



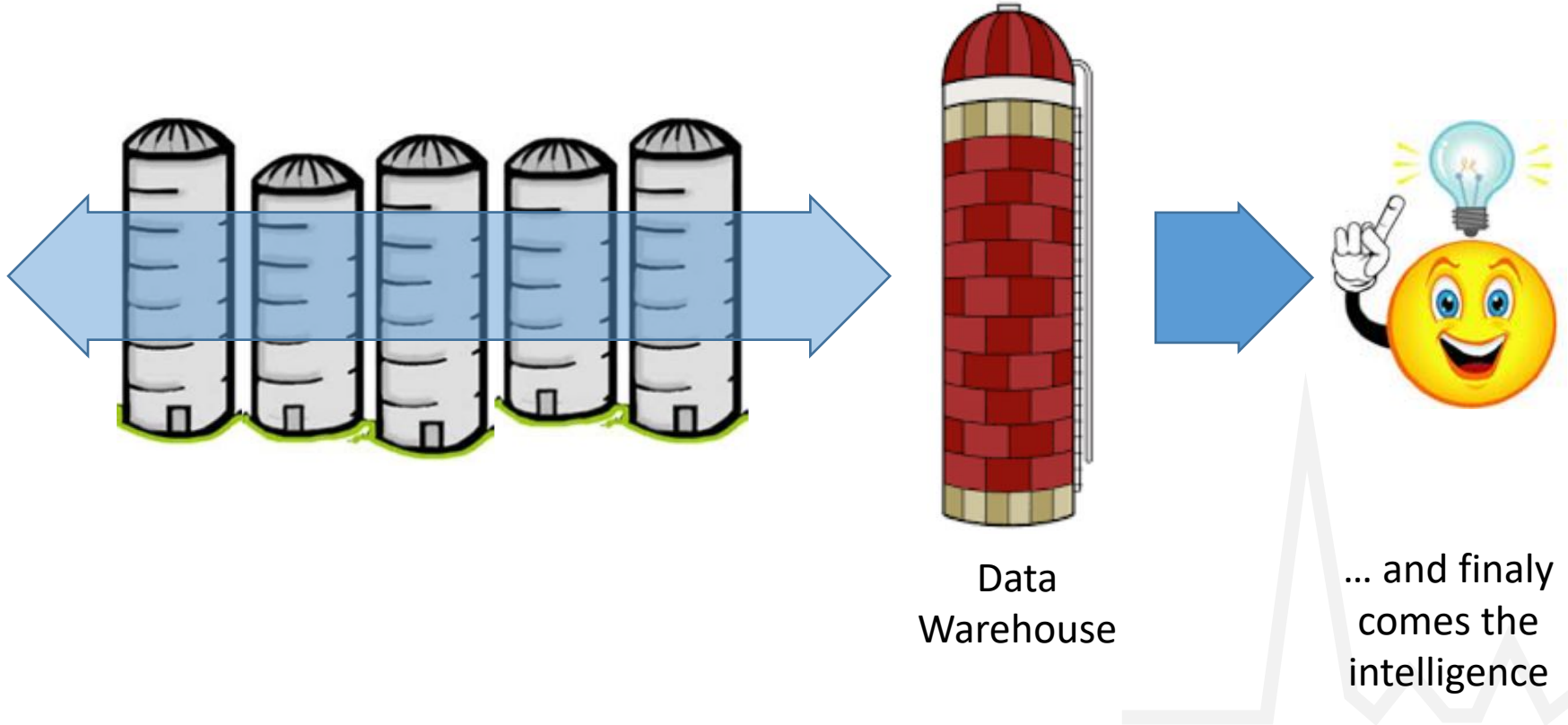
Time Series

Time series and geo time series: a disruptive approach in detecting weak signals in security and cybersecurity

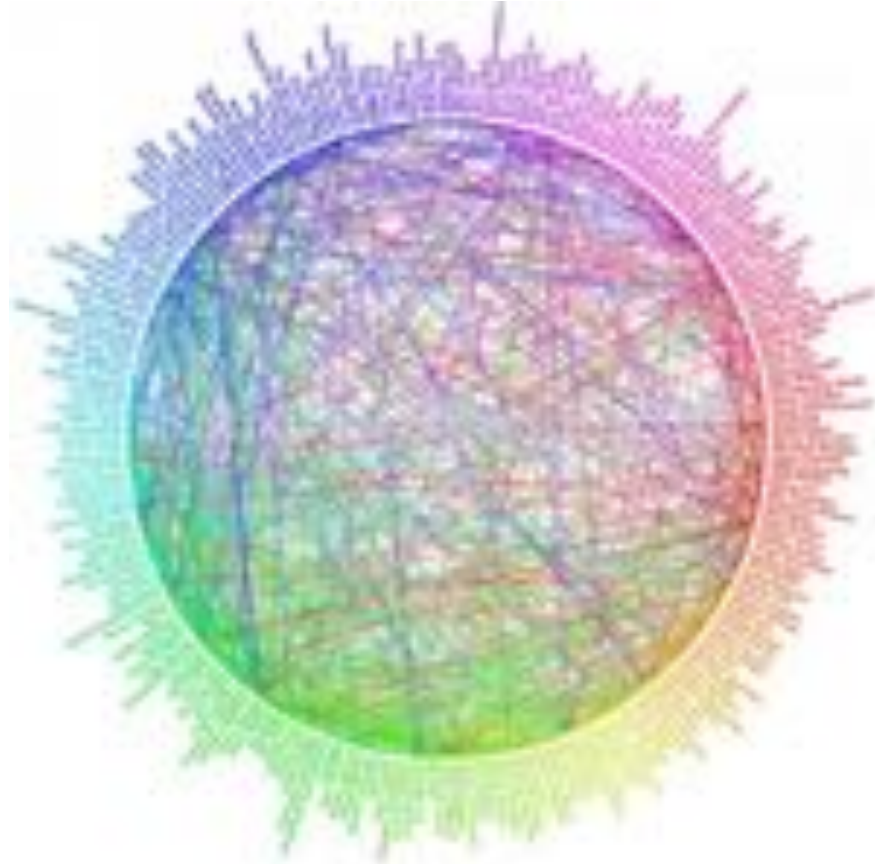
Traditional data management based on structured content



Traditional data analytics: from silos to business intelligence



The dream of semantic web



Big data: A buzzword

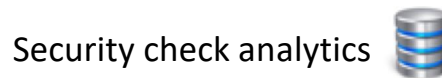
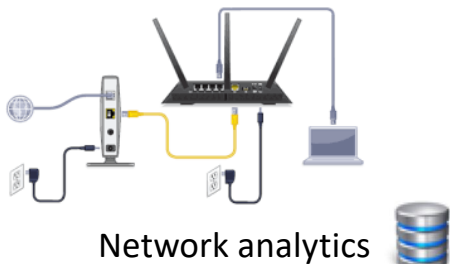
	Data categorie	Databases	Big data issues	Ratio in organisations		
				2000	2015	2030
#1	Data from major companies databases	Relational SQL	Business Intelligence	94%	70%	5%
#2	Data from documents, social networks, videos ...	NoSQL	Content data analytics, semantic	3%	25%	40%
#3	Data for Sensors, Meters ... measures	NoSQL Time Series	Maths, statistics, signal processing	1%	2%	40%
#4	3D Modeling	Structured Géospatial	Geospatial navigation	2%	3%	15%

ITEMS / Cityzen Data

Security: A major concern with Social Media



Security and cybersecurity on the same way

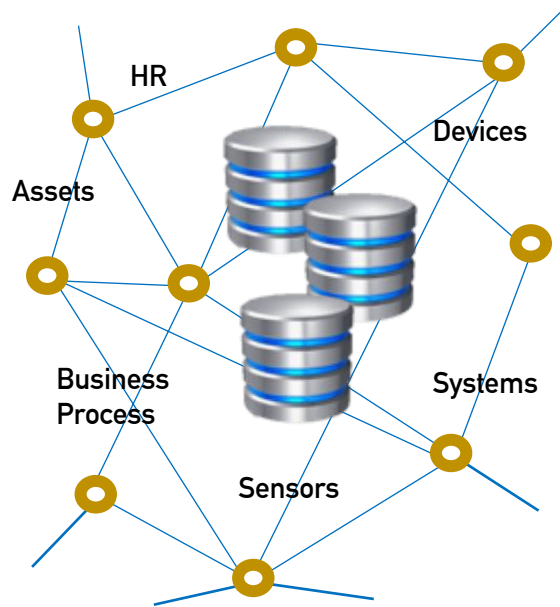


Time series: a new generation of databases that come from sensors/iOT data



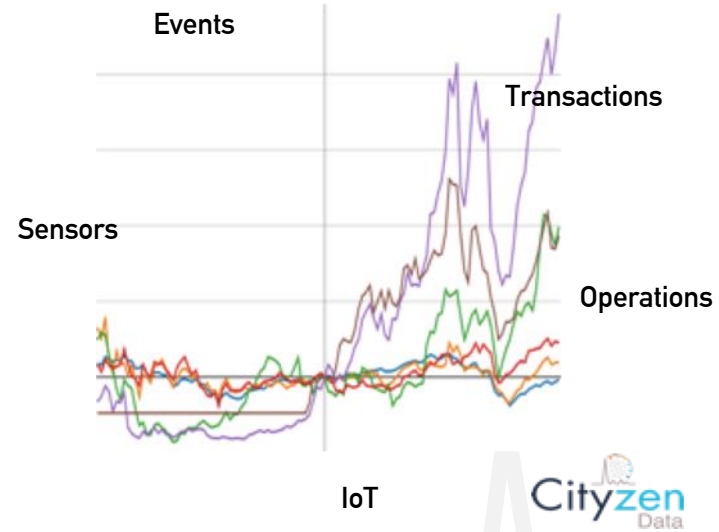
Key data is time

A disruptive way from transactions to flow



IT architecture driven by transactions
(today)

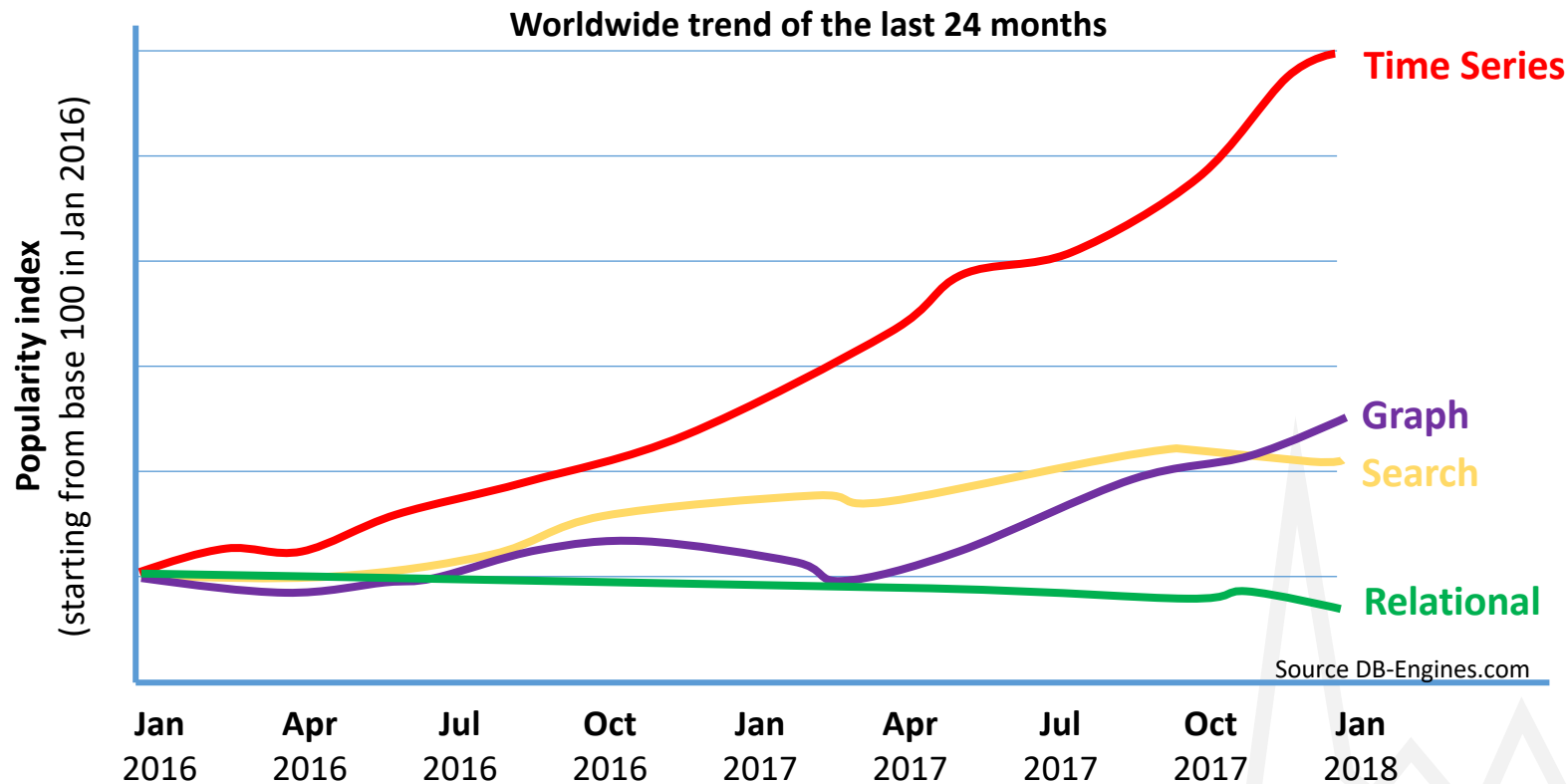
Rigid business applications & databases



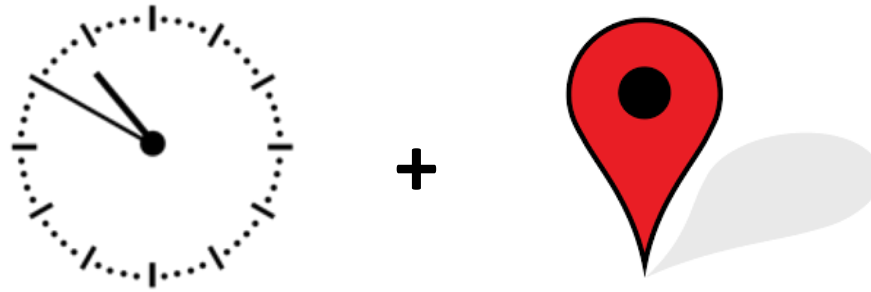
IT architecture driven by stream of events

Flexible and scalable architecture

The rise of time series



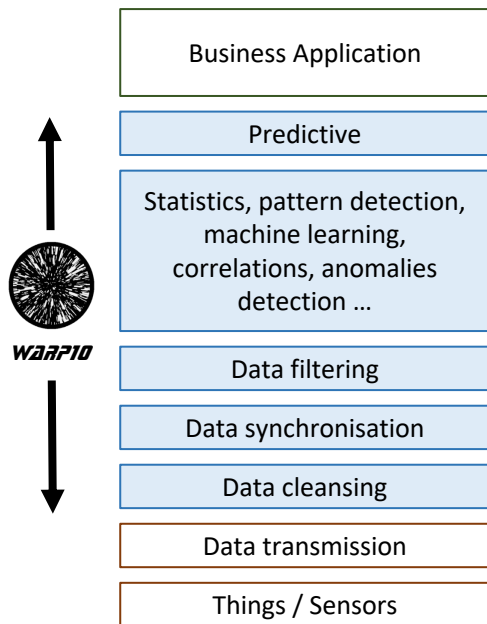
Time Series & Geo Time Series ® with Warp10



A disruptive architecture for sensor data in which all data defined by time+location



A horizontal approach to analyse



A stack based language
dedicated to time series
analytics

A library of **800** functions

From summary statistics to advanced signal
processing, machine learning & Artificial intelligence



Time Series: the link from Big Data to Artificial Intelligence

Disruption comes from:

1/ Deep
data
history

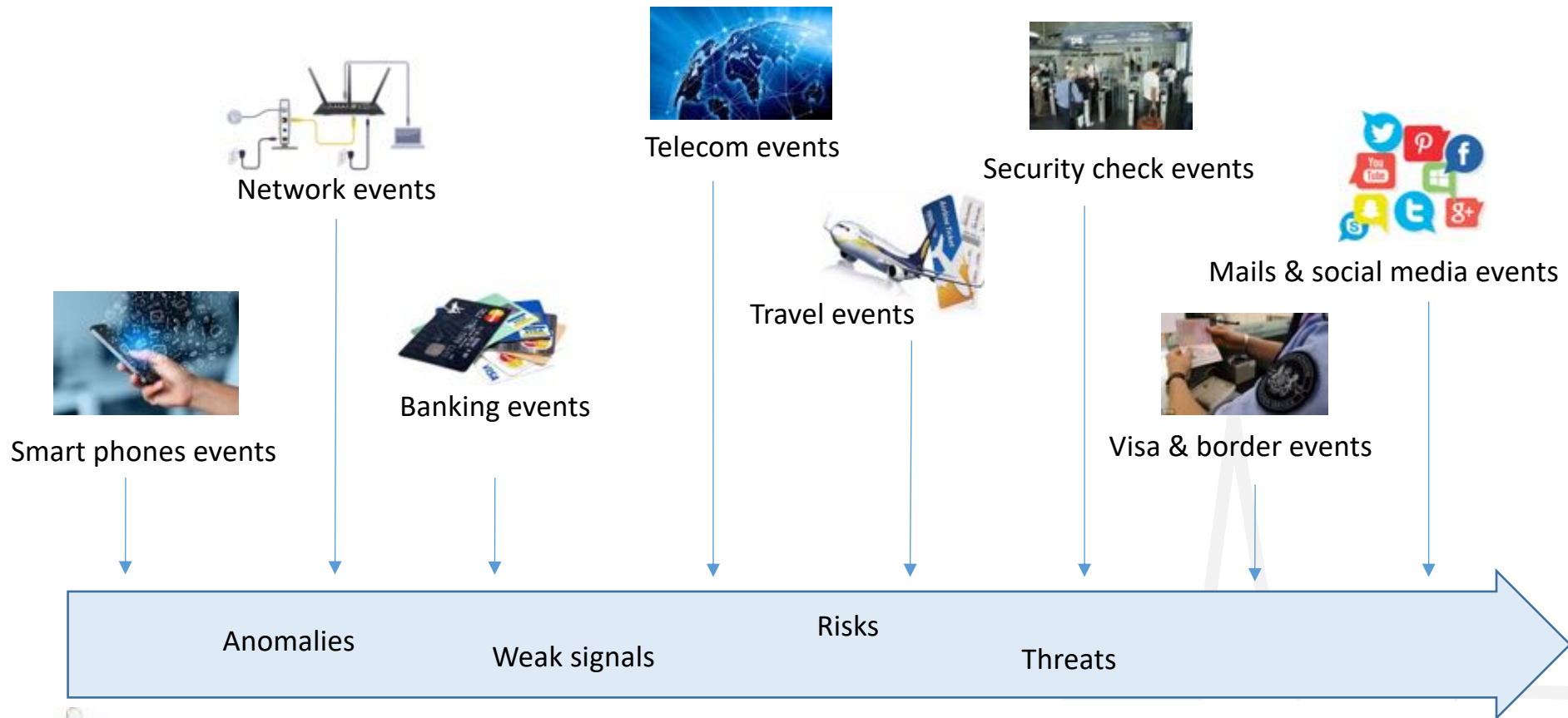


2/ Very large
number of data
sources

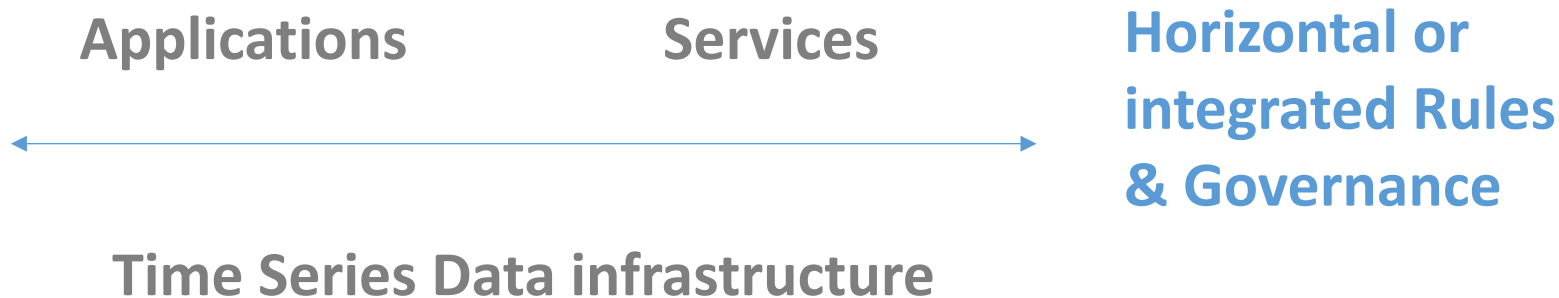


Energy, industry 4.0, connected cars, telecoms, internet
Billions x billions measures / day

Security and cybersecurity on the same way



A universal reference independant from applications



« Minority report » risk exists. The way to prevent it is have different stakeholders on data infrastructures and applications



Warp10

www.warp10.io

