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# ADVANTAGE GREENGATE

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## Sustainability Scoring

Risk Analysis and Sustainability Scoring Model – February 2021

*The knowledge of choices*



## The Company

### Introducing Advantage GreenGate

Advantage GreenGate provides consulting services to corporate and investment funds on sustainability and green economy.

Advantage GreenGate offers specialized advisory on ESG footprint and develops scoring methodologies to assess sustainability.



More info on:

<https://www.advantagegreengate.com>



## The Model

### The underlying rationale

Advantage GreenGate's proprietary models are based on literature and internal research, backed by studies developed since 2011. *Omega Score* model extends to a broader concept of sustainability the relationship between ecological impacts, ESG data, efficiency, probability of default and other financial risk metrics.

A multiple statistical correlation approach is used to detect the relationships among sustainability and financial variables across companies, sectors, geographical areas and their evolution over time, so to allow clustering and benchmarking.

The outcome of the model consist of several metrics and analytics that allow a comprehensive and straightforward vision of sustainability risk across sectors, markets, geographical areas and time, and dependencies vs. financial variables.

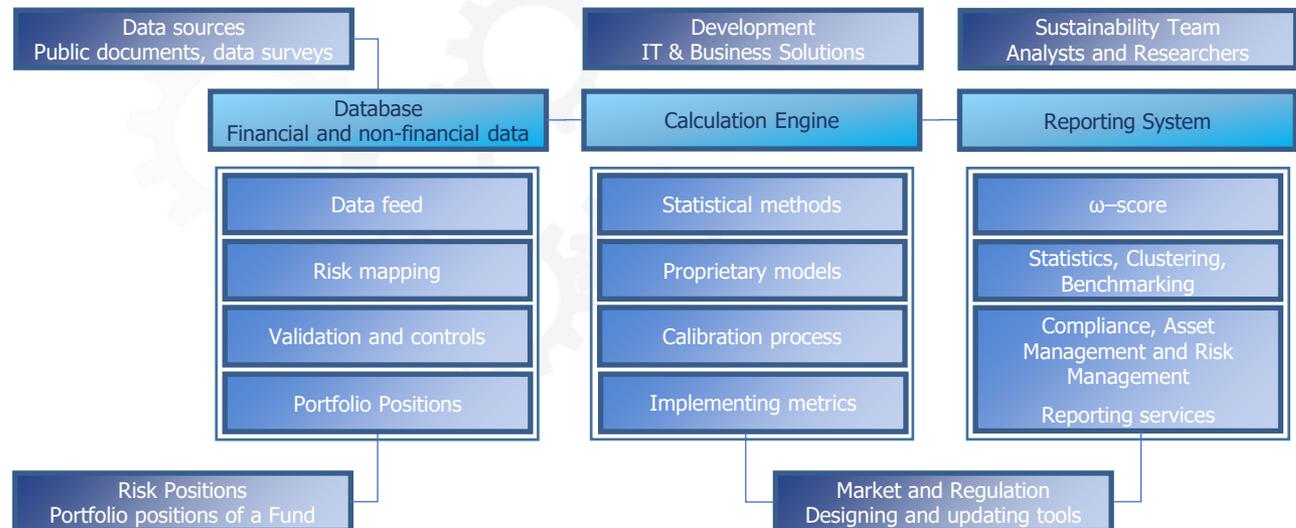
$\omega$ -score is then calculated as a risk-sensitive measure, and ESG weights are not arbitrarily defined, but derived through an endogenous calculation process.



## Data processing

### Data and key features

The computational framework is organized as a comprehensive database of financial and non-financial information, data processes, control procedures, calculation routines and reporting tools. Data integrity is guaranteed through extensive controls and robust procedures. A dedicated team of analysts and researchers continuously maintains and validates data, results and models.

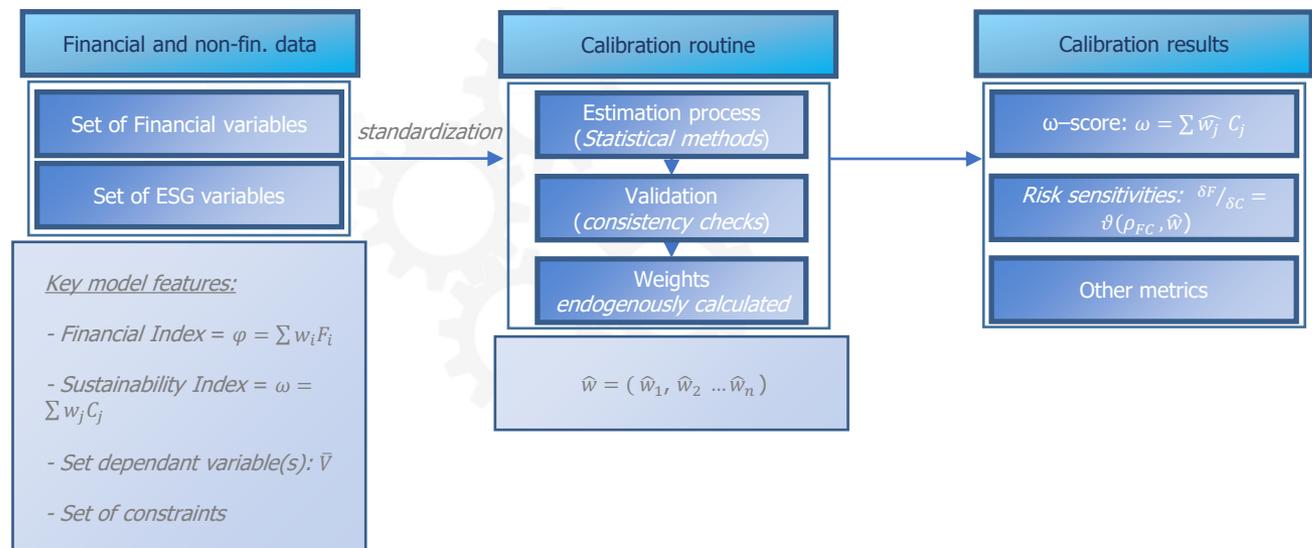




## Data processing

### Model Calibration

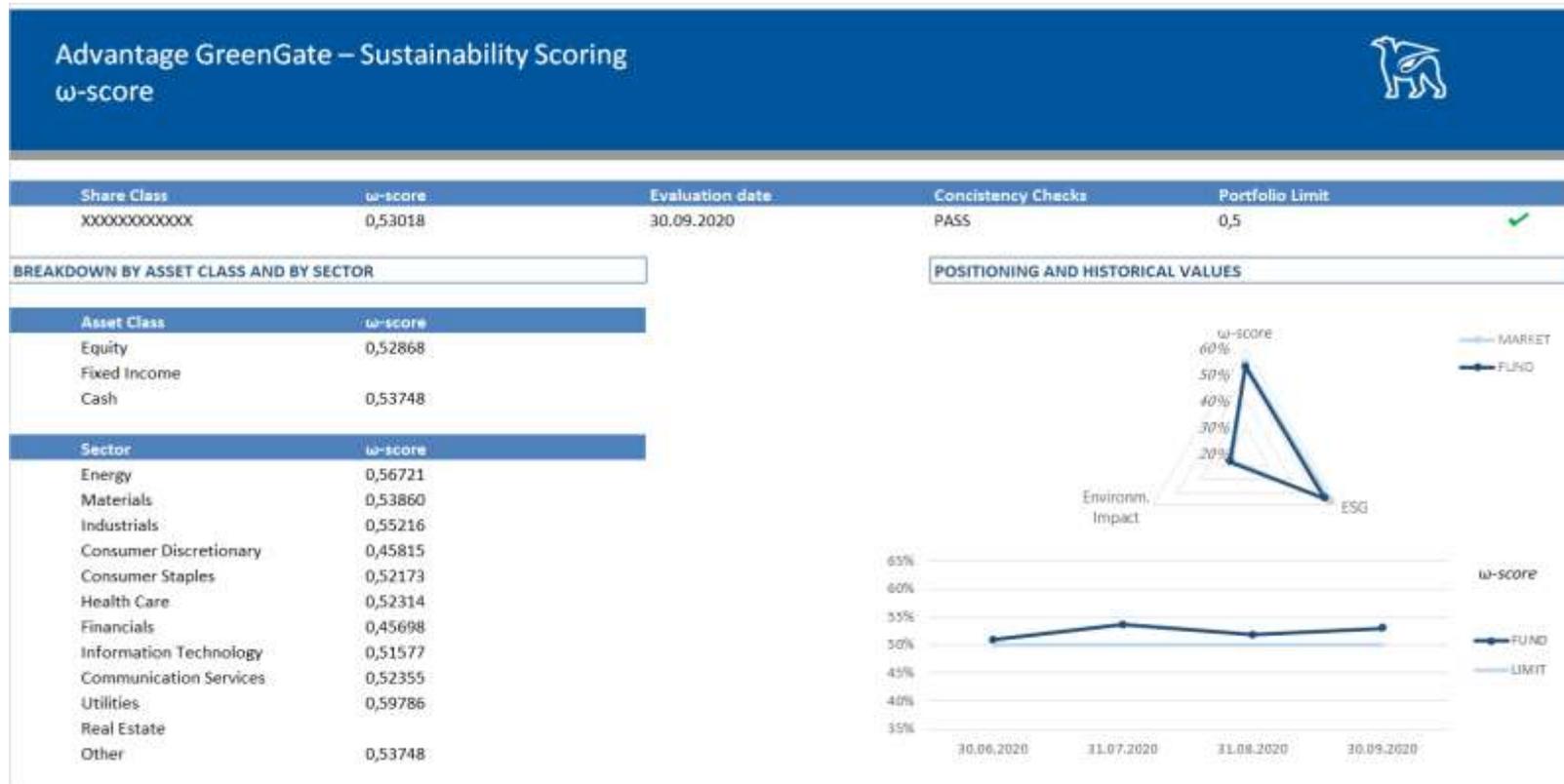
In the proprietary model, an objective function (dependent variable)  $\bar{V}$  is assumed or financial covariates  $F_i$  are used as the input of the calibration process (through canonical correlation). Weights  $w_j$  are calibrated by simultaneously taking into consideration both classes of variables.





Asset Management

Simple and effective tools





## Risk Management and Compliance

### Reporting: Company report

#### Advantage GreenGate – Sustainability Scoring XYZ CORP



#### Sustainability Scoring:

Company Name	Report date
XYZ CORP	01/07/2019

#### Risk Summary

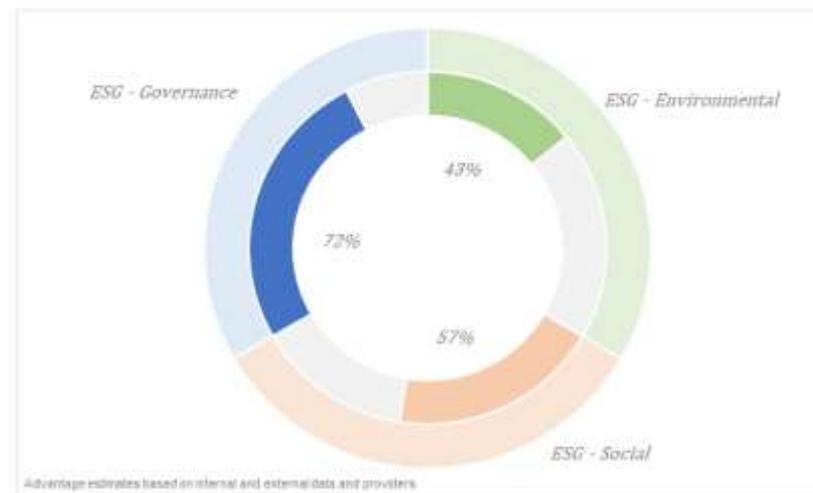
Key indicators	Value
COMPANY ID	*
COUNTRY	USA
REGION	AMERICA
INDUSTRY SECTOR	Cons. non-cyclical
INDUSTRY GROUP	Pharmaceuticals
INDUSTRY SUBGROUP	Medical-Drugs
SECTOR	Health Care
CURRENCY	USD
REFERENCE INDEX	SPX Index
WEB	*

TOTAL ASSETS (MN)	*
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Reference values as of 30.06.2019. Values collected and estimated by Advantage, based on internal and external data and providers.

#### ESG SUSTAINABILITY MAP

Disclosure of ESG information for each pillar.





## Risk Management and Compliance

### Sustainability Score as the output of the calibration process

#### Advantage GreenGate – Sustainability Scoring ABC FUND



#### Sustainability Scoring:

Fund Name	Report date	NAV date	Currency	Fund NAV	Category
ABC FUND	01/07/2019	30/06/2019	EUR	XXXX.XX	UCITS

#### Risk Summary

Risk Indicator	Value	Warning	Limit	Status
ESG - Environment	42%	55%	50%	🔴
ESG - Social	65%	55%	50%	🟢
ESG - Governance	61%	55%	50%	🟢
ESG - Score	56%	55%	50%	🟢
Calibration	YES			🟢
Risk Mapping	YES			🟢
Exceptions	0%	5%	10%	🟢
ESG - Score (Risk-adjusted)	51%	55%	50%	🟡
Risk - Environment	0,57%			
Risk - Social	0,53%			
Risk - Governance	0,34%			



## Risk Management and Compliance

### Keeping pace with evolving legislation and regulation

*Asset managers can rely on the  $\omega$ -score to easily rank and assess companies, and target a desired risk-reward profile.*

*Compliance, Internal Limits and Risk Assessments can be built on more solid and risk-consistent basis.*

*Updating risk valuations and scores, consistently with evolving regulatory provisions and EU directives.*

*Underlying methodology ensures that the computed index is risk-sensitive*

*Index weights computed endogenously through the calibration process:*

$$\widehat{W} = (\widehat{W}_1, \widehat{W}_2 \dots \widehat{W}_n)$$

$$\omega\text{-score: } \omega = \sum \widehat{w}_j C_j$$

*Risk sensitivities:*

$$\vartheta_i = \delta^F / \delta C = \vartheta(\rho_{FC}, \widehat{W})$$



## Contacts

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