



Robust data for sustainable financial markets



Collecting consistent and comparable climate data linked to economic activities is vital.

Frank Elderson, Chair of the Central Banks and Supervisors Network for Greening the Financial System, The Green Swan Conference, June 2021



THE BACKGROUND

The debate over how we impact climate change has rocketed into the financial mainstream. As we found ourselves in a new, isolated reality, it painted a picture of what the world could look like with less traffic congestion and a drastic fall in greenhouse gas emissions. This reignited the discussion on the shape of climate-friendly economies and sustainable businesses. From manufacturing to investment, all market sectors are witnessing a paradigm change as governments move from financial stability to financial sustainability. In the United Nation's far-

reaching agenda for 2030, the 17 Sustainable Development Goals (SDG's) have set the bar high in developing a green-friendly future. In parallel, regulators are aware that in order to meet their green agendas, they need to rely on adequate and timely sustainability data. However, with different sustainability concepts developing worldwide, regulators can be justifiably dissatisfied with the quality of information reported by organisations, data gaps or redundant data submitted to them.

HOW CAN ENVIRONMENTAL RISKS IMPACT FINANCIAL RISK ASSESSMENTS?



THE CHALLENGE

Low trust in company-reported data

Regulators find themselves facing insufficient data quality, gaps in data methodologies as well as inconsistencies in data.

Insufficiently granular data to measure environmental impact in various scenarios

Data granularity is a concept that relates to the level of detail of provided data making it easier to analyse and extract richer and more valuable insights. The level of data granularity determines the analysis that can be performed on the data, and whether results from that analysis will lead to appropriate conclusions. Due to the lack of established data standards, environmental data submitted by financial institutions is insufficiently granular to allow an in-depth analysis.

Lack of alignment with international policies and data standards as well as SDGs

With many sustainability data standardisation initiatives underway, the challenge facing regulators is to not only align their sustainable policies with the UN SDGs, but also to ensure that the data submitted by financial institutions is consistent with international standards.

AS A REGULATOR, I NEED TO...



Build consensus and trust through sustainability data standards



Support sustainability transition by creating green-friendly policies



Build effective open data models for environmental risk assessment



**CONSISTENT DATA IS
THE STARTING POINT.**

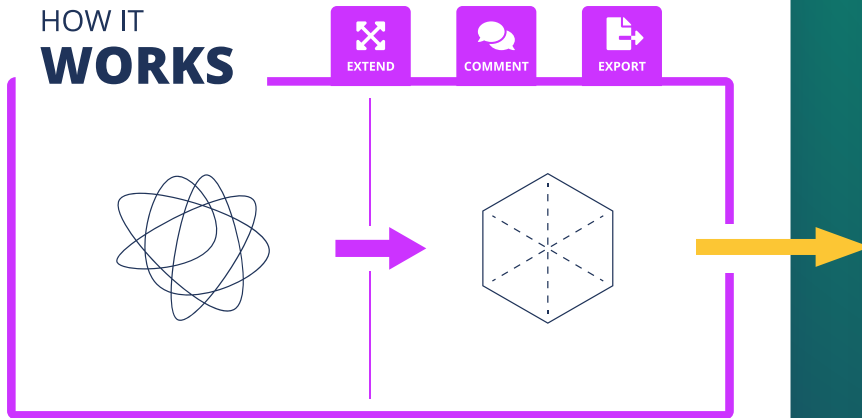
THE CONCEPT

With ATOME Matter, we can structure even the most complex datasets

The platform can be used by regulators to define and transmit their data requirements for climate-related and sustainable finance disclosures to regulated entities. Our concept allows for better capturing and structuring of relevant climate-related data digitally, supporting metadata management across standards, ensuring that data requirements could be delivered in a consistent, high quality, transparent and standardised way to gain the most of data standardization.

- Collaboratively construct a data model for standardised, environmental, granular data collection and risk analyses based on international sustainability frameworks.
- Use the model created on ATOME Matter for data collection and advanced data validation based on machine-readable regulations and rules.
- Make the data model interoperable with business intelligence solutions and reporting systems through output to visual representation of data and output to digital data formats.

HOW IT WORKS



Unstructured data...
Different data concepts...
Inconsistent data models...

Unified data model
Single data dictionary
Alignment with international
sustainability goals



We can change even the most comprehensive sets of data into easy to analyse, harmonised and standardised visualisations

THE SOLUTION

ΔTOME
Matter 

ATOME Matter is a metadata management platform designed to map data reporting requirements and to transform them into precise and clear data concepts, and enable teams to define data dictionaries, report forms and validation rules. The platform's features aim to provide a collaborative environment for data management teams and analysts to define and implement data models and taxonomies, by creating a common ground for collaboration between the market, namely financial institutions and advisory firms, and regulators. This collaboration process,

in turn, will drive ATOME Matter's core mission, which is to build a shared understanding of data requirements and to ease automation and machine readability in data exchange. Yet, the platform serves a few key purposes, such as defining data governance principles for the scope and granularity of data collection as well as building unified data dictionaries and transformation rules that cover multiple domains of financial and non-financial data across the banking and insurance, securities, capital markets and investment sectors.

At the heart of ATOME Matter is the initiative that the platform endorses digital transformation projects for financial market actors, enabling the conversion of regulatory requirements into machine-readable instructions and standardised dictionaries to build common data insights for organisations, stakeholders, and markets.

ATOME Matter allows further integration of data models, dictionaries and rules with an organisation's IT environments or datasets through multiple formats (Excel, XBRL format, JSON, SQL) via API functions.

The ATOME Matter platform is available as an on-premises or cloud-based platform.

MEET THE BR-AG TEAM

Technology has ruled today's lifestyle: from the smartphone, which is the centre of our daily activities, to the tools which empower us to work remotely. This trend has also affected financial market participants, such as financial institutions and insurance providers, which must keep up with the demanding regulatory reporting environment and the pressure to deliver high quality, granular data. At the same time, both central banks and regulators are actively paving the way for more efficient use of data that is provided to them. This is where we step in.

With over 70 members already on board, we are a multidisciplinary team of IT professionals, business analysts, designers, data engineers and product experts. Our areas of expertise vary, but we share one thing in common: a passion for discovering how business is reflected in data and the underlying relationships between them.

Since we collaborate with both ends of the data reporting ecosystem: financial institutions and regulators to support digitisation at national and cross-national levels, so far, our experience has made a significant contribution to the development of data standards not only in Europe, but also in Asia, Africa, South America, and Australia. We also engage in innovative projects and foster the use of open data standards in financial reporting. We use cutting-edge information technology to make recording, processing, and analysing data faster, safer, and more transparent.

Merging our business perspective with IT expertise, we have also developed our own data solutions. Our team look beyond the commercial aspect of what we do and operate as an internal driving force by brainstorming ideas to go outside the defined functionalities of our products and pursue the leverage of data technology to challenge the most pressing issues in the financial markets.

Having successfully explored opportunities to enrich the potential of our existing data solutions with new approaches beyond our commercial scope, we participated in the G20 TechSprint, for two consecutive years - 2020 and 2021, the Digital Innovation Challenge and the BIS TechChallenge. And we were shortlisted as finalists! We remain, therefore, dedicated to exploring new opportunities to leverage our existing data solutions in new fields, such as the Global Financial Innovation Network (GFIN) cross-border testing initiative, with more ground-breaking initiatives ahead.

As a result of fusing our experience in the regulatory data and technology space, we developed two platforms, one for collaborative data modelling and one for data validation. Both tools have been adopted by central banks and other supervisory authorities, not only as standalone validation and modelling applications, but also for more complex data management and integration projects as components of designed data flow and orchestration solutions.