



MOORE

SUPPLY CHAIN ANALYTICS WITH SCOR-DS



WELCOME & INTRODUCTIONS



Yannick Van Bedaf
Manager Supply Chain Consulting

- 10 years of experience
- Operations & logistics management
- Operational Excellence - LEAN
- SCOR-DS



Timothy Van Brusselen
Partner Data Analytics at element61 (part of Moore)

- 15+ years of experience
- Microsoft Azure Data Platform enthusiast
- Data Architectures
- data ideas >> actionable insights

01 INTRODUCTION

02 SCOR-DS FRAMEWORK

03 SCOR-DS IMPLEMENTATION APPROACH

04 POWER BI “OUT-OF-THE-BOX”

05 DEMO – WAREHOUSE PERFORMANCE



THESE ARE CHALLENGING TIMES...



**BREXIT
UNCERTAINTY**



**SUEZ CANAL
INCIDENT**



**EU CARBON TAX
FRAMEWORK**



**EUROPE EXTREME
WEATHER**



**TENSIONS
WEST & CHINA**



2019

**EXTREME WILD FIRE
SEASON IN THE US**



2020

**COVID
PANDEMIC**



2021

**UKRAINE
& RUSSIA**



2022

**SOARING
ENERGY COST**



2023



2024

**CYBER
THREATS**

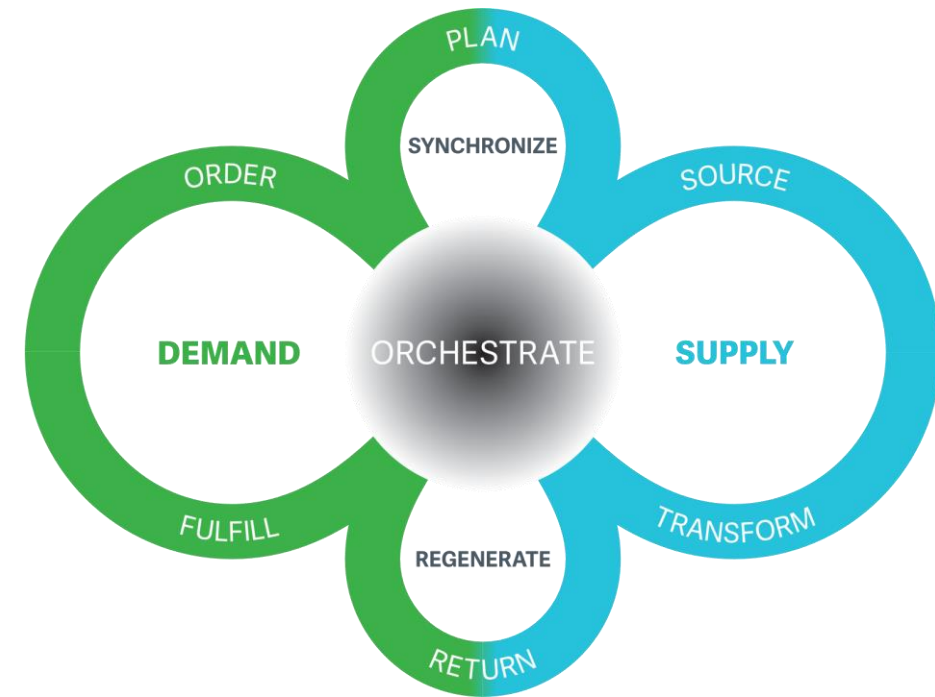


SCOR-DS - FRAMEWORK

SCOR Digital Standard

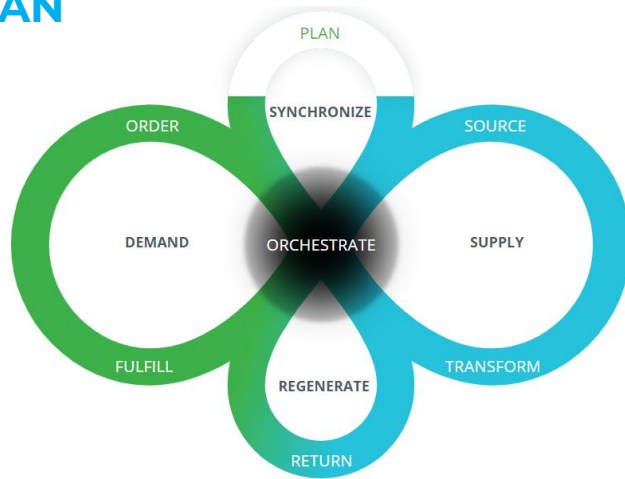
The **Supply Chain Operations Reference (SCOR)** model is developed to assist businesses in **understanding** and **evaluating performance of supply chains**.

- ▶ **Orchestrate, Plan, Order, Source, Transform, Fulfill and Return**
- ▶ The SCOR model offers a set of metrics and best practices, which you can use to:
 1. **Analyze current processes & goals**
 2. **Quantify operational performance**
 3. **Compare** your performance **to industry benchmarks**



SCOR-DS - FRAMEWORK

PLAN



Select a Plan process to explore

P1 Plan Supply Chain

P2 Plan Order

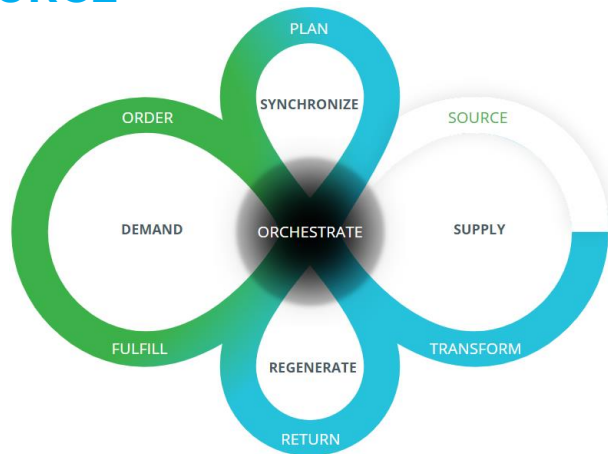
P3 Plan Source

P4 Plan Transform

P5 Plan Fulfill

P6 Plan Return

SOURCE



Select a Source process to explore

S1 Strategic Source

S2 Direct Procure

S3 Indirect Procure

S4 Source Return








Metrics

- RL.1.1 Perfect Customer Order Fulfillment
- RL.1.2 Perfect Supplier Order Fulfillment
- RL.1.3 Perfect Return Order Fulfillment
- RS.1.1 Customer Order Fulfillment Cycle Time
- RS.2.1 Order Cycle Time
- AG.1.1 Supply Chain Agility
- CO.1.1 Total Supply Chain Management Cost
- CO.1.2 Cost of Goods Sold (COGS)
- AM.1.1 Cash-to-Cash Cycle Time
- AM.1.2 Return on Fixed Assets
- AM.1.3 Return on Working Capital
- SC.1.1 Diversity and Inclusion
- SC.1.2 Wage Level
- SC.1.3 Training

Metrics

- RS.2.2 Source Cycle Time
- AG.2.2 Source Agility
- AG.3.1 Overall Value at Risk (VAR)
- AG.3.6 Additional Source Volumes Obtained in 30 Days
- AG.3.10 Current Purchase Order Cycle Times
- AG.3.12 Current Source Volume
- AG.3.14 Demand Sourcing — Supplier Constraints
- AM.2.3 Days Payable Outstanding
- AM.3.1 Inventory Days of Supply — Raw Material
- EV.2.1 Renewable Materials Used
- EV.2.2 Nonrenewable Materials Used

SCOR PERFORMANCE METRICS - LEVELS

Level	Description	Schematic	Detail
	Performance Attributes	 <p>Reliability (RL)</p>	Reliability (RL) – ability to perform the process as expected
	Level 1 Diagnostic metrics	 <p>RL 1.1 Perfect Customer Order Fulfillment</p>	RL 1.1 Perfect Customer Order Fulfillment – Percentage of orders meeting the delivery performance to the customer
	Level 2 Diagnostic metrics	 <p>RL 2.1 → RL 2.2 → RL 2.3 → RL 2.4</p>	RL2.1 - % of orders delivered in full RL2.2 - Delivery performance to the original commit date RL2.3 - Customer order documentation accuracy RL2.4 - Customer order perfect condition
	Level 3 Diagnostic metrics	 <p>RL 3.1 → RL 3.2 → RL 3.3</p>	RL3.1 - Delivery item accuracy to the customer RL3.2 - Delivery quantity accuracy to the customer RL3.3 - Customer commit date achievement

SCOR-DS - PERFORMANCE ATTRIBUTES

	Attribute	Definition	Metric		
Resilience	Reliability	The ability to perform tasks as required. Reliability focuses on the predictability of the outcome of a process.	RL 1.1 Perfect Customer Order Fulfillment		
			RL 1.2 Perfect Supplier Order Fulfillment		
			RL 1.3 Perfect Return Order Fulfillment		
Resilience	Responsiveness	The speed at which tasks are performed. Responsiveness addresses the repeated speed of doing business.	RS 1.1 Customer Order Fulfillment Cycle Time		
			Agility	The ability to respond to external influences.	AG 1.1 Supply Chain Agility
					Economic
CO 1.2 Cost of Goods Sold (COGS)					
Profit	The financial benefit realized when revenue generated from business activity exceeds the expenses, costs, and taxes involved in sustaining the activity.	PR 1.1 Earning Before Interest and Taxes (EBIT)			
		PR 1.2 Effective Tax Rate			
		Asset Management	The ability to efficiently utilize supply chain assets.	AM 1.1 Cash-to-Cash Cycle Time	
AM 1.2 Return on Fixed Assets					
AM 1.3 Return on Working Capital					
Sustainable	Environmental	The ability to operate the supply chain with minimal environmental impact.	EV 1.1 Materials Used		
			EV 1.2 Energy Consumed		
			EV 1.3 Water Consumed		
			EV 1.4 GHG Emissions		
			EV 1.5 Waste Generated		
Sustainable	Social	The ability to operate the supply chain aligned with the organization's social values.	SC 1.1 Diversity and Inclusion		
			SC 1.2 Wage Level		
			SC 1.3 Training		



LEVERAGING SCOR FOR SUPPLY CHAIN OPTIMIZATION

Transforming Business Strategy into **Actionable KPIs**:
Harnessing **SCOR Model** for Supply Chain Optimization



1. MISSION &
VISION



2. BUSINESS
GOALS



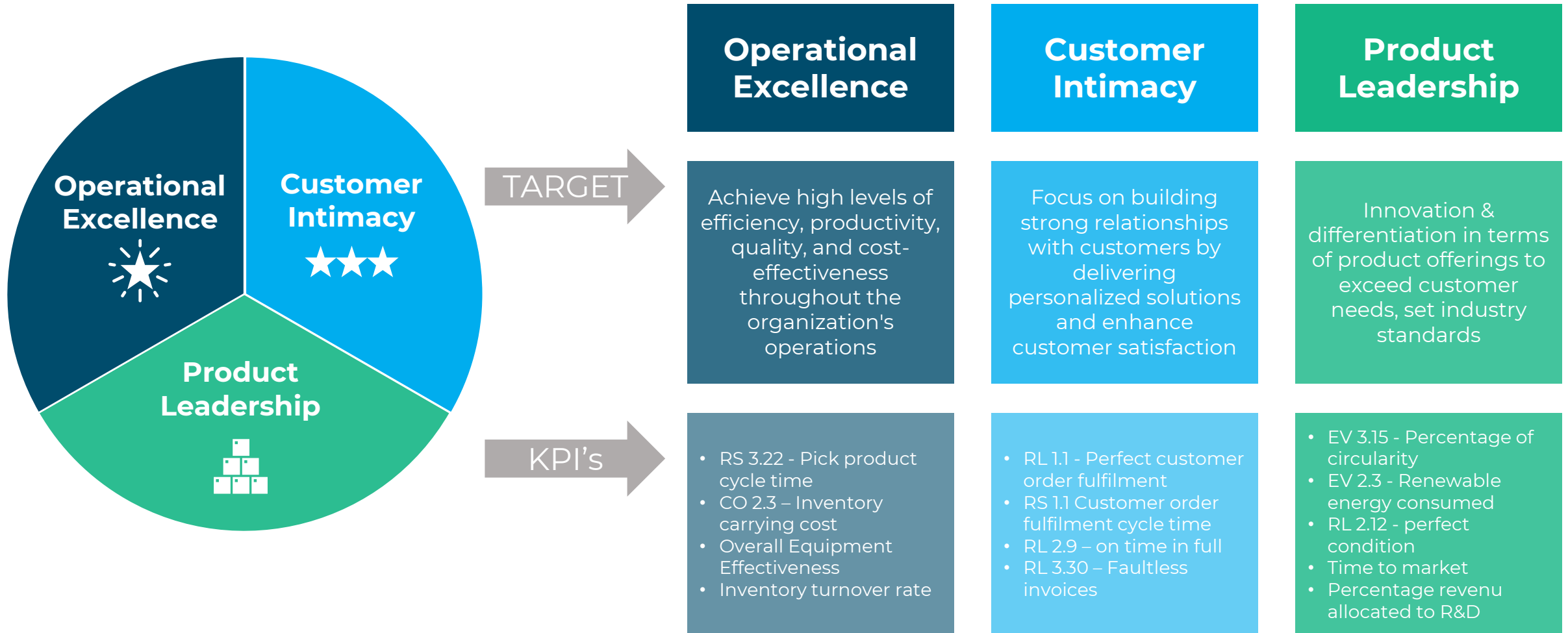
3. SUPPLY CHAIN
STRATEGY



4. SCOR-DS
PERFORMANCE
ATTRIBUTES



TAILORING PERFORMANCE METRICS: DIFFERENT KEY KPI'S FOR VARIED SUPPLY CHAIN STRATEGIES



Src. Model Treacy & Wiersma

01 INTRODUCTION

02 SCOR-DS FRAMEWORK

03 SCOR-DS IMPLEMENTATION APPROACH

04 POWER BI “OUT-OF-THE-BOX”

05 DEMO – WAREHOUSE PERFORMANCE



SCOR-DS IMPLEMENTATION APPROACH

DEFINE SUPPLY CHAIN METRICS



1

- ▶ Understand business strategy
- ▶ Determine supply chain focal areas
- ▶ Define the right metrics using SCOR-DS

DEPLOY “OUT-OF-THE-BOX”



2

- ▶ Plug the Power BI “Out-of-the-Box” solution on to your ERP
- ▶ Build and extend the Power BI Dashboards



- ▶ Enhance and enrich data using the Microsoft Azure Modern Data Platform

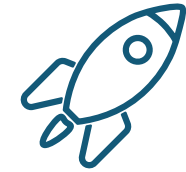
MONITOR PERFORMANCE



3

- ▶ Analysis reports by different stakeholders and team
 - Gap analysis
 - Root cause analysis
 - Benchmark with industry peers
- ▶ Implement governance structure

BOOST YOUR BUSINESS



4

- ▶ Adjust Supply Chain strategy if needed
- ▶ Improve alignment between strategy and execution
 - Sustainability
 - Economical
 - Resilience



01 INTRODUCTION

02 SCOR-DS FRAMEWORK

03 SCOR-DS IMPLEMENTATION APPROACH

04 POWER BI “OUT-OF-THE-BOX”

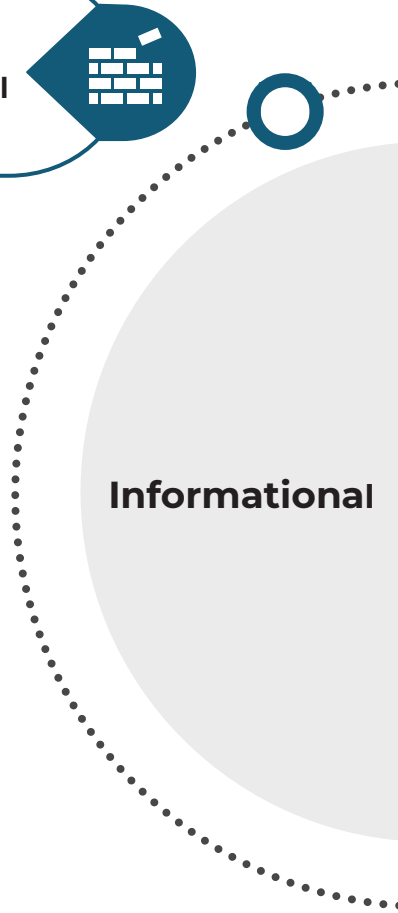
05 DEMO – WAREHOUSE PERFORMANCE



WHAT IS “IN THE BOX”?

All data from all functional modules
(finance, sales, inventory,...) is available in:

- **one single data lakehouse & Power BI model**
- **Microsoft Power BI AND Microsoft Excel**

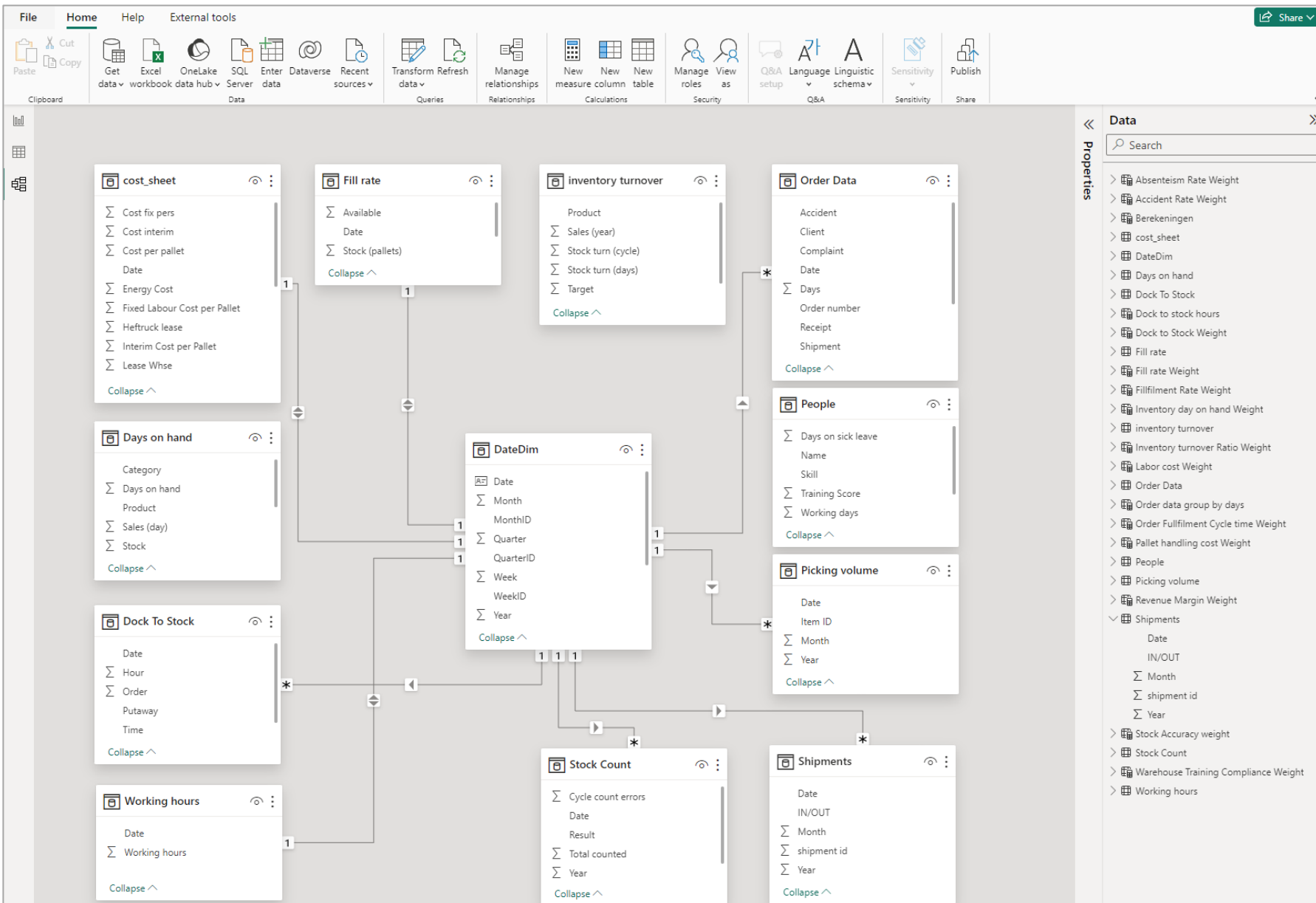


POWER BI OUT-OF-THE-BOX IS IMPLEMENTED PER FUNCTIONAL DOMAIN

Introducing the Out-of-the-Box modules



HOW ARE BUSINESS PROCESSES TRANSLATED TO POWER BI SEMANTIC MODELS?



SCOR KPIs are Power BI measures built on top of functional domains like:

- ▶ **Inventory or stock movements**
- ▶ **Purchase or procurement**
- ▶ **Production orders or manufacturing**
- ▶ **Sales**
- ▶ **Finance**
- ▶ **Human Capital Management (ESG)**

All **pre-defined SCOR calculations** can be added to the OOTB model

The model covers **all the levels** of the SCOR performance metrics to the **lowest level**

WHAT IS "IN THE BOX"?

All data from all functional modules
(finance, sales, inventory,...) is available in:

- **one single data lakehouse & Power BI model**
- **Microsoft Power BI AND Microsoft Excel**



All data from **different systems into
one single data lakehouse**



Supports **all current and historic
data views**

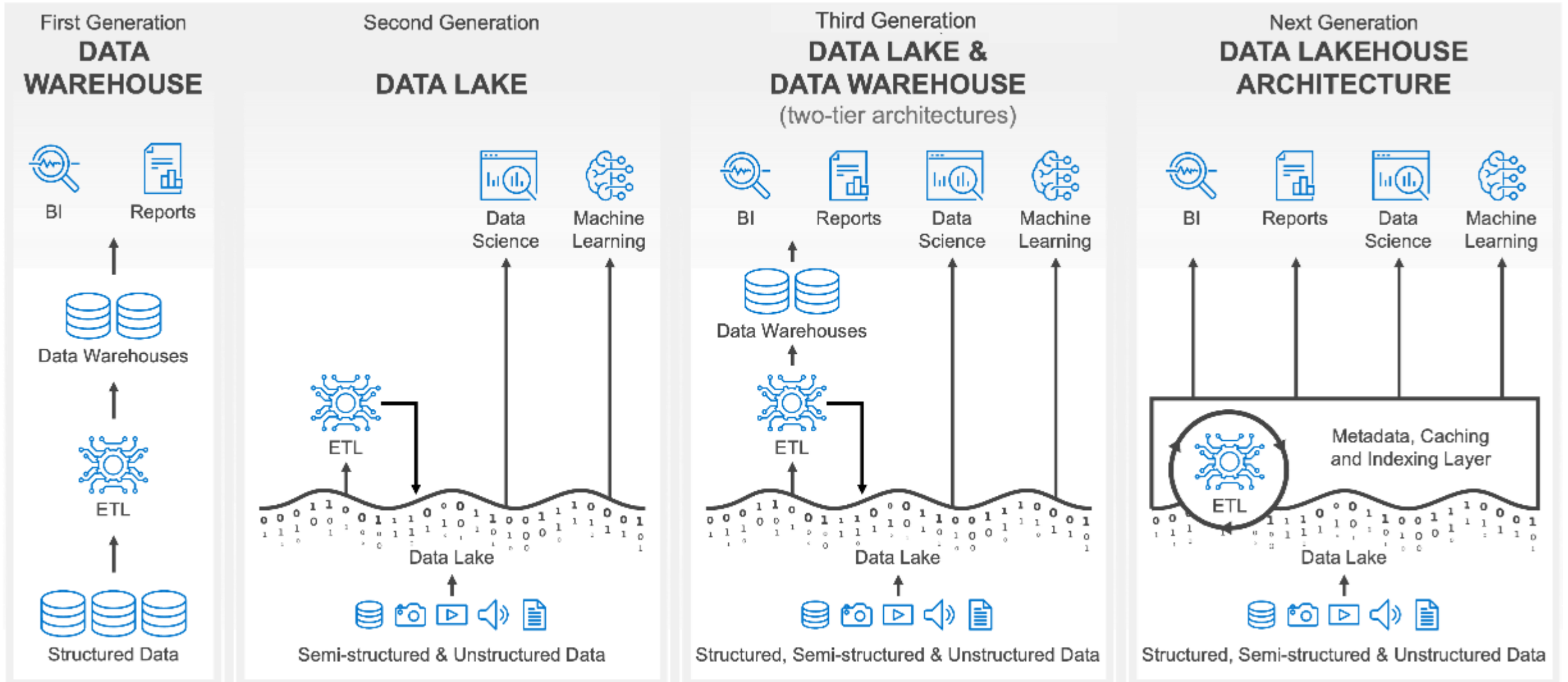


Pre-defined **additional snapshots** in the data
warehouse for Accounts Payable, Accounts
Receivable, Production, Inventory, ...

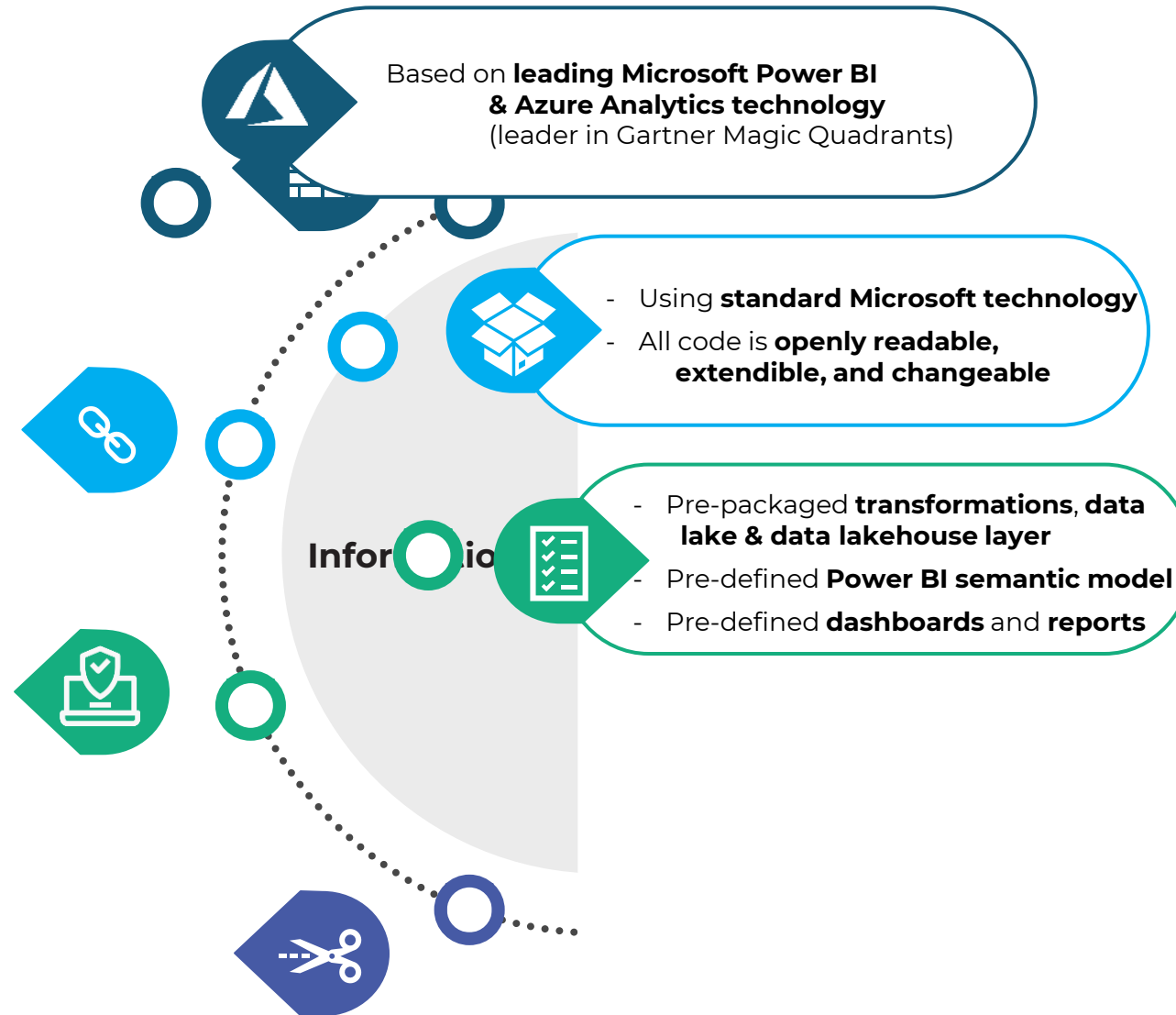


Informational

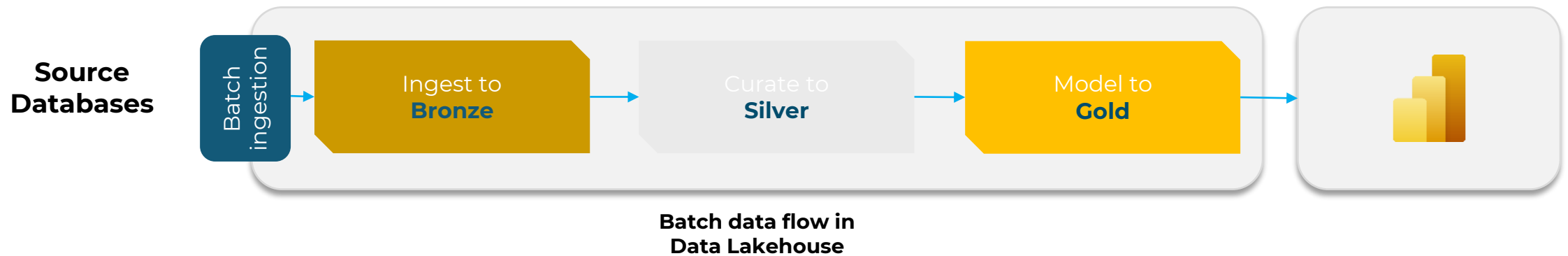
ONE ARCHITECTURE TO RULE THEM ALL



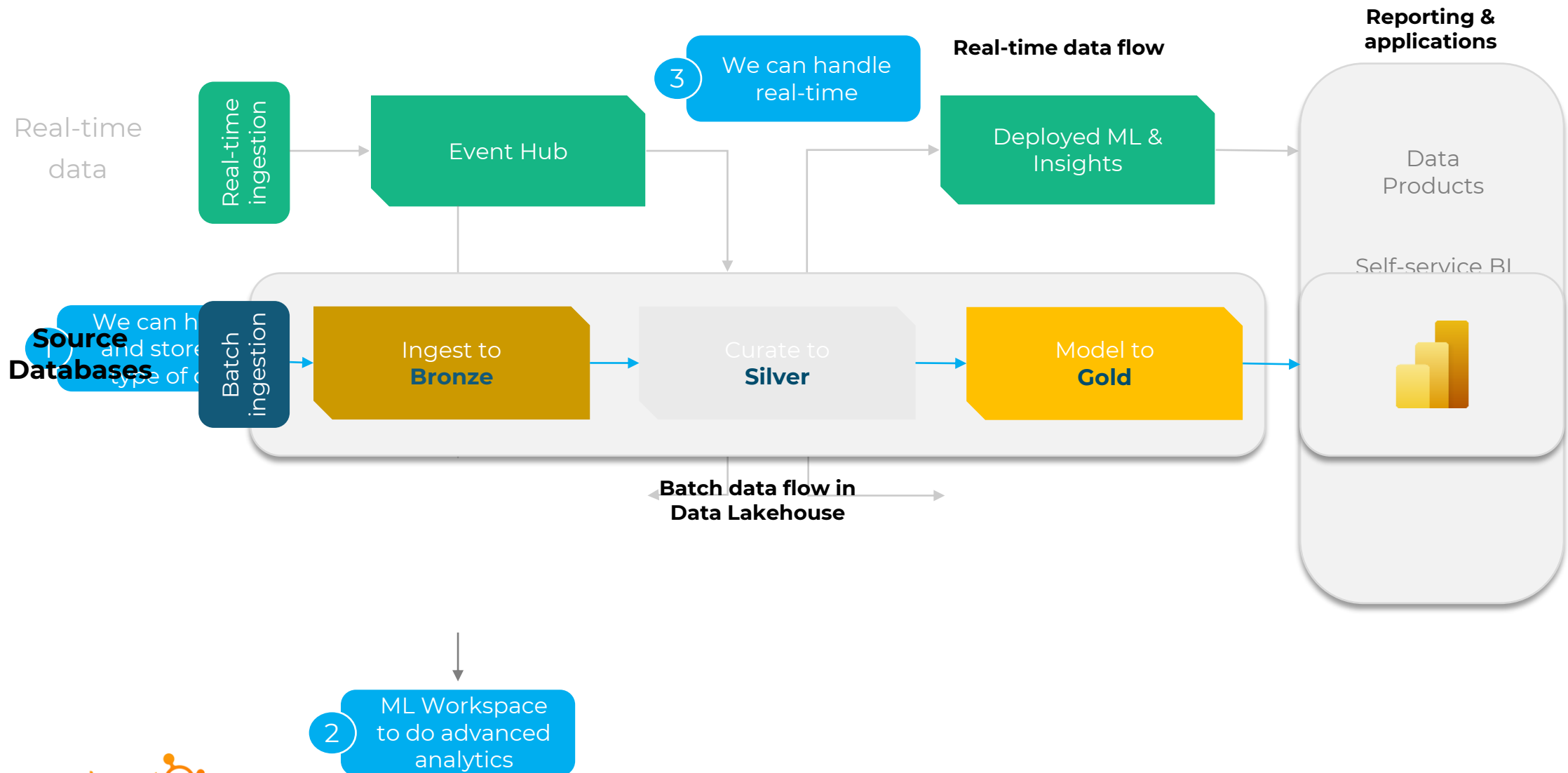
WHAT IS "IN THE BOX"?



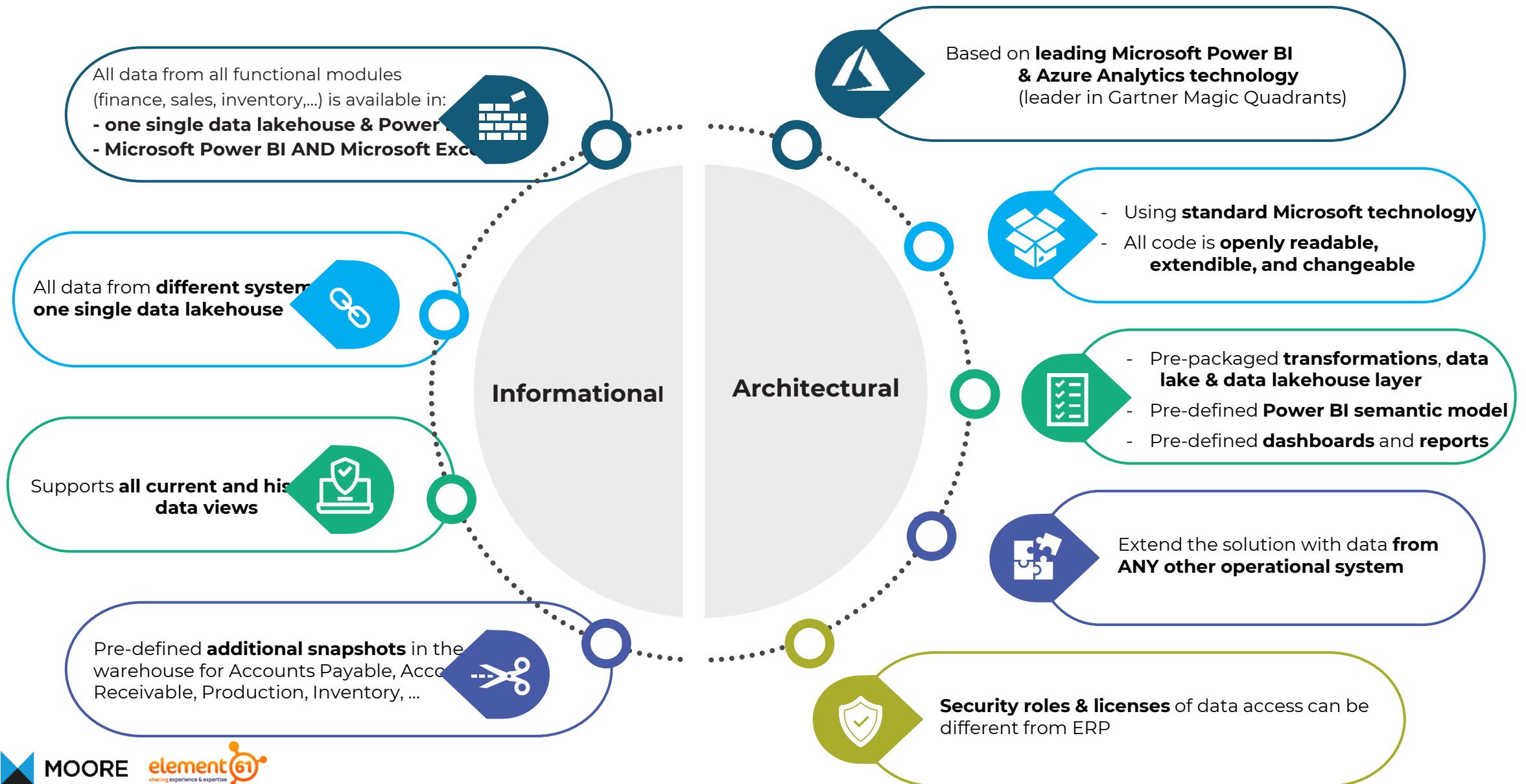
THE OOTB SOLUTION IS BUILT ON TOP OF THE MODERN DATA PLATFORM...



...WHICH DRIVES INNOVATION



WHAT IS "IN THE BOX"?



01 INTRODUCTION

02 SCOR-DS FRAMEWORK

03 SCOR-DS IMPLEMENTATION APPROACH

04 POWER BI “OUT-OF-THE-BOX”

05 DEMO – WAREHOUSE PERFORMANCE



THANK YOU!



MOORE



**VISIT BOOTH 45
AND MAKE A CHANCE
TO WIN AN APICS
COURSE**

