



IBM Business Analytics Showcase

06 March 2013



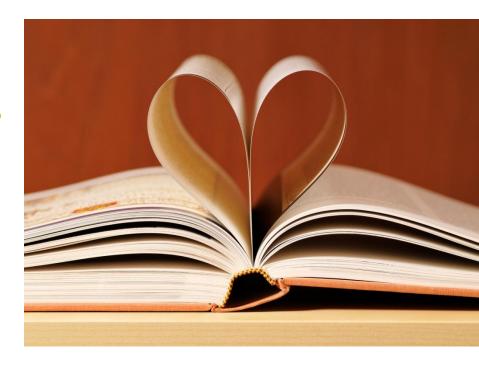


AGENDA

Time	Description
09.00	Welcome
	Michael Baker, Business Analytics, IBM
09.15	Best Practices in Implementing Business Analytics
	Danny McConnell, Partner, Deloitte MCS Limited
09.55	Delivering Cognos BI 10 dashboards to put organizational focus on What Matters Most
	Peter Mckenna, Business Intelligence Manager, Telefonica O2 Ireland
10.35	Panel Discussion and Q&A
10.55	BREAK
11.15	Attend one of the following IBM Business Analytics Software in Action break out sessions
	Business Intelligence & Advanced Analytics Track: What's new in IBM Cognos Business Intelligence 10.2
	This session will highlight what's new in IBM Cognos Business Intelligence 10.2, including:
	IBM Cognos Insight desktop analytics enhancements
	■ What's new for report authoring & consumption
	Cognos Workspace (formerly Business Insight)
	Dynamic Cubes for large data volumes
	Performance Management Track
	This session will demonstrate the usage of software capabilities in a real-life situation, including;
	How users can consume and interact with data both online and offline
	Creating personalised workspaces covering all time horizons
	Creating predictive models to determine better use of resources
	Personal analysis and exploration of data
	Best practices in budgeting such as high participation and high frequency planning
12.30	LUNCH

Deloitte.

Best Practices in
Implementing Business
Analytics



Contents

- 1. Introduction
- 2. What do we mean by Business Analytics?
- 3. How do you build the business case?
- 4. How do you deliver analytics?
- 5. Where do you start?
- 6. Conclusions
- 7. Q&A

1. Introduction

- Danny McConnell
- · Partner in Deloitte
- Career covering science, accountancy and technology
- Focused on analytics
- Worked with IBM for past 15 years

2. What do we mean by Business Analytics?

Gartner (February 2013) defines Business Intelligence & Analytics as a software platform that delivers on 15 capabilities across three areas as follows:

1. Integration

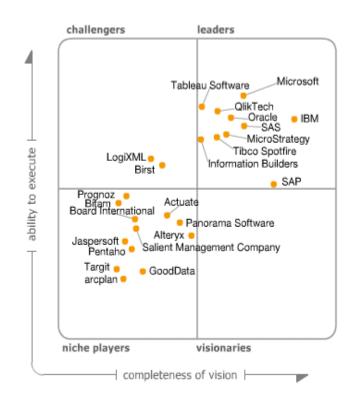
- BI Infrastructure
- Metadata Management
- Development tools
- Collaboration

2. Information Delivery

- Reporting
- Dashboards
- Ad Hoc query
- Microsoft office integration
- Search based BI
- Mobile BI

3. Analysis

- OLAP
- Interactive visualisation
- Predictive modelling and data mining
- Scorecards
- Prescriptive modelling



3. How do you build the Business Case?

What are the key considerations?

- 1. Key considerations include:
 - Business Sponsorship
 - Impact on the business
 - Understanding the costs and benefits
 - Understanding the risks
 - Planning ahead

Three potential delivery mechanisms to explore:

- In House Competency Centre
- Software as a Service
- Managed Service

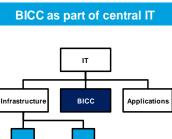
In House Competency Centre

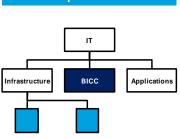
Four Models illustrated being:

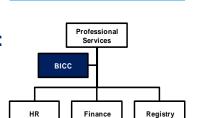
- BICC as part of central IT
- Virtual BICC
- BICC within professional services
- Distributed BICC

Aspects to consider in selecting a model:

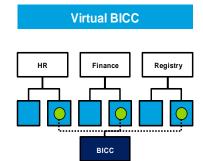
- Availability of in-house resource
- Availability of required skills
- Acceptability of proposed model
- **Data Governance**
- **Talent**



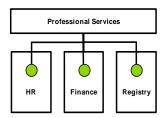




BICC within Professional **Services**







Software as a Service (SaaS)

The SaaS value proposition:

- Lower cost lower up front costs and lower ongoing costs
- 2) Faster deployment times substantially faster than traditional systems
- 3) IT staff freed up to focus on more strategic initiatives

What is "multi-tenant" SaaS?

 All clients on same release of source code at the same time

The <u>incremental</u> value proposition:

- 1) All vendor R&D invested in a single version
- 2) One bug fix is applied to benefit of all clients
- Community of clients can share report and interface templates



Managed Service

Key considerations relating to analytics via a managed service arrangement:

- 1. Do you have a clear understanding of what you are looking for?
- 2. Do you understand the impact of an analytics application on your business?
- 3. Do you have the appropriate resources internally?
- 4. Do you have the required capital available for investment?
- 5. Is there an organisation in the market that provides the application or solution that meets your business need?
- 6. What is the commercial model?
- 7. Who owns the IP relating to the application?

All about the business

- 1. What is the business issue that you are looking to use analytics solve?
- 2. Illustrate with four examples:
 - UK National Health Service
 - UK Higher Education Institution
 - Global Media Company
 - Global Consumer Business Company

UK National Health Service

The Business Challenge

The NHS has over 1.4 million staff, and an annual budget of £100 billion GBP. Over the next 4 years the NHS being challenged to maintain and increase quality and safety whilst:

- · demographic pressures of a growing and ageing population increase demand
- budgets are being reduced by around 20% over the 4 year period

As roughly 65% of the current spend is on staffing costs, much of these efficiency and produimprovements must come from fundamental workforce reconfiguration.



The Solution

Our work was designed to use data analytic techniques to create an evidence based workforce productivity programme focused on improving quality as well as efficiency. Our solution used advanced predictive modelling to assess areas of 'risk' within workforce configurations and highly where alternative configurations may deliver both quality and efficiency benefits.

The key challenges the project faced included:

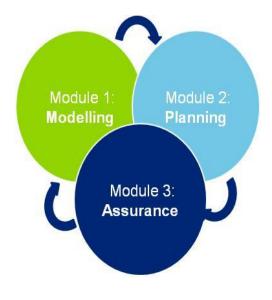
- The need to reduce workforce spend, whilst maintaining quality, and ensuring the focus remained on outcomes.
- Integrating data traditionally looked at in silos with largely manual processes: collaboration across Workforce, Finance, Activity, Quality and Safety was low.
- Different ways of working across the country: determining best practice and meaningful benchmarking were difficult.
- Reactive, short term focus, rather than the desired, proactive, long-term focus.
- Inability to easily see the effects of altering patient pathways, or setting specific outcome measures, and the impact on workforce
- Lack of understanding of the planning process, and what this means in specific areas of the
 organisations.

UK National Health Service

The Modelling Module supports long term strategic planning by enabling:

- · Advanced scenario planning
- Use of a series of different 'lenses' through which to consider demand
- Modelling of future workforce supply based on current workforce



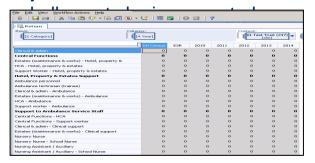


The Assurance Module supports operational risk management through:

- Predictive modelling of future performance
- Tracking of performance against planned target levels
- Assessment of 'risk' of deviation from a series of best practice business rules
- Benchmarking both within and across organisations within your portfolio of responsibilities
- Workforce to manage the response processes to ensure insight translates into action

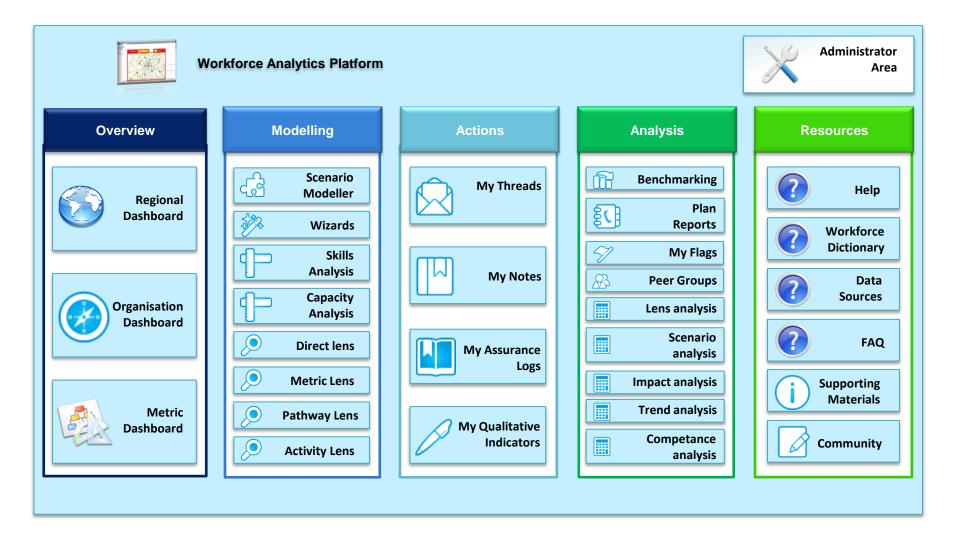
The Planning Module supports complex distributed planning activities by:

- Providing a consistent set of assumptions / templates to underpin planning rounds
- Automating the process of departmental plan capture and aggregation
- Managing the review and approval cycles to enable feedback and





UK National Health Service



Higher Education Institute

The Business Challenge

This client wanted to make strategic choices regarding the preferred student profiles to target and recruit, where to expend marketing and branding effort and how to maximise retention of enrolled students and provide the best on campus student experience.

The Solution

- Client data was enriched by incorporating additional data assets like geo-coding data and Census data
- Social Network Analysis was conducted to establish the connections between the various students

The Value Delivered

- Findings provided the University direction on where to focus their efforts to improve student retention, performance, and satisfaction
- Data-Driven foundation was created to tailor marketing and recruitment strategies to achieve significantly improved student outcomes.

Higher Education Institute The output (from a limited data source) will provide the 30"000 ft overview of the student cohorts in each cluster, and the ability to deep dive into each cohort cluster to a detail level of "one student"; Customer = 1. C6: Model Internationals C1: Successfully C2: Bread & Butter C12: Mature Part timers International students living Graduated The "average" student Mature age students on Campus with above Students that have with large social studying part time with networks, HECS and average marks, satisfied and graduated, marks above average marks and small graduated; very unlikely to social networks average happy churn C 12 C4: Star Students C3: International social Students with the highest hangovers average marks and most School 4 internationals with HDs low marks, stay beyond first year. Many pick up the slack in year 2 C7: Future Concerns C8 Students from Schools 1 and 2, Excellent response rate to surveys but unhappy. C8: Strugglers Low chance of churn Students with lowest marks C 5 and struggling (Fail average) C 10 C 11 C9: Not Happy (Jan) Australian students with C11: Churners C5: Disengaged C10: Rebels good marks, dissatisfied. Students most likely to churn Anglo Saxon students Aggressive responsive and a high proportion with poor results that don't care and students on surveys with reaching graduation. Least generally don't complete above average marks likely to churn unlikely to churn surveys

Global Pharmaceutical Company

The Business Challenge

This client wanted to understand the following three aspects of their business:

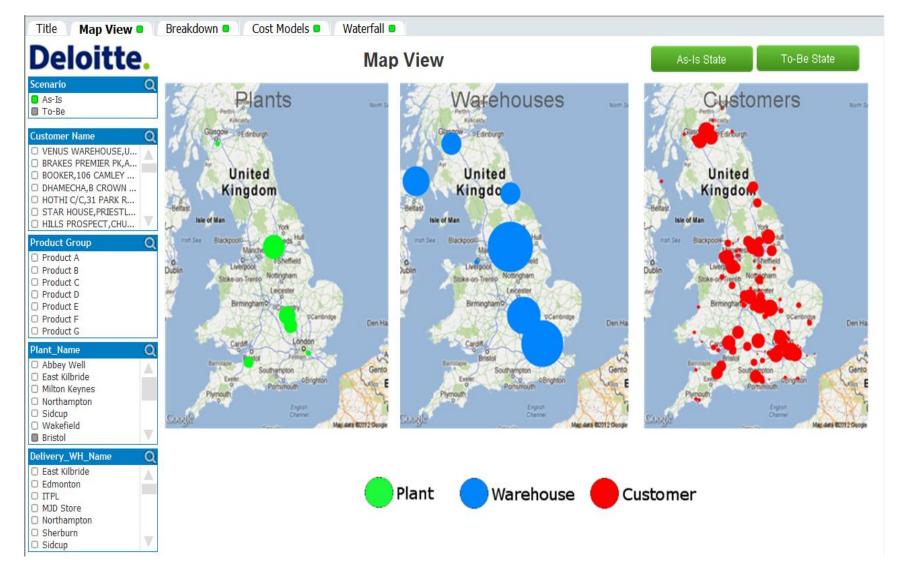
- 1. That the digital assets that they own are maintained in line with compliance requirements and other areas of governance.
- 2. Given the regulated environment in which they operate they need to understand how people are using their products in the digital space
- 3. They wanted to understand what people are saying about them

The Value Delivered:

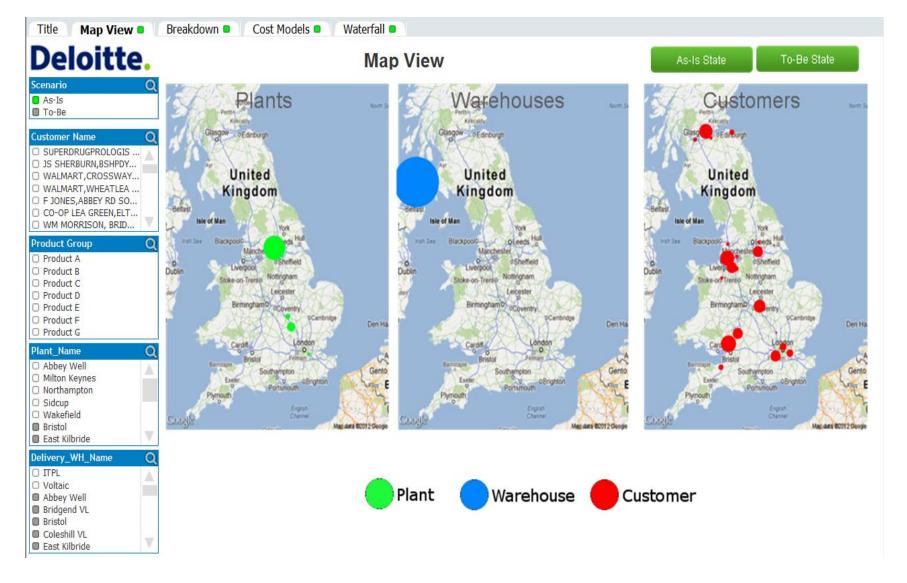
- Estimated 1000 owned/controlled digital activities,
- Only 30% of these appeared in the top 50 search engine results
- Accountability was not established for nearly a half of digital activity,
- Significant exposure to regulatory risks given industry's highly regulated policies and compliance laws



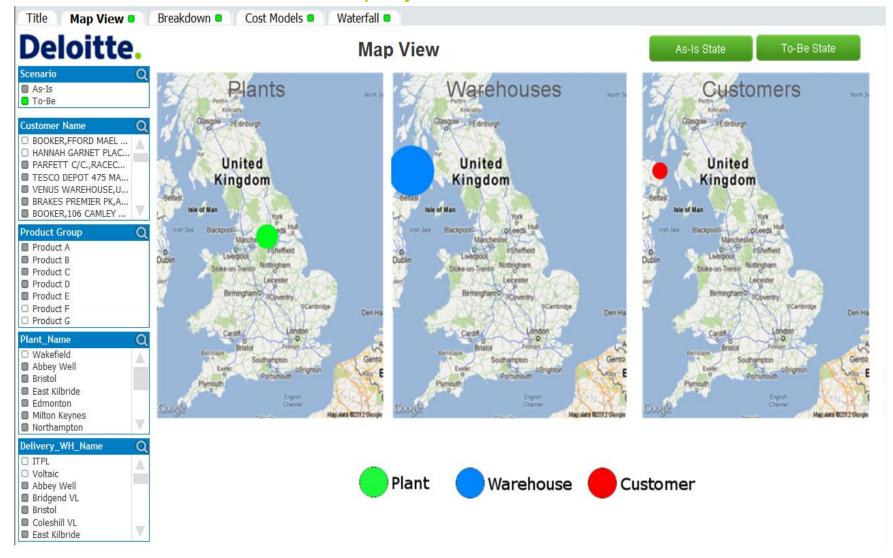
Global Consumer Business Company



Global Consumer Business Company



Global Consumer Business Company



6. Conclusions

- 1. Clearly articulate the business issue that you are trying to address
- 2. Understand the impact of "lifting the stone"
- 3. Carefully select the right analytics technology
- 4. Prepare for evolution

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