

An Irish SME's view of Big Data Analytics



ASYSTEC

DATA MANAGEMENT SOLUTIONS

Taming the Digital Dragon

The 2014 CIO Agenda



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Gartner

"My business and its IT organization are being engulfed by a torrent of digital opportunities. We cannot respond in a timely fashion, and this threatens the success of the business and the credibility of the IT organization."



51%
Agree

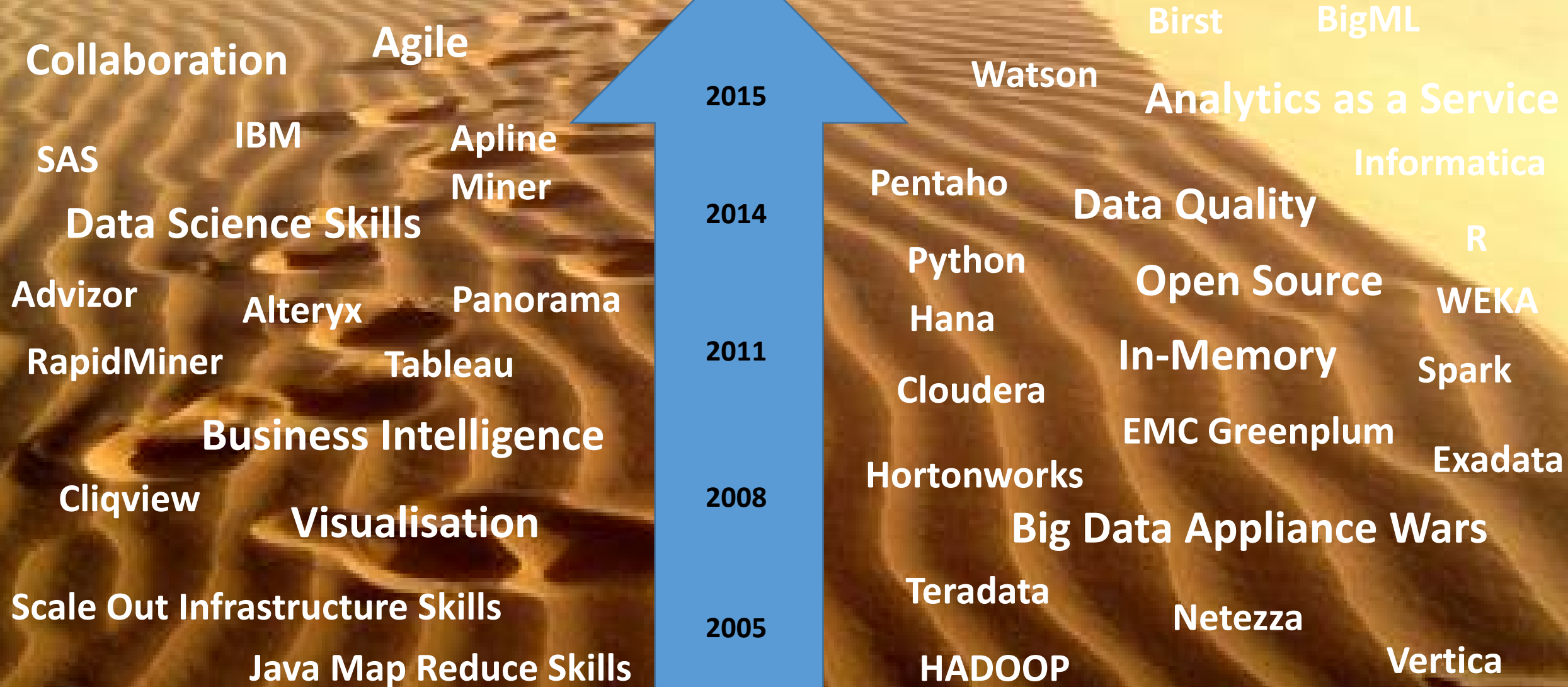


42%
Disagree



"The IT organization has the right skills and capabilities in place to meet upcoming challenges."

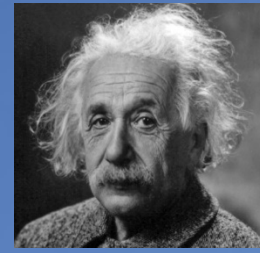
Technology Choices





Revenue

ROI



Scaleout

Skillsets



Gartner Response

IT Industrialization

Digitalization

Create powerful digital leadership.

- Clear digital roles
- Savvy digital executives
- Digital vision & digital legacy

Renovate the core of IT.

- Cloud/Web-scale infrastructure
- Information
- Talent
- Sourcing

Build bimodal capability.

- Agile development
- Multidisciplinary teams
- Innovative partnerships
- New risk/speed trade-offs

What makes Us Different

1. Business Led Approach

2. Low Risk, Low Cost Engagement Methodology

1. Analytics Readiness Assessment
2. Analytics Innovation Workshop
3. Analytics Innovation Lab
4. Analytics Starter Pack
5. Scale Out

3. Asystec Led Collaborative Environment

4. Variety of Business Models

Collaborations & Target Industries

Technology Partners



Analytic Partners



Education Partners



Industry Partners



Advanced Manufacturing

Healthcare

Food & Drink

Renewable Energy

Finance



Asystec Customer Case Studies

Food & Drink – Secure Food Supply Chain

Customer

Delta Packaging & Linden Foods

Challenges

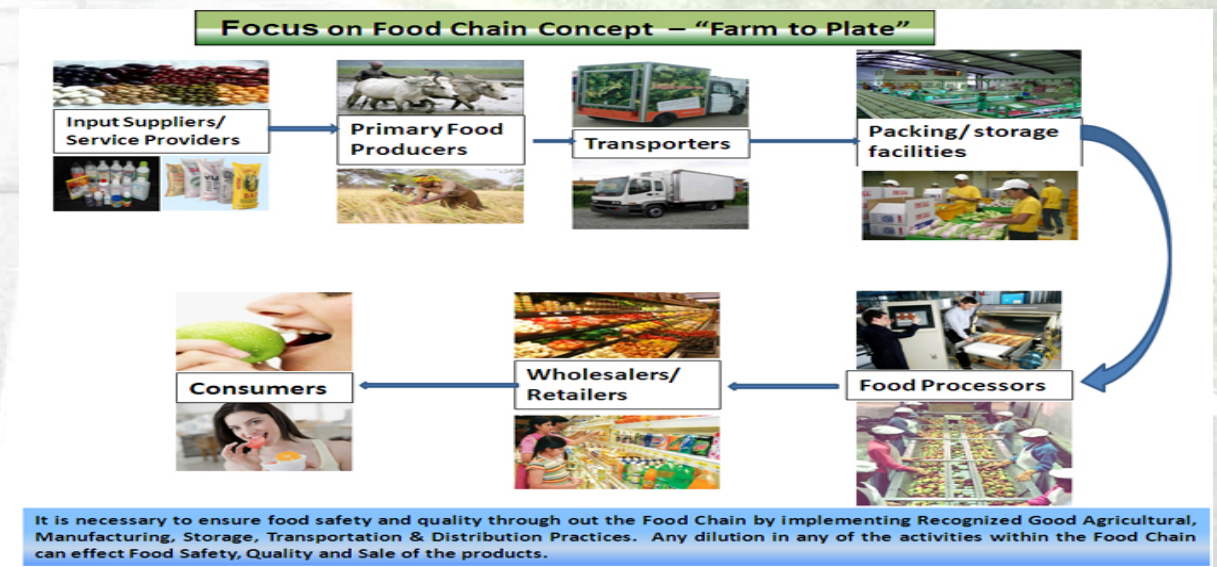
- Industry challenge of ensuring security of food produced and validation of tracking from farm-to-fork
- Solution needs to address the tracking of product across the food chain between different suppliers
- Solution to include DNA of animal on packaging as part of security trace

Solution

- Collaboration of Arcnet, Analytics Engines and Asystec to provide Big Data Infrastructure to support track and trace of food product
- Asystec Data Science Services to build analytics on resulting Big Data

Result

- Multi Phase program in progress



Healthcare – Disease Research

Customer

Innovate UK / Ulster University

Challenges

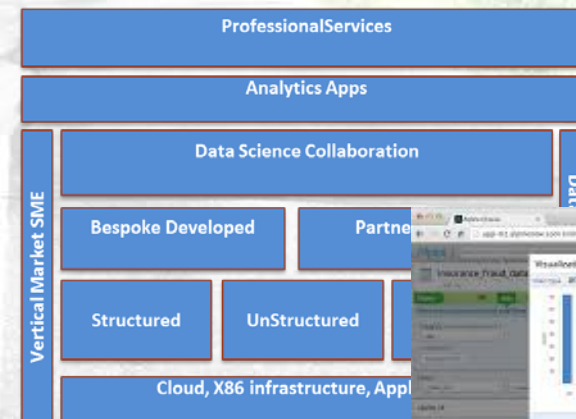
- The researchers needed a cost effective analytics platform to support their 3 year research into finding an early predictor for Alzheimer's disease
- Solution needs to store large amounts of structured and unstructured data
- Solution need to support advanced analytics requirements
- Solution need to support collaboration

Solution

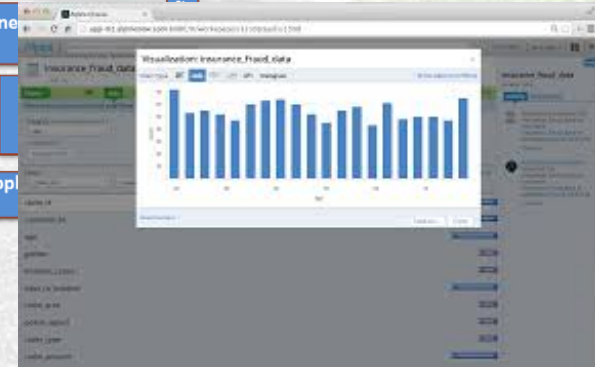
- The Aridhia Pivotal Greenplum Database, Pivotal HD and Chorus Platform
- Asystec data management and data science professional services

Result

Asystec engaged to lead 3 year research program



Innovate UK
Technology Strategy Board





Public Sector – Aftermarket Supply Chain

Customer

Irish Public Sector

Challenges

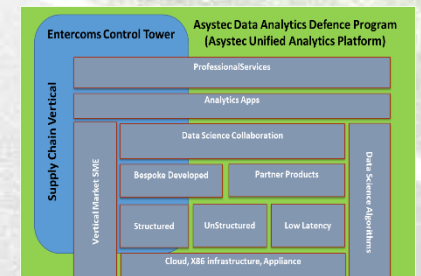
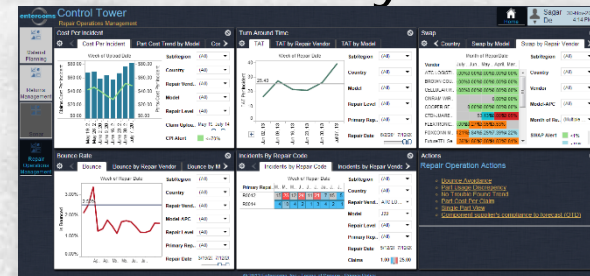
- Need to assess supply chain inefficiencies and free cash flow generation opportunities
- Need for real time insight into supply chain
- Need visibility into supply chain to be able to know the daily cost to run supply chain

Solution

- Asystec Analytics Innovation Workshop to work through key KPI's of interest
- Asystec Analytics Innovation Lab with collaborate supply chain analytics partner, Entercoms, to investigate and build prototype visibility dashboard

Result

- Innovation lab showed multi €m savings possible in just 9% of stock position
- Results being used to create 5 year strategy around data analytics



Manufacturing— Predictive Test Faults

Customer

Global Silicon Manufacturer

Challenges

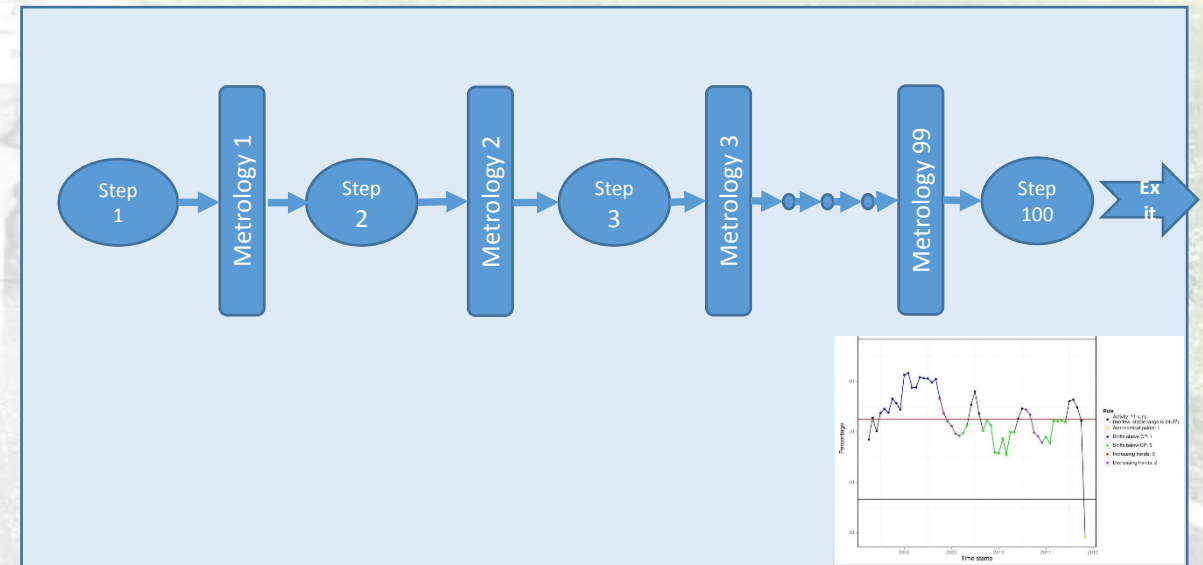
- Need to find further efficiencies in fault finding in manufacturing process
- Need to make better predictions of electrical probe data to know wafer yields in advance
- Need to have outlier detection from an end to end analysis perspective
- Need to do image analysis with Hadoop to find anomalies

Solution

- Asystec Analytics Innovation Workshop to work through key KPI's of interest

Result

- Customer Management asked to signoff Proposal for Asystec Starter Pack with professional services.



Customer Service– Online Service Failures

Customer

Large Privately Held Global Computer Company

Challenges

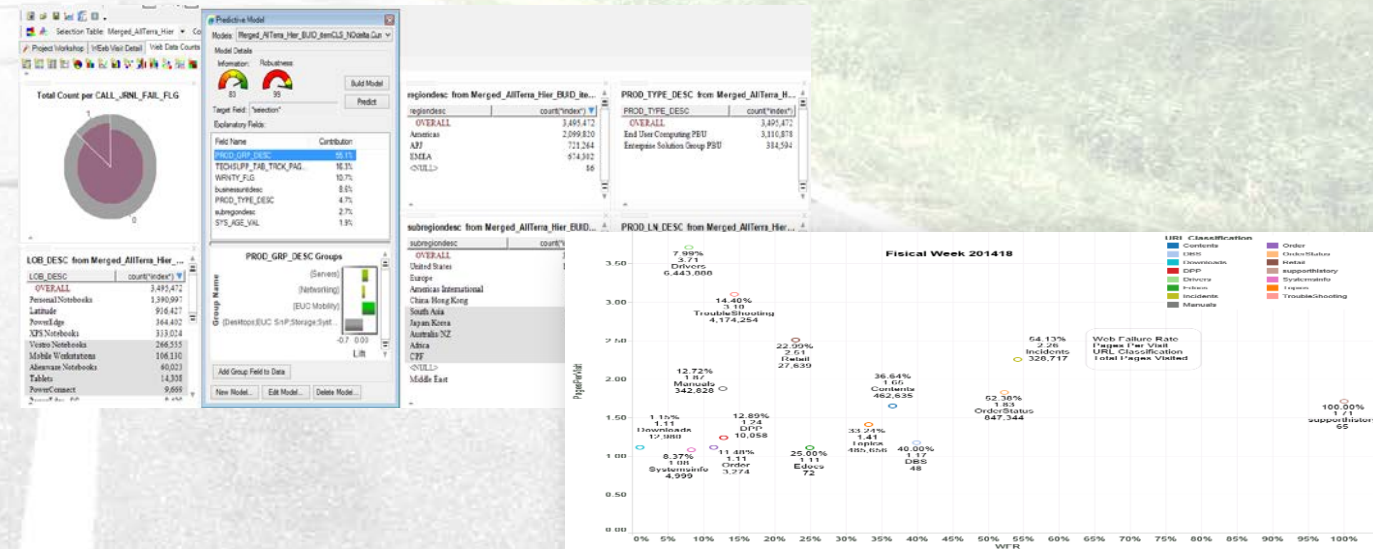
- Need to find web failure events where customer issues not solved on web and they need to call support
- Current warehouse BI system is cube based, with lack of customer level granularity
- Customer had no experience in Big Data Analytics
- Little or no collaboration across internal and contracting groups

Solution

- Analytics Lab to build a predictive model for web service failure
- Web Traffic gathered over a 6 week period (approx 72 million web hits)

Result

- Partner won a multi-year contract to reduce eSupport web failures





Thank you for your time!

All questions and feedback is welcomed!

Contact: dave.clarke@asystec.ie

