





Predictive Analytics World 2018

Delivering the Business Value of Analytics



James Taylor, CEO

Delivering Value



Business Value

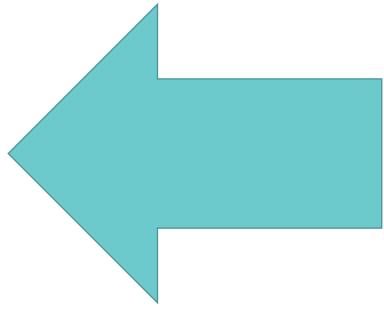








Analytic Value



Business value is added by delivering a product or service more cheaply, improving its quality to make it better value, delivering that value sooner or by making it more satisfying to the customer. Analytics deliver value in exactly the same way.





Not Actionable

Not Integrated Not Believed Not Used

Solves wrong problem

Too hard to use

Too expensive to use

Not Actioned



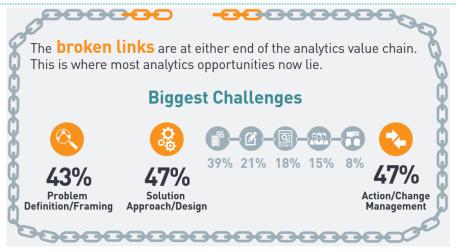
These Barriers are Widespread

Analytics efforts very or extremely important

Analytic efforts have had a broad positive impact



- Studies show that this is a common problem.
 - 70% of organizations say analytics is really important but only 2% have delivered on the promise.
 - There are far more companies failing to deliver high impact (80%) than succeeding in generating impact.
- Broken links: Why analytics investments have yet to pay out" ZS and the Economist Information Unit, Ltd. June 2018 and "Raising returns on analytics investments in insurance" by McKinsey



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Failure mode			Description
Limited adoption or integration		38	Inability to integrate analytics solutions into work flows Limited frontline adoption
Lack of strategic alignment and direction	26		Lack of stakeholder alignment or support Lack of clear road map
Poor data quality	17		Missing or incomplete data Data quality or accuracy issues Data fragmentation
Other	19		Missing team skills or capabilities Unclear use case scope Inability to articulate value
Total	100		

Source: McKinsey - "Raising returns on analytics investments in insurance"

DECISION MANAGEMENT SOLUTIONS

A Definition

- valuable analytic
- Adjective-Noun Pair: an analytic model of any type (regression, classification, ensemble, machine learning, neural network etc.) that has caused the organization that paid for its development to change its behavior in a way that adds business value to that organization.

Build Valuable Analytics: Use Actionable Analytics in the Front Line



- Build an analytic
 - That addresses an operational problem or opportunity
 - In a way that can be used in operations
 - That is believed by the people who run operations
 - And embed it in the systems/processes that support operations

if analytics does not lead to more informed decisions and more effective actions, then why do it at all?

Mike Gualtieri, VP, Principal Analyst Serving Application Development & Delivery Professionals







Adopt a decision-centric approach

Change how you define business understanding

Consider
decision-making
technologies as
a set

- Adopt a business decision-centric approach to analytics - one that puts business decisions first.
- Change how you define analytic requirements and business understanding to bring more business knowledge into your analytic projects.
- Consider advanced analytics as one of a set of decision-making technologies not a standalone technology stack.

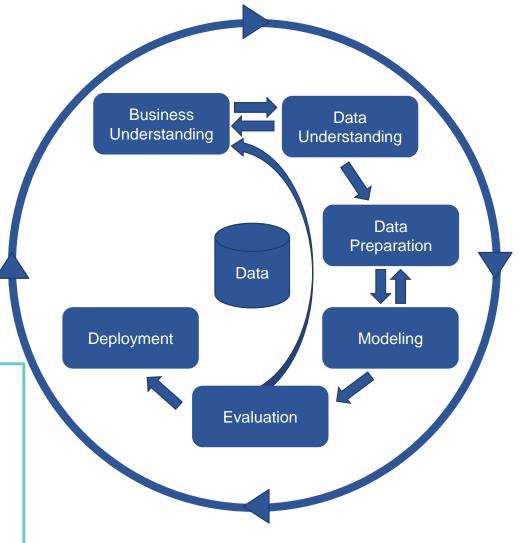


Adopt A Business-Centric Approach To Analytics

- Put Business Understanding First
 - Then understand your data
 - Prepare your data
 - And build your analytic models
- Evaluate for Business Impact
- Deploy the results

Repeat

CRoss Industry
Standard Process
for Data Mining





Put Decisions First For Business Understanding

- What (business) measures?
 - Customer satisfaction
- What (business) decisions have an impact?
 - Pricing, claims handling, renewal
- Which decision should we improve?
 - Claims handling
- What does improve mean?
 - Increase STP rate without more fraud or waste

Make the project about the **Decision**, not the **Analytic**



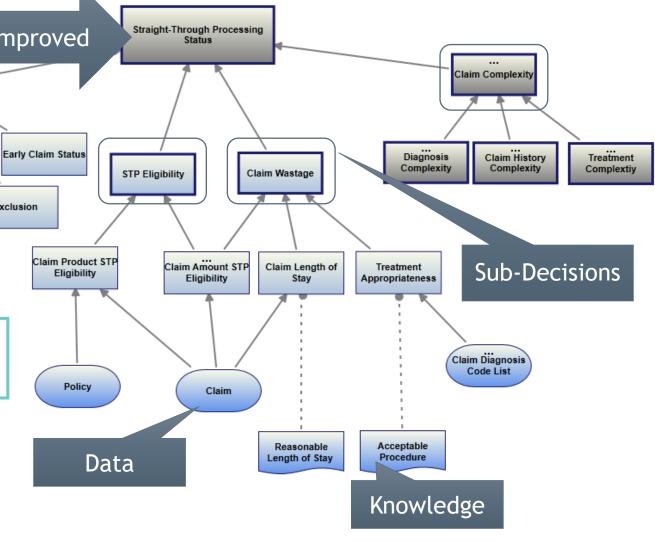
Build Business Understanding

- Decision
 - Specific question
 - Allowed answers
- Data
- Sub-Decisions
- Knowledge

Policy and Benefit Eligibility Red Flag Unstructured Data Claim Producting Eligibility Claim

Decision Understanding

A decision model clarifies all the components of decisionmaking, breaking down the decision into sub-decisions, showing where data is used and how relevant knowledge and analytics are applied. Decision models are defined using the Decision Model and Notation (DMN) standard.



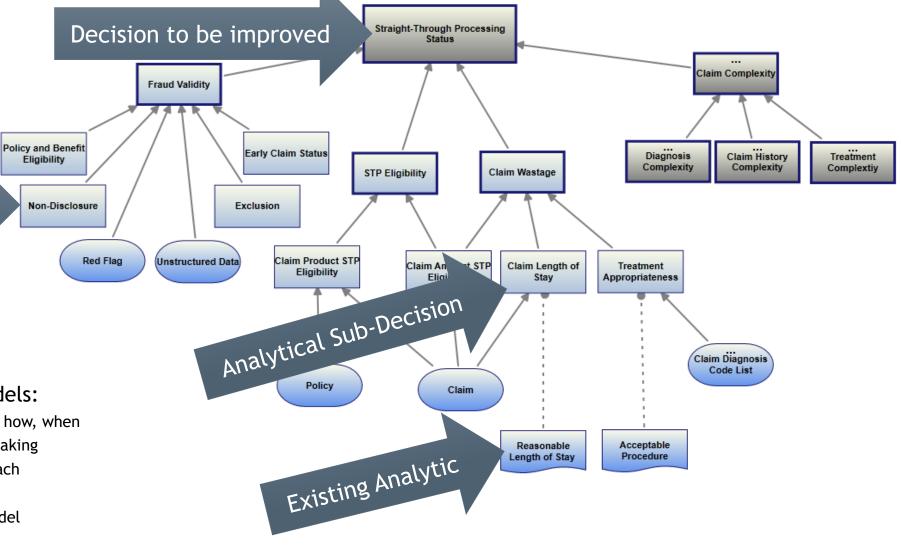


Use Decision Understanding to Frame Analytics

- Map Analytics
- Ask "If Only" Find new ones

If only we could predict this...

- For analytic teams, decision models:
 - Provide decision structure who, what, how, when
 - Standardize the approach to decision making
 - Provide transparency of decision approach
 - Foster innovation in the business model
 - Show improvements to the business model
 - Promote "buy in"







- Let experts speak
- Model the decision
- Let experts frame the problem

Make sure it will be actionable Before you build it

- Too many analytic teams let the data speak but ignore SMEs.
- Model the decision to capture what the SMEs know about how the decision is, or should be, made.
- Let what the experts know-how frame the problem for the analytic project. Let them identify:
 - Which analytics
 - Applied where
 - In what format
 - With what level of accuracy and timeliness









Mix And Match Decision-Making Technology

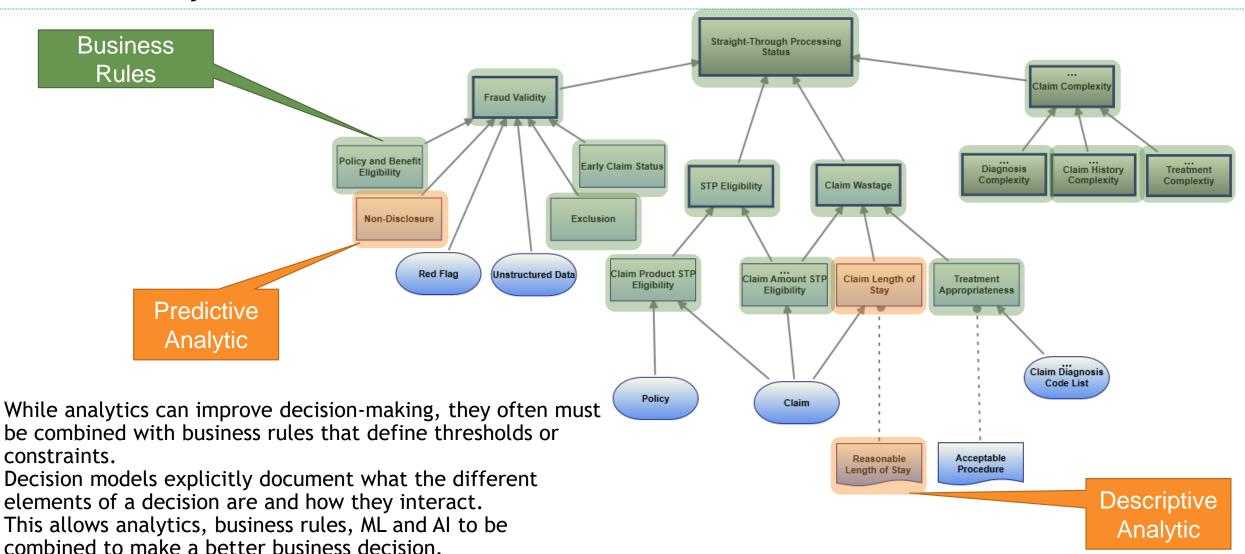
- Most decisions need more than just predictions
 - Descriptive analytics and statistics
 - Rules and decision logic
 - Data mining
 - Predictive analytics
 - Machine Learning
 - Al



Use a decision model to mix and match

Define Better Decisions Make Analytics Actionable With Business Rules





A Recent Analyst Report

- Enterprises waste time and money on unactionable analytics
- Digital decisioning can stop this insanity
- Institute a culture of digital decisions-first design thinking
- Think of digital decisioning as the nexus of business rules, data, analytics, and machine learning models.
- One smarter, automated decision can be worth millions in terms of customer acquisition, retention, and/or operational efficiency



The Dawn Of Digital Decisioning: New Software Automates Immediate Insight-To-Action Cycles Crucial For Digital Business John R. Rymer and Mike Gualtieri

The Bottom Line



Analytic teams are done when the business changes its decision-making in a way that creates business value

and not before

Be a Hero Make Analytics Actionable and Acted On





- **Decisions First**
 - Know what decision you are improving
- Let The Experts Speak
 - Let them tell you how they decide
- Adopt Business Rules
 - Partner with IT to adopt business rules technology
- Analytic Don't Stand Alone
- Remember, it's all about decision-making
- Change The Business
 - Measure analytic teams on business value added





If you have further questions or comments:

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Thank You

For more on Decision Management, go to: decisionmanagementsolutions.com