

Webinar

29 September 2020

Why a Digital Twin of Your Organization is critical to Your Operational Resilience

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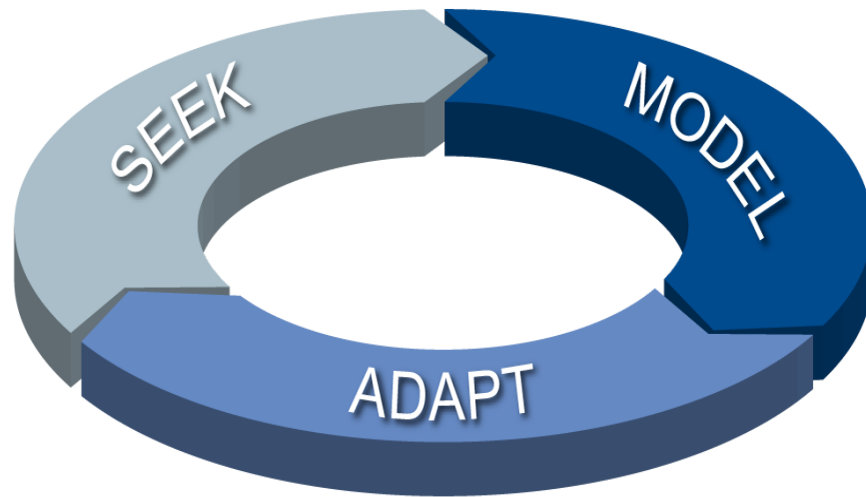
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Operational Excellence to Operational Resilience

Find and document patterns

Interpret, analyze pattern impact, and define scenarios



Act on the results as appropriate at appropriate speed

Operational resilience enables enterprises to adapt by:

- Establishing relevant and achievable goals
- Breaking down complexity
- Facilitating collaboration
- Creating organizational capability for resiliency
- Defining measurements and adjusting



Do You Know and Understand What Is Going On?

Key Topics

1. What is a Digital Twin of an Organization (DTO)?
2. DTO in practice.

Digital Twin

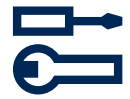


What If ...



What Is a Digital Twin of an Organization (DTO)?

Digital Twin of an Organization (DTO): Blending the Digital and Physical Worlds



Model

A model of the “thing”



Data

E.g., identity, status, context ...



Uniqueness

Each physical thing has at least one unique twin



Monitor

Query state, obtain notifications



Analytics

Rules, predictions, algorithms ...



Control

Twins can control the “thing” they represent



Simulation

Simulate the real-world “thing”

“Thing”
=
Organization
People, Process,
Technology

The Constituents of a DTO — Think of a Navigator

Destination

Map

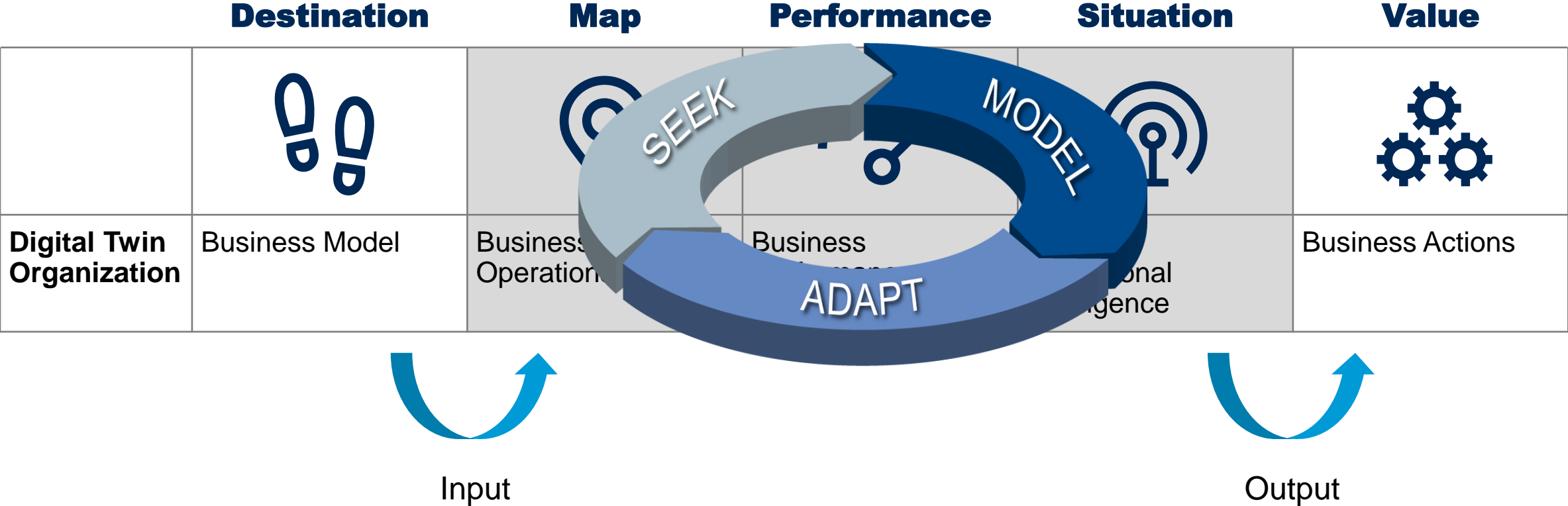
Time

Situation

Decision



Digital Twin of an Organization



Map — Business Operations Model



Suppliers



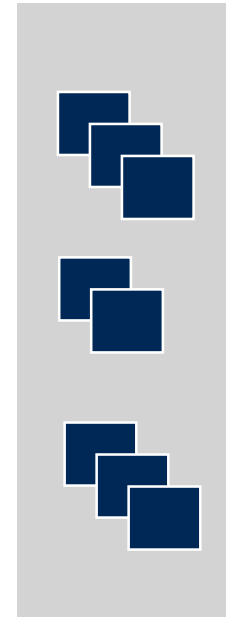
Interactions



Operations



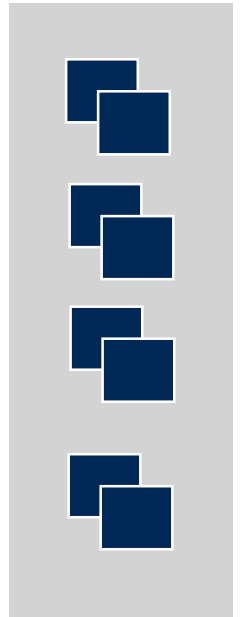
Products/
Services



Interactions



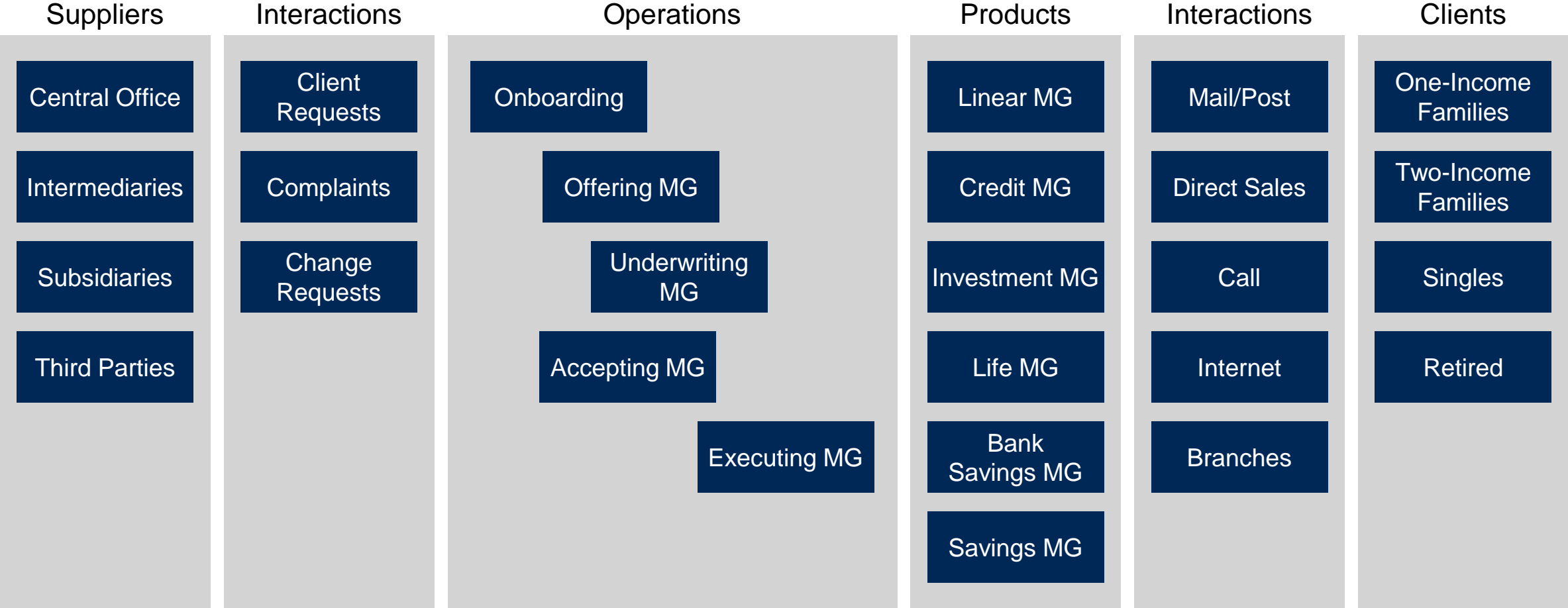
Clients



Resources



Example



MG = Mortgages

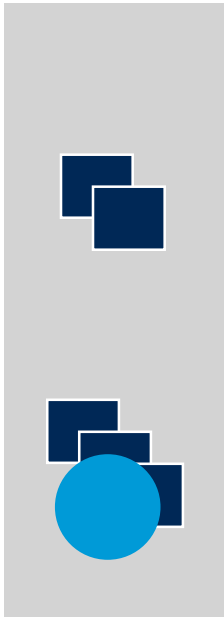
Performance — Business Performance Management



Suppliers



Interactions



Operations



Products/
Services



Interactions



Clients

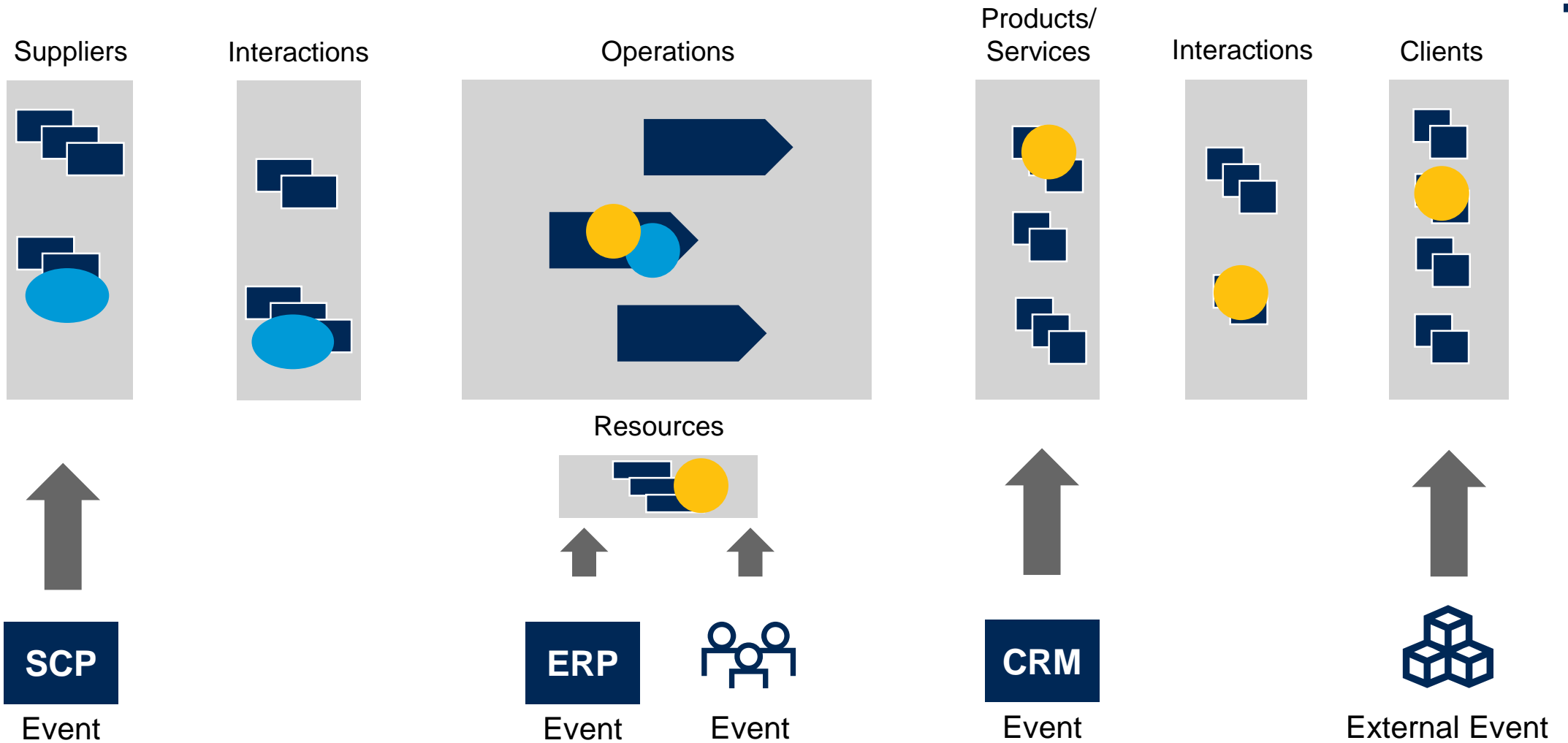


Resources

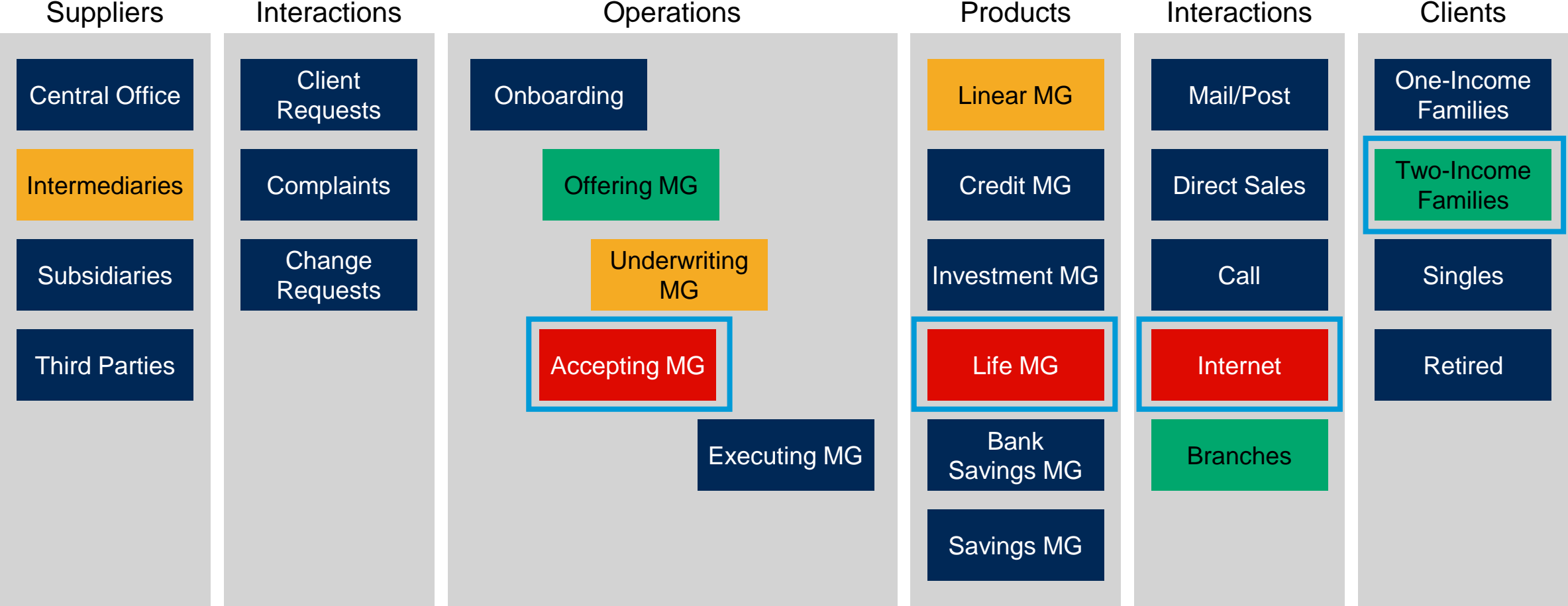


- Customer Experience Rate
- Service-Level Agreement

Situation — Continuous Intelligence



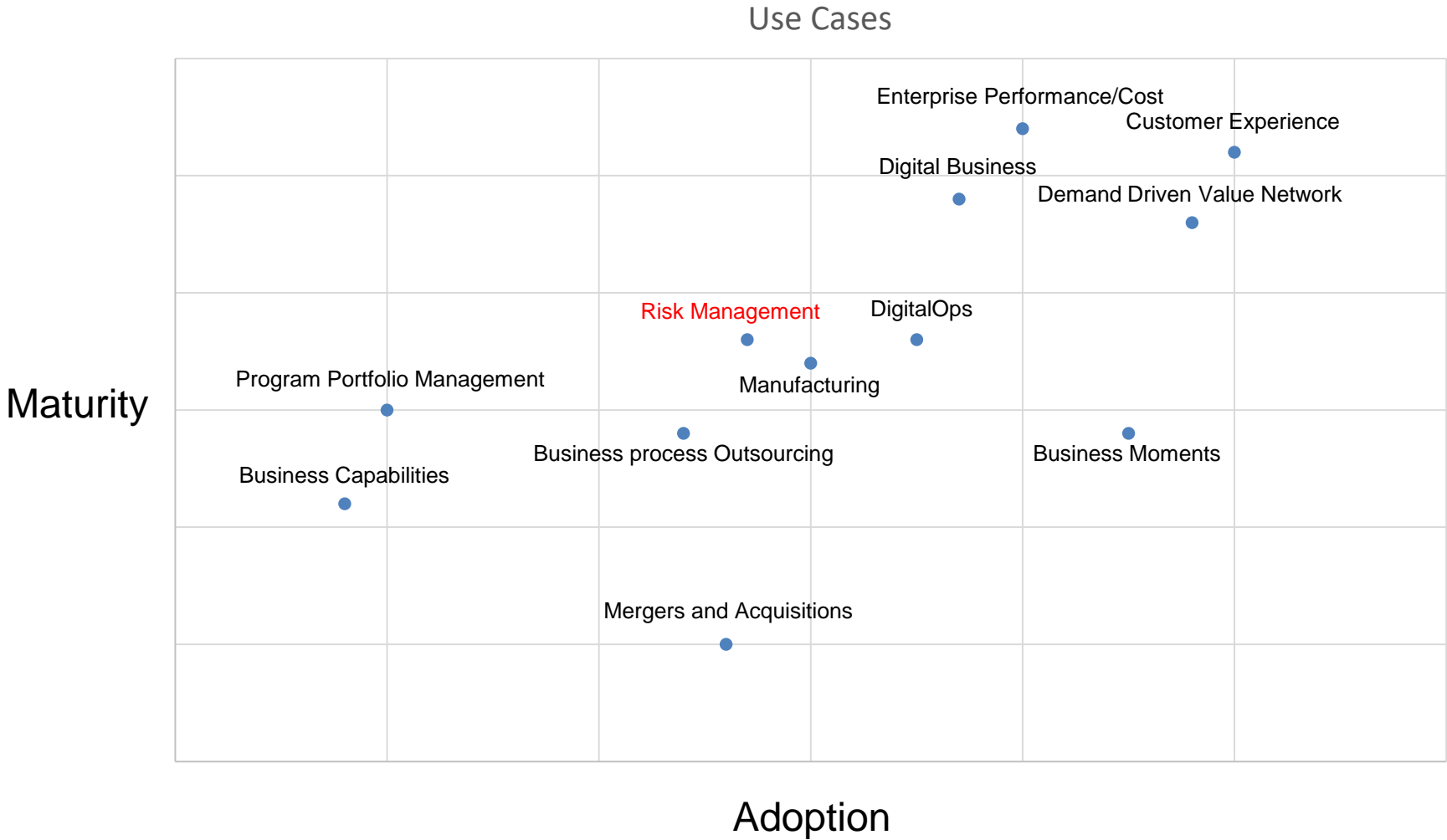
Example



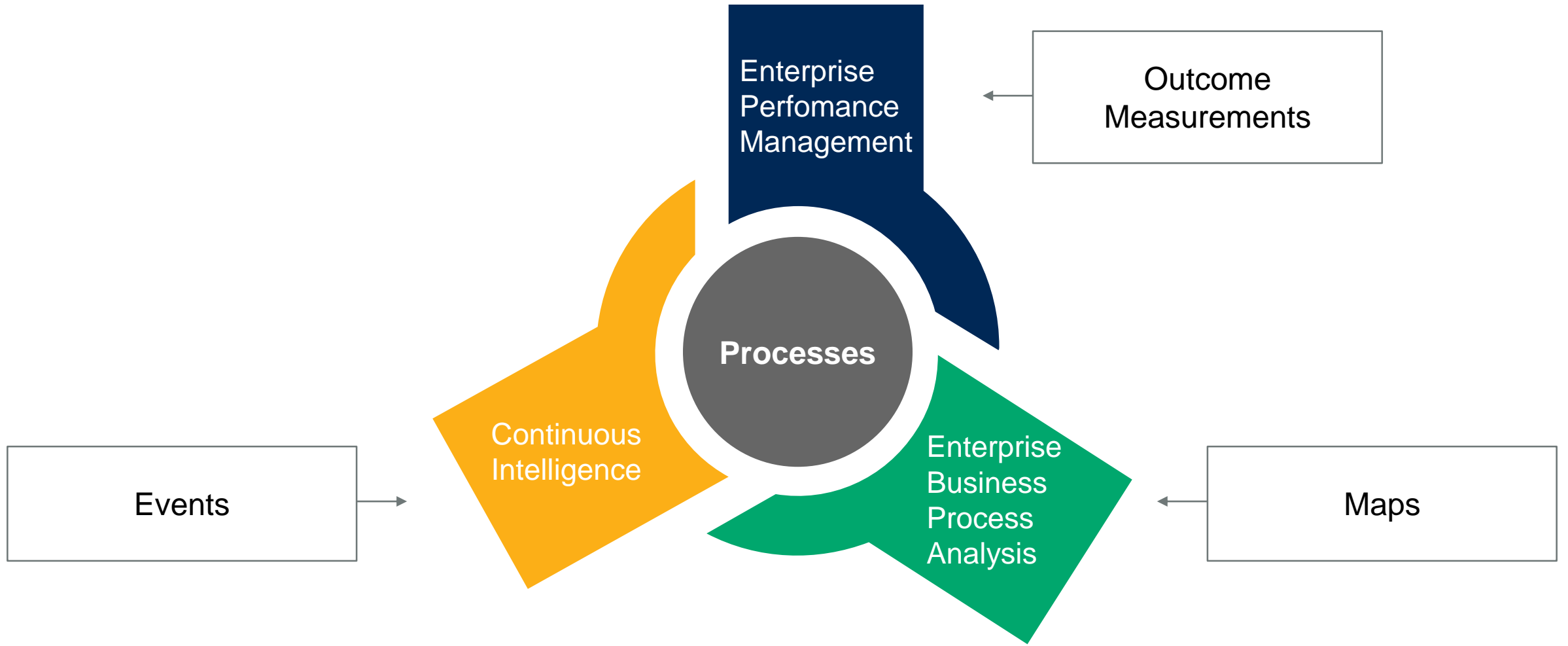
MG = Mortgages

DTO in Practice

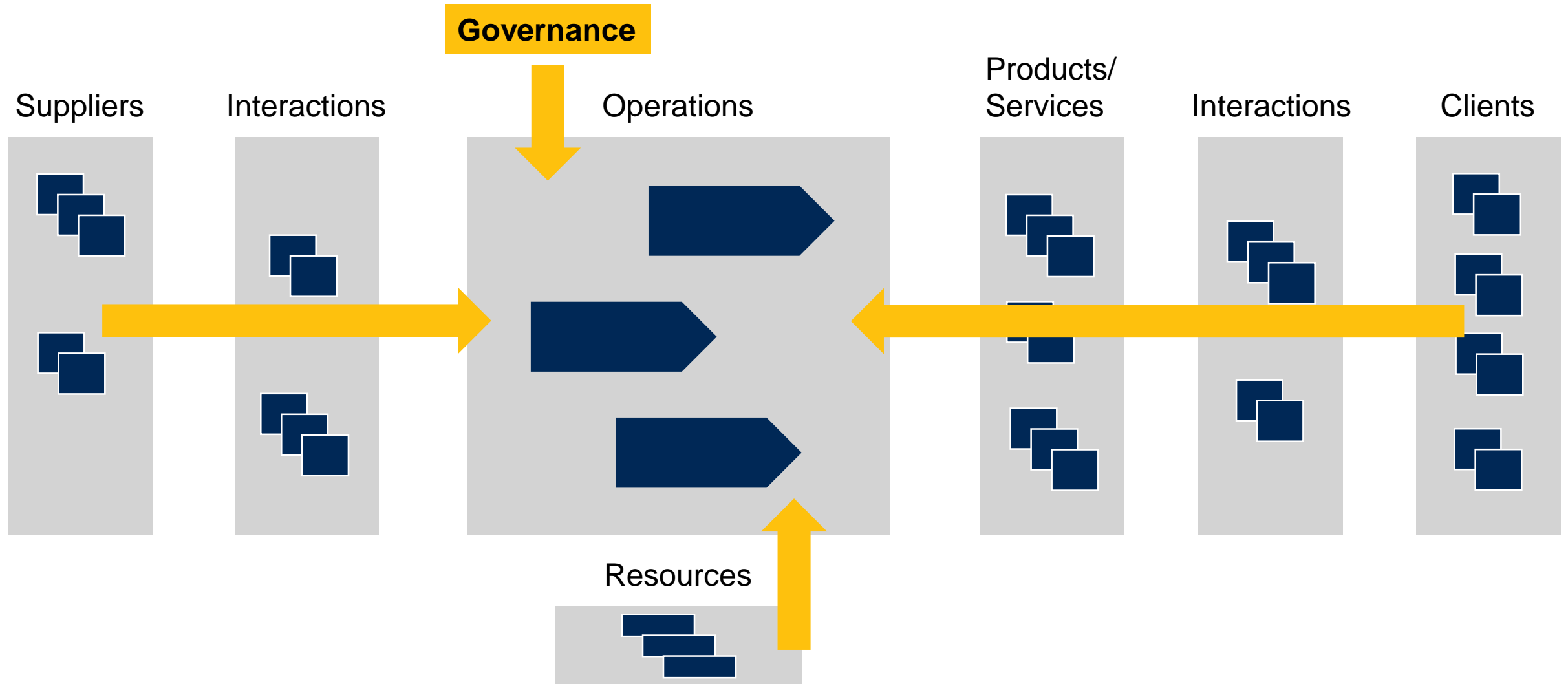
Use Cases



Technology Supporting a DTO



Start With Operations — Process Mining



Example of Use

Home | Map | Processes | Organization | Actions and Analyses | Forecasting | Services

Process Opening Saving Accounts

Process Opening Saving Accounts

- Information on Process
- Enter Disturbances

Information on the process/process activity.

Insight into the E2E process and clickable process activity for detailed information.

Shown is the "process" portal that focuses on E2E processes. More views from an organizational perspective.

Two main KPIs: Customer effort score (CES) and the number of complaints.

Information

TPT E2E — Number Out of Norm — PPM
Number of client requests as out of norm output of the E2E process

Selections

Products	Channels	Operational Types	Segments	Process Types
Teams				
Name				
<input type="radio"/>	Backlog Requests Old			
<input type="radio"/>	Backlog Requests			

Performance Indicators

PI's	E2E PIs	Operational	Process PIs	Other PIs	All PIs
Indicator	Unit	Actual	Trend	Target	
<input checked="" type="radio"/> TPT E2E — Out of Norm	#	250	▼		
<input type="radio"/> Incoming E2E	#	965	▼		
<input type="radio"/> WIP E2E	#	53.667	▼		
<input type="radio"/> Outgoing E2E	#	2.904	▼		
<input type="radio"/> Lost E2E — Total	#				
<input type="radio"/> Client Experience Score	[]				
<input type="radio"/> Complaints — Number	#				

Graph

TPT E2E — Number Out of Norm

Date	Actual
16 feb 15	96
	25
	48
	53
20	28
	0
22 feb 15	0

Actual

Several dimensions (product, process, type, team and channels) to view the performance in different aspects.

KPIs on E2E performance, internal performance and process activity.

Graphics linked to selected KPIs, over different time periods and detail.

Case — SPHERAes: DTO applied to IRM

Use Case

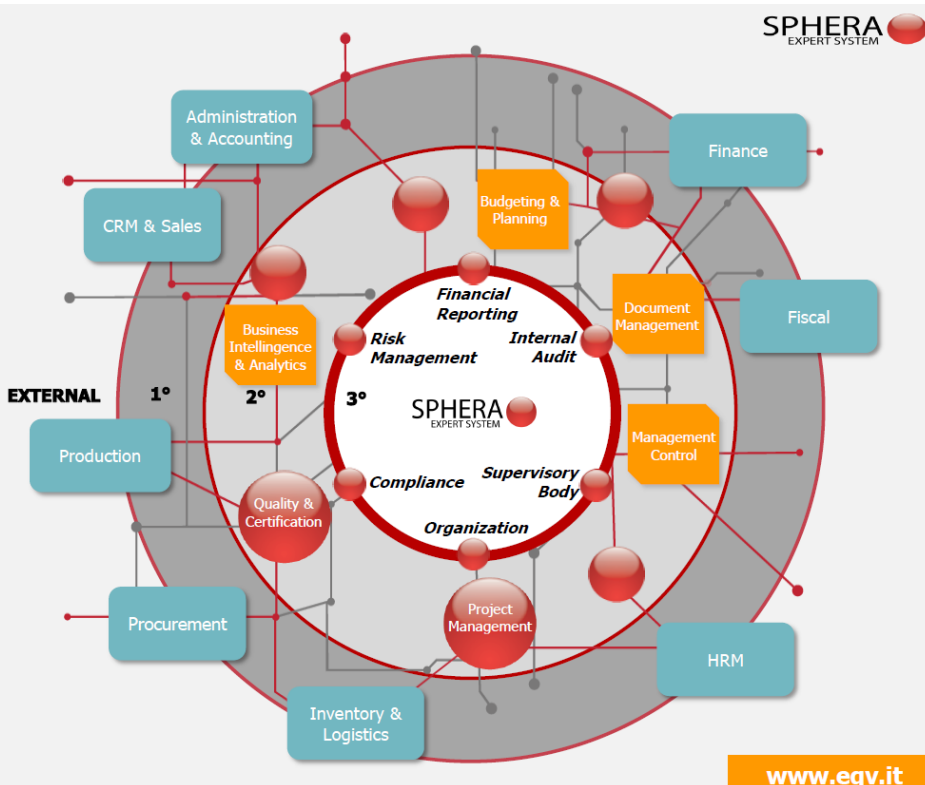
- The concept and technology behind the DTO are able to realize the shift from the old GRC perspective to the new Integrated Risk Management

Outcomes

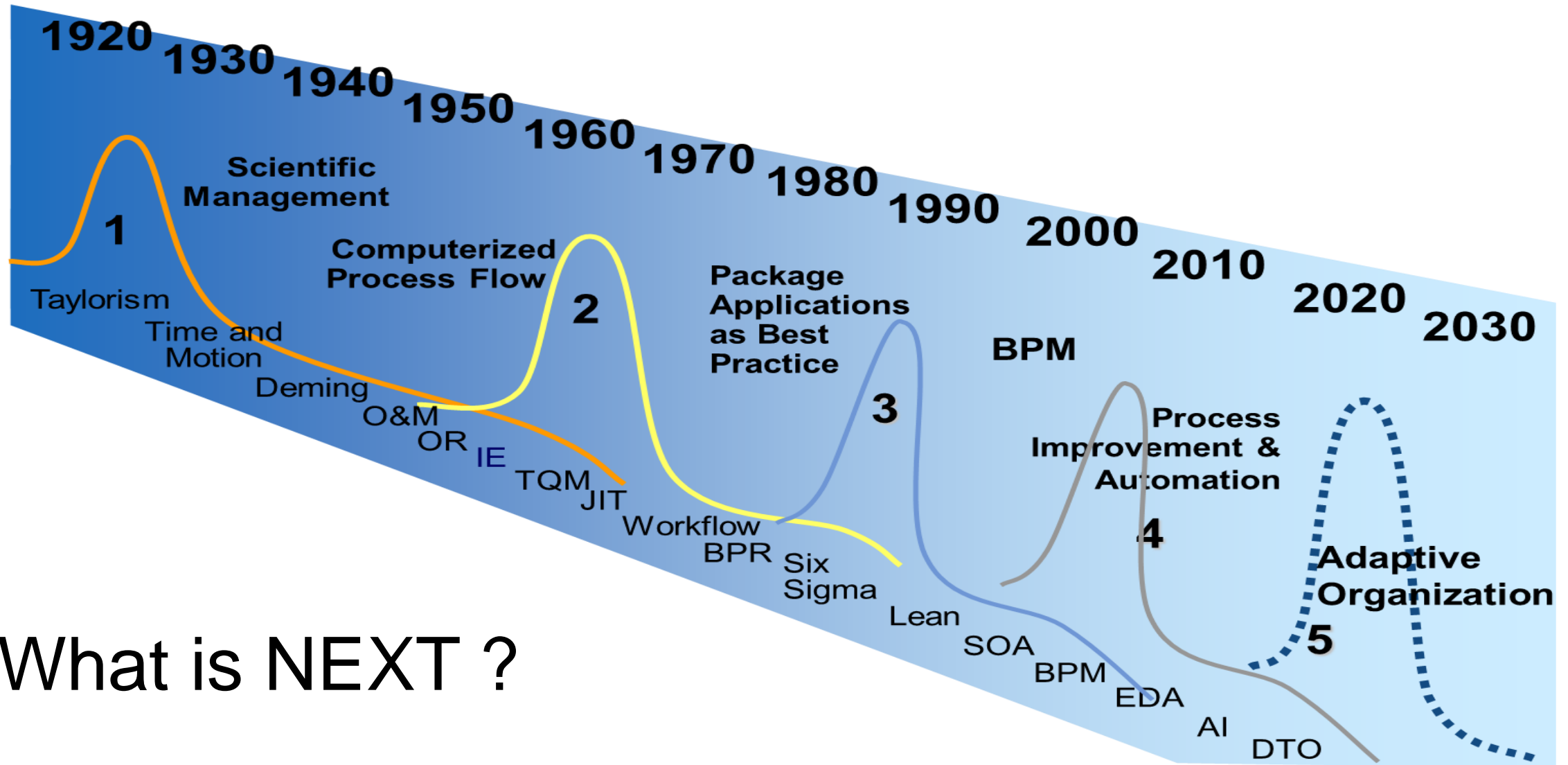
- The DTO allows to monitor and act in real time on every aspect of the organization: the progress of the individual processes; the use of resources allocated and their impact on other processes; the forecast of possible critical issues and the need to reformulate the operational plans; the fulfilment of regulatory requirements and internal policies; automatic and controlled drafting of documentation ensuring high levels of safeguards.

Solution

- Thanks to the adoption of a DTO within the IRM use case, it is possible to implement the complete Auditing operating cycle: Audit scoping, Audit risk assessment, Audit project management, Time and expense management, Audit work paper management, Audit evidence management, Reporting, Issue Tracking, Internal Audit performance management.
- The optimal DTO solution in this scenario should be a unique and uniform tool to manage its processes in an organic and integrated way, with decision-making support based on Artificial Intelligence (AI) algorithms and monitoring of the KPIs / KRIs associated with the various processes, business units and entities involved.



100 years of process management



What is NEXT ?

Recommendations

- ④ Use a DTO to guide business leaders in managing their operational resilience initiatives by connecting the organization's objectives with the organization's operations and providing the relevant monitoring in order to make smarter decisions.
- ④ Start with a limited market/offering/process organization such as a department or a business unit, and build from there.
- ④ Emerging technologies that support a DTO, such as process mining provide a first step to discover optimization opportunities in a very fast manner and to prepare for the next level of maturity expanding further into the organization.

Action Plan for the TI/EA Leader

Monday Morning:

- *Identify* a transformation initiative within your organization.
- *Create* an operational performance management team.

Next 90 Days:

- *Apply* process mining related to a selected client offering.
- *Communicate* the results.

Next 12 Months:

- *Investigate* supporting technology.
- *Grow* the DTO by instantiating more client offerings.

Recommended Gartner Research

- ▶ **Optimize Digital Business Transformation by Creating a Digital Twin of Your Organization**
- ▶ **12 Powerful Use Cases for Creating a DTO**
- ▶ **Market Guide for Process Mining**
- ▶ **Market Guide for Technologies Supporting a DTO**
- ▶ **How Process Mining can support Operational Resilience in times of a Crisis**

For information, please contact your Gartner representative.