

ARYAVRAT INFOTECH INC.

THINK TECHNOLOGY, THINK US

BI & DW Profile





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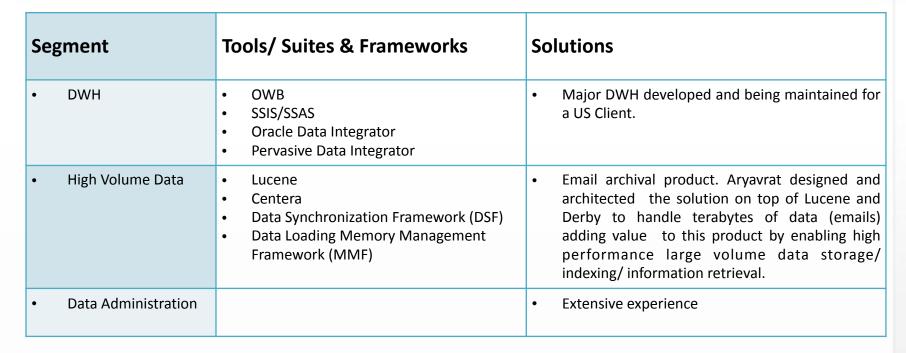
Business Intelligence

Segment	Tools/ Suites & Frameworks	Solutions
Business Intelligence	Microsoft - BI	 Implemented customized-BI on Microsoft Project Server. MS-BI solution designed for a global e-tailer in jewelry industry Solutions created and implemented using SSIS (SQL Server Integration services), SSRS(SQL Server Reporting Services), and SSAS (SQL Server Analysis Services)
	• Tableau	Developed a BI Dashboard for Retail Industry.
	Custom BI	 Aryavrat has custom developed operational business intelligence software product which addresses the need for immediate action on business events in real time. Product comprises of self service dashboards. Work included developing high performance event correlation and analytics engine that produces real time metrics, real time alerts. KPI's, etc.





Data Management







Case 1: Large BPO Service Provider - USA

Client Description:

Amongst the major BPO services providers in USA servicing Fortune 500 clients.

It has more than 40,000 committed professionals around the world.

Aryavrat continuously working with them since last five years.

Professional Services Rendered:

Requirement Analysis.

Functional and Technical Documentation.

Complete ETL Services using Pervasive, OWB and PLSQL.

Process configuration for the chain and the individual process.

Post development, monitoring of process and data validation.

Development of audit process.

24x7 production support for the critical chains

Collaborative Research activities over the new tools and technologies for the client.

Tools and Technology:

PLSQL, Pervasive, OWB and SSIS.

Benefits:

Significant efficiencies. (As per client Aryavrat team consistently delivering before time.)

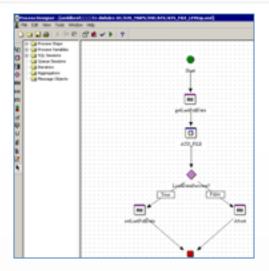
Developed Generic solutions (Tools) for the clients to manage multiple concurrent ETL processes and PLSQL Packages to convert OWB to PLSQL Code, etc.





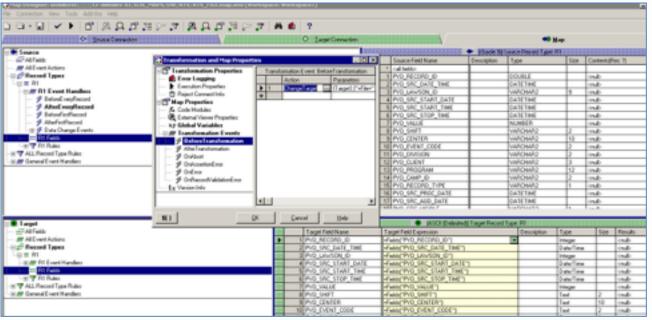
Tool: Pervasive Data Integrator





Process Control:

Defining control flow of package



Map:

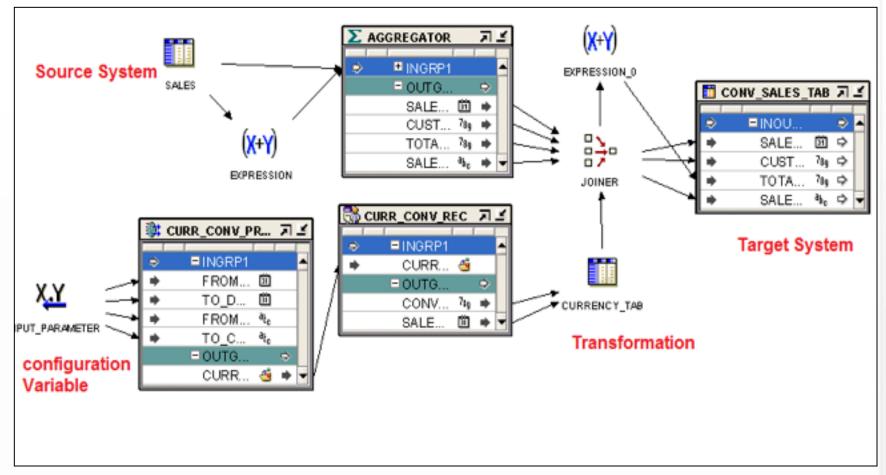
Defining Source, Target, Events and VB Scripts codes





Tool: Oracle Warehouse Builder

OWB Map: Loading data from source to target using different transformation.

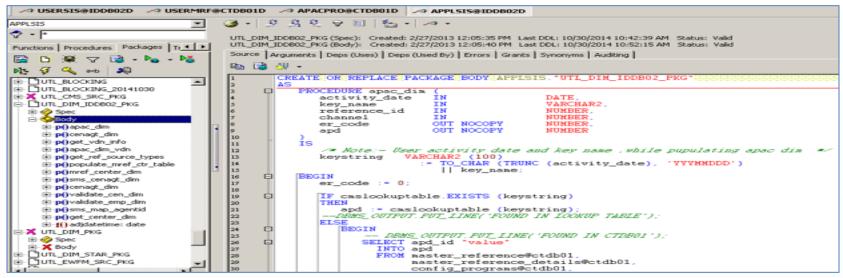




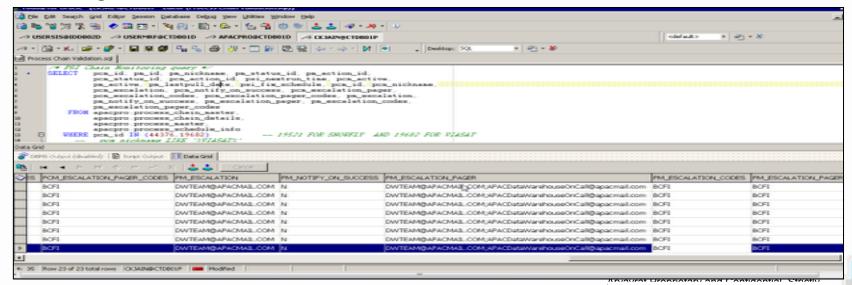


Tool: SQL & PL/SQL Codes

PLSQL Code for Lookup Dimension:



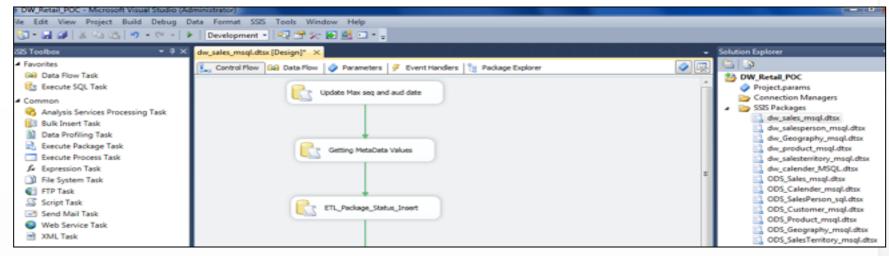
Monitoring Critical Chain:



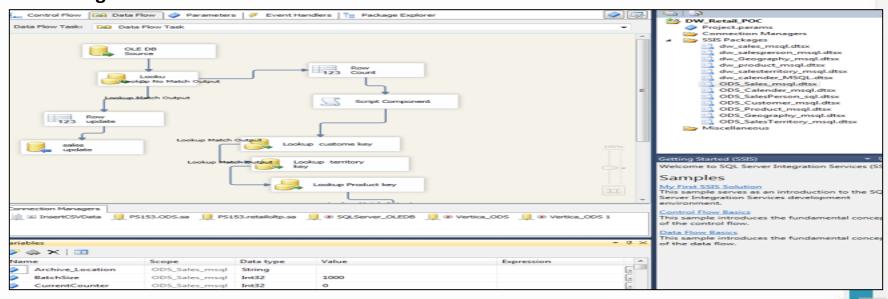


Tool: SQL Server Integration Services

SSIS Package: Control Flow



SSIS Package: Data Flow





Case 2: Fashion Retail Merchandiser



Client Description:

- Delivers next-generation People-Process-Technology solutions & services to complex supply chain organisations.
- Delivers measurable improvements in Plan-to-Purchase, Purchase-to-Pay and Order-to-Cash enterprise business processes affecting merchandising, supply chain, sales & operations and IT.
- Aryavrat developed a BI Solution for them using Tableau Tool to highlight Retail Fashion Industry.

Professional Services Rendered:

- Mapped data into Tableau tool.
- Designed calculated functions.
- Designed sheets and Dashboards.
- Implemented global & local filters and dynamic parameters.
- Configured KPIs.

Tools and Technology:

Tableau and MySQL.

Benefits:

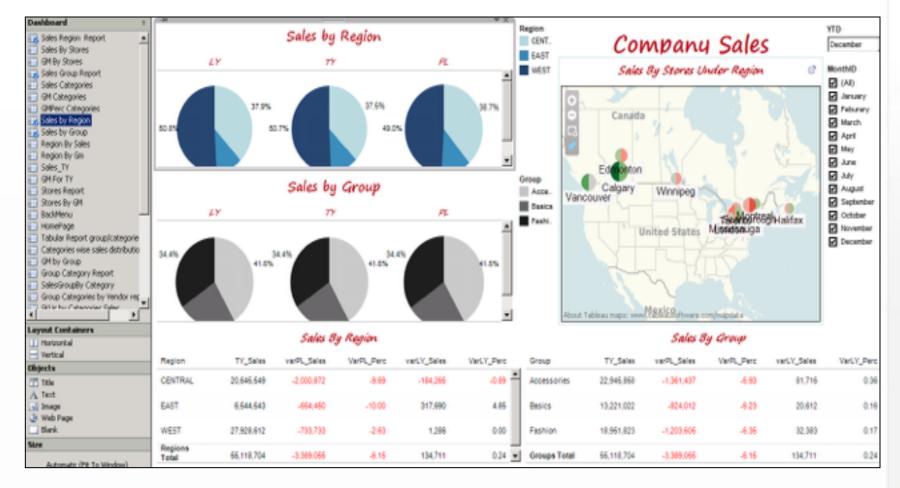
- Aryavrat designed impressive dashboards with minimum client inputs.
- Improved the performance of data by implementing aggregate tables and indexes to support Tableau.
- Developed visually appealing and meaningful reports depicting various graphs, trending and blending.





Tool: Tableau Screen 1

Sales Dashboard on Company Performance:

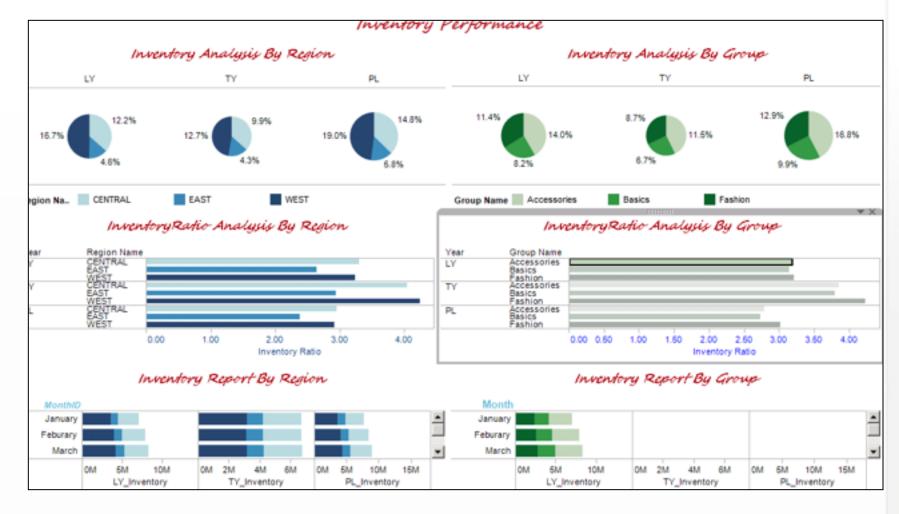






Tool: Tableau Screen 2

Inventory Dashboard by Group and Region:





Tool: Tableau Screen 3

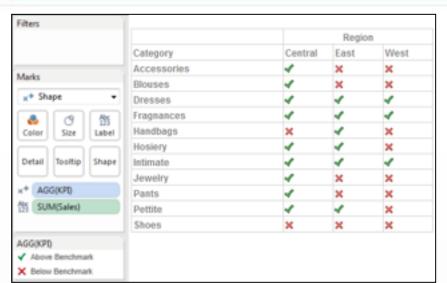
Sales and GM Report with Conditional Formatting:



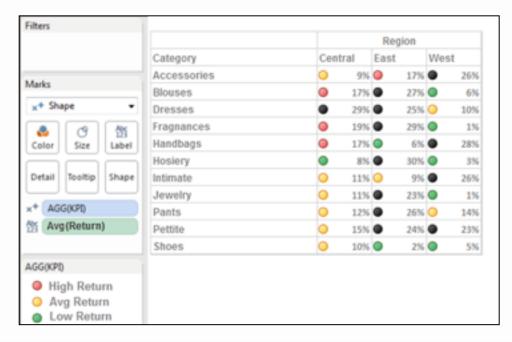




Tableau: Screen 4 (Implemented KPIs)



Sales KPI Above Expectation Below Expectation



Sales Return KPI High Returns Average Returns





Case 3: Real Time Business Intelligence



Client Description:

- Provides real-time business intelligence and business activity monitoring solutions.
- Software enables users to continuously monitor key performance indicators(KPIs) for business
 results, such as profit and loss; external conditions, which include client behavior, market
 movements; internal business processes and operations; get instant alerts on out-of-boundary KPIs;
 and identify root cause and trends immediately; and analyze and determine corrective action swiftly.
- Aryavrat developed product to design BI solutions in partnership with USA based development company.

Professional Services Rendered:

- Wrote various modules.
- Tested the whole application.
- Deployed with customizations at various end client locations.

Tools and Technology:

Eclipse, Java and Flex.

Benefits:

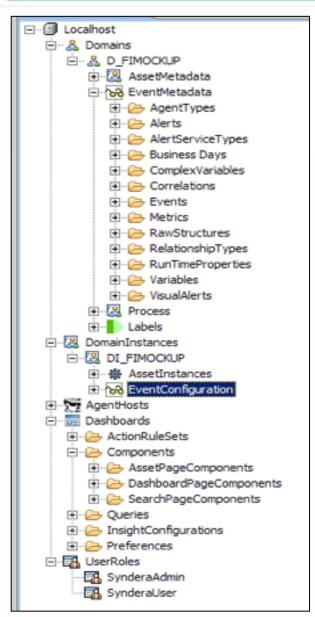
- Provided end to end solution.
- Fully customizable with any database / file types like flat files, etc.
- Facility for the customizable events.
- Real-time generation of metrics over the dashboard.
- Provide various graphs and charts for the end users to create dashboard.





Real Time Business Intelligence - Architect





Design Objects

Raw Structures

 Represents the native event source (e.g. message, xml, delimited string, etc.)

Syndera Events

 Basic (canonical) visibility object for processing by the Syndera Correlation Engine

Business Days

Ability to define a metric business day for metric rollover purposes

• Correlations and Event Relations

 A set of event relations that define the conditional correlation between sets of events

Metrics

 An aggregation object that can compute metrics on a scheduled, windowed or realtime basis (e.g. count, avg, std dev, custom, etc.)

Alerts

Content and channel of an alert message

Dashboards

 Metadata management of metrics and alerts to configure visualizations

Derivation Spec

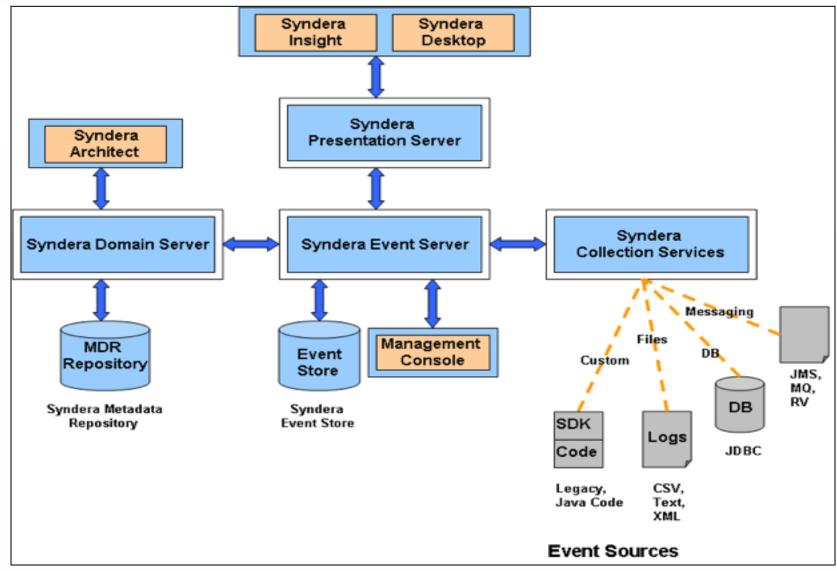
 Used to express the condition, mapping and transformation between visibility objects





Real Time Business Intelligence - Architecture



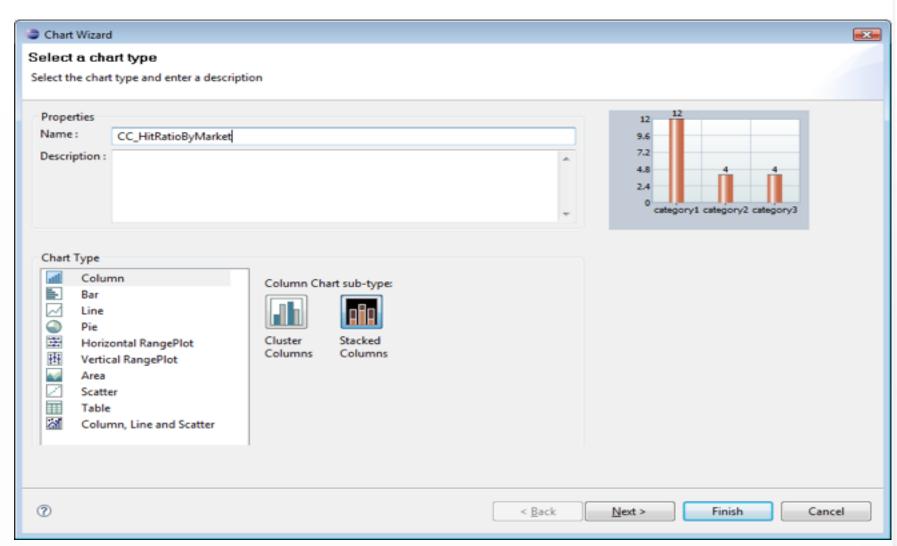






Development of Dashboard Chart

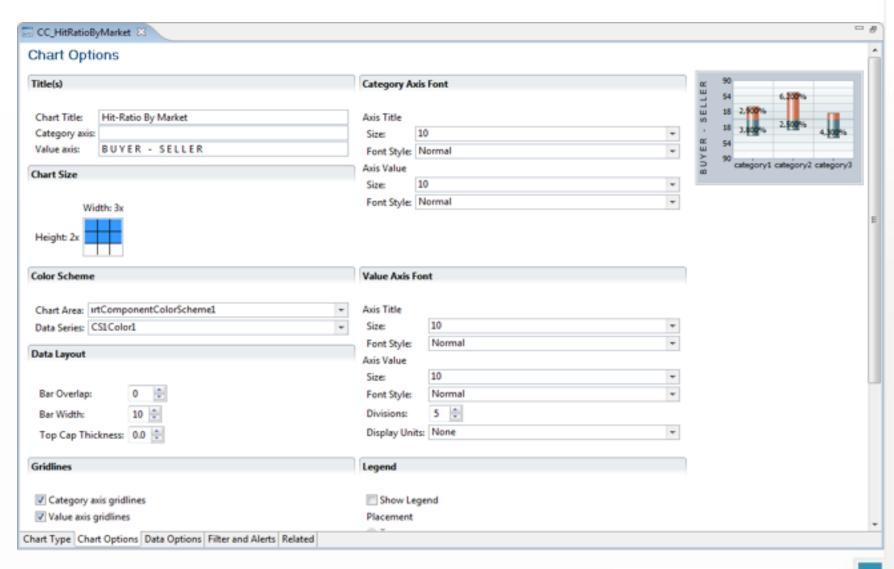
Customization of Chart:





Editing of Created Chart

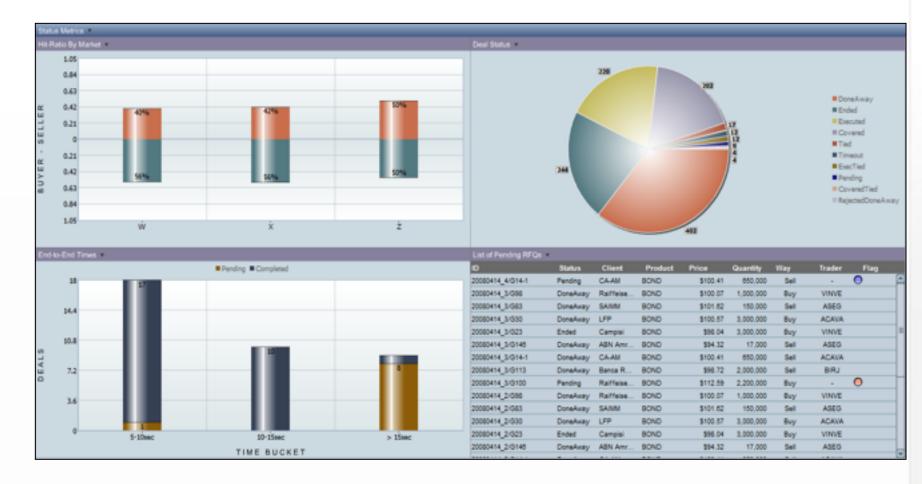
Customization of Chart:





RFQ Status Charts

Dashboard Developed through Tool:







Case 4: Business Intelligence System



Client Description:

- Reputed for their various internationally acknowledged products.
- Web based BI application to cater application users providing their data in different formats.
- Perform analysis on the data and generates different reports & charts.
- Aim was to provide a common platform for different sectors uploading & analyzing market trends.

Professional Services Rendered:

Developed a website using different tools and technologies to cater BI.

Tools and Technology:

Windows, Apache, MS-SQL, PHP, Zend Framework, Doctrine ORM, AJAX, JQuery and Eclipse.

Benefits:

- User can input data and analyze the information.
- Runtime graph analysis.
- Analysis of the information on geographical graphs.
- Application supports multiple currencies.
- Export feature in different formats like PDF, JPG, CSV, XML, etc.





Business Intelligence System – Screen 1

GUI based graphs

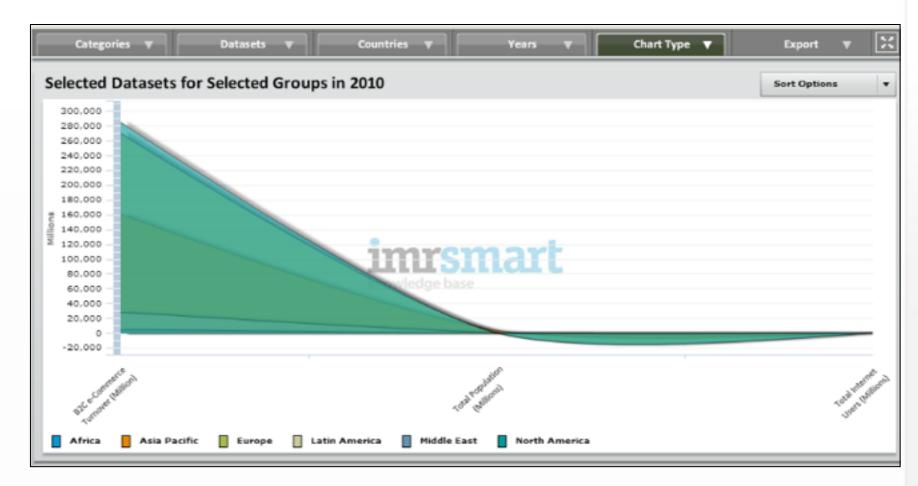






Business Intelligence System – Screen 2

Can select different chart type to analyze information

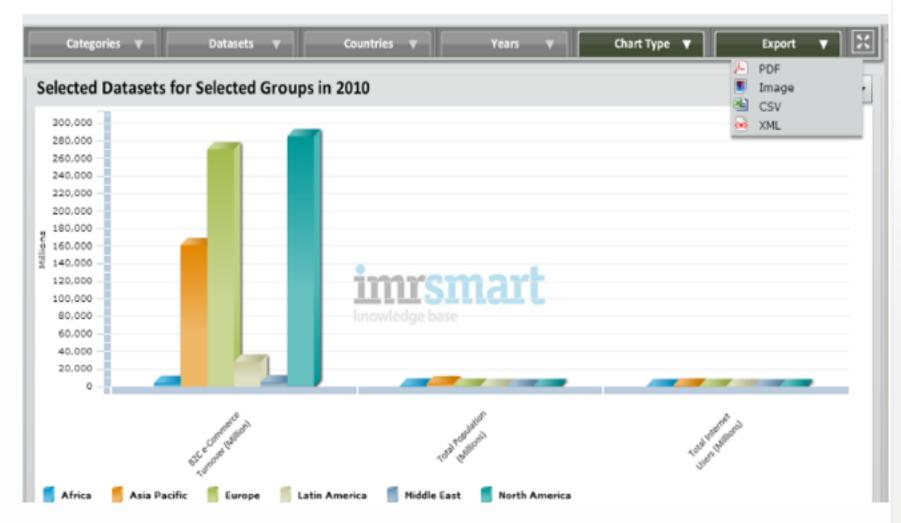






Business Intelligence System – Screen 3

Export Functionality







Case 5: Research & Analytics Provider



Client Description:

• Client is a reputed USA based firm dealing in the market research in the pharmaceutical domain.

Professional Services Rendered:

- Developed web based solution for the market research before introducing new or enhanced drug.
- It involved segmentation, equations, share analysis, volume conversion, sensitivity analysis & forecasting.
- 100% Encryption / DE encryption of Data using Public and Private Keys.

Tools and Technology:

Java/J2EE, Jasper Reports and MySQL.

Benefits:

- Project creation for setting up project in terms of indications / geographies / scenarios.
- Definition of indication / geography / scenarios, forecast horizon.
- Determination of building forecast, valuation or both.
- Segmentation for defining the patient flow or segmentation within context of EPI and/or target patients.
- Determination of epidemiology structure and segmentation.
- Definition of target patient pool. Product share for estimation of product share and uptake by product / class / regimen.
- Definition of competitive environment.
- Estimation of product / class / regimen shares via share analysis methodologies, etc.





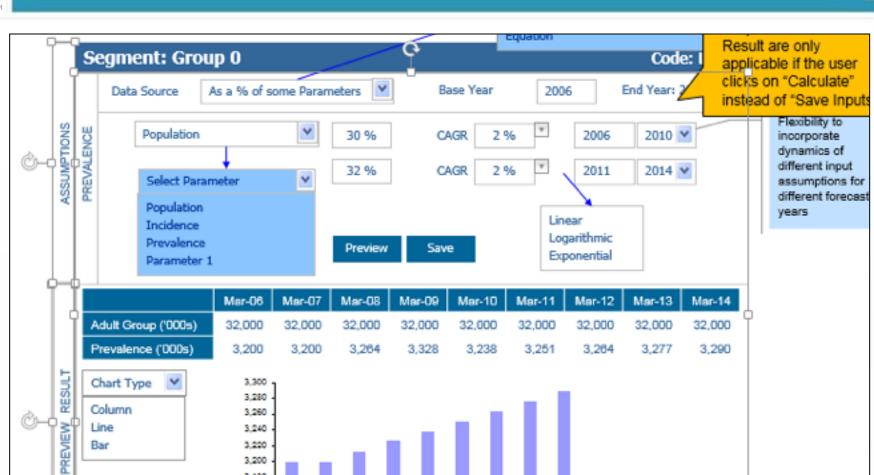
Screen 1: Data Extrapolation

Bar

3,220 3,200 3,180 3,160 3,140

2006

2007



2009

2008

2010

Prevalence ('000s)

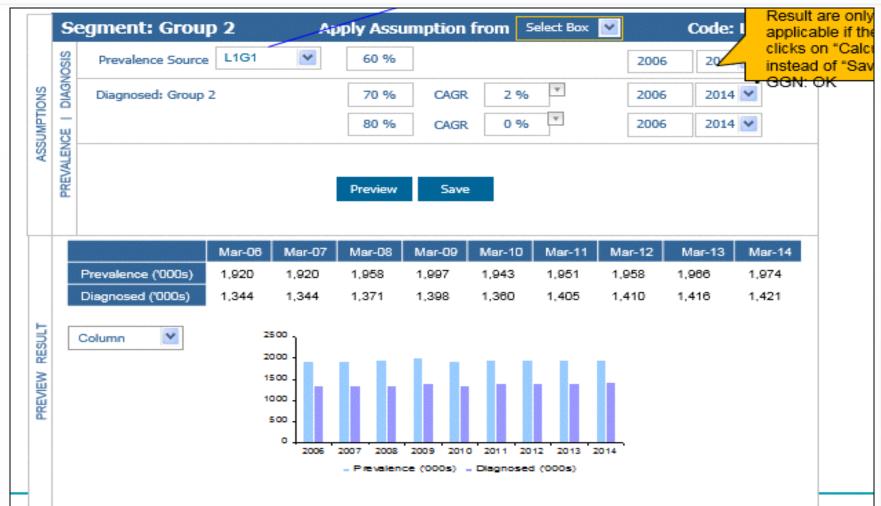
2011 2012

2013





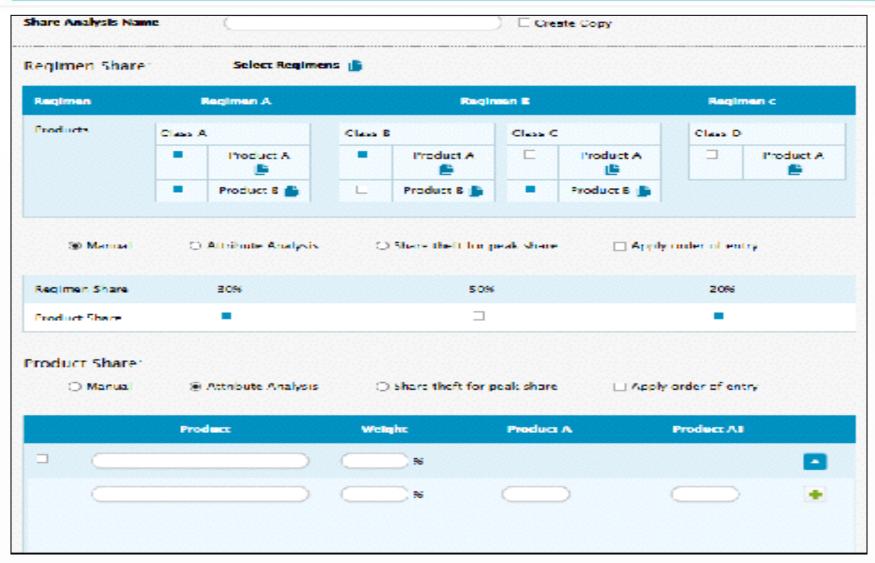
Implementing CAGR on Child Nodes







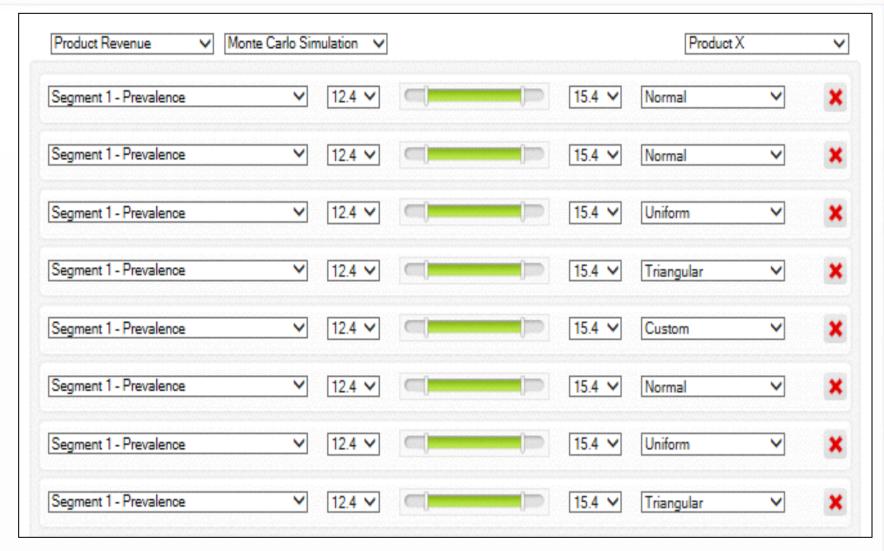
Share Analysis







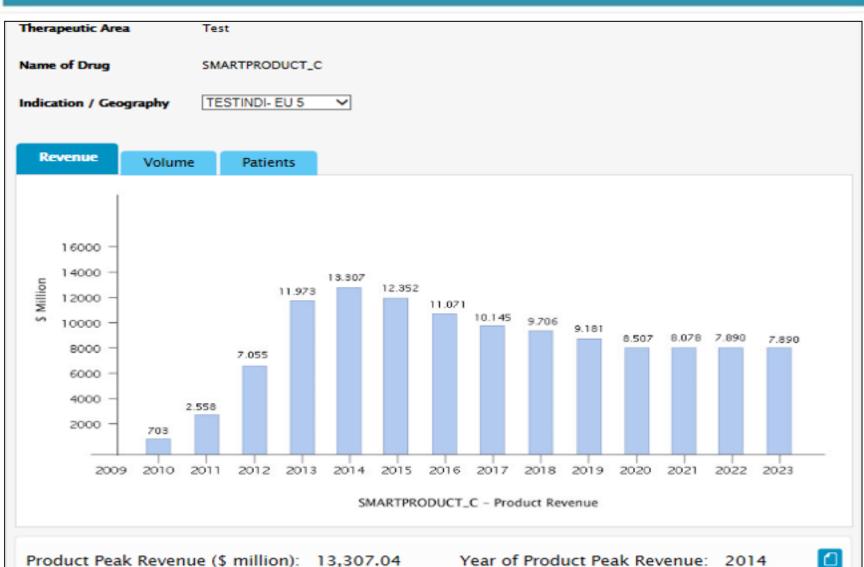
Implemented Monte Carlo Simulation







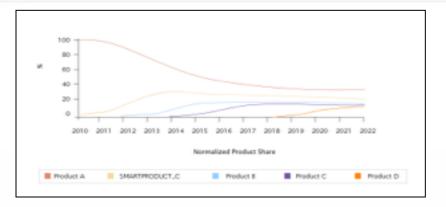
Reporting Page

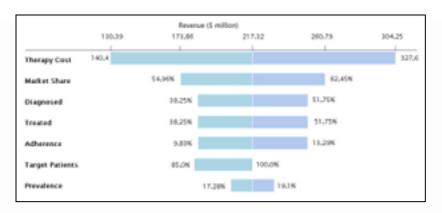


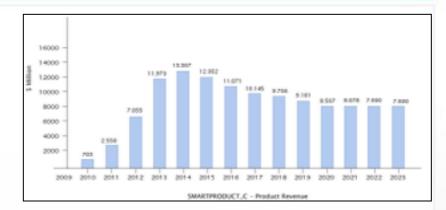


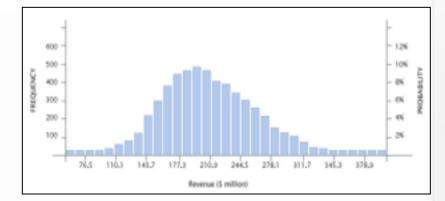


Graphical Reports















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