

Ireland Planning Permission Demo

Analysis of 19 years of planning applications

www.datalineo.com

Agenda

- ❖ A BI solution, at a glance
- Get Data
- Model Data
- Visualise data
- Collaborate
- Common challenges







About

Datalineo is a consultancy with a focus on Microsoft Data Platform Solutions, specifically in the Business Intelligence area. We offer three services:

- **Solution Development**: Full design, development and delivery of bespoke Power Platform Solutions.
- **Training**: On-site training sessions on Power BI. Dashboard in a Day, Solution Development Architecture, Data Visualisation, and custom-fit solutions
- **Strategy**: Advisory on introducing Power BI into your organisation.





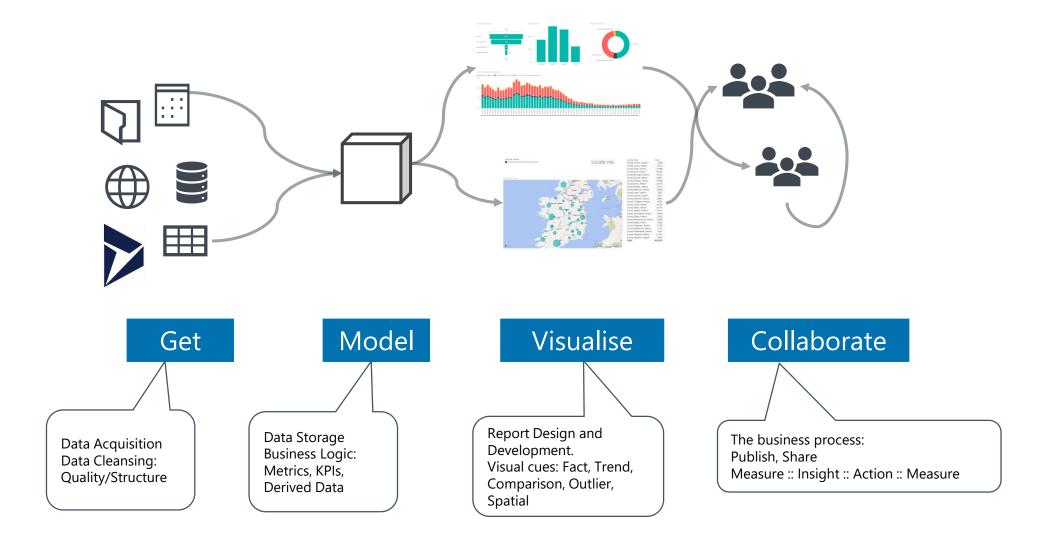
Ben Watt

Your speaker today

- Managing Director at Datalineo
- Microsoft MVP Data Platform
- Power BI: SQL/Azure/Power Platform
- Dublin PUG leader
- Data Platform Event Co-Ordinator



A BI solution, at a glance





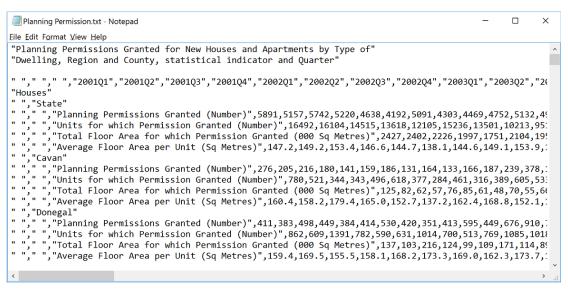
Get Data. Acquire your source data.

Today's Sample Source Data

- Central Statistics Office Planning Permission
- Wikipedia
- Dynamic dataset

Power Query

- Desktop ETL extract, transform, load
- Connect to on-premise and cloud data
 - Standard sources: RDBMS, SharePoint, flat files
 - Web/URL, Azure blob/SQL/Data Lake/HDFS
 - Facebook, Google Analytics, GitHub, MailChimp, Active Directory
- Excel-style interface to wrangle your data





Get Data. Acquire your source data.

Relationships

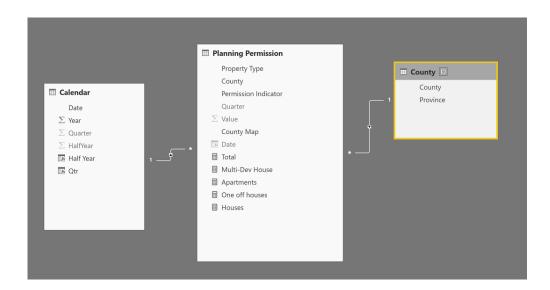
Business Intelligence (DAX)

Calculated Columns

- Derived Data
- Dynamic Calculations

Calculated Measures

- Aggregations: SUM, AVERAGE, MIN/MAX
- Time Intelligence



Visualise Data. Finally the interesting part!

Design

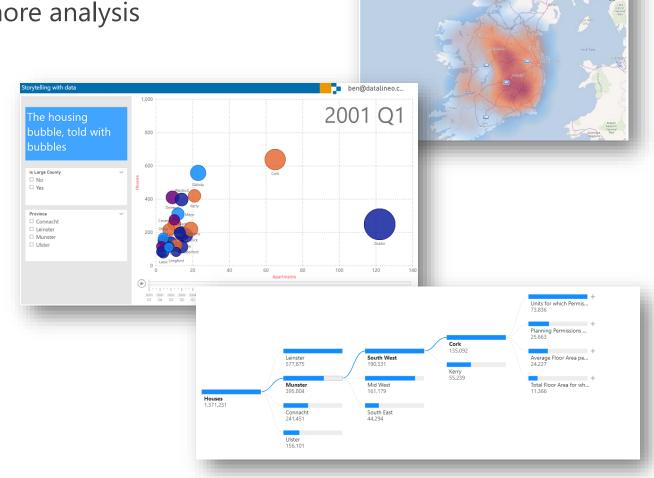
If your modelling is correct, you enable more analysis

Best Practice

- Think of the customer
- Think of actions
- Trends, outliers, comparisons, facts
- Context

User Experience

- Reports/Dashboards
- Analysis/Exploration





Collaborate. Business Impact.

Deployment of your Work

Workspaces, sharing, scheduling

Business Process

Measure

- Define Business Impactful metrics
- Crucial metrics take precedence, alert-driven

Insight

- Drilldown, exploration
- Find root cause

Action

Business reaction to course correct

Measure

- Ensure measure impact of actions
- Short term monitoring





Some challenges

Get Data

Power Query language

Model Data

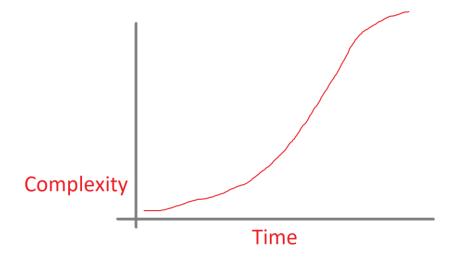
- Relationships. Learning Data Modelling
- DAX formulas

Visualise Data

- Data Viz consistency & best practice
- Insight, it's sometimes hide & seek

Insight & Collaborate

- It's the person not the role
- Build the business process
- Be careful of the wild west: Governance





And.... Done.



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Info	Link
Today's Demo: Slides/PBIX File/Data	<u>Datalineo Github</u>
Central Statistics Office	Source Data
FREE Data Modeling Course	SQLBI.com





Contact Slide





