Agile Delivery of Advanced Visualisation in a Heterogeneous Analytic Ecosystem





Conor Sayles

Group Advanced Analytics Lead

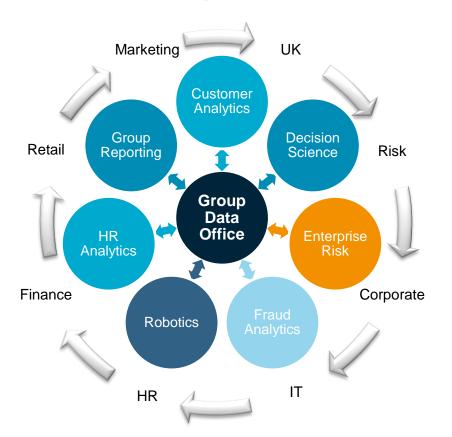
in linkedin.com/in/conorsayles



@conor_sayles



Hub and Spoke Network



- Coordinate project collaboration
- Eliminate silos and duplication
- Flexible resource allocation
- Accelerate the adoption of analytics



Group Strategy





Bring the Analytics to the Data











Enterprise Data Warehouse teradata. ACC **ACQ** IDL

> **Enterprise Data Lake** teradata.

Data Visualisation Server + a b | e a u













SAS Enterprise S.sas.

QueryGrid

Enterprise Data Hub CLOUDERA



Components for Success

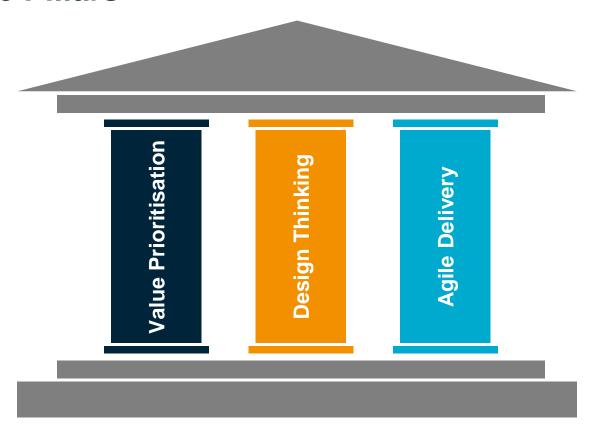




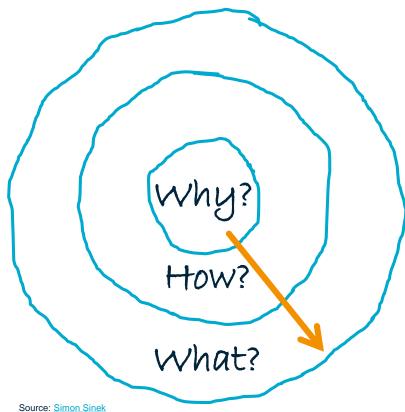




Three Pillars



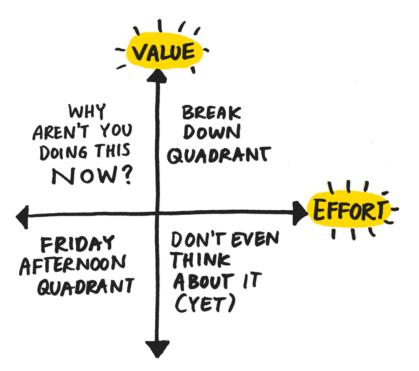
Value Prioritisation



- Alternative to "Highest Paid Person"
- Transparent
- Everything worth doing has value
- Business outcome

Bank of Ireland **Begin**

Types of Value



- Cost reduction/avoidance
- New income generation
- Pricing optimisation
- Regulatory/operational risk

Source: Andy Wicks

Who is your user?

Design Thinking
is a human-centred approach
to solving problems
through collaboration
and co-creation

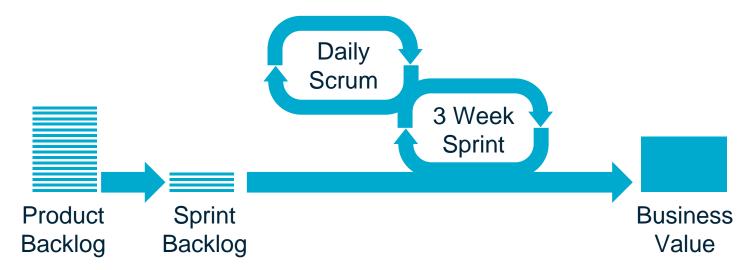


Design Thinking



Scrum Framework

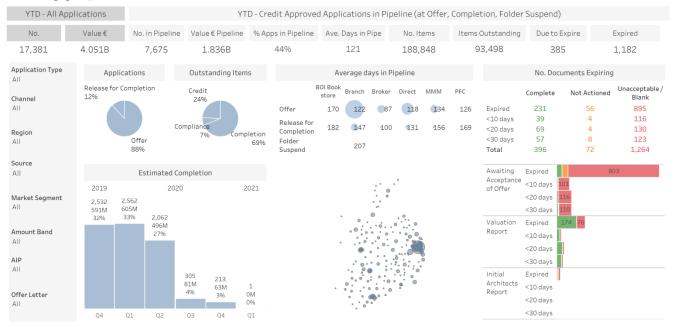
As a user persona I want to gain a specific insight so that I can take a certain action





Mortgage Pipeline

ROI Mortgage Pipeline 2019 As at: 21-11-2019





- 1. Application date >= Start of Year. Credit Approved applications at 'Offer', 'Release for Completion' and 'Folder Suspend' only. Excludes apps that have been canceled and applications that have subsequently drawndown.
- 2. Day figure calculation = Today Date item last actioned. VARR = Today Valuation date. AOF1 and ALET = Today Letter of Offer date (or AIP date if no Letter of Offer date).
- 3. VARR expiry 120 days / AOF1 and ALET expiry 183 days

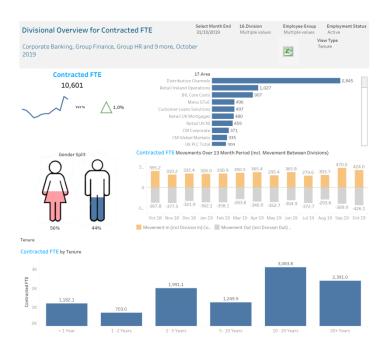
Built by Advanced Analytics @Group Data Office



HR Reporting









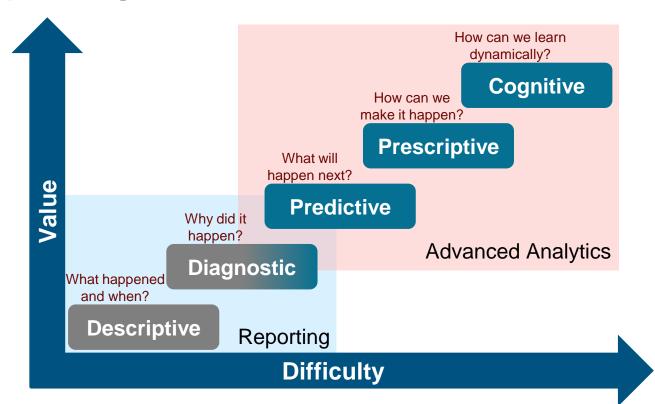
Stakeholder Engagement



Maturity	4
Governance	3
Show and Tell	2
Early Adopters	1

Photo by Unsplash

Step Change in Value





Business Questions Maturity

Descriptive

What were our consumer loan sales <u>last</u> year?

How many workers <u>were</u> needed to manage arrears last week?

When <u>did</u> our ATMs run out of cash last month?

Which <u>historic</u> transactions did we flag as suspicious?





Predictive

What will our consumer loan sales be **next** year?

How many workers <u>will</u> we need to manage arrears next week?

When will our ATMs <u>likely</u> require refilling in the future?

Which transactions from should we review <u>today</u>?





"all of us are smarter than any of us" IDEO





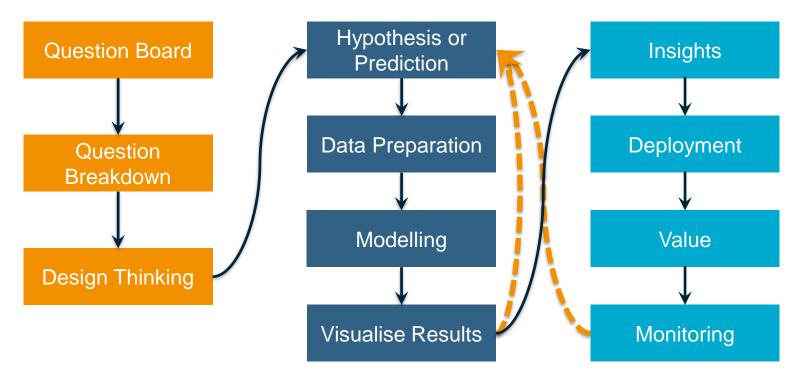
Group Data Office Fairy





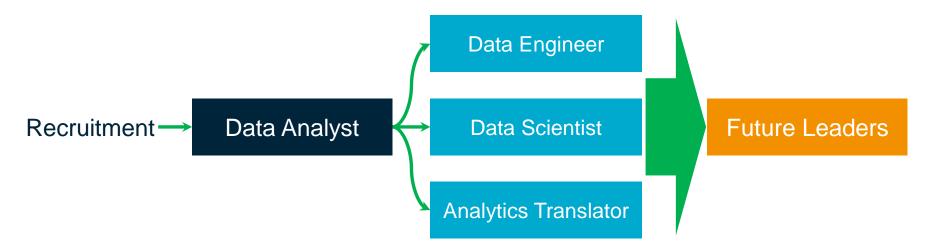


Advanced Analytics Life Cycle



Career Paths

New recruits are offered the opportunity to develop an applied data science skillset, aligned to the Analytics Institute of Ireland professional certification, in a flexible learning environment. Beginning with a common foundation, specialist career paths are available.











600+ members, 20+ events

- Data literacy and data democracy
- Share success
- Build on the ideas of others



What have we learned?

- ✓ Always ask Why
- ✓ Everything has a Value
- ✓ Outcomes over Processes
- ✓ Prototype to Understand
- ✓ Iterate with Stakeholders
- Business Question Maturity
- ✓ When to Say No.

Agile Deliver

