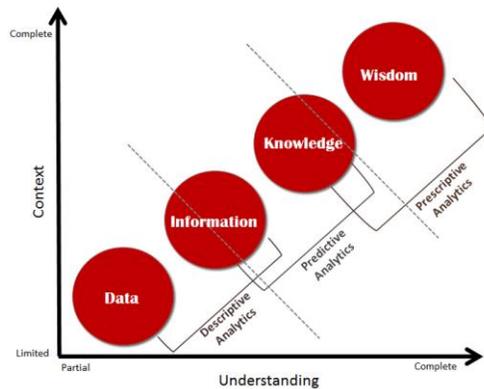


past success or failure. This is the focus of the majority of business intelligence implementations

- **Predictive Analytics** deals with extracting information from data and using it to predict trends and behavior patterns. Often the unknown event of interest is in the future, but predictive analytics can be applied to any type of unknown whether it is in the past, present or future. The emerging application of predictive analytics in the Public Sector includes:
 - *Fraud Detection*—leveraging compute on demand and data correlation using map reduce, to identify patterns of behavior that indicate fraud.
 - *Risk Management*—the application of statistical models, at scale, against multiple data sources to predict risk exposure levels.
 - *Customer Relationship Management*—the use of analytic tools against the corpus of data to understand and anticipate customer interactions.
 - *Decision Support Systems*— to develop decision logic or a set of business rules that will produce the desired action for every customer or circumstance. These models can be used in optimization, maximizing certain outcomes while minimizing others.
- **Prescriptive Analytics** synthesizes big data, mathematical and

computational sciences, and business rules, to make predictions and then suggests decision options to take advantage of the predictions. It uses modeling and simulation techniques to continually test hypotheses and recommend suitable courses of action. This enables a human to provide judgment via the application of computational power to filter large, complex data sets into a relevant context.

- **Data, Information, Knowledge, Wisdom.** This Knowledge Management model provides an overall context for the maturation of data and the appropriate analytic. Most Government organizations are in the lower right with aspirations to move into the middle.



Conclusion

The opportunities of Big Data can be realized through an abstracted understanding that simplifies the solution. Big data is not a re-boot but a natural evolution.

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