

## REGTECH DRIVEN DATA MANAGEMENT

### Create and manage data flows to unlock regulatory data potential

Created by a team of regulatory reporting and IT experts, co-authors of data modelling methodology used by the European Banking Authority (EBA), the European Insurance and Occupational Pensions Authority (EIOPA), the Single Resolution Board (SRB), ATOME platform facilitates supervisory data reporting, validation and management for compliance, better data quality and integration. ATOME enables both the regulators and reporting institutions to better understand and manage regulatory requirements, supporting their teams with user-friendly solutions.

### As a regulator, I navigate a challenging landscape:



ΔTOME  
**Matter** 

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View, create, expand and manage data models and taxonomies



ΔTOME  
**Particles** 

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Convert, validate, import/export reports (XBRL/Excel)

ATOME Matter is a cloud-based platform to map complex regulations into precise and easily navigable data concepts. It is used to collaboratively create, review, edit or extend regulatory data models (e.g. national extensions of international data models) and deploy them immediately in the IT environment (export to various formats Excel, XBRL, SQL, JSON). Possible integration via APIs for greater interoperability with other systems. Preloaded with existing models (e.g. EBA CRDIV, ECB AnaCredit, EIOPA Solvency II and IORP, SRB resolution). Enables users to define data dictionaries, reporting forms and validation rules, exchange comments and collaborate with other users working on the model or taxonomy e.g. in the process of internal review or public consultation.

Intuitive, easy-to-use software designed to create, validate and import/export financial reports (Excel and XBRL format). The platform supports multiple reporting frameworks (CRDIV, Solvency II, IORP, SRB Resolution reporting). ATOME Particles adds an additional layer of quality assurance to ensure compliance of XBRL regulatory reporting. Convert Excel reports, and run quality checks against proven and tested validation rules to easily detect and correct errors. Gain better compliance control and data quality of filings (EBA, SRB, EIOPA) and improve data quality for more insights and reusability.

## As a regulator, I can use ATOME for...

- streamlining and improving the efficiency of regulatory workflow
- remaining committed to high standards of regulation and ensuring its overall coherence and consistency
- enabling innovative and technology-driven initiatives such as new reporting tools available for the market
- a common reference model and dictionary shared across different systems and teams
- managing multiple data models in one environment
- providing data lineage mechanisms and new analytics potential
- reducing compliance burden and risk of non-compliance (reporting errors)

## and my outcome can be:



### **Cost-effective innovation**

With less time and resources spent on regulatory data management workflow you free up your IT experts to engage in more strategic data science and innovation tasks, taking advantage of the shared environment interoperable with multiple formats (XBRL, SQL, Excel, JSON, APIs).



### **Unlocked potential of regulatory data**

By creating a common data model, single dictionary of concepts with a business user-oriented, easy to navigate solution, you can unlock your business analysis teams' potential in data governance, statistics, and analytics.



### **Improved transparency, understanding and standardisation of data**

With effective regulatory data conceptualisation, you boost transparency and understanding of the changing regulatory landscape and align your operations with regulatory consistency initiatives advocated by EU regulatory bodies, Financial Stability Board, IOSCO and other international standard-setters.



### **Better quality of collected data**

Improve the quality of supervisory data with a structured representation of requirements and agile approach to regulatory changes and extensions and a data quality assurance tool.



### **Expert support throughout solution implementation**

Take advantage of support and guidance provided by the team of regulatory reporting and IT experts, co-authors of regulatory data modelling methodology used by the European Banking Authority, the Single Resolution Board, the European Insurance and Occupational Pensions Authority and national regulators and supervisory authorities.

# A trusted partner for regulators. Globally.



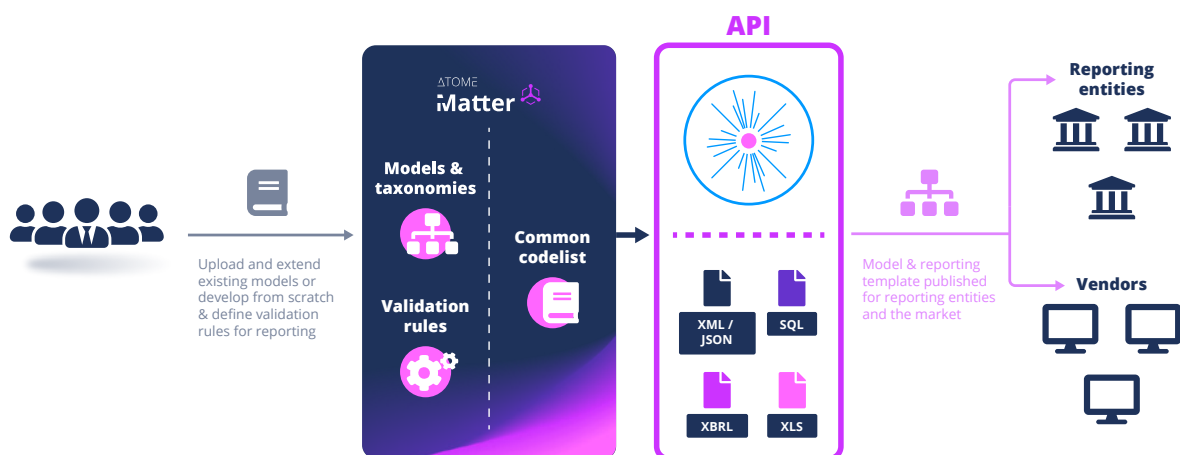
## ATOME for Data Model and Taxonomy Management

With ongoing regulatory changes and ensuring financial stability, the demand for unified, granular data grows.

With many data sources, structures and requirements present in the data ecosystem, it often creates a “data void”, where some data points can be overlooked, duplicated or incomparable, hindering decision making processes.

Establishing a common understanding of data models across both business and IT teams can be fuelled by using solutions that facilitate a better understanding of data and engage experts with diverse skillsets, from data architects to reporting and policy specialists. By fostering a consolidated approach to data, teams can build a unified data narrative and break down data silos.

Using technology to balance business needs and IT challenges, the ATOME platform is designed to create and develop open data models in collaboration across teams. Combining ATOME Matter and ATOME Particles components, it facilitates taxonomy management, testing and further publication to the market.



- Validate according to model / taxonomy
- Test models and rules on sample reports
- Test sample reports with Data Collection, ETL, DWH and Analytics

ATOME  
**Particles**

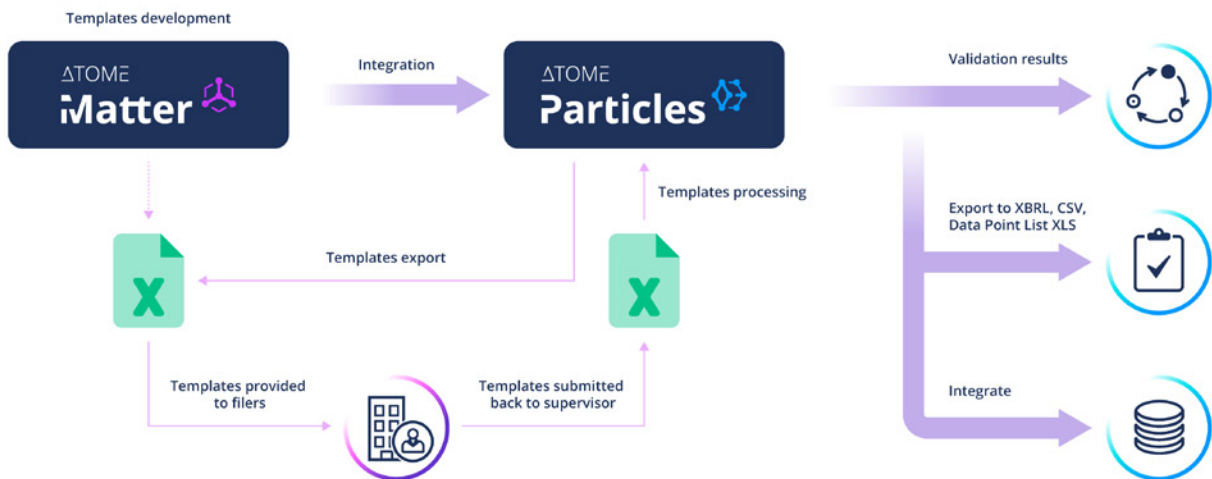


## ATOME for Ad-hoc Reporting

With ATOME Matter, templates developed within the platform can be exported using MS Excel format to facilitate quick reporting cycle. In order to speed up the process even more, modelling of such ad-hoc templates can be simplified for reporting purposes and later on amended for analytical/maintenance purposes.

Reporting entity is provided with such excel template to fill in with the data (other formats such as XBRL, Data Point List also possible) and sent back to the requesting authority. Then the file can be loaded via API to ATOME Particles API engine that could do the following actions:

- Report back results of validations (if there were any created for the ad-hoc report)
- Convert the original excel template to other formats such as XBRL file or Data Points list
- Create the 'Big Fact Table' which is an analytical view of the reported data, allowing for integrations with BI tools

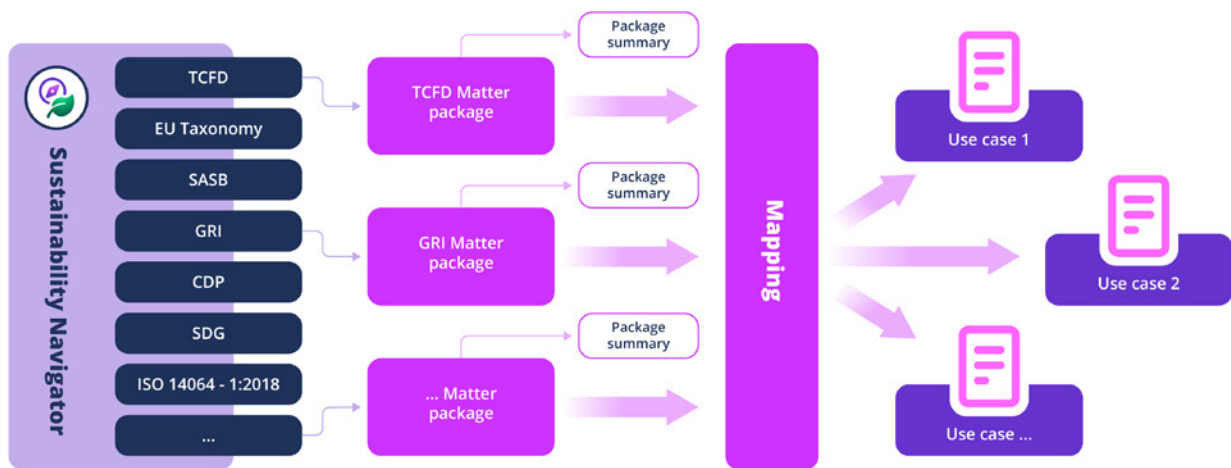


## ATOME for ESG / Sustainability

The platform can be used by regulators to define and transmit their data requirements for climate-related and sustainable finance disclosures to regulated entities. It 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.

## Sustainability Matter packages



## ATOME for Data Quality checks

ATOME Matter platform allows for the development and maintenance of data quality checks on top of existing data models. Such quality checks entail, among others, existence checks, arithmetical relations, logical rules or identification of outliers. Checks stored on the platform can be accessed via APIs, exported to various formats such as XBRL validations, excel files or integrated with ATOME Particles component for triggering these rules. ATOME Particles allows for running the rules either on a desktop or can be integrated with other systems via APIs (e.g. sending results of quality checks to Workflow systems).

## ATOME Mapping suite

Combination of ATOME Matter and ATOME Particles allows for building bridges between various data standards and later transforming one format to another via APIs (e.g. XBRL to SDMX).

## ATOME for IFRS / ESEF taxonomies

ATOME Matter is capable to facilitate the IFRS taxonomy implementation and extension programme as well as maintenance and periodic gap analysis with the underlying IFRS taxonomy. The platform allows for collaborative model design and review, making it possible to engage a variety of internal and external stakeholders in taxonomy extension development (e.g. industry associations, investors associations, government agencies).

ATOME Matter is a metadata modelling and taxonomy management platform, designed to map complex requirements and reporting obligations into precise, easily navigable, traceable and clear concepts that are reusable and facilitate management and maintenance of a single regulatory data dictionary. The platform enables to develop Data Point Models and XBRL taxonomies, define validation rules and integrate the outputs within automated data exchange and processing operations. The platform provides for export of created data models into various formats and offers possibilities of integration.

ATOME Matter allows users to work on data models and frameworks simultaneously and in real-time, through a user-friendly interface: create new and extend existing data models and taxonomies, track and access the history of changes and modifications of the model, boosting communication transparency and workflow efficiency of the team. Improved communication is further achieved via the social functions built into ATOME Matter, such as commenting, and consult taxonomies and models allowing users to provide and collect feedback in the process of internal review or public consultation.



**Manage models and taxonomies**

ATOME Matter enables to develop new taxonomies, models and their versions, each with multiple modules and table groups as well as extensions, modifications and management of existing ones.



**Support concurrent, controlled, multi-user access**

Scalable, web-based, accessible, multi-user environment.



**Collaborative work and consultation of taxonomies and models**

Users are granted rights according to their assigned profiles (Administrator, Data Architect or Reviewer rights).



**Comment and manage comments (accept, reject)**

The platform features a powerful and rich commenting facility allowing to provide feedback on any level of the taxonomy.



**Technical interoperability**

Possibility to export data models to multiple technical formats i.e. Excel, XBRL, SQL and or accessing via API.

The APIs provide the capability to integrate with other platforms' services



**Definition of business rules and data quality checks**

The platform enables to define validation rules and data quality checks.



## Business Reporting Advisory Group

Headquartered in Poznań, Poland Business Reporting Advisory Group (BR-AG) is a strategic partner for central banks, market supervisors, business registers, banks, insurers, and other market players worldwide in bridging the gap between financial policies, legal requirements, and technology. By connecting business knowledge, regulatory intelligence and an in-depth understanding of IT requirements, BR-AG supports financial markets and regulators alike in harmonising their data flows and fostering data transparency not only within the organisations themselves, but also in data exchange among various stakeholders. Focused on building strong foundations for financial innovation, BR-AG has leveraged a combination of the Team's expertise and data ecosystem solutions: ATOME Matter for data modelling and ATOME Particles for data validation, in "out-of-the-box" concepts. These proposals have gained international recognition, becoming shortlisted in both the 2020 G20 TechSprint, hosted by Saudi Arabia, and the 2021 TechSprint under the patronage of the Italian presidency, and made the final list in the EU 2020 Digital Innovation Challenge.

[Request free access to the platform](#)