

Utilities QlikTalk Esri UK, QlikTech & Differentia Consulting

QlikView

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Agenda

09:30am: Registration open

10:00am: Arrivals and Networking

10:30am: Welcome and Introduction - Kevin Doughty, Esri UK

and Tom Truman, QlikView

11:00am Introduction to QlikView and Business Discovery

Mark Rodell – Senior Enterprise Architect QlikTech UK

11:30am: Refreshment Break

11:45am: Keynote: The Role of IT in the Utility of the Future

Stuart Ravens, Ovum



Agenda

12:15pm: Location-based Dashboards

Kevin Doughty, Esri UK

12:30pm: Differentia Consulting - A Business Discovery Approach - Kit Mundy, Differentia Consulting

1:00pm: Networking Lunch

1.45pm: Integration examples with QlikView and Esri

ArcGIS - Alasdair Hind Utilities Industry Lead - Technical

2:30pm: Q&A

2:45pm: End



A New Kind of Software Company

- U.S.-based company, founded 1993 in Sweden
- 26,000+ customers in 100 countries
- 1,400 global partners
- 1,300+ employees across 28 offices in 23 countries
- No. 1 fastest-growing enterprise technology company (ZDNet)
- NASDAQ: QLIK
- Change Their World Grant and Philanthropic Programs
- QlikTech Hits Top 3 in Forbes Fast Tech 25







Broad Base of 26,000 Customers





















































...existing QlikView energy and utilities customers

















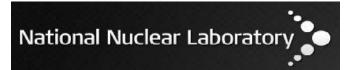
















Esri UK Introductory Slides Kevin Doughty – Head of Business, Utilities- Esri UK



Esri

- Esri Inc
 - Founded 1969 HQ in Redlands, California
 - Operating in 220 countries 1,500,000+ licences across 350,000+ client sites
 - \$730 million revenue \$100> million annual R&D
 - The ArcGIS Platform
- Esri UK
 - Founded 1978 HQ Aylesbury, offices throughout UK, and Ireland
 - £50 million revenue, UK specific products
 - Core dev team in Edinburgh
 - Key market's Utilities, Government, Defence, Commercial











Introduction to QlikView and Business Discovery
Mark Rodell – Senior Enterprise Architect
QlikTech UK







PageRank Search

Search

SIMPLICITY



iPhone/iPad

Mobile Devices

SIMPLICITY

salesforce.com

SAAS-based CRM

CRM

SIMPLICITY

QlikTech

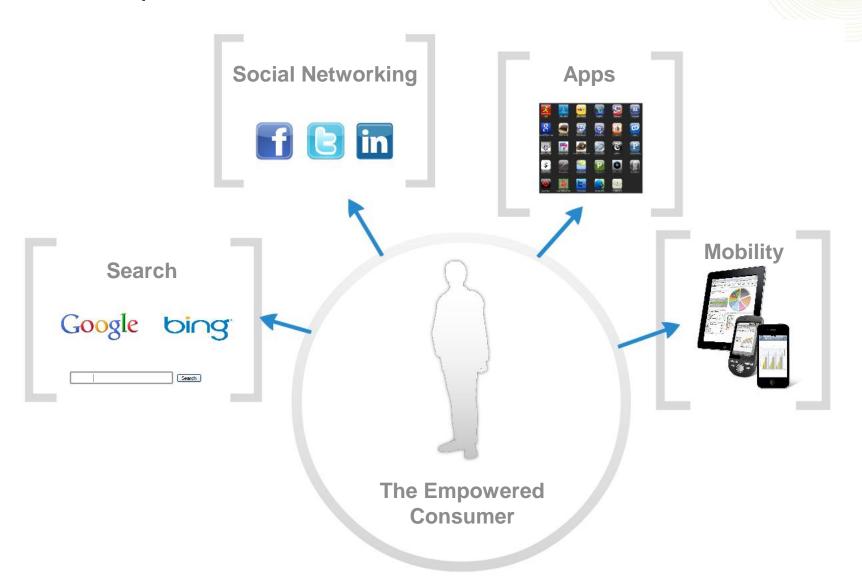
QlikViewBusiness
Discovery

BI

SIMPLICITY



The Empowered Consumer





Business Discovery: Business User-Driven BI





What Makes QlikView Different



- Associative experience
- Speed-of-thought analysis
- Rapid time to value
- User-centric interactivity
- Access to relevant business data
 - from anywhere



...making the complex simple

- consolidate information rapidly from any data source
- search data with Google-like ease
- visualize data with state-of-the art graphics





...associative search puts users in control

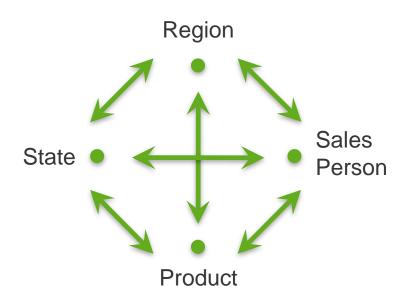
Traditional

State Product Sales Person

IT Driven

- Linear, pre-defined thinking
- Insights missed in hidden data
- Months to change
- Data-centric

Associative



User Driven

- Follows the user
- All data, always visible
- Minutes to change
- Insight driven





QlikView Architecture Overview– Whiteboard





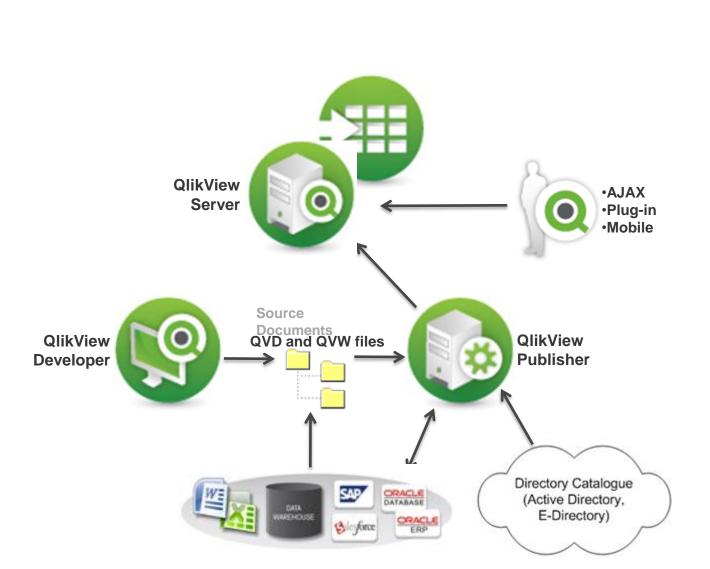




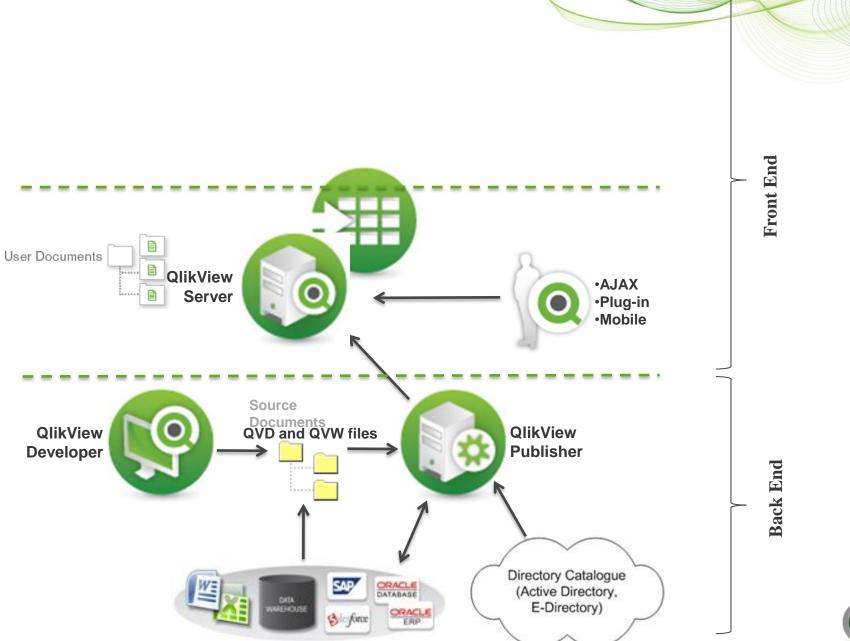




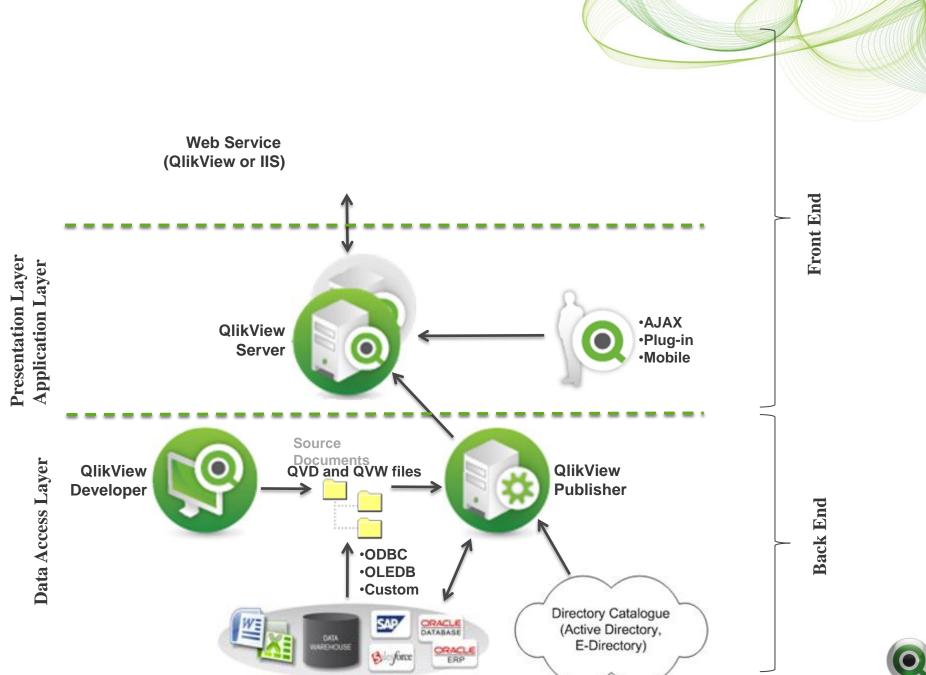




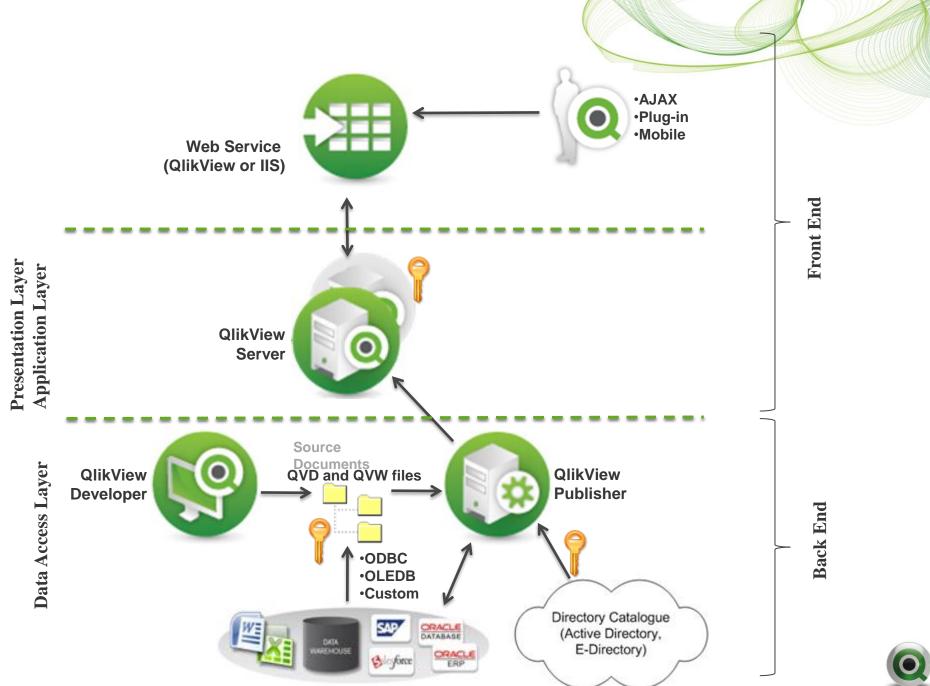












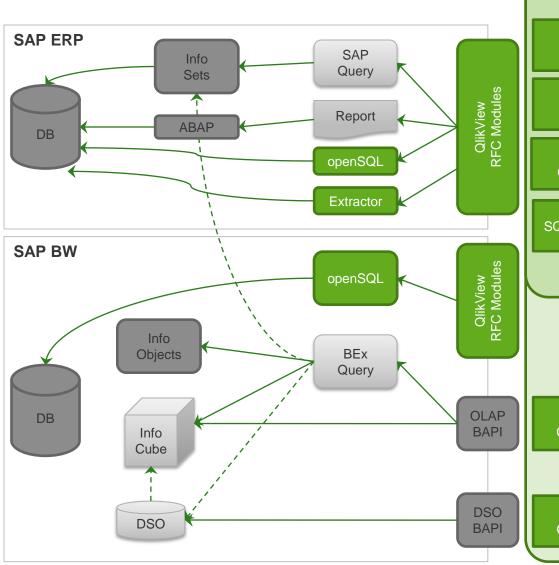




QlikView SAP Connector



Architecture



QVC 5.6

Query Connector

Report Connector

Extractor Connector

SQL Connector

OLAP Connector

DSO Connector



Desktop / Server / Publisher

QlikView



QVD



Coffee Break





The role of IT in the utility of the future

Stuart Ravens – Principal Analyst– Ovum





The role of IT in the Utility of the Future

How location intelligence enables improved performance

Stuart Ravens

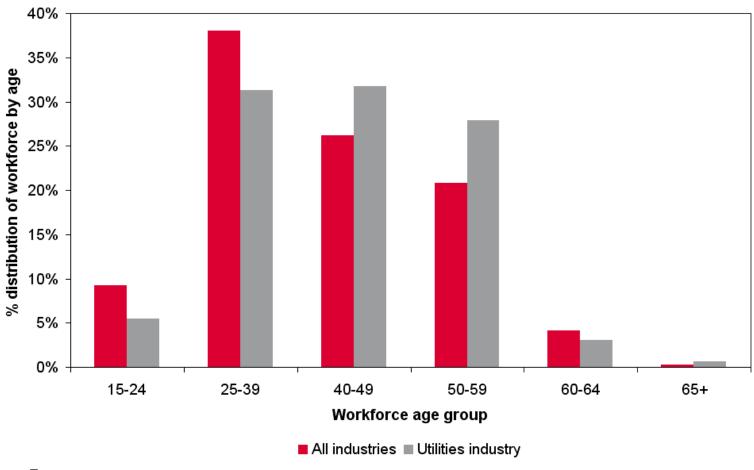
stuart.ravens@ovum.com

19 September 2012

The utility of the future is an analytical utility

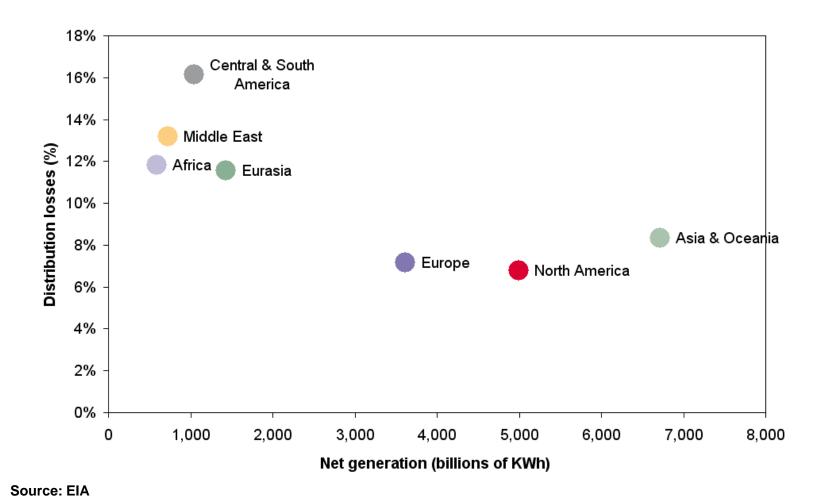
- Unprecedented industry pressures
- An exponential growth in data volumes
- All this data can be referenced geographically
- There's a natural convergence of GIS and analytics

The European workforce is aging

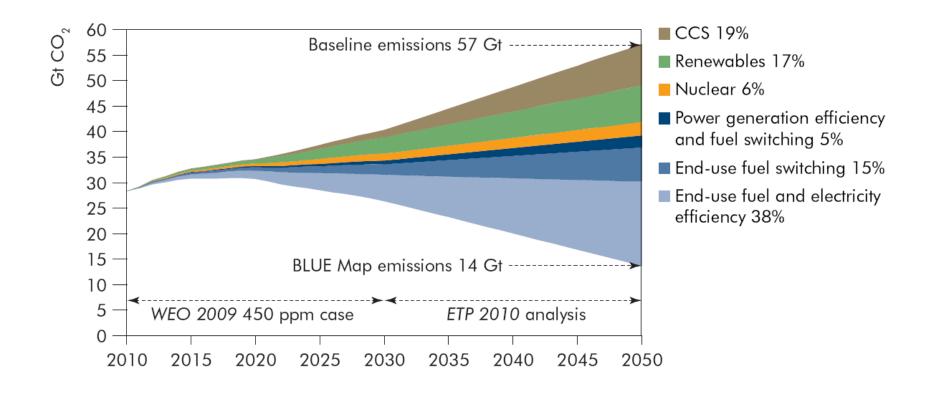


Source: Eurostat

Electricity distribution losses in Europe and N America are driving smart grid investment



The decarbonisation of the energy value chain has huge direct implications for electricity and gas, and indirect ones for water

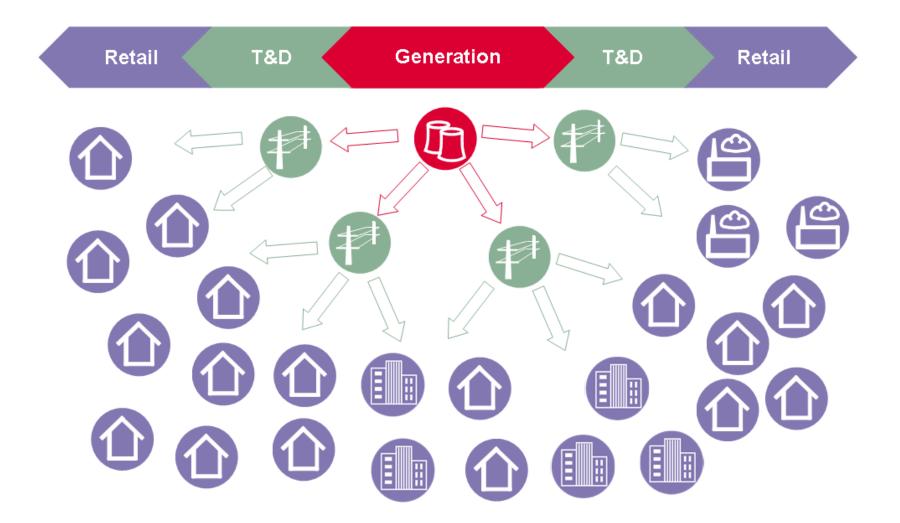


Source: IEA Energy Technology Perspectives 2010

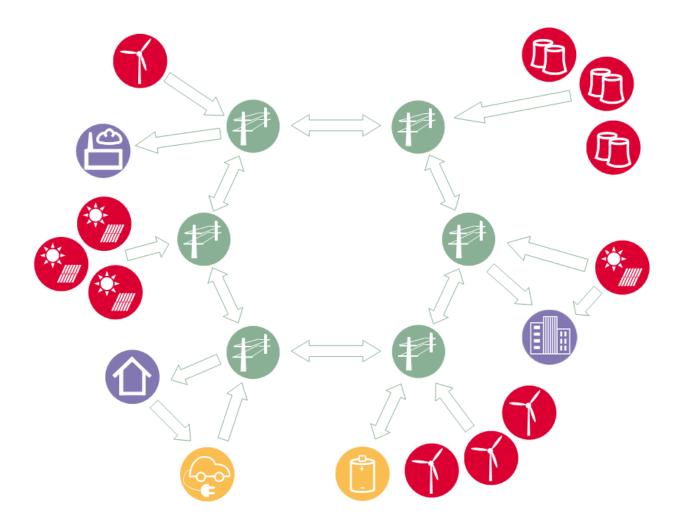
The Blue Map scenario relies on a number of assumptions

- C-intensity of energy use falls 64%
- CO2 from power emissions falls 76%
- Nuclear accounts for 24%
- Renewables account for 48% of generation
- Building emissions cut by 66%
- Share of petroleum in transport falls to 50%
- 80% of LDV sales are PHEVs, EVs or fuel cell

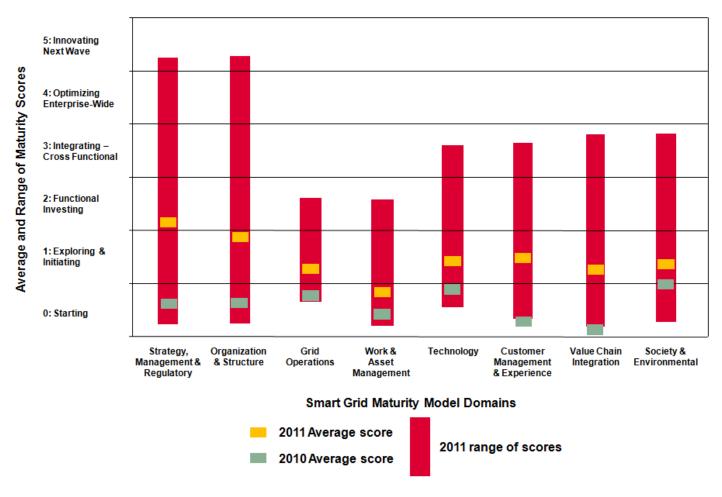
The old centralized distribution model ...



... will look more like this (to varying degrees)



Smart grid is still at an early stage ... (SGMM v4 due September 2012)



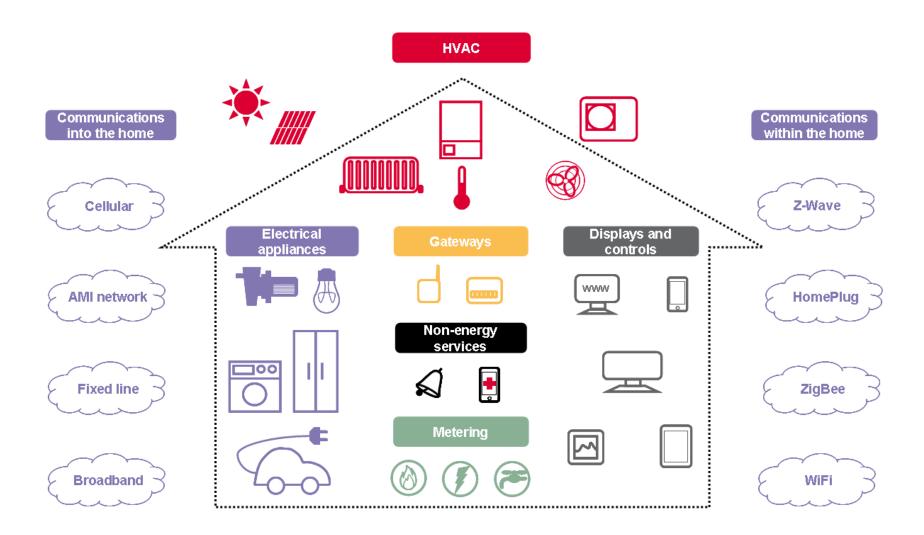
Source: Smart Grid Maturity Model 2011

... but is fast maturing

Technology area	Maturity level	Development trend
Wide-area monitoring and control	Developing	Fast
Information and communications technology integration	Mature	Fast
Renewable and distributed generation integration	Developing	Fast
Transmission enhancement applications	Mature	Moderate
Distribution management	Developing	Moderate
Advanced metering infrastructure	Mature	Fast
Electric vehicle charging infrastructure	Developing	Fast
Customer-side systems	Developing	Fast

Source: IEA Smart Grids Roadmap, 2011

Smart home data provide tantalizing opportunities



Smart meters rely on incredibly complex data flows

Tariff and Provision of consumption data to in-home Time-of-use and Transmission of pricing signals from display data on in-home retailer/distributor to customer Provision of tariff data to in-home display Transmission of consumption data from meter to Transmission of consumption data to in-home Single version supplier Accurate bills display, central hub, retailer, distributor, of the truth settlement Validation, estimation and editing Data sharing between in-home appliances Automated Dynamic Real-time upgrading of security software installed home energy security Remote management of in-home appliances in in-home end points upgrades management (web/smart phone) Incorporation of Personal data Consumer opt-in/opt-out of sharing non-regulated non-energy Data sharing between appliances and other home automation technologies (e.g. security systems) consumption data with retailer or distributor protection automation Transmission of tariff and product data from Enable retailer to customer Remove barriers Non-discriminatory access to market information competitive to entry differentiation Transmission of energy services information to customer Transmission of tariff and consumption data to Improve the customer **Functional** Sharing of meter register data customer interoperability Sharing of tariff and consumption data with third switching party switching sites Automated power-down messaging from distributor to microgenerator Near-real time Transmission of event data from meter to Microgeneration error detection distributor feed-in Export data to retailer and settlement and correction Provision of export and tariff data to customer Load balancing Demand Automated power-down and power-up messaging Automated power-down and power-up messaging of electric response from distributor to appliances to EV recharge stations vehicles Communication of retailer's intent to convert to Switch to Transmission of tamper alert from meter to prepay Tamper alarms retailer or distributor prepay Remote conversion to prepay-credit meter Communication of retailer's intent to disconnect Customer

disconnection

Remote disconnect/reconnect command

Smart grid functionality is more amorphous ...

Network-related functions

Customer premiserelated functions

Flow control

Automated islanding and reconnection

Dynamic capability rating

Customer peak shedding

Automated feeder switching

Real time load measurement & management

Automated volt/VAR control

Electric vehicles

Wide area monitoring and control

Fault current limiting

Real time load transfer

Distributed generation

Predictive maintenance

Enhanced fault protection

Electricity storage

Customer demand optimisation

... and based largely on analytics

Prevent a problem before it occurs

Operational data collection

Non-operational data collection

Event diagnostics

Data analytics

Predictive maintenance

Speed time to resolution when something does occur

Demand response

Event detection & location

Realtime condition monitoring

Automated switching

Condition-based crew dispatch

Functionality delivers numerous smart grid goals

Direct feedback

Electric vehicle integration

Peak load management

Renewable integration

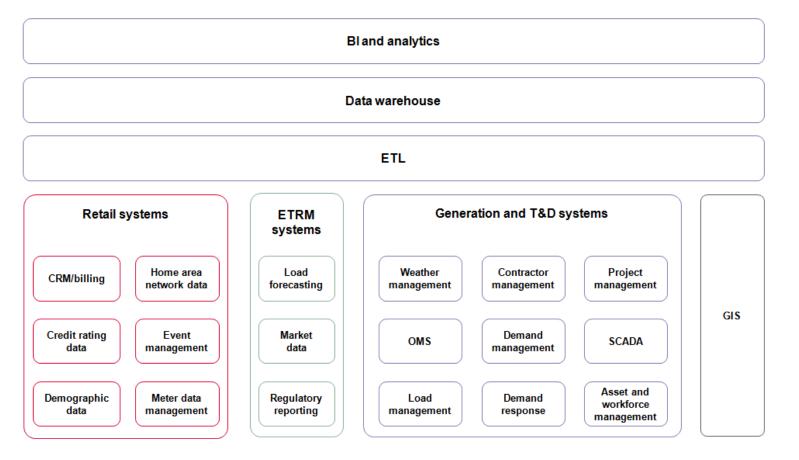
Energy efficiency

Reduced line losses

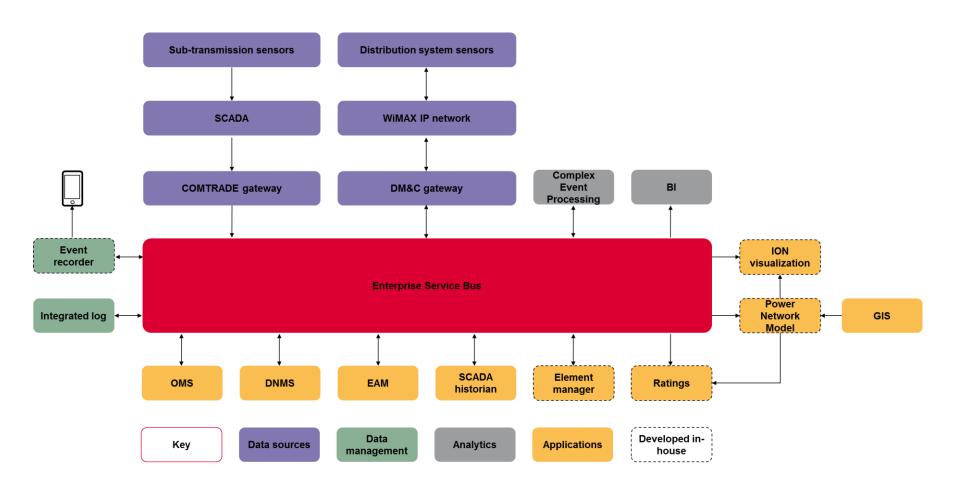
Although analytics is not restricted to smart grid; it extends across the entire value chain

Payments and debt Retail - reduce Contact center Monitor cost-tooptimization management costs serve Consumption data Retail - customer Customer Reduce customer Marketing analysis satisfaction churn management Generation and Asset planning T&D - long-term optimization planning Generation and Project Contractor Load analysis Health & safety T&D - operations management management Asset and workforce Demand response management Generation and Inventory Predictive optimization T&D - maintenance maintenance Energy trading and Load forecasting risk management

The siloed nature of utilities is a barrier to enterprisewide analytics; smart grid challenges the ETL-based model



Analytics became realtime in Ausgrid's DM&C project



All this data can be visualized geographically; an analytical utility forces a convergence of GIS and analytics

Asset and work management tool

'Transactional GIS'

In-field tool for asset location

Spatial database for in-field assets and equipment

Convergence of GIS with BI

Map-based visualization of data

'Analytical GIS'

Map-based visualization of data

'GIS BI'

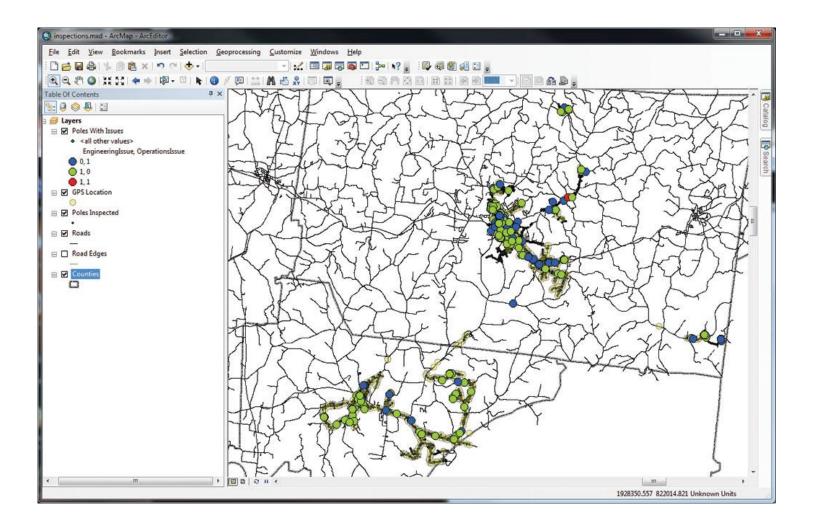
Spatially-enabled analytics

'GIS analytics'

Expect a second wave of better, scalable, GIS-enabled mobile applications ...

- Hardware developments
- Device proliferation
- Consumerisation of applications
- Vendor investments in assets
- PAS55
- SIM

... like this tablet based app, which uses the ArcGIS API for Android



There are a number of barriers to overcome for a utility to act on this intelligence ...

- System scalability
 - Is 'infinite scalability' possible?
- Disparate system architecture
 - Poor system interoperability
 - Multiple ODS/data marts
 - Legacy systems

- Data strategy and governance
 - Data quality management
 - Metadata management
 - Master data management
 - Audit compliance
 - Security
- Cultural barriers
 - IT vs OT

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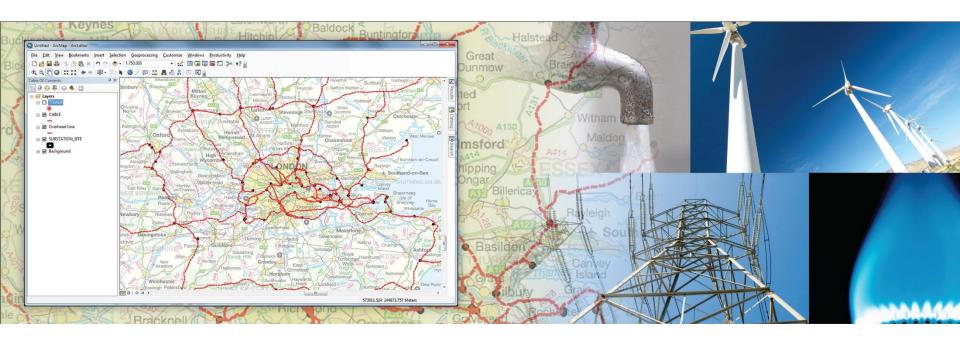


Location Based Dashboards

Kevin Doughty – Head of Business, Utilities, Esri UK







Location based dashboards

Esri and QlikTech QlikTalk

Kevin Doughty
19 September 2012

Are women better than men at navigating?

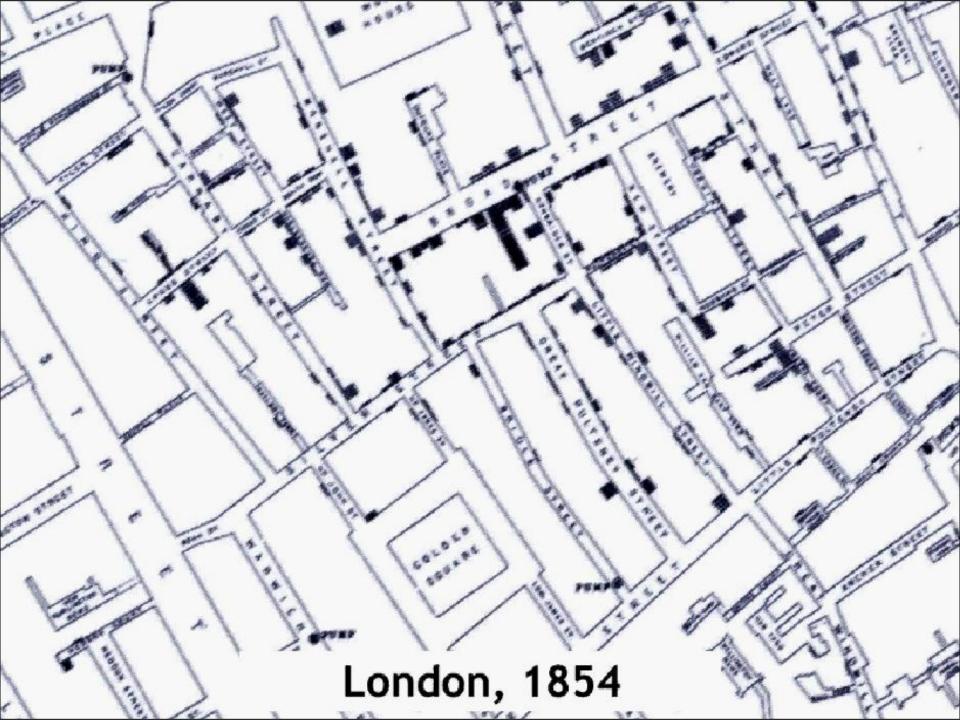


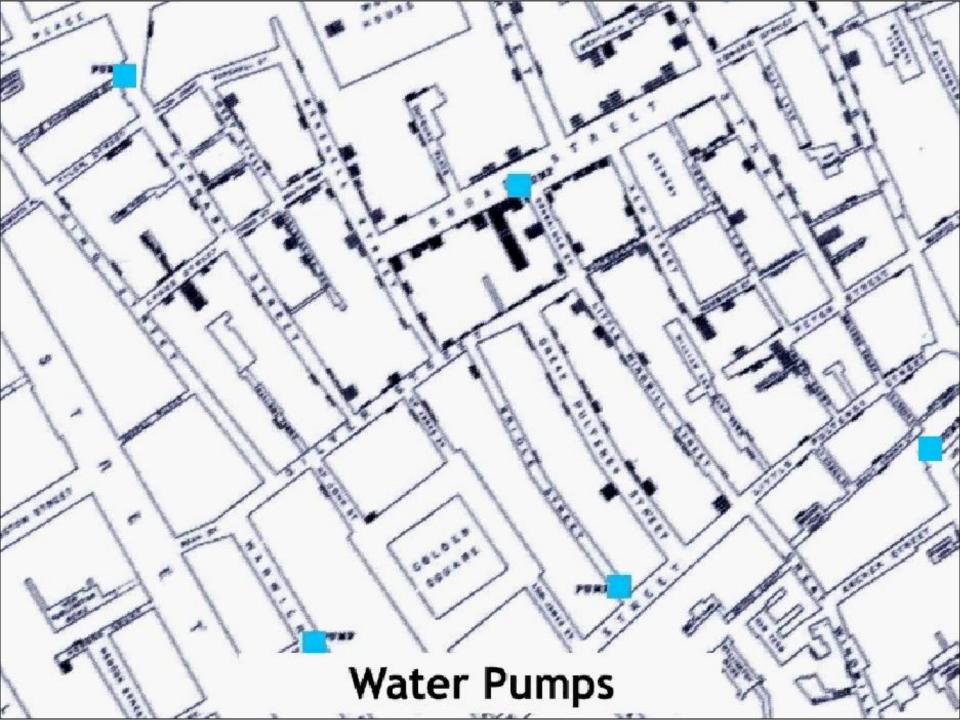
Which way am I looking?

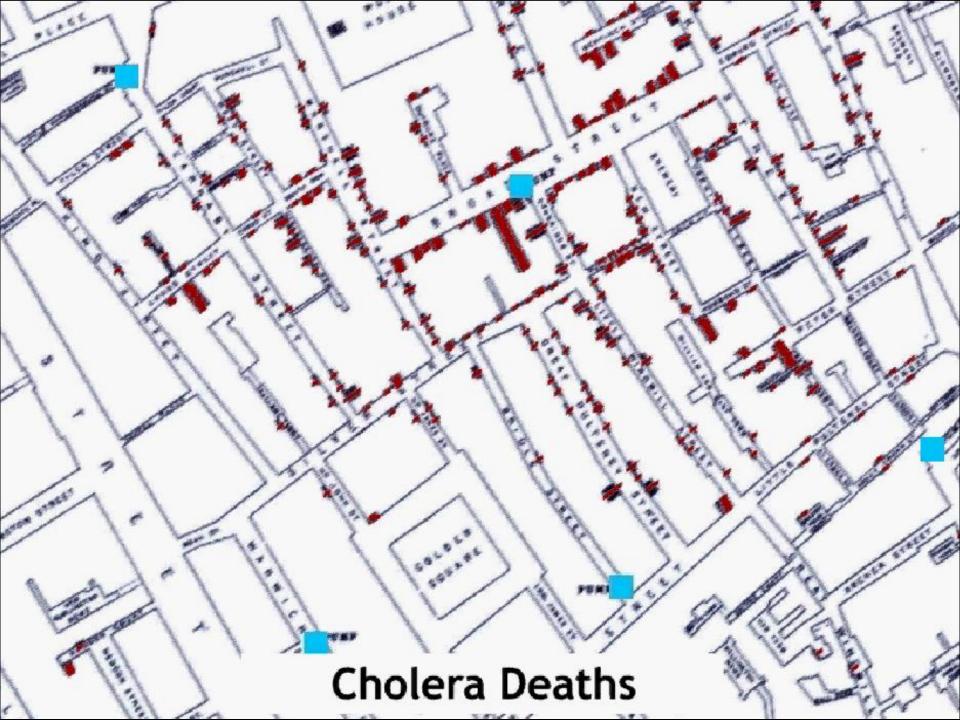


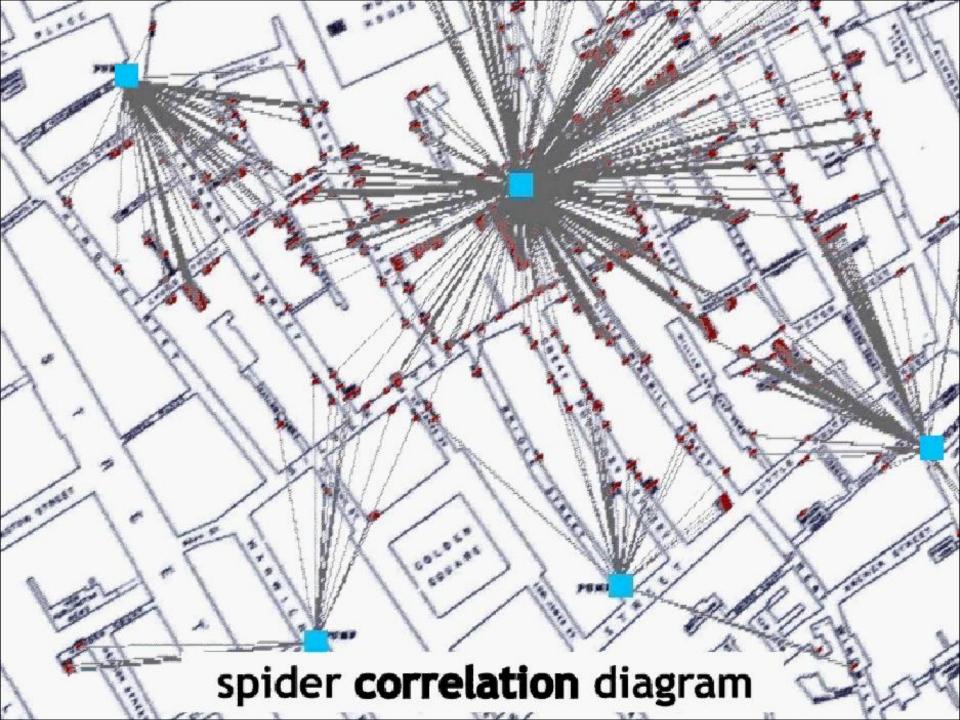
First Generation – Location Intelligence











Trends

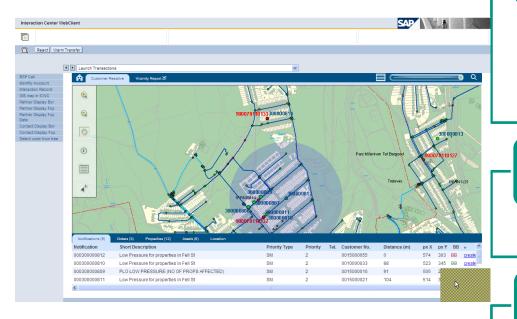
- Big Data (Smart Grids, Smart metering etc the three V's
- Real time GIS SCADA, Weather...
- The Cloud new ways to deploy
- Mobile efficiency, access
- Integration efficiency
- Usability efficiency



Case Studies – Location Dashboards



Customer Service



Improved customer engagement

 The incidents are displayed on the map and colour coded according to incident type, the reference is also displayed

Efficient deployment of resources

• Appropriate level of response

Analysing performance

Provide an audit trail for regulatory reporting



Emergency response

Example – Flooding in England



Building resilience in to infrastructure

 Reduce the potential impact of hazard scenarios

Risk modelling

 Quantify and prioritise investment to mitigate risk

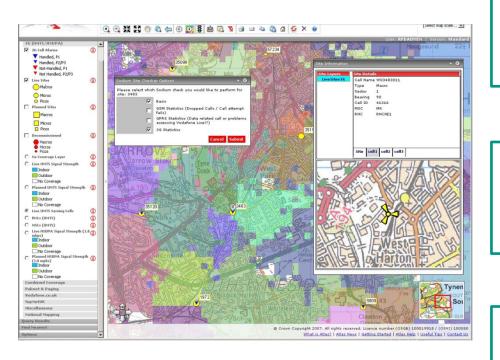
Stakeholder reporting

 Providing complete information to support shareholder value, brand reputation & customer satisfaction



Network Performance

Example – UK Mobile operations



How do we reduce customer churn in high value customers?

Track high customer usage and reinforce network

How do we optimise network capacity?

 Use real time coverage analysis to mobilise resources

Stakeholders questioning future levels of investment

 Visually report on projects, investment and benefits.



What happens next?

- GIS turns big data into information
- Information enables better strategic and operational decision making
- See the detail, find your way!









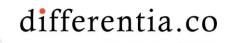
Example QlikView applications in Energy and Utilities

Kit Mundy – Director – Differentia Consulting Dean Ansermoz – Solutions Architect - QlikTech



Differentia Consulting QlikView Elite Solution Provider

- Independent consulting firm, specialising in ERP and BI (QlikView)
- ex KPMG Consulting
- Leading QlikView partner in the UK (#1in the UK in 2011, #2 in 2010)
- Providing a full service for QlikView
 - Consulting / applications development
 - Software licences
 - Training (Certified QlikView training partner)
 - Applications and technical support
 - Technical architecture / hardware sizing
- Currently working with a number of leading companies in the energy and utilities sector





...QlikView solutions

R&D and IT

- Product Portfolio Analysis
- Product / Project Management
- System Performance Controlling
- Service Level Reporting
- Infrastructure Planning / Sizing





Executive

- Balanced Scorecard
- Performance Management
- Predictive Analysis
- · What-if Analysis
- Activity-Based Management

Finance & HR

- Financial Consolidation Reporting
- P&L Analysis by Division / Business Unit
- IFRS / GAAP / SOX Compliance
- Risk Management & Sustainability Report
- Workforce and Benefits Analysis







Sales, Marketing, Service & Web

- Sales Planning Analysis
- Customer Analysis
- Campaign Performance Analysis
- Product Profitability / Price Waterfall
- Contact Center / SR Performance

Operations

- Production Planning & Scheduling
- Production Management
- Quality Management
- · Six Sigma / Process Analysis
- Plant / Equipment Maintenance Analysis



Dashboard
Analysis
Reporting



Supply Chain

- Demand Planning
- Procurement Analysis
- Supplier Performance
- Inventory and Warehouse Management
- Logistics & Fulfillment Analysis



...example QlikView applications

- Asset Management
- Regulatory reporting
- Customer Service
- Debt Management





Applications of QlikView within Utilities Organisations

- Contact Centre Analytics Customer Service / Complaints / Outbound Sales
- Unbilled Analysis
- Metering
- Sales Analytics
- Campaign Analytics
- Commercial Finance Decay Modelling/Campaign Analysis
- Bad Debt Reporting
- Health & Safety
- Energy Trading
- Project Costing
- Finance / HR
- Asset Maintenance / Workforce Planning



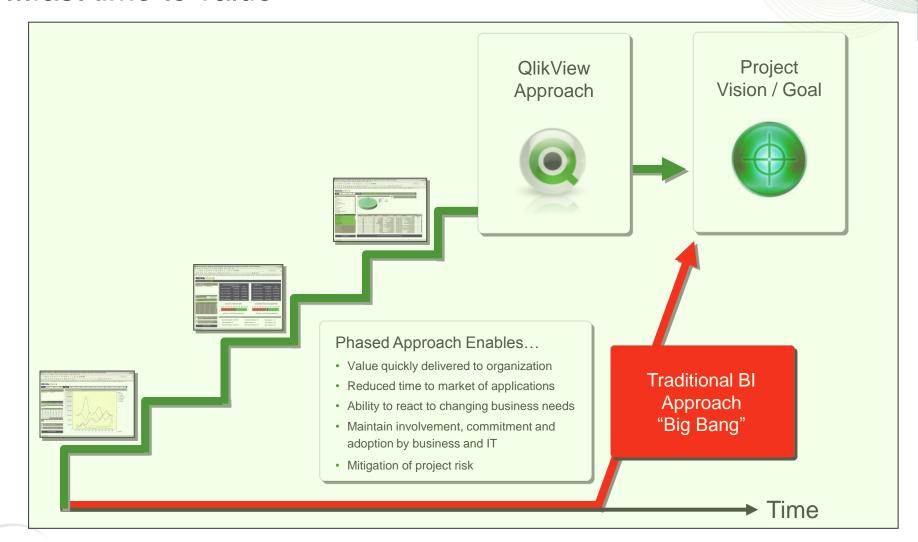


Implementation approach

Kit Mundy – Director – Differentia Consulting



...fast time to value

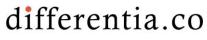






...OneView Framework

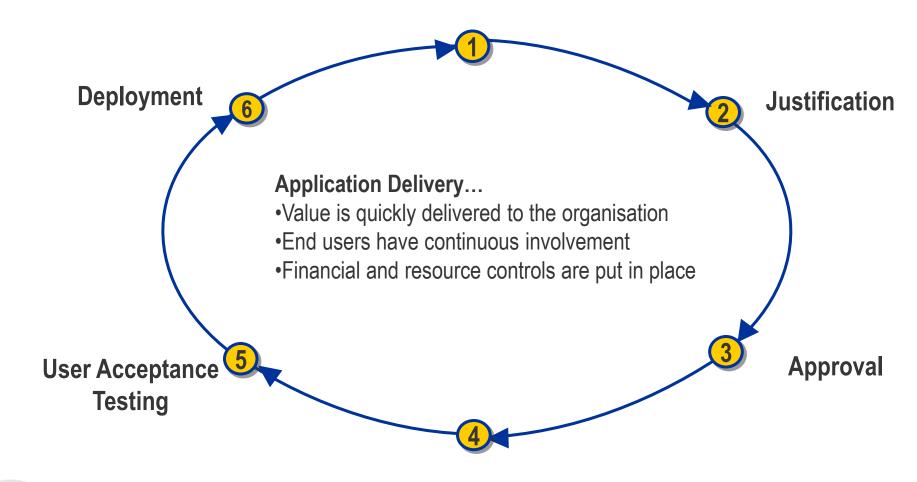
Evaluation	Implementation			
Evaluation	Mobilisation	Delivery	Support	
Selection Exercise SIB Business Case Size Hardware Project Proposal/SOW Project Sign Off	Plan project Produce Project Brief Produce Enterprise Architecture Document Application Developer Knowledge Transfer Define Corporate UI Standards	Install Hardware Install Software Develop Applications User Acceptance Testing Deploy Applications Produce Operational Procedures	Monitor live environment Resolve open issues On Going Review	
Data Quality Governance		Change Control Issue Man	Issue Management	





...application delivery

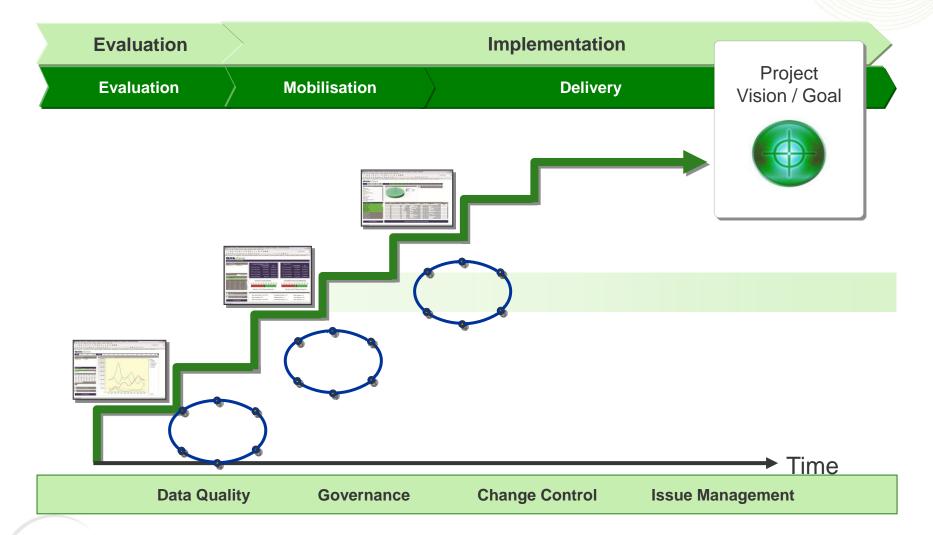
Business Request







...fast time to value within a framework









Lunch





Smart metering application using QlikView - integrated with ESRI UK ArcGIS

Kit Mundy – Director – Differentia Consulting Alasdair Hind – Presales Consultant – ESRI UK Andrea Traverso – Director – KT Labs

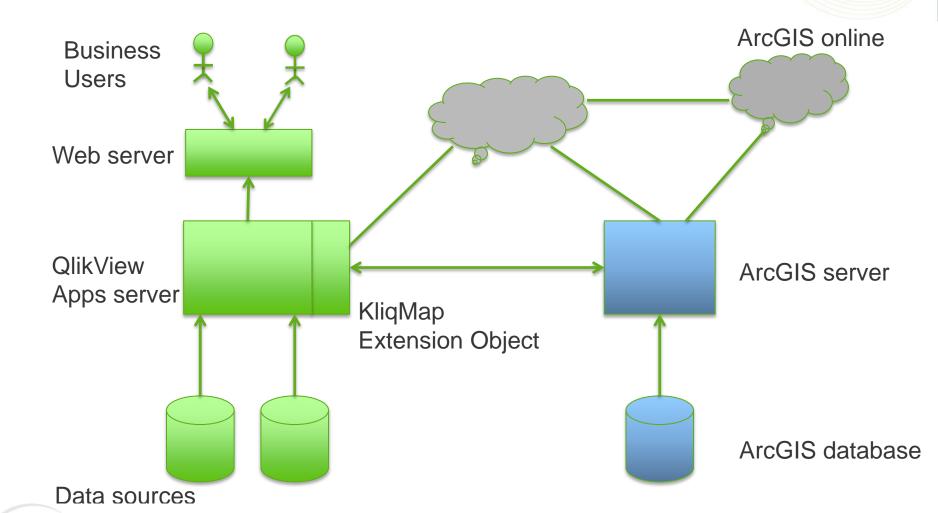


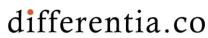
...Smart Metering demo

- Integration between QlikView and ArcGIS, delivered in conjunction with Differentia Consulting
- Utilises the KliqMap extension object from KT Labs
- Objective is to demonstrate the power of combining QlikView business discovery with ArcGIS geographic information to create location intelligence
- This allows you to map multiple layers of geographic information and properties from ArcGIS based on selections made from within QlikView



...solution architecture





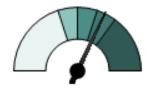




Death per pump: 64.2



Dirty Water?: 4









7 ALDER GARDENS NOTTING...

