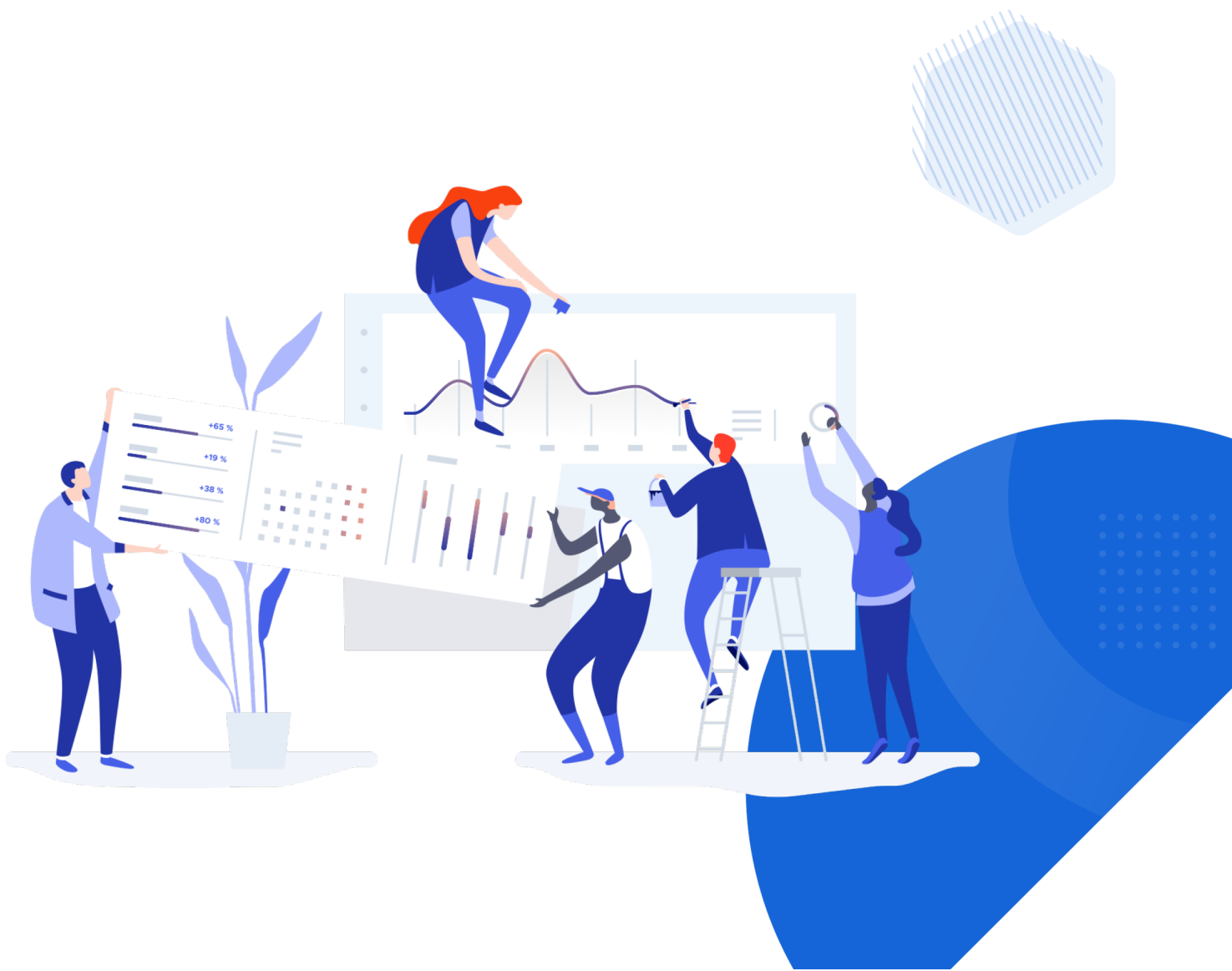


Meeting regulation by creating structure from unstructured trading data

Real time monitoring, audit, reporting and compliance



Companies need to show they're working within compliance rules

Regulation in Europe and the United States is placing an increasing burden on companies to be able to demonstrate transparency in their trading.

It is not enough to be compliant with regulation such as the EU's MiFID II and MiFIR directives, or America's Dodd-Frank legislation, companies have to be able to show they are working within the rules – and they have to be able to do it on demand.

What this means, however, is that companies are finding it increasingly more difficult to monitor huge volumes of data, usually stored on-premises in multiple locations. This in turn makes the analysis of data complex, resource-intensive and slow. It becomes harder for companies to be able to justify their trading activities when the regulators ask them to do so, especially when so many are still having to do it manually.

What's required is a tool that allows companies to create structure from all of their data, to be able to link and tag the data in real time at the point of collection, in order to mitigate compliance risks.

And they need to be able to do create those links and associations using tools that add value to the workflow rather than creating further overheads. And, as much of the process should be as automated as possible through artificial intelligence or machine learning.

The Dynizer Dynamic Semantic Index from Consono is such a tool. It helps you to future-proof your business through a systematic and proactive approach.

Trapped by legacy data and an 'old way' of working

The impact of regulation means that many companies have become trapped by their legacy data and the infrastructure behind it. They find it difficult to bring together the diverse information held by those multiple sources.

But they are also stuck in an old vocabulary that can't take into account new ways of working and communicating. They're finding it difficult to take on new types of data and new communication channels, and this is making them slow to respond to potential wrongdoing.

The result is that companies become at risk of non-compliance because 'the old way' means they can't meet their regulatory obligations, raising the twin specters of financial irregularity and reputational damage.

Often this leads to higher costs as companies attempt to clean and normalize their data.

Effective governance is the way forward

The way to spring the trap is through effective data governance. Companies need to address inadequate monitoring as a consequence of poor data quality, by bringing unstructured and structured data together in one place in order to analyze and understand it better.

This will also give them the ability to provide an evidence-based audit of the lineage of their data; where it came from, where it's been used and by whom, and how it's been changed, because under the rules, regulators will want to see an audit trail almost instantaneously.

Your company will need to capture and store trade communications – written or otherwise – for up to seven years. Many think they have this covered when, in fact, they don't.

Storing compliance information in a data warehouse is all well and good until you have to retrieve it quickly enough to prove your compliance; where and for what do you search in the first place when there's so much unstructured and untagged data to navigate?

If your company can't do that you may face significant audit fees and massive disruption to your 'business as usual' model. And if you fail, how badly could your reputation suffer?

How to be compliant

If you were to create a four-step plan to ensure compliance, it would go something like this:

1. Structure all of your data by transforming unstructured data in an intelligent way.
2. Link and tag this structured data in real time in order to mitigate compliance risks.
3. Structure the data at the point of collection. Create the links and associations in an organized way with a tool that adds value to your workflow.
4. Automate the process using some kind of artificial intelligence.

But actually, there's a fifth:

5. Do it with the Dynizer.

Creating structure from information

The Dynizer is a 'Dynamic Semantic Index', a technology that exists nowhere else in data usage solutions.

Briefly, as an index it offers fast, optimized access to any kind of data. It semantically categorizes data as a subject, object, space, or time – essentially Who, What, Where, When. And it can distribute over multiple containers for reliability, efficiency and scalability.

The Dynizer removes the barriers between huge volumes of varied databases and handles different types of data in the same way, thanks to a kind of artificial intelligence based on natural language processing combined with Consono's own linguistic analysis capabilities.

In this way it is able to transform the kind of unstructured data found in documents into a more regimented form, as would be more usually found in structured row/column data.


The Dynizer automatically connects structured and unstructured data, making productive associations between different data elements. It not only recognizes them as one of four simple types, but it also reveals the context surrounding those elements because of the way they fit together.

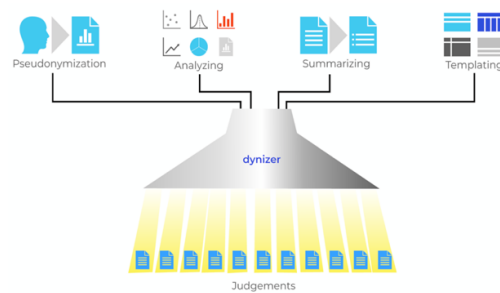
People, things, places, and events that appear in one context will be automatically linked to other people, things, places, or events with which they also appear in other contexts.

In this way, the Dynizer seamlessly simplifies data infrastructure, bridges the gap between data, the tools that use it and the insights they bring, and gives answers to any subject, object, space, time question based on the data itself.

Seeing the big picture

The Dynizer can be thought of in the traditional 'funnel' concept, where data is poured in at the top and somehow comes out as insight at the bottom. More accurately, it can be seen as a spotlight, where data is the power the Dynizer uses to create the light of information and insight.





The way the Dynizer works, where it can tokenize information makes it possible to substitute specific information in the data that might identify particular individuals for tokens that won't – a technique known as pseudonymization.

It does that through a process where intelligent AI-driven pipelines process structured or unstructured data to create a model that identifies all the names, roles, addresses, dates, actions and outcomes contained within documents.

It creates insight into the links between people, organizations, companies, places, outcomes, and judgements on the fly. All of this data can be fully pseudonymized, all in real time.

From scoping to delivery in weeks

A Dynizer solution can be delivered quickly – often in only a few weeks. This involves tuning the analysis of data which can be gathered quickly. The remaining time was spent creating a visualization of the data in an easy-to-use dashboard.

Once up and running, the process keeps rolling. New data is assimilated into the system in real time and can be interrogated in exactly the same way, however it is delivered, thanks to the system's extended query tool, which greatly enhances the existing functionality of standard Structured Query Language (SQL).

The system can help simplify any existing data infrastructure, without the need to replace it, because it links seamlessly to legacy systems without affecting the data already contained within.

Wider possibilities

There are three key factors that make the Dynizer different: Actions, which store the essential Who, What, Where, and When information that binds any data, and automatically creates the links between them, wherever they may appear; Augmented querying via the Dynizer's extended SQL; and Pipelines, the intelligent mechanism that recognizes the fundamental elements in structured data then takes it a step further by combining the elements in unstructured data into interconnected Actions, revealing more in the data than could be otherwise discovered.

Already benefitting the Court of Appeal in Antwerp, the Dynizer has also helped integrate multiple structured databases into one coherent model for Belgium's national rail organization, and improved stakeholder communication by providing anonymized insight from surveys for one of the country's leading trades unions.

Contact us

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