

Smart Analytics for Utilities

Accelerate the realization of value



People matter, results count.

Smart Analytics: an Accelerator

Capgemini's experience suggests that using our Smart Analytics offering can shorten the time for requirements definition and development.

A host of Smart Analytics artifacts will be used to facilitate this acceleration, namely:

- Industry KPI libraries
- Logical, Physical & Semantic data models
- Metadata layer mappings (supported by SAP® BusinessObjects™ BW Universe Builder software)
- Report & Dashboard templates

The Challenge

Utilities worldwide are facing transformational pressures as diverse as regulatory reform, fossil fuel conservation, energy price volatility, environmental concerns, aging grid infrastructure and out of date information technology. We believe that a utility's journey to a 'smarter', more agile enterprise relies on how it uses the information it collects. Dynamic business needs will force utilities to identify trends, present insights and make decisions based on information that crosses organizational boundaries. Historically, utilities have often kept their data compartmentalized within functional organizations for the sake of efficiency.

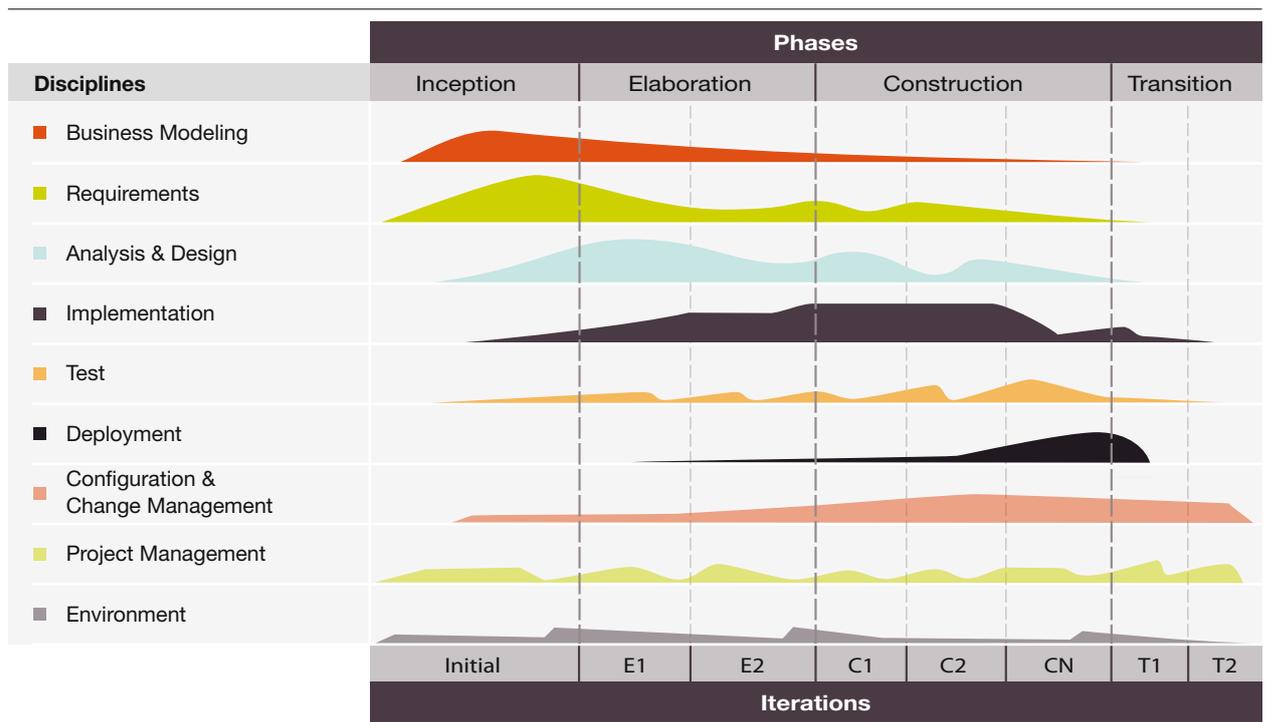
In such data silos, however, crossfunctional analysis becomes difficult and slow. Voluminous new data from 'smart' devices in the transmission and distribution networks will exacerbate the challenges in storage, analysis and actionable reporting. Add to this the potential for regulatory fines, there is no dearth of drivers for utilities to organize and analyze their data in a structured and strategic manner.

The Solution

Smart Analytics is a new Business Intelligence (BI) solution for utilities that are preparing to deploy or are already implementing smart meters and smart grids. This solution provides an accelerated platform to analyze and gain maximum value from the complex data generated in utilities' organizations, or by their Smart Grid and Advanced Metering Infrastructure (AMI) deployments.

Capgemini has partnered with Teradata to use its industry-leading utilities Logical Data Model (uLDM) to serve as a foundation for this solution. To reduce the time to develop analytical capabilities, Capgemini has developed a set of pre-built data models (logical and physical), reports and dashboards. Capgemini's experience suggests that using Smart Analytics accelerators can shorten the time to deliver value compared to a typical Greenfield project.

The Global Business Information Management (BIM) practice in Capgemini brings proven methodologies and a successful record of delivery. This is combined with extensive experience in the utilities industry focused on 'Smart' deployments.



The Benefits

Capgemini and its partners have seen significant benefits realized by utilities that adopt such solutions. Some examples of value realized are:

- a significant reduction in regulatory compliance reporting lead time
- marked improvements in corporate collections via improved analysis of Commercial & Industrial (C&I) accounts and their invoicing
- reduced analysis time from one week to less than one day for revenue assurance analysis and identification of non-recording meters to meter investigation.

Besides the benefits to the business, Smart Analytics reduces the overall cost of implementing BI solutions at utility clients by accelerating the requirements definition, data modeling and development processes. The technical risk of execution is reduced by leveraging Capgemini's key partner alliances with Teradata Corporation and SAP AG for industry-leading technology and domain expertise.

Our Methodology

Our Global BIM methodology is based on the industry standard Rational Unified Process (RUP) framework, but has been modified significantly to cater to the unique challenges of BI and data warehousing projects. Our methodology has two key objectives:

- firstly, it is intended to provide a common framework for executing BI projects at Capgemini worldwide
- the second and inter-related objective is the ability to apply Distributed Delivery to BI projects in a way that optimizes the use of offshore location capabilities and so delivers competitive, cost-effective solutions while maintaining an acceptable level of project risk.

Research has shown that the main obstacle impeding successful Distributed Delivery is communication. A common framework should significantly contribute to alleviating misunderstanding and misinterpretation of deliverables, tasks and responsibilities between onshore location associates and offshore location associates and foster effective collaboration.

Capgemini Business Information Management

Capgemini's focus on BIM presents a comprehensive approach to delivering actionable insight from your corporate data assets. Providing technology expertise and service excellence at every stage across the information lifecycle, BIM is an end-to-end engagement model that ensures information availability is mapped intimately to operational demand. From devising a practical information strategy to implementing a range of best-of-breed technologies selected to meet your unique requirements, the information infrastructure is optimized. As a result, tactical and strategic decision making is directly supported by accurate, timely intelligence available at the point of need, providing you with the agility and responsiveness demanded in today's marketplace.

Enterprise Delivery Model & Rightshore®

Capgemini has a unique approach to industrializing the delivery of BIM, based on a Center of Excellence concept that engages both business and IT in managing information assets. To support the rapid delivery, cost-effectiveness and quality of the BIM solution, we have developed a range of solution accelerators that draw upon the accumulated experience of our business, technology and service delivery experts gained on numerous strategic projects. The approach also takes advantage of our Rightshore® model using a balance of local, near and offshore resources to deliver a

comprehensive but affordable solution.

Capgemini Business Analytics

Capgemini's Business Analytics global practice network is a core unit within the Business Information Management (BIM) global service line and operates in 25 locations across the world, drawing on a database of over 100 analytics client credentials and analytical models. It provides high-function analytics-based solutions to all major industry sectors and business functions.

Capgemini has over 7,000 consultants working in BIM across the world. We work with all the leading big data and analytical technologies, and provide services to support business analytics from high-level strategy to managed outsourced services. We recognize that analytics are specific to industry sector and sub-sector, and have experts and solutions for each one.



About Capgemini

With around 120,000 people in 40 countries, Capgemini is one of the world's foremost providers of consulting, technology and outsourcing services. The Group reported 2011 global revenues of EUR 9.7 billion.

Together with its clients, Capgemini creates and delivers business and technology solutions that fit their needs and drive the results they want. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

Rightshore® is a trademark belonging to Capgemini



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For further information contact us at bim@capgemini.com or visit www.capgemini.com/bim