



CadDo

# **An Introduction to CadDo ESG**






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January 2021

The light on ESG is shining brighter than ever, yet there is a gap between expectation and reality

Investors need to view companies not only by financials...but by **ESG Scores**

Sounds simple, but it's a big challenge:

-  Market providers only offer black-box calculations
-  Conflicting raw-data, which keeps changing
-  Bespoke solutions are costly, slow, and don't evolve
-  No market or government standards
-  Ever changing consumer expectations

Environmental

Social

Governance



CadDo's platform delivers concentrated intelligence on sustainability & ESG to Financial Services

It is presented through a simple-to-deploy SaaS solution meaning no work for in-house IT teams

It enables clear, aggregated ESG metrics and analysis across all investments

Data is weighted to each clients' assets giving a tailored, holistic view of holdings and portfolios

The platform gives asset managers and investors the ability to view their holdings with up-to-date, accurate ESG metrics, underlying data and trend information

...alongside existing financial performance analysis

All the logic is your logic: no black-box calculations

Underpinned by:

- SaaS "[Preferred Solution](#)" 🏆 on Microsoft's class-leading Azure platform
- A delivery team fully setup to work remotely, ensuring resiliency & agility
- World-class delivery partners, in ESRI and Microsoft (co-sell Partner)



## Open Data Integration

CadDo ESG is designed to work with **your data providers**



## Open Data Sourcing

CadDo ESG is designed to take feeds from the host of data maintained by **your analysts**



Underpinned by our proven abilities to collate disparate data sources, and identify & manage **inconsistencies** and **discrepancies**

### All Asset Classes

Equities

Funds

Bonds

Commodities

Illiquid Assets

### Non-Financial / ESG Metrics

Voting History

Engagements

Relationship Management

Screening Results

Outlier Identification

### Additional Information

Climate-related CapEx

ESG-related Initiatives

Related Subsidiaries

Geographical Spread

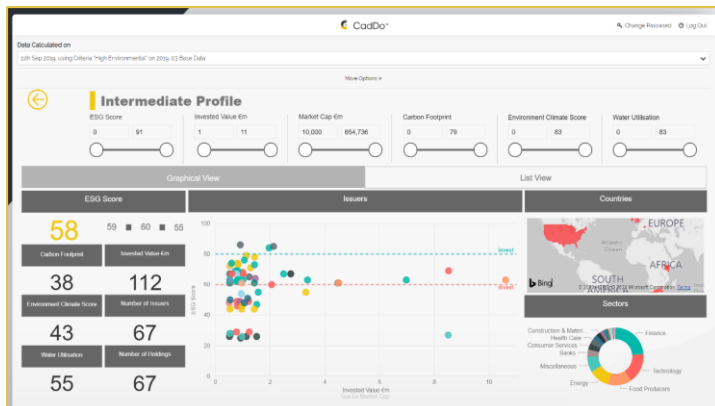
Climate-related Disclosures

# Able to meet multiple reporting needs with the same underlying capability

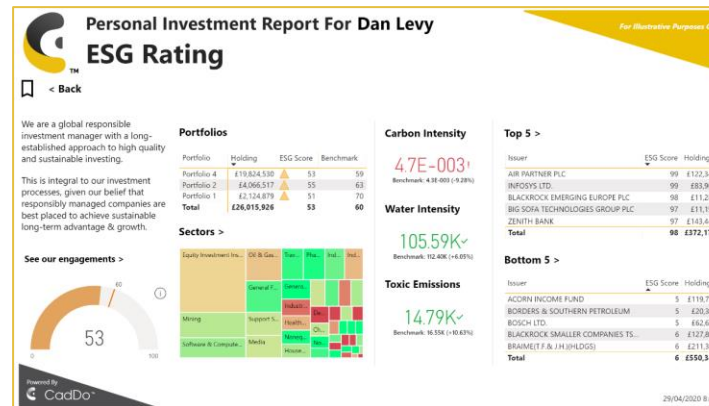
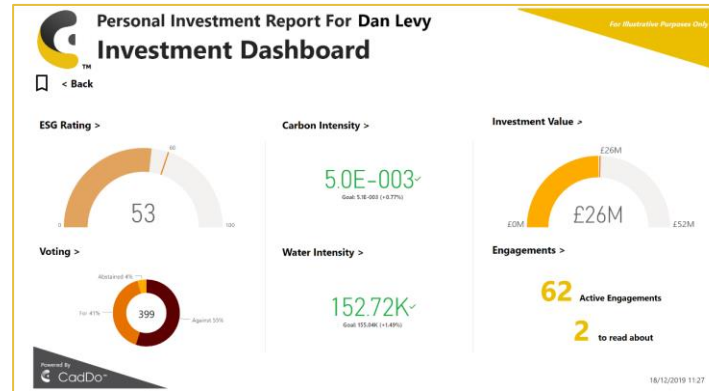
The platform can meet any ESG reporting requirements, off the same underlying technology

For instance, CadDo can deliver interactive Portfolio-manager toolsets alongside Investor-level reporting

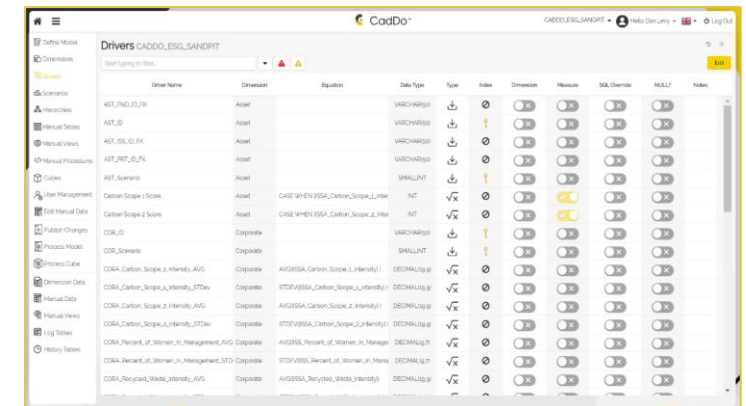
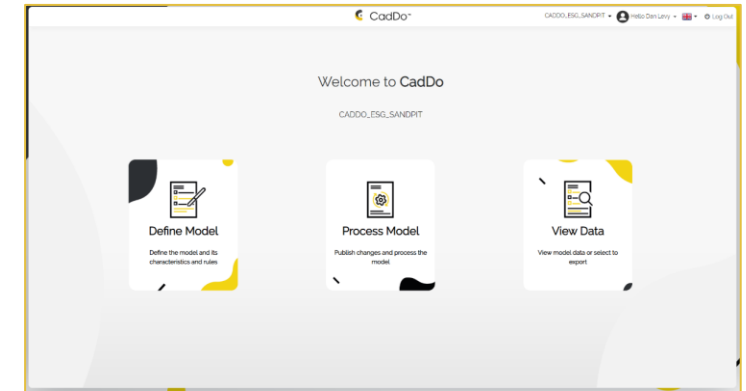
## ESG Risk & Opportunity into Asset Selection



## Investor-Level Reports



## The Science



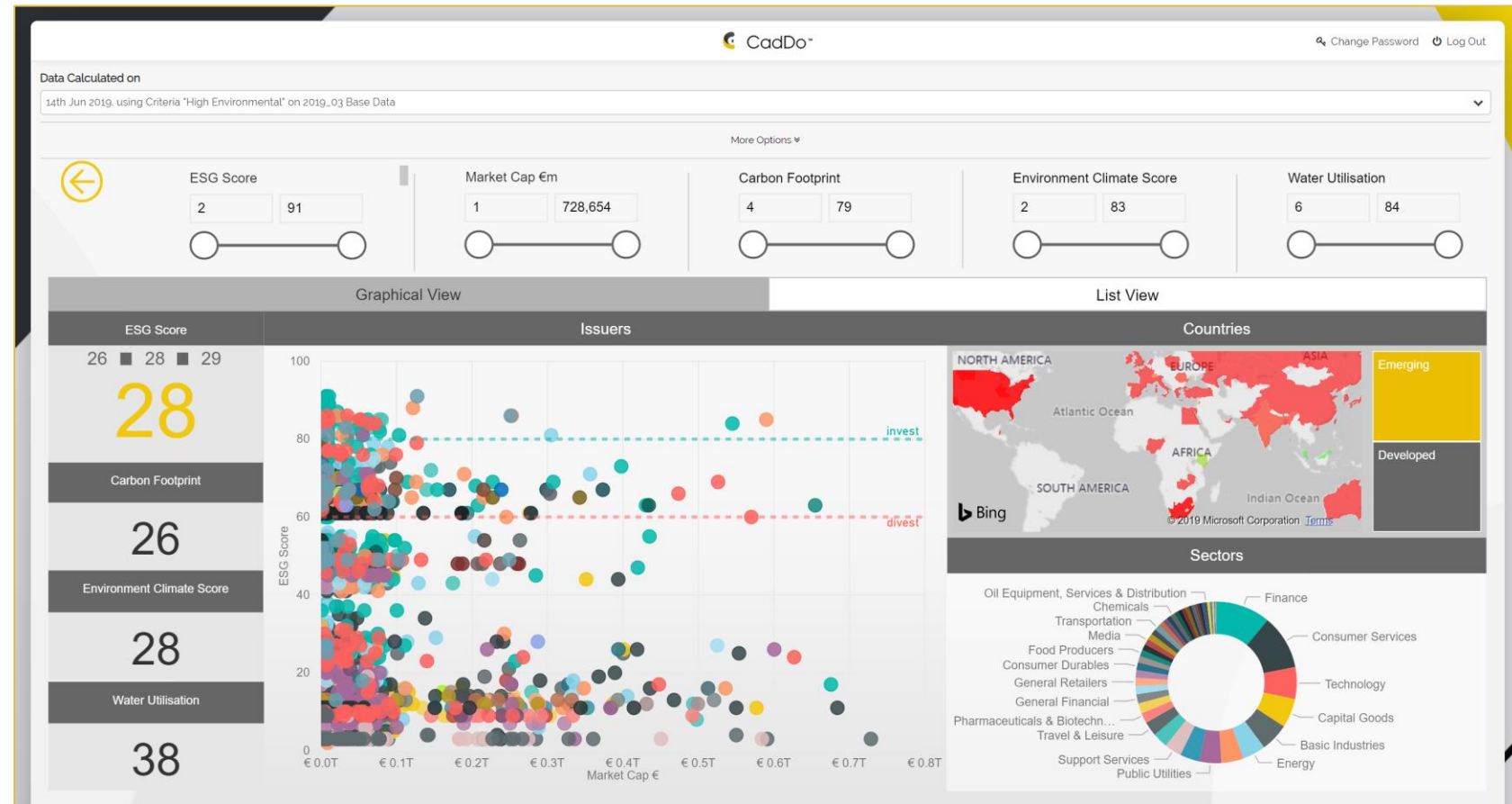


CadDo ESG

The starting point for any solution, is the ability to produce meaningful and usable ESG Scores

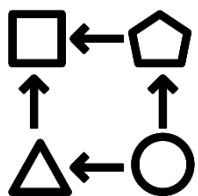
...A **single** indicator of the overall ESG performance, in accordance with the priorities and preferences of you & your investors

CadDo ESG delivers that out-of-the-box



Live demo...





## Portfolio Management is complex

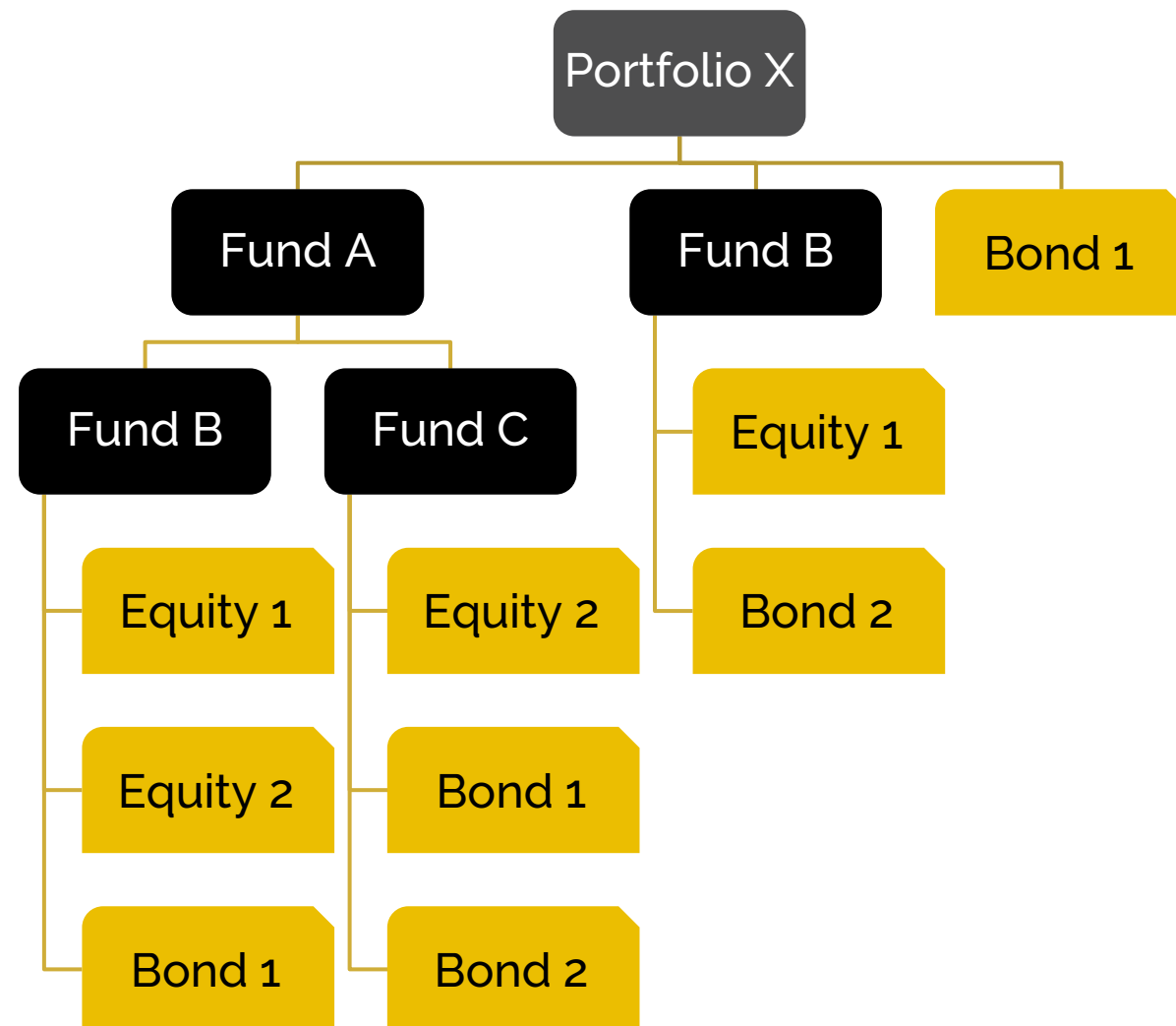
'Direct' ESG Scores can only be calculated for base securities (equities, bonds etc)

But investors buy funds to build their portfolios

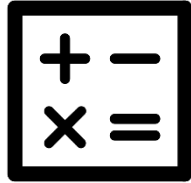
Funds consist of mixtures of base securities & other funds...which in turn may own other funds...eventually getting down to base securities

How do you get from the client's portfolio, down through the layers of funds, to the base securities and their ESG Scores?

And then how do you roll that back up to a portfolio-level ESG score?







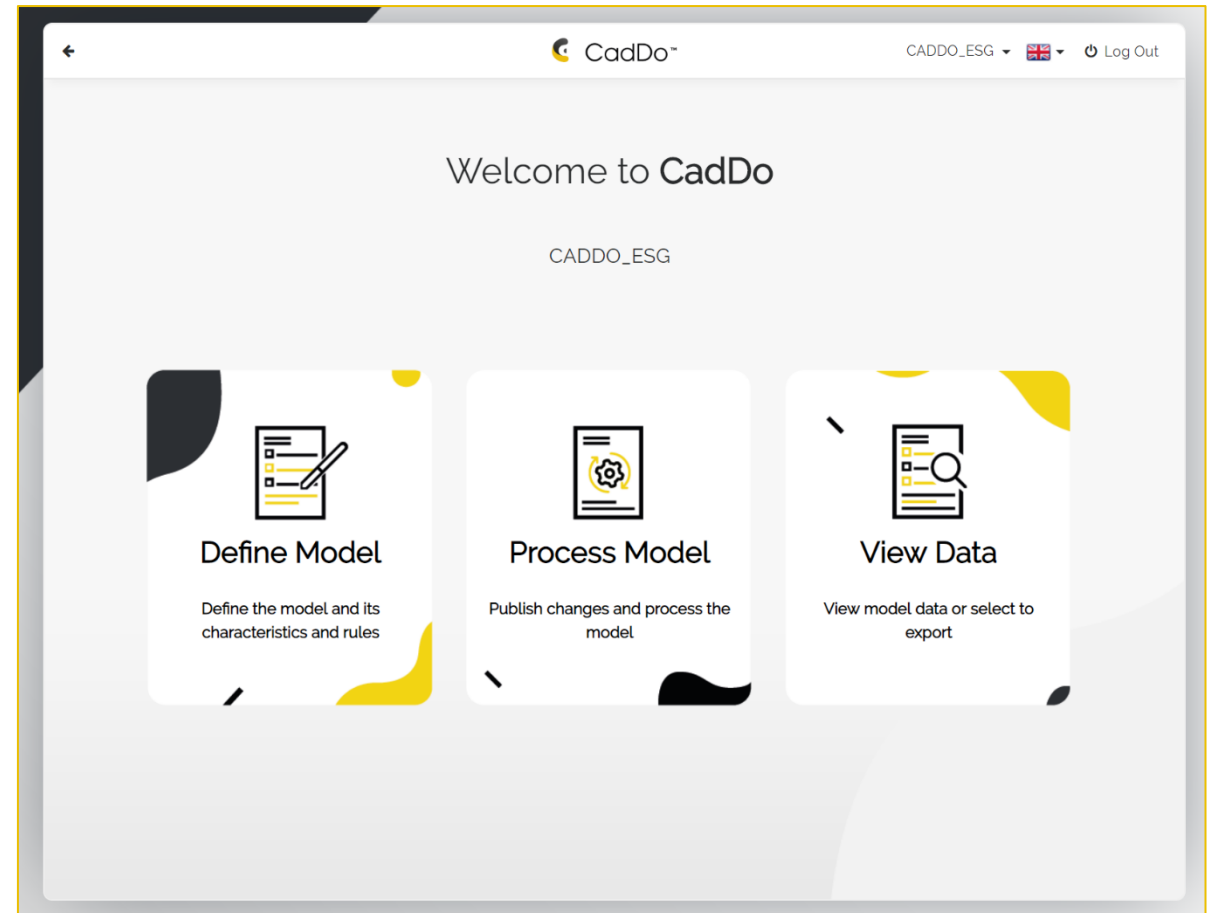
## CadDo Calculate Solves The Problem

Our CadDo Calculate engine is designed, from the ground-up, to solve problems like this

From parent-child relationships, to recursive allocations, CadDo Calculate delivers what's needed

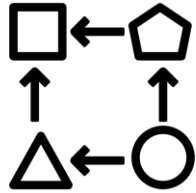
We build bespoke models inline with your requirements, but based on our extensive experience

All models run within our CadDo Calculate toolset meaning logic is auditable, controlled and visible



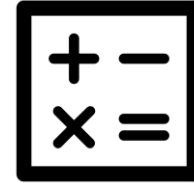
[Live demo...](#)





### CadDo Transformation

Technical expertise in data integration and business modelling with unique cross-functional skills



### CadDo Calculate

Class-leading calculation Software as a Service (SaaS) running on Microsoft's global Azure platform



### CadDo Analytics

Track record of helping clients improve business performance using Data Science methodologies

Underpinned by expertise in profitability & sustainability data, and analytics we help our clients in a broad range of areas, such as:

- Customer & Product Profitability
- Connecting Disparate Data Sources into a Single Version of the Truth
- Holistic Customer Investment

All delivered by a team of cross-functional experts across all these areas, allowing our 3-step model to be delivered efficiently without separate resources



ABInBev



actiam

GROUPES RENAULT



TESCO



GRANDE

DIAGEO

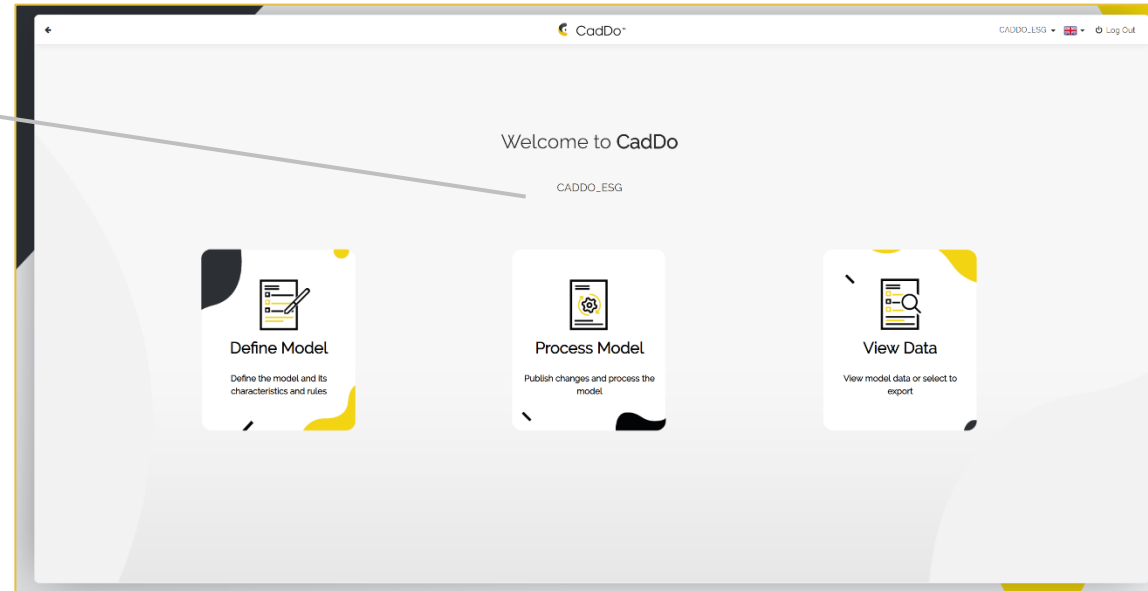


TechData



# The flexibility to build a model that works for you

Define, Process and View data in one place



Define your drivers and logic

**Drivers CADD0\_ESG**

Start typing to filter...

Driver Name	Dimension	Equation	Data Type	Driver Type	Index Type	Cube Dimension	Cube Measure	Override Equation with SQL	Notes
Carbon Emissions Scope 1	Asset	STDEV(ISSA_Carbon_Emi	DECIMAL(19, 9)	√x	∅	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Carbon Emissions Scope 2	Asset	STDEV(ISSA_Carbon_Emi	DECIMAL(19, 9)	√x	∅	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Carbon Emissions Scope 3	Asset	STDEV(ISSA_Carbon_Emi	DECIMAL(19, 9)	√x	∅	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ESG Score	Asset	PORA_ESG_Score_Weigh	INT	√x		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Jobs Created	Asset	(ISSA_Jobs_Year_0) - (ISS	INT	√x	∅	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Percent of Women In Management	Asset	CUSTOMJOIN(LOOKUP, V	DECIMAL(9,7)	√x	∅	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Recycled Waste	Asset	SUM(ISSA_Recycled_Wa	FLOAT	√x	∅	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

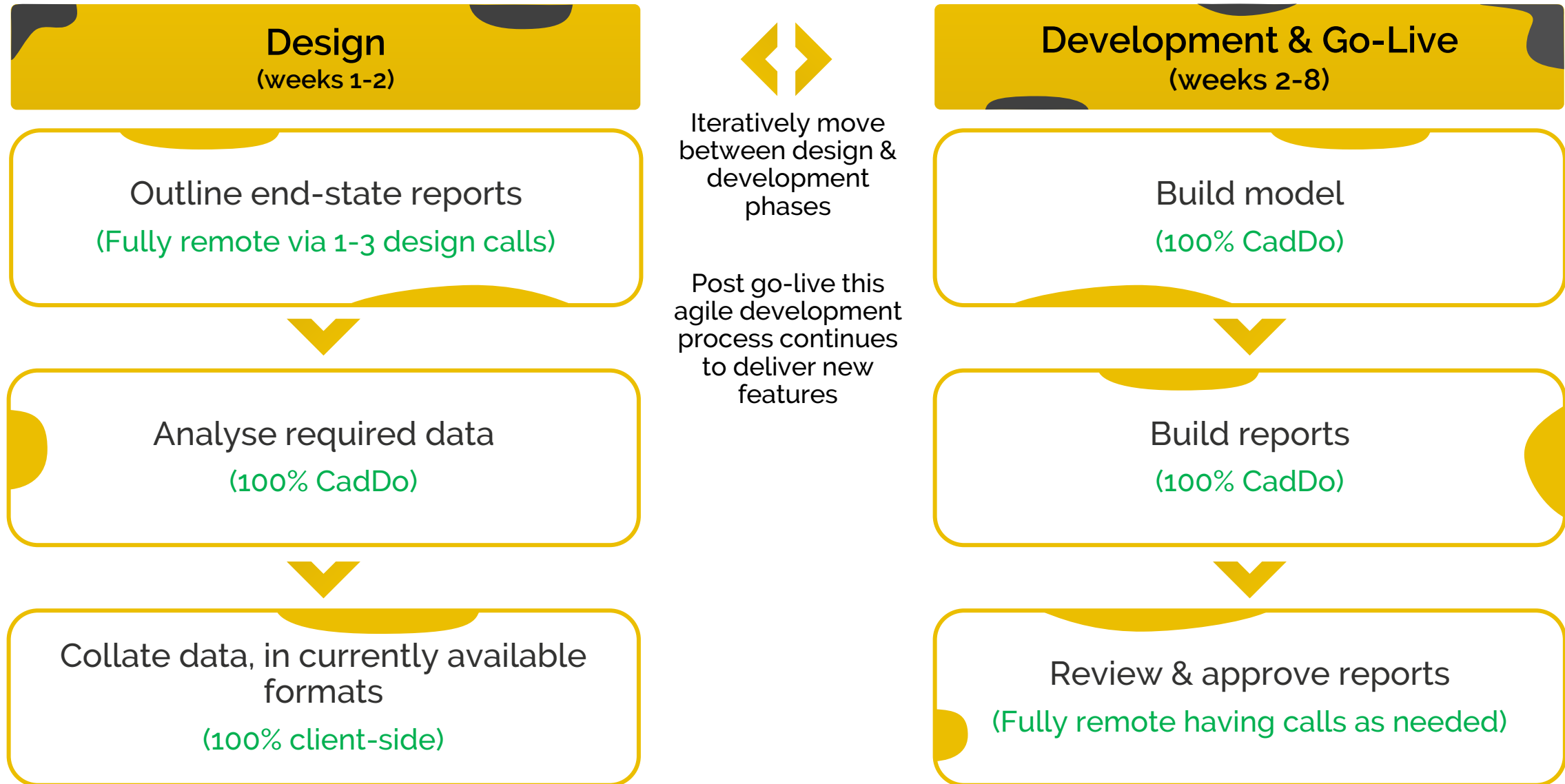
Build Scenarios & Hierarchies

## Our Solution

- Fully hosted. CadDo provide all the technology, management & support ✓
- Fully customisable based on your changing needs & changing requirements ✓
- Adaptive, enabling new features to be added quickly (days/weeks, not months) ✓
- Fully scalable – the solution will grow and develop with you ✓
- Client-specific reports, inline with your Marketing team's requirements, with CadDo doing all development work ✓

## Your Involvement

- Send your raw data as-is: no need to develop custom data extracts ✓
- Your IT team can play as big or small a part as desired, from day-1 and into operational running ✓
- Provide new requirements in a flexible way (mock-ups, drawings etc.): no functional specs! ✓
- You focus on your business requirements, we do the rest ✓





# **Reporting / Toolset Example Screenshots**

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Portfolio-manager Toolsets



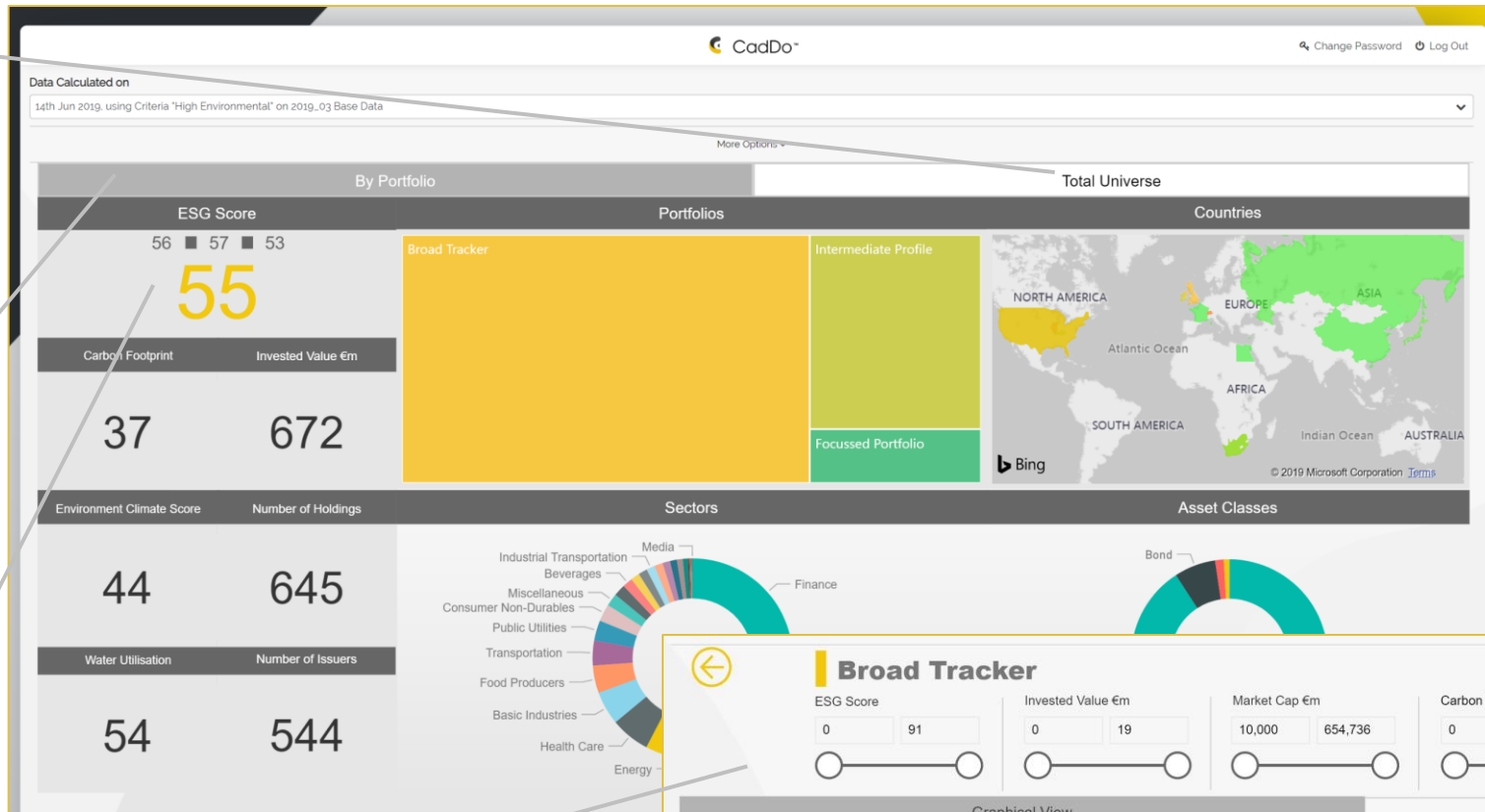
# The flexibility to see data by Portfolio, or the entire Universe of Issuers

See the whole universe of Issuers

...Or see a summary by Portfolio

See the ESG Score...or a score by E vs. S vs. G

Then drill into Portfolios & their holdings



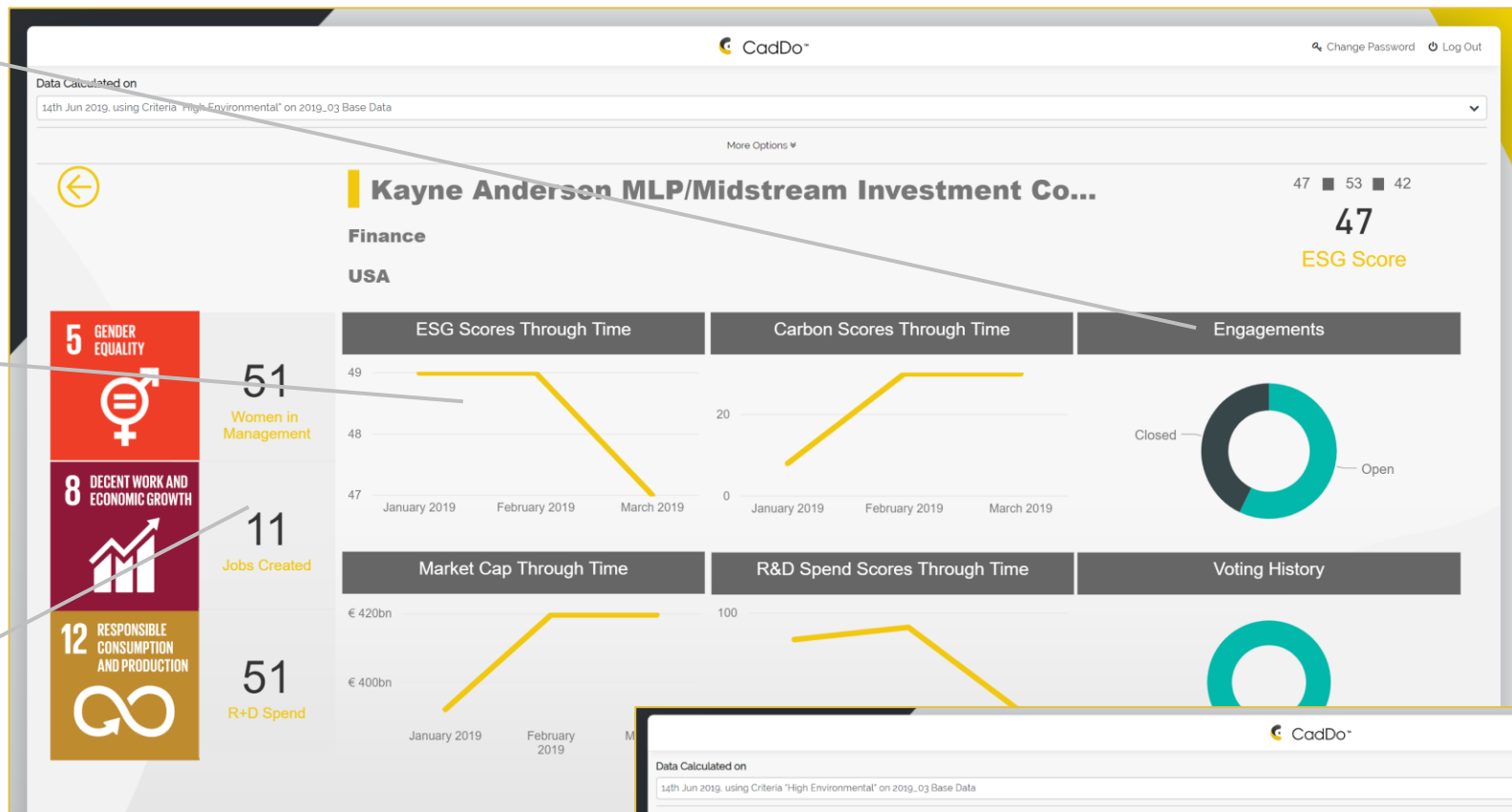
# 16 The breadth to include a whole range of metrics and trend analysis

Add extra 'leading' indicators

See trend analysis

Highlight key SDG metrics

Drill through to see further details



The screenshot shows the CadDo Engagements table for Kayne Anderson MLP/Midstream Investment Co... The table lists engagement details, including status, description, last changed date, and engagement explanation.

Status	Description	Last Changed	Engagement_Explanation
Open	Exploring revenue contribution to from coal mining (10-15%)	01 October 2017	No updates this quarter.
Open	Energy transition	01 July 2017	Engagement will continue to steer energy transition committee
Open	S.Korea arms scandal	01 January 2017	Without legal action taken, no movement has been taken yet
Open	water disclosure	01 January 2017	No progress. This year this engagementNo progress.

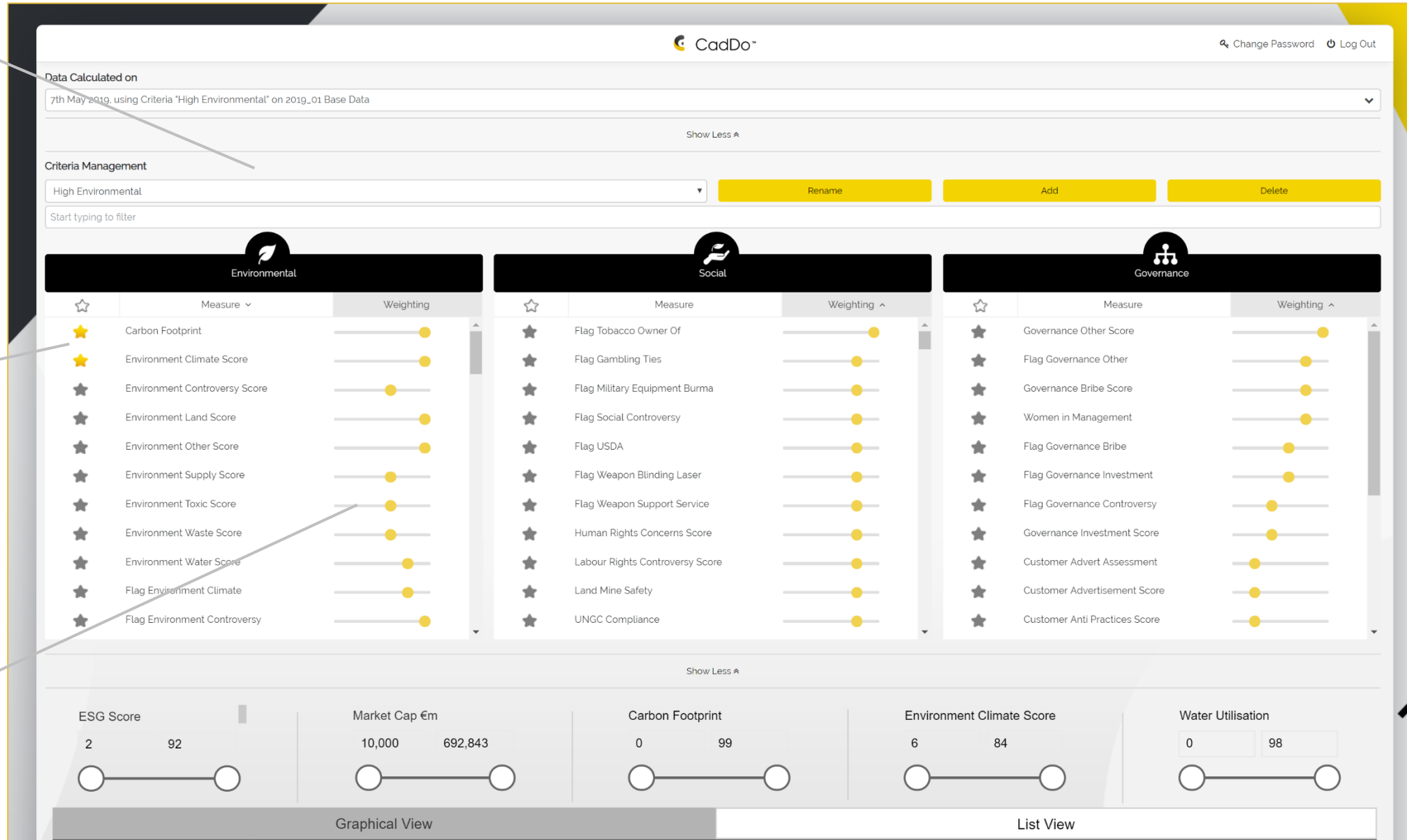


# The flexibility to define ESG Scores that suit your needs

Define multiple sets of criteria

Define your key metrics

Define your priorities by weighting each metric





# **Reporting / Toolset Example Screenshots**

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Investor-level Reports



## Personal Investment Report For Dan Levy

November 2019

Fundamentals plus  
Environmental, Social & Governance (ESG)

Powered By  
  
CadDo

## Personal Investment Report For Dan Levy Index Page

< Home

We believe responsibly managed companies are better placed to achieve sustainable competitive advantage and provide strong long-term growth.

Our approach to responsible investment seeks to capture best-practice across the globe. It is an investment-led approach that relies on understanding the issues, engaging with companies, and participating in the development of standards.

We have a rigorous approach to voting and engaging, and we publicly disclose our responsible investment activities accordingly.

**Your capital may be at risk. The value of investments and the income from them can fall as well as rise and investors may not get back the original amount invested.**

Dashboard >

ESG Rating >

Investment Value >

Engagements >

Voting >

Investment Principles >

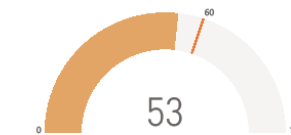
Quality Reviews >

For illustrative purposes only

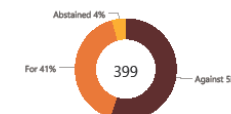
## Personal Investment Report For Dan Levy Investment Dashboard

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ESG Rating >



Voting >



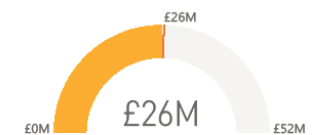
Carbon Intensity >

5.0E-003  
Goal: 5.1E-003 (+1.77%)

Water Intensity >

152.72K  
Goal: 155.04K (+1.49%)

Investment Value >

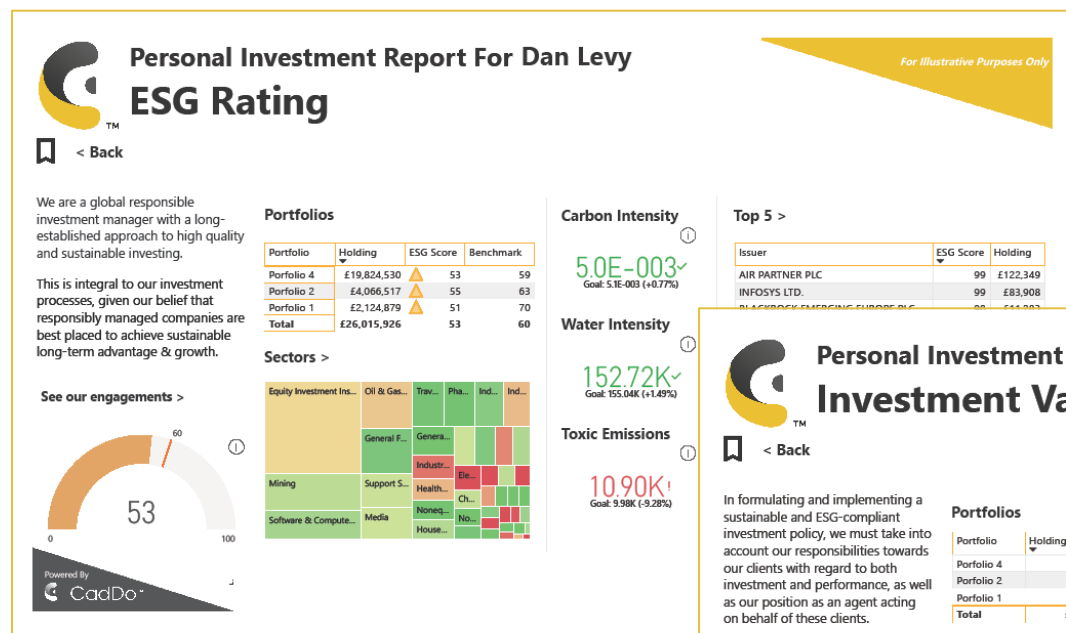


Engagements >

62 Active Engagements  
2 to read about

For illustrative purposes only

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### Personal Investment Report For Dan Levy

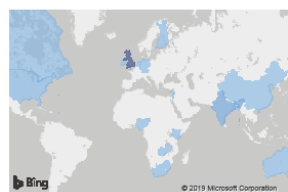
## Investment Value

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In formulating and implementing a sustainable and ESG-compliant investment policy, we must take into account our responsibilities towards our clients with regard to both investment and performance, as well as our position as an agent acting on behalf of these clients.

#### Portfolios

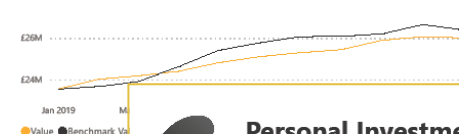
Portfolio	Holding Value	Share	ESG Score
Portfolio 4	£19,824,530	76.20%	53
Portfolio 2	£4,066,517	15.63%	55
Portfolio 1	£2,124,879	8.17%	51
<b>Total</b>	<b>£26,015,926</b>	<b>100.00%</b>	<b>53</b>



£26,015,926<sup>1</sup>  
(141%)

Powered By CadDo

#### Value Over Time >



#### Top 5 >

Issuer
ADEPT4 PLC
JSW STEEL LTD.
BRIGHTON PIER GROU
Bandhan Bank Ltd
ABCAM
<b>Total</b>

### Personal Investment Report For Dan Levy

## Voting Summary

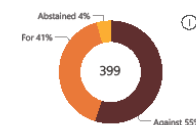
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A summary of all voting activity during the last quarter, including a regional summary, is illustrated here.

A rationale is available on drill-down for all resolutions.

#### Votes

Type	Count
EGM	200
For	56
Against	137
Abstained	7
AGM	199
For	106
Against	83
Abstained	10
<b>Total</b>	<b>399</b>



#### Topics



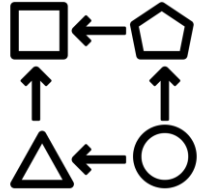
#### Top 5 >

Issuer	Sector	Domicile	Vote Count
AKERS BIOSCIENCES INC	Health Care Equipment & Services	United States	6
AIREA PLC	Household Goods	United Kingdom	5
ALBION ENTERPRISE VCT PLC	Equity Investment Instruments	United Kingdom	4
AIR PARTNER PLC	Travel & Leisure	United Kingdom	3
ALBION TECHNOLOGY & GENERAL V...	Equity Investment Instruments	United Kingdom	3

Powered By CadDo



# **Architecture Summary**



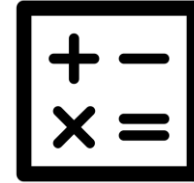
### CadDo Transformation

A set of native SQL procedures, invoking SSIS for just the step of importing data from the Excel source files

SQL and SSIS steps follow our standardised and proprietary methodology

#### OUTPUT:

Clean data loaded into CadDo Calculate



### CadDo Calculate

Multi-dimensional calculation engine, with all logical calculations in place

Application (coded in SQL) converts user-written simple formulae into native SQL which is executed against the database

#### OUTPUT:

All calculations performed and available for reporting



### CadDo Analytics

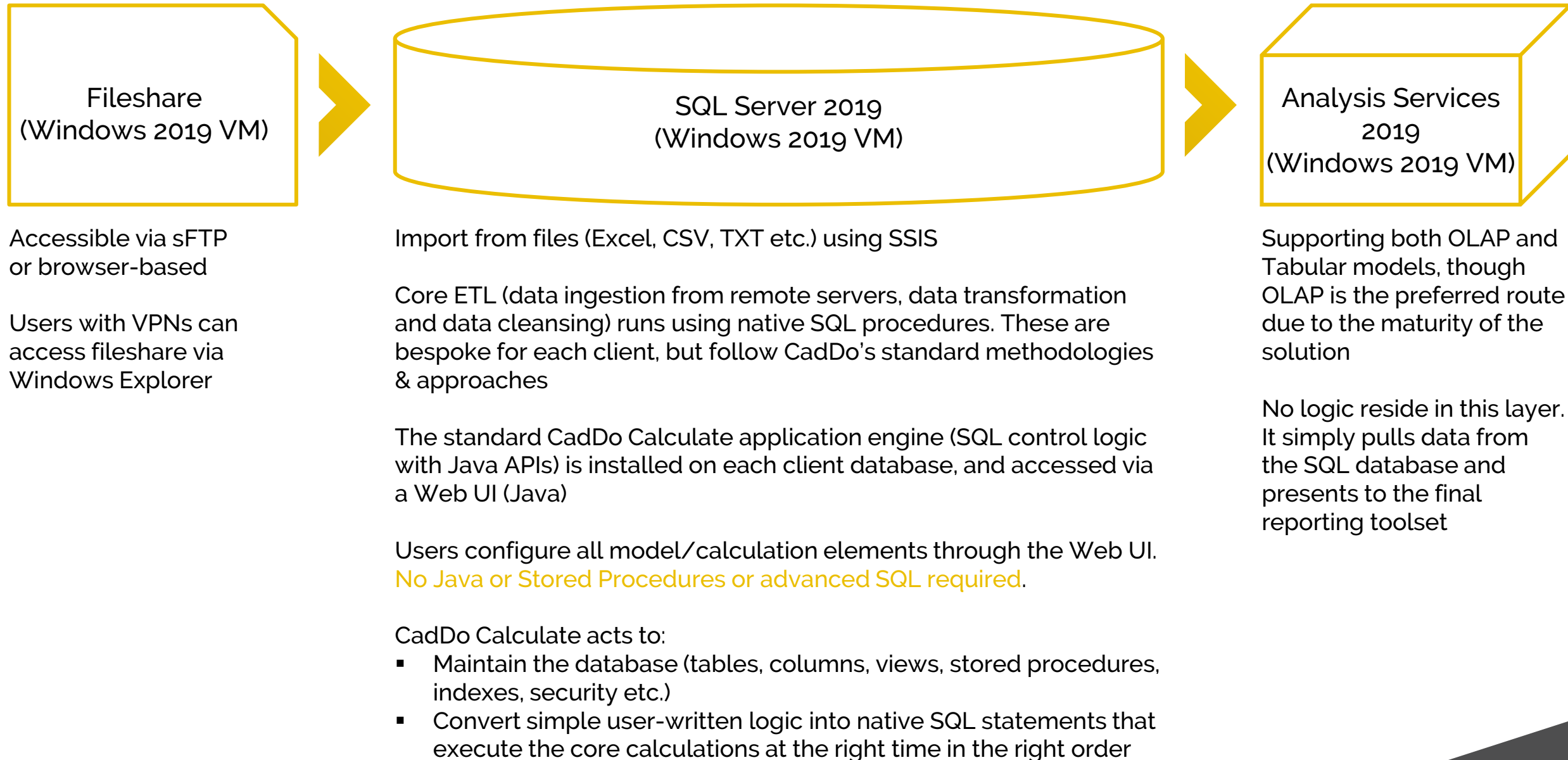
Microsoft SQL Server Analysis Services (SSAS) reporting cubes sourcing data from CadDo Calculate

Power BI reports fed from the SSAS cubes

(Other reporting tools like Tableau, Qlik, Excel etc. also supported)

#### OUTPUT:

The end-user report



### Multi-Tenancy

Client-specific databases sit on shared SQL Server instance alongside other client databases

No cross-contamination of data or functional procedures. Each database fully self-encompassing

Client-specific fileshares

Client-specific reporting cubes on shared SSAS server

Only CadDo resources allowed back-end access

### Dedicated Instance

Client-specific databases sit on dedicated SQL Server instance on shared Virtual Machine

No cross-contamination of data or functional procedures. Each database fully self-encompassing

Client-specific fileshares

Client-specific reporting cubes on shared SSAS server

Client resources allowed back-end access

### Dedicated Environment

100% client-specific infrastructure (SQL Server, Virtual Machines, Analysis Services etc.)

Power requirements of dedicated VMs would be determined as part of scoping and pricing discussions

Client resources allowed back-end access



