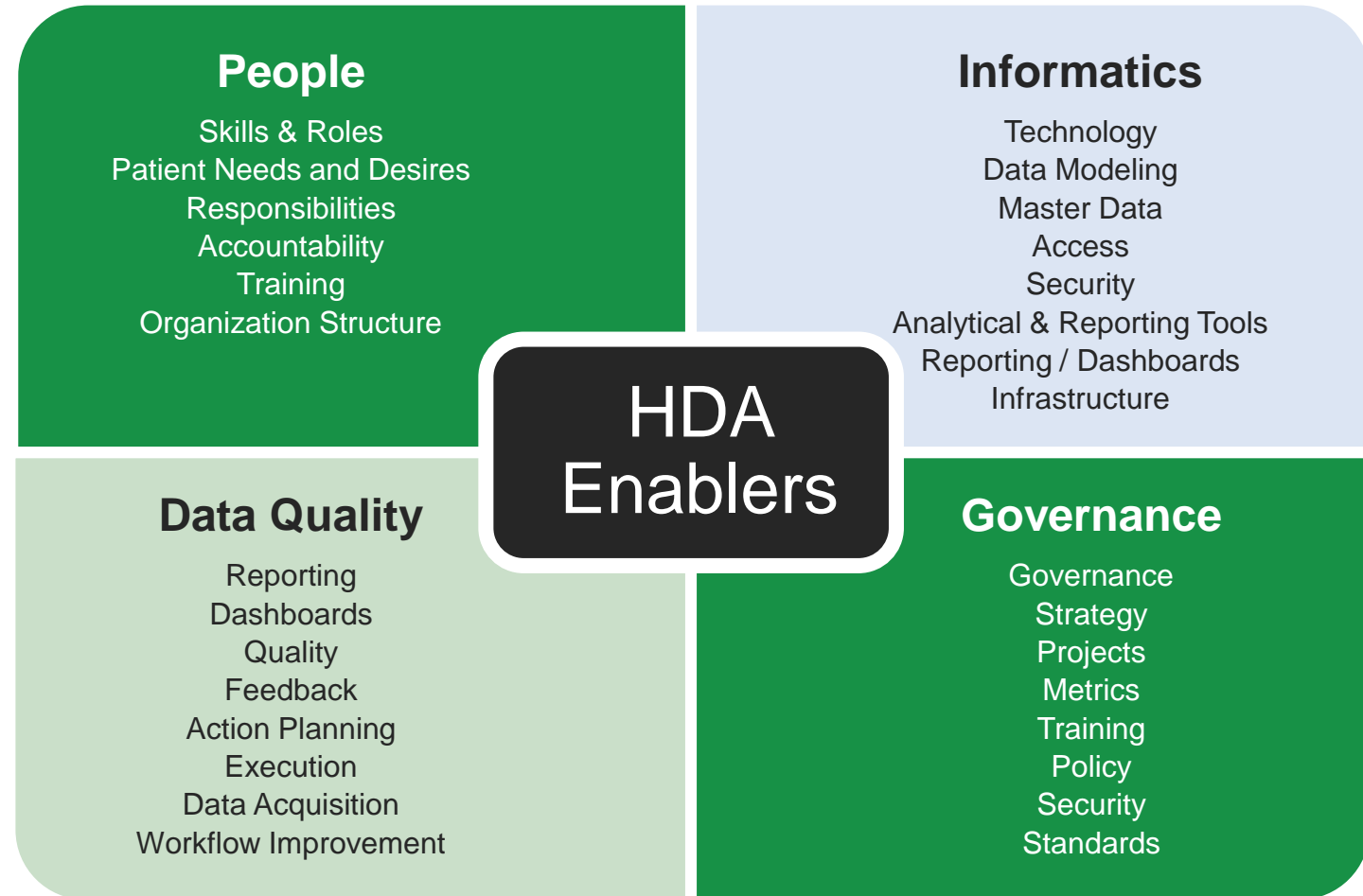


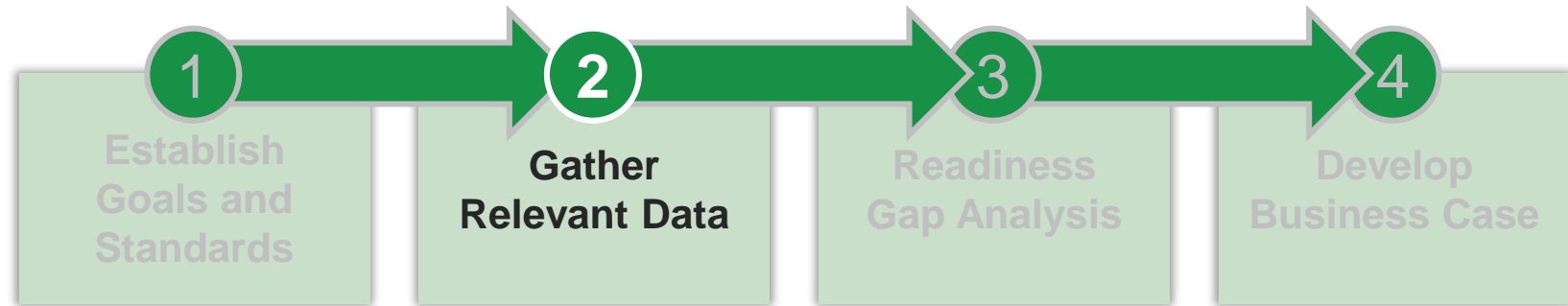
Source: *The value of analytics in healthcare: from insights to outcomes*, IBM Institute for Business Value, February 2012



HDA Capability Enablers

People, Informatics, Data Quality and Governance







Gather Data

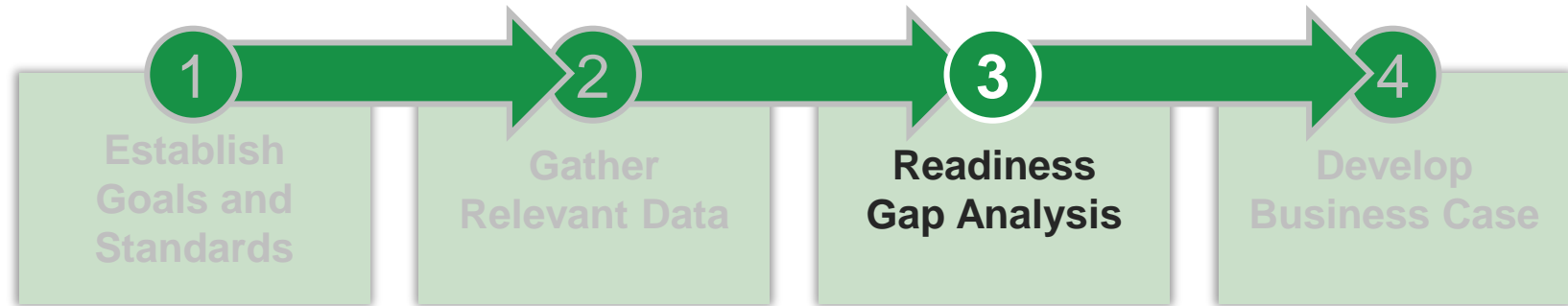
Systematic and Organized

- 1 Observations
- 2 Document Review
- 3 Survey
- 4 Focus Group
- 5 Interview

Lesson learned

Be sensitive to the amount of time required by individuals to provide information during the assessment phase.

All interviews and data requests are vetted prior to execution.





HDA Capability Enablers

Dashboard Example

	People	Data Quality	Technology	Governance
Hospital A				
Dept B				
Unit C				
Practice D				

- Low Risk: Ready to Proceed
- Some Risk: Additional Preparation
- High Risk: Significant Preparation



Dashboard Component Analysis

Deep Dive into each Component

Practice: "A"

Component: People

 **Some Risk: Additional Preparation**

Key Findings

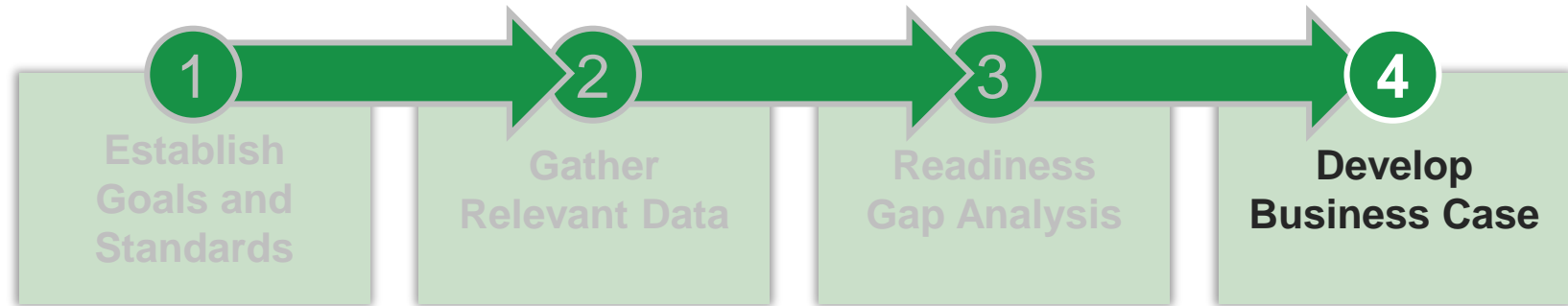
- The organization reacts generally well to change (survey response, adoption of technologies), however Ad hoc approach to change is a concern, need a better change process.
- The overall climate for change to EHR is positive and enthusiastic. How things have been adopted in the past has caused some anxiety

Items to sustain

- Key Physician champions are requesting new technology
- Physician users are aware of the change and impact
- Good use of standard communication plans
- Senior leaders participate in staff meetings
- Effective use of Steering Committees for project reporting

Items to improve

- Ad hoc Change Management practices
- Alignment: Sense of urgency is not consistent amongst staff
- Alignment: New technology skills not currently present – requires preparatory training to assist in project delivery
- Staff concern that technology efficiency will reduce overtime shift availability
- Not incorporating all available communication vehicles
- No consistent message for the purpose and drivers of the initiative





HDA Business Case

2 - 3 Realistic COAs

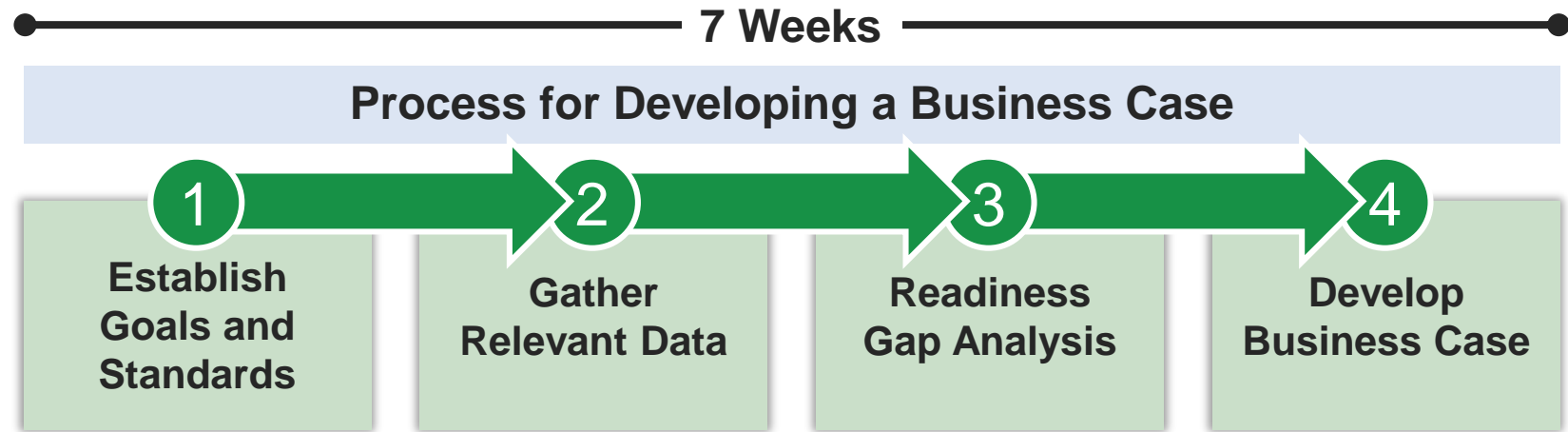
In order to select a Course of Action (COA), score each COA using decision criteria

		Courses of Action		
		COA 1	COA 2	COA 3
Decision Criteria	Yields Best Results / Value			
	Accountability			
	Stakeholder Buy-in / Fewest Barriers			
	Speed			
	Cost			
	Manageable			
	Feasibility (easy to complete)			
	Suitability (fit)			
Totals				



Developing a Business Case Timeline

Typical Business Case Development is 7 weeks





Lessons Learned

Business Case Critical Success Factors

- Integrate with the organizational culture
- Achieve buy in from leadership on the value of data and how it contributes to achieving organizational goals and survivability
- Demonstrate how data is an enabler in the strategic plan
- Define the problem HDA seeks to understand and solve
- Show how data helps with the decision making process
- Demonstrate how HDA facilitates workflow integration
- Articulate and develop the skills necessary for health data analytics
- Accommodate population health strategies
- Change focused on the process not the people
- Create awareness among senior leaders regarding the opportunities / decisions / leverage points



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