

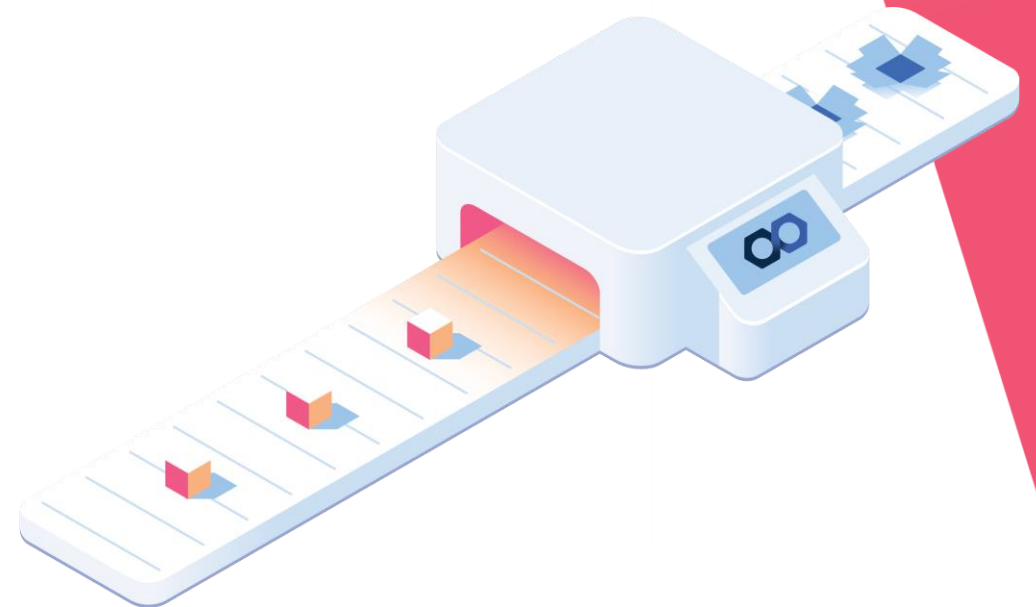
# consono

## dynizer

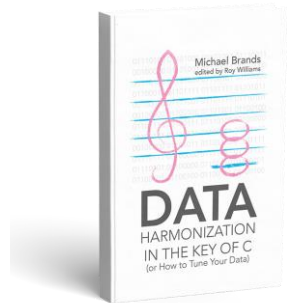
How to combine structured data,  
unstructured data and AI

Michael Brands  
Founder and CEO Consono.AI

consono



# Background



**Patent 1: Storage EP 3 249 557 B1 & US 10 437 872 B2**

**Patent 2: Querying EP 3 499 379 B1**

**Patent 3: Object modelling EP 3 805 956 A1 & US 11 068 459 B2**



*"It's unbelievable what this technology can do to understand and use data".*

Prof. dr. Marek Reformat  
(Edmonton University)



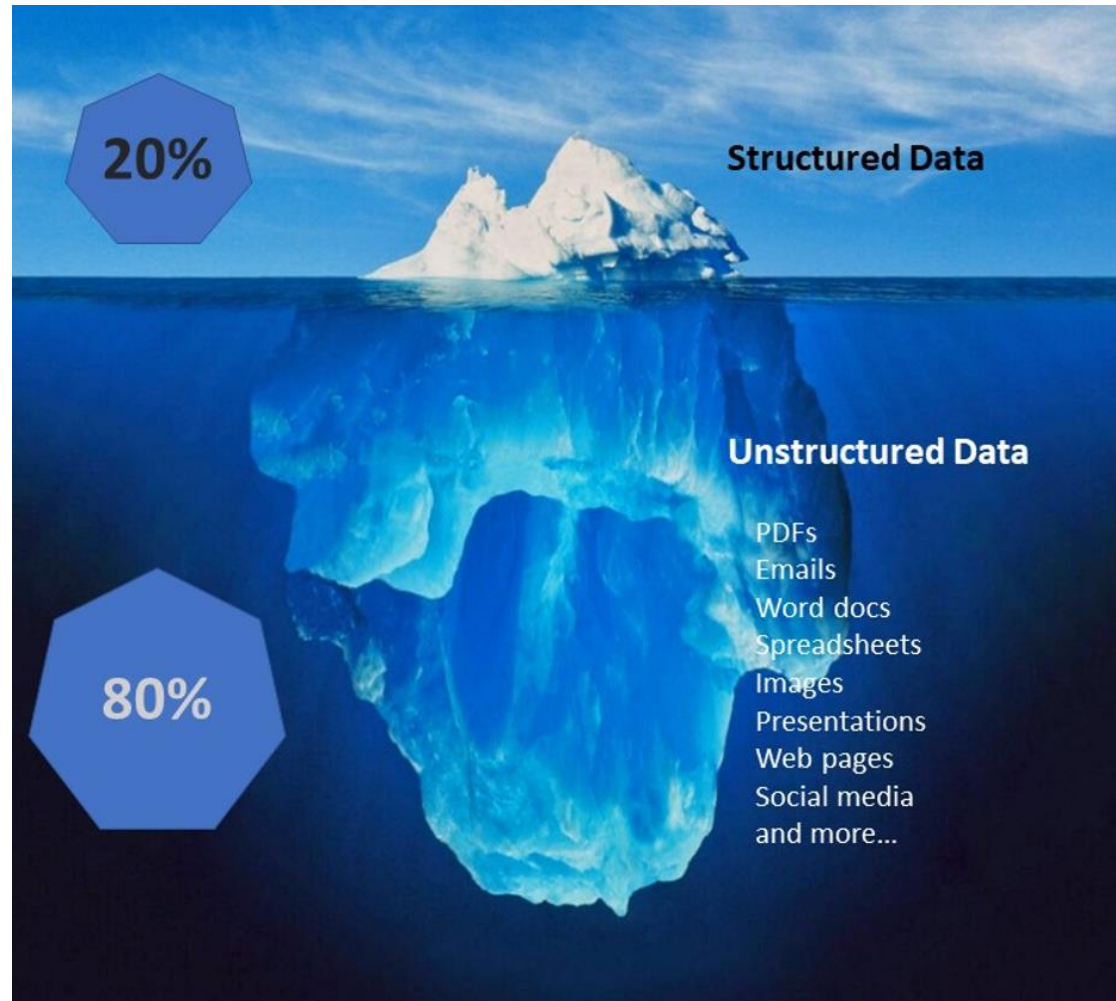
*"It's the first real breakthrough in databases I've seen since Relational Databases were developed".*

Prof. dr. Guy De Tré (Ghent University)

# Structured and Unstructured data

Data is as energy, without nothing works. It is the new gold

Johan Thijs, CEO of KBC



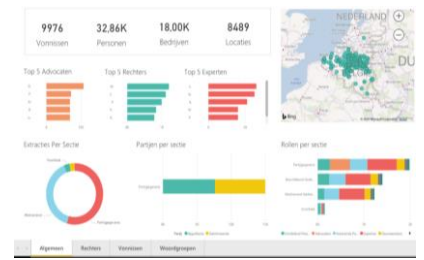
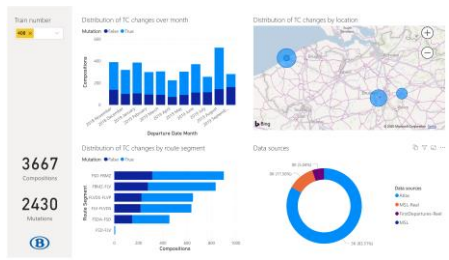
# Abstracted Semantics & Context



PRESCRIBER NAME		PRESCRIBER NUMBER	
Prescriber Name	State	Prescriber Number	State
Address	City	Prescriber Name	City
Telephone	Zip	Prescriber Address	City
Target Code per site	Single	Prescriber State	City
Source	Source Code	Prescriber State	City
Class	Class Code	Prescriber State	City
Year	Year Code	Prescriber State	City

**A Tragedy of Hamlet**

William Shakespeare's *Hamlet* is a tragedy about the Prince of Denmark who avenges his father's death by killing his uncle. The play is one of the most famous in English literature. The subject matter is the story of a prince who avenges his father's death by killing his uncle and taking his throne. The play is a tragedy about the Prince of Denmark who avenges his father's death by killing his uncle and taking his throne. The play is a tragedy about the Prince of Denmark who avenges his father's death by killing his uncle and taking his throne.



# AI Driven Document Analytics Process

Contract, CV, Report, ...

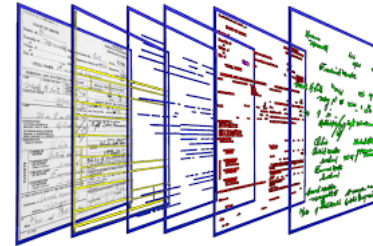


Extracted Text

2012/AR/3091  
1. GOLMEC BVBA, met zetel te 2140 ANTWERPEN, William Woodstraat 3;  
2. GOLDENSTEIN Paul, wonende te 2140 ANTWERPEN, William Woodstraat 3;  
appellanten,  
appellante sub 1 vertegenwoordigd, appellant sub 2 – tevens zaakvoerder van appellante sub 1 – aanwezig en bijgestaan door mr. KIPS Marc, advocaat te 2018 ANTWERPEN, Paleisstraat 24, tegen het vonnis van de Rechtbank van eerste aanleg te Antwerpen van 6 september 2012;  
tegen  
KBC BANK NV, met maatschappelijke zetel te 1080 BRUSSEL, Havenlaan 2, ondernemingsnummer 0462.920.226; geïntimeerde,  
vertegenwoordigd door mr. VESTERS Cindy loco mr. PEETERS Nick, advocaat te 2030 ANTWERPEN, Noorderlaan 98;



Dynizer Indexing

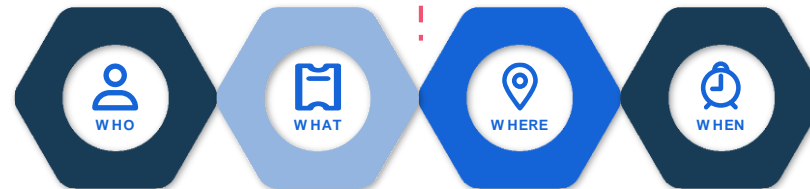


Alle rode prijzen en kortingen	29/8 t.e.m 11/9/2018	Colruyt
		Croky chips
		29/8 t.e.m 11/9/2018
		-25% vanaf 2 verpakkingen

Who - What - Where - When



Semantic Interpretation querying



# From Text to Trained Transformer Network

## Word Sequence to Embedding

US intelligence findings in december estimated that Russia could begin a military offensive in Ukraine as soon as early 2022

US	0000000
intelligence	0000000
findings	0000000
in	0000000
December	0000000
Estimated	0000000
That	0000000
Russia	0000000
Could	0000000
Begin	0000000
a	0000000
Military	0000000
Offensive	0000000
In	0000000
Ukraine	0000000
As	0000000
Soon	0000000
As	0000000
Early	0000000
2022	0000000

## Full Semantic Sequence to Embedding

US intelligence findings in December estimated that Russia could begin a military offensive in Ukraine " as soon as early 2022 .

Action: Estimate

Action: Can Begin

What: US intelligence findings

Where: Russia

When: in December

What: a Military offensive

Where: Russia

Where: in Ukraine

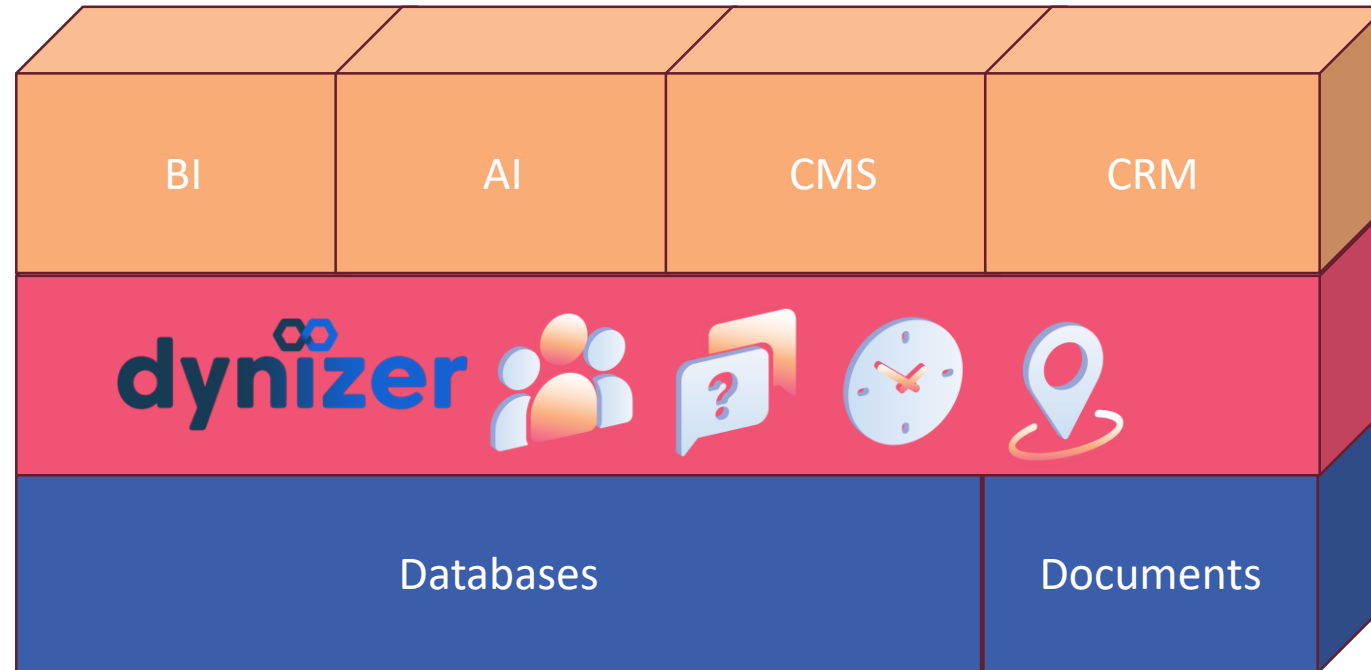
What: a Military offensive

When: early 2022

Where: in Ukraine

When: early 2022

# Dynizer in an existing architecture



# DEMO:



**dynizer**





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# Dynizer Usecases

- Archive Intelligence



- Police Research

- Welfare Case Management



- Anonymisation of Soil Analysis Reports



SAMEN MAKEN WE  
MORGEN MOOIER

**OVAM**