



TRANSPORT MET PIT

“Digitalisatie in de transportsector”



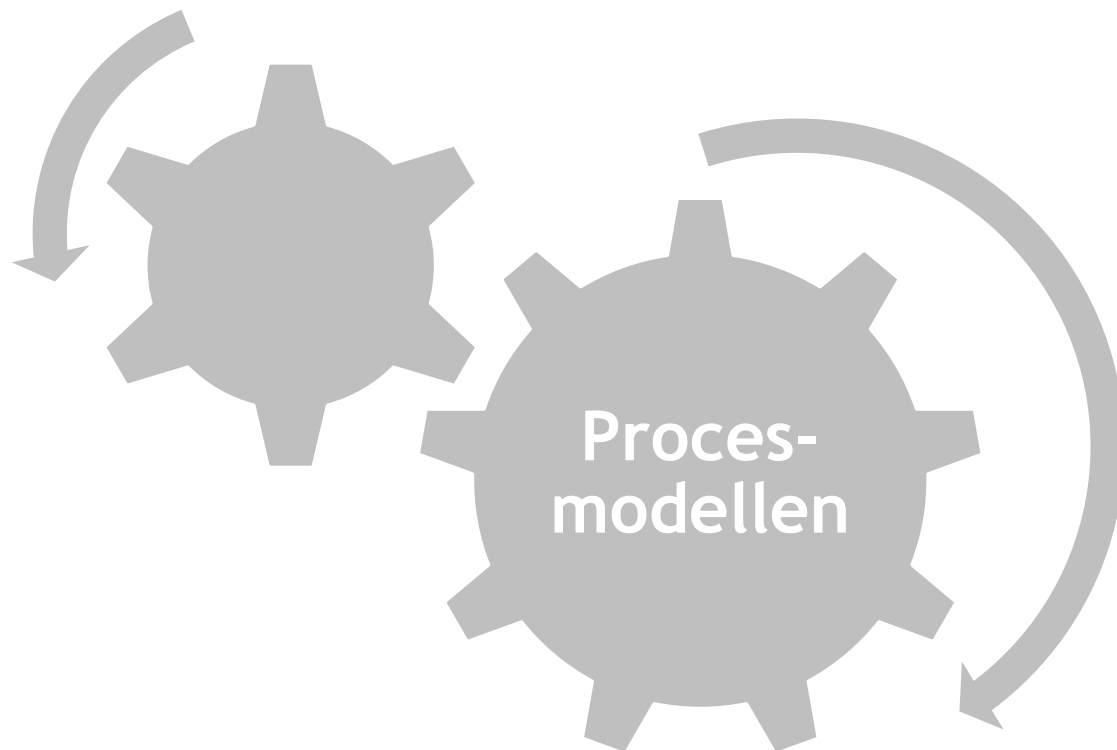
Projectpartners



Gebruikersgroep



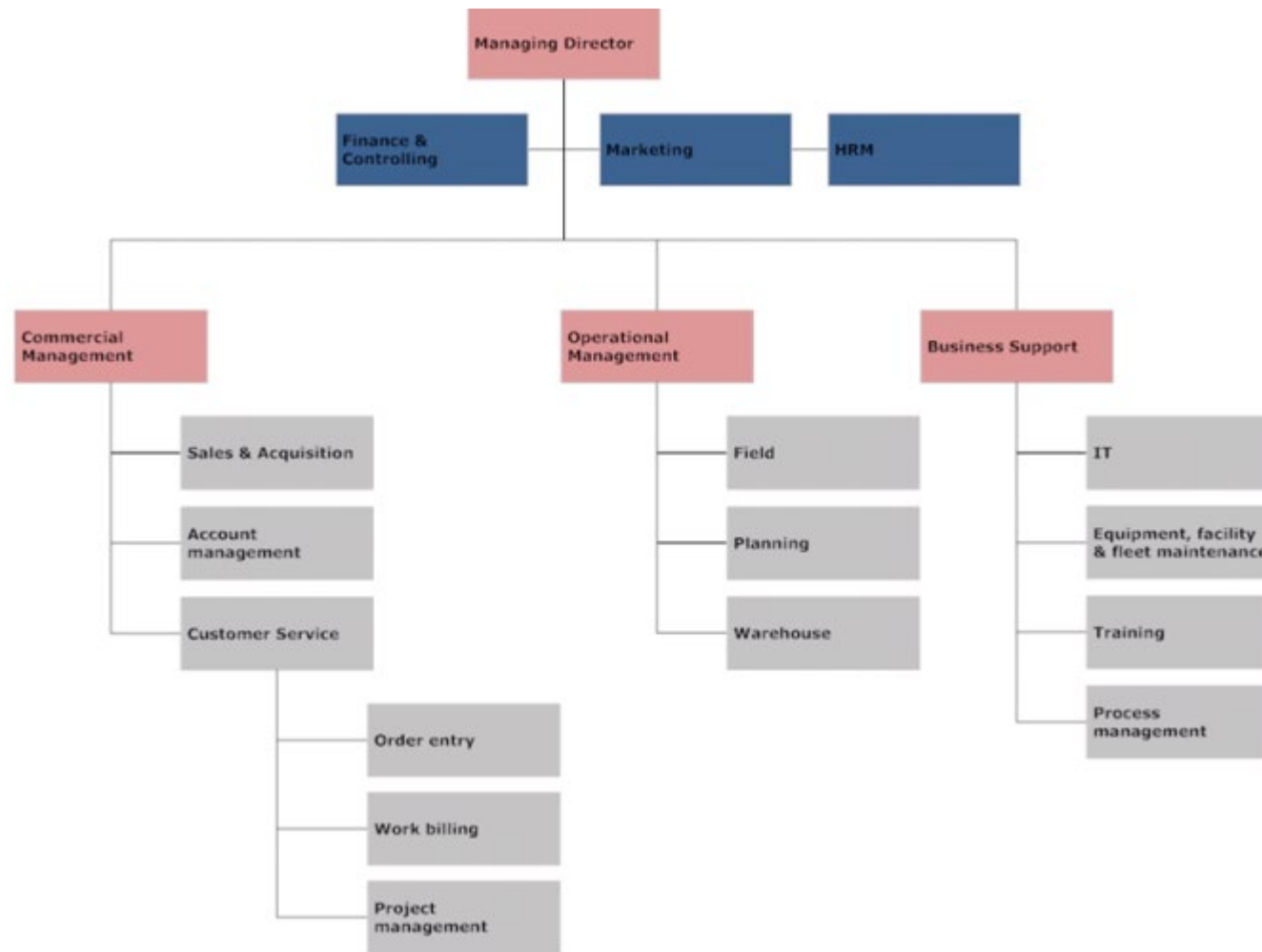
Providers



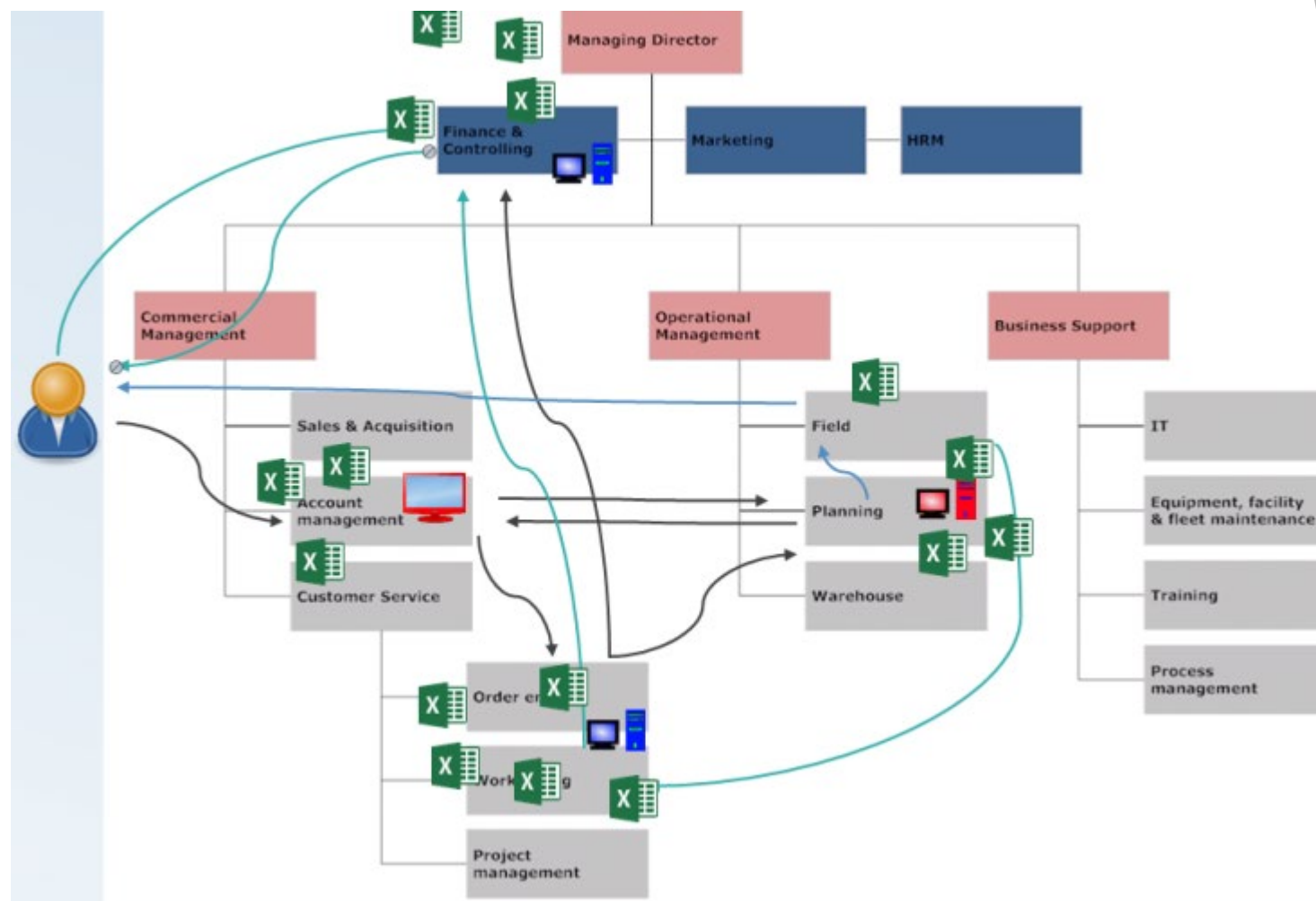
Om concurrentieel te blijven zal de transportsector zijn processen efficiënter moeten organiseren en digitaliseren.

Een v/d grootste risico's is dan ook dat de IT innovaties niet gepaard gaan met de bijhorende procesverbeteringen.

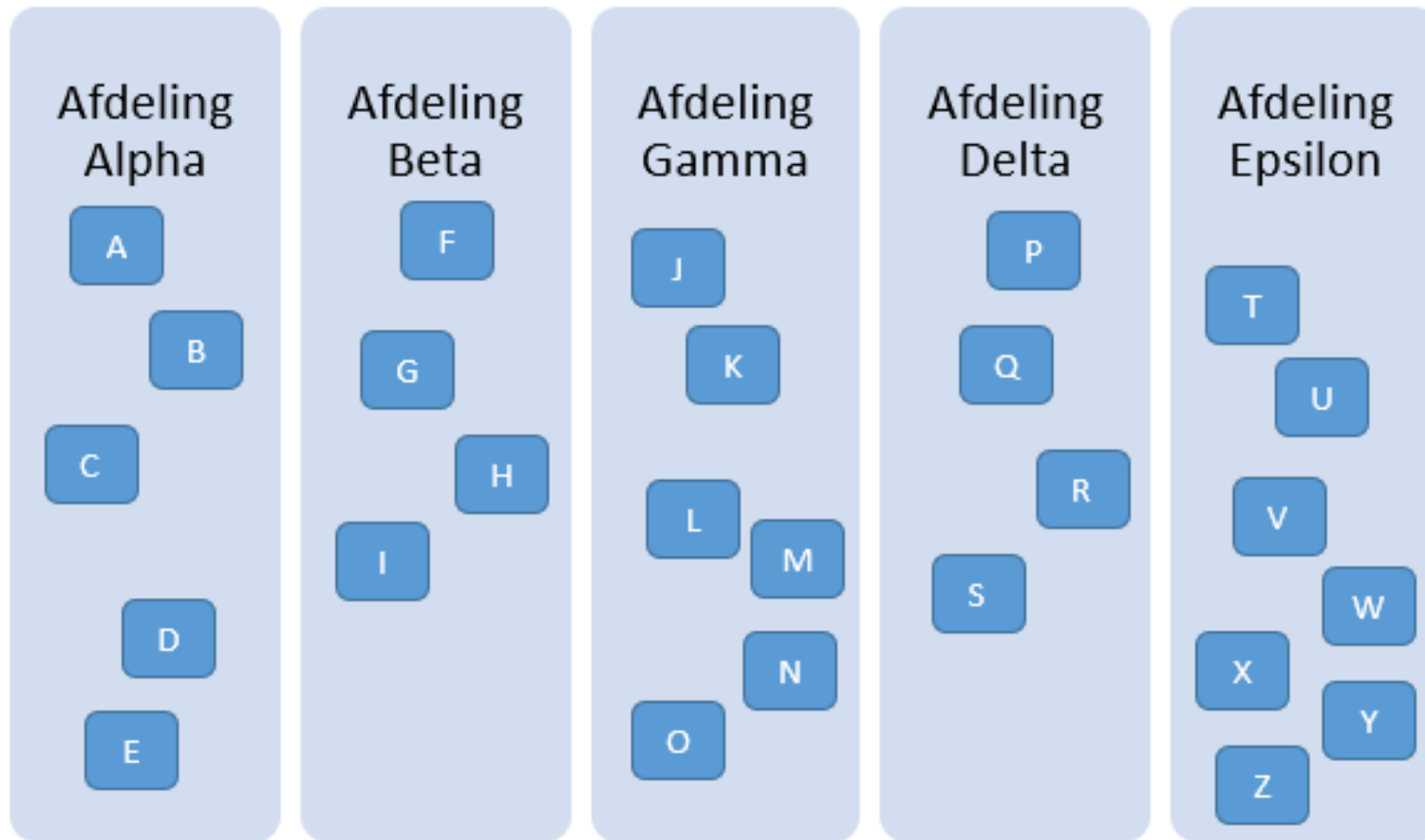
**Belang van proces gericht
denken**



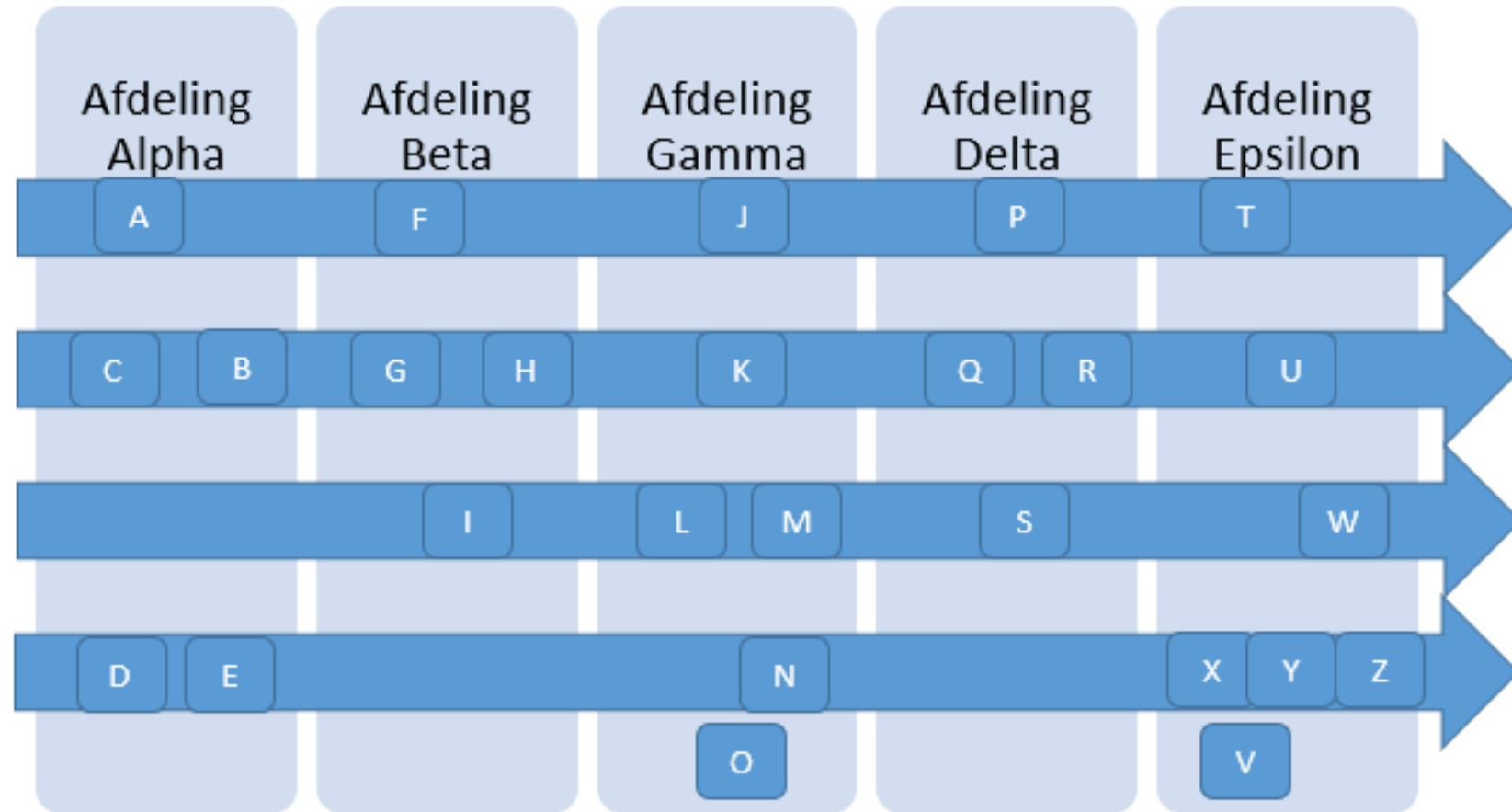
Functionele benadering



Functionele benadering



Functionele benadering

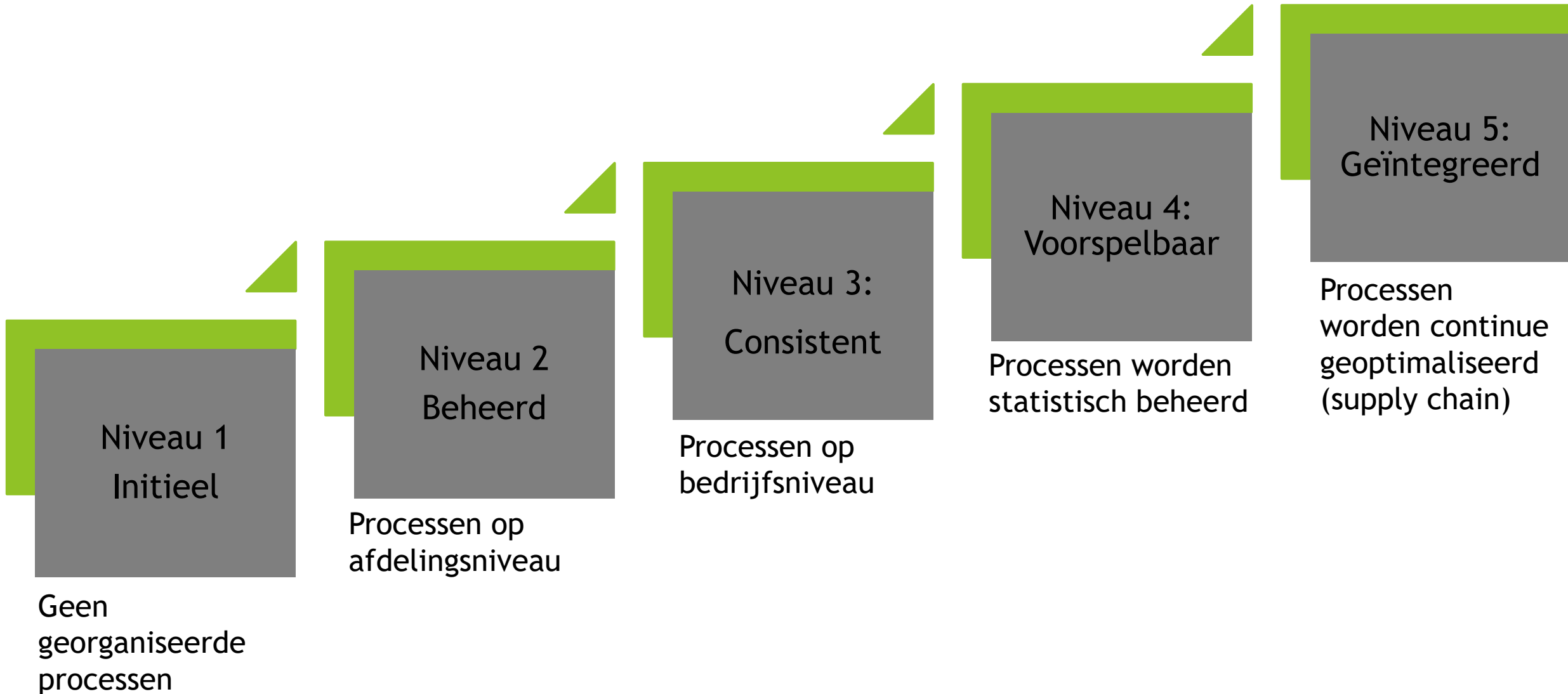


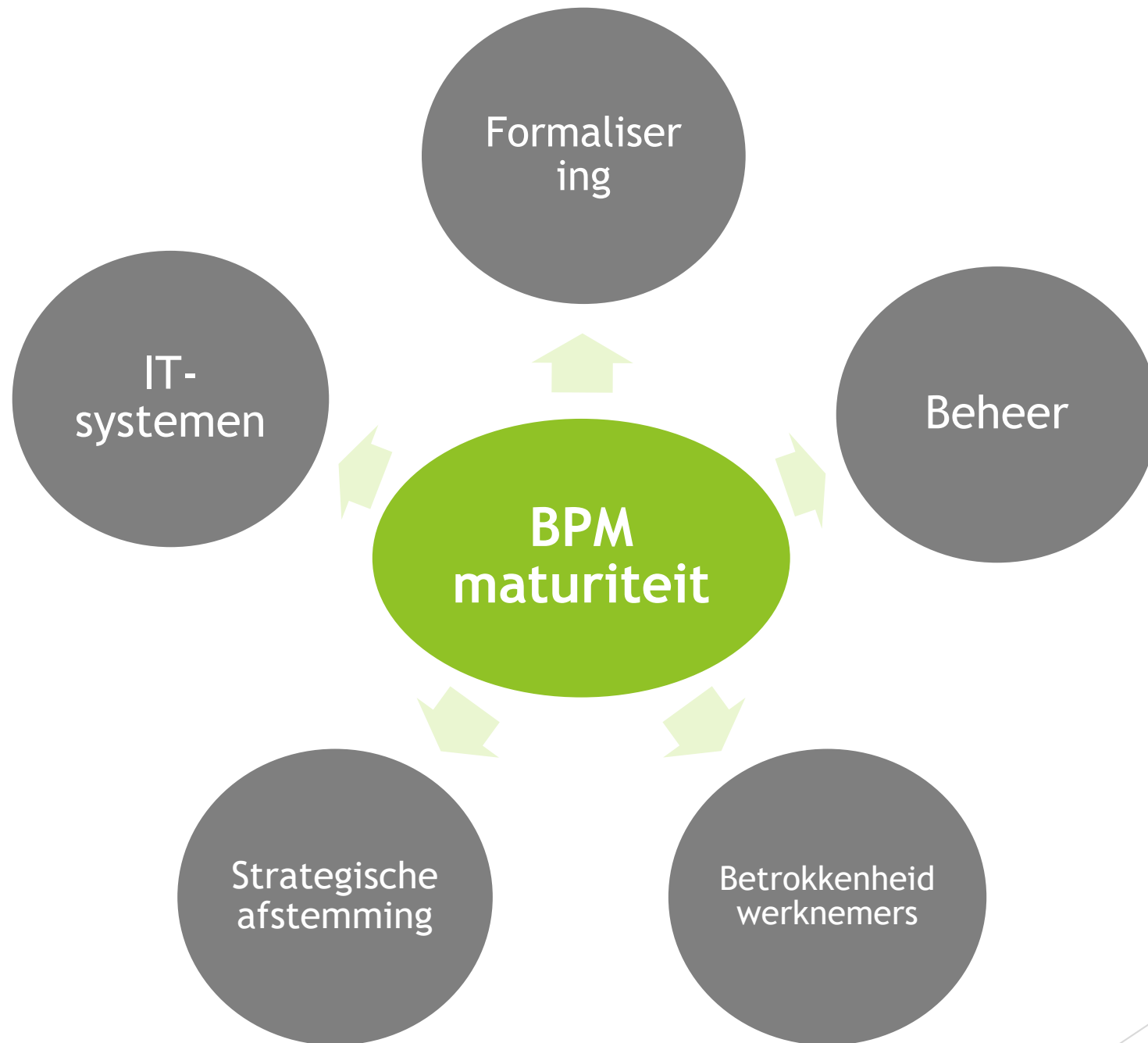
Proces doorheen de afdelingen

The background is a solid light green color. On the right side, there are several overlapping, semi-transparent geometric shapes in various shades of green, creating a dynamic, layered effect. These shapes include triangles and polygons of different sizes and orientations.

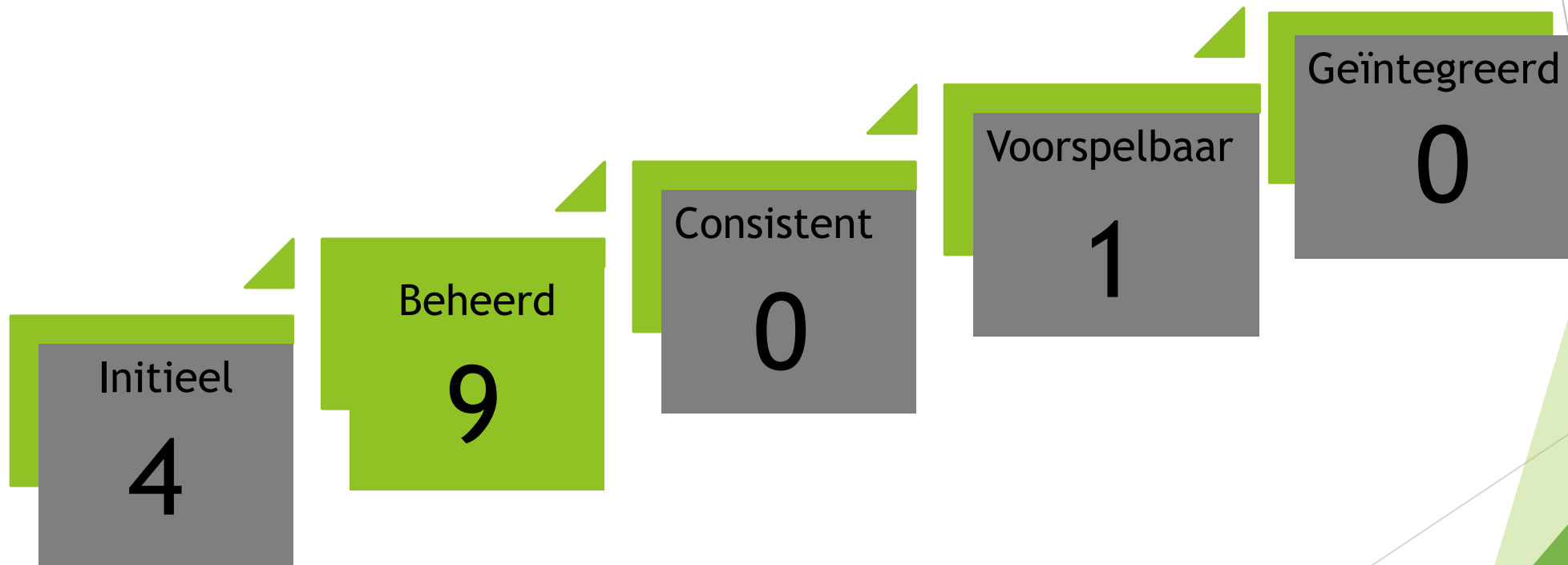
Maturiteit

5 Maturiteitsniveau's

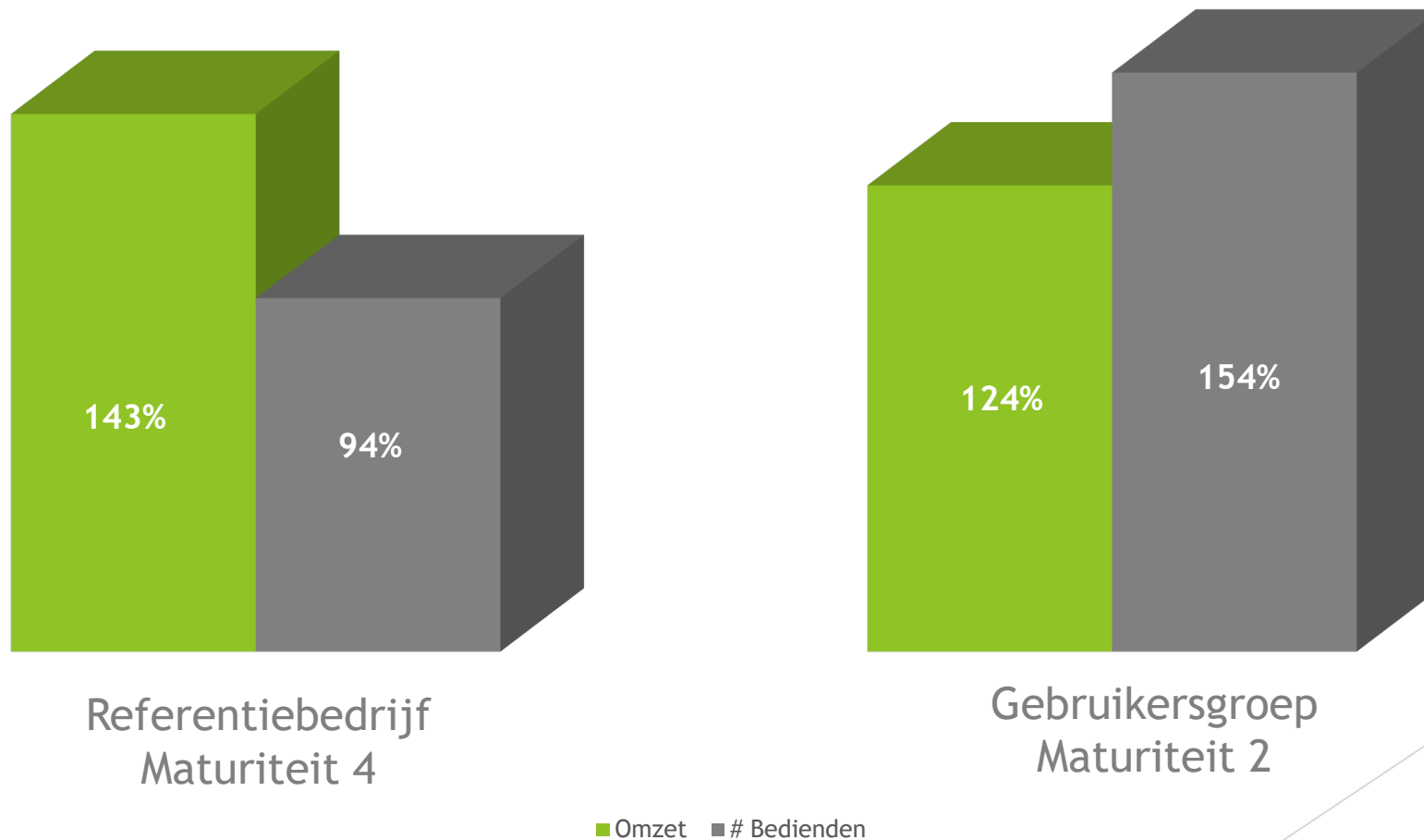




Vandaag



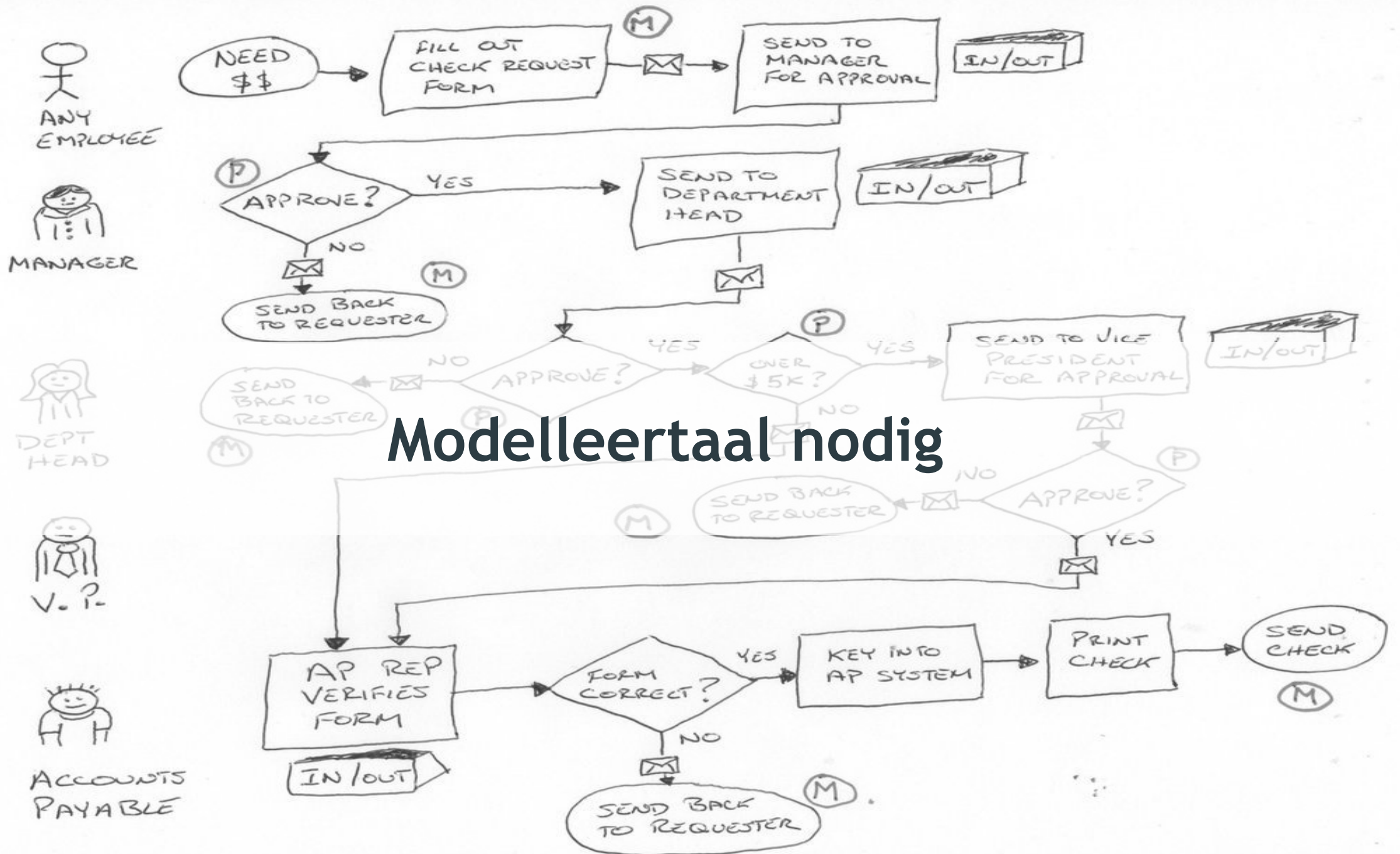
Evolutie over 5 jaar



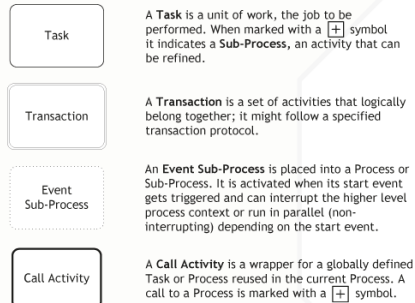
Hoe processen in kaart brengen



Met eenduidige afspraken

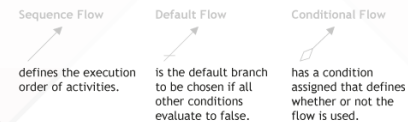
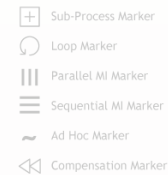


Activities

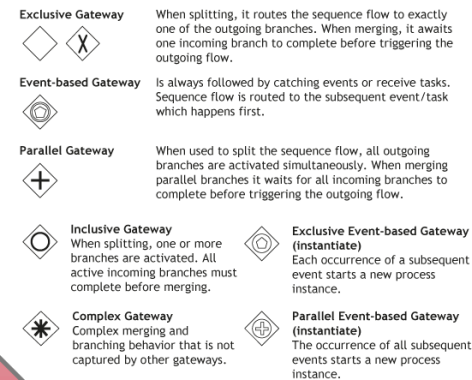


Activity Markers

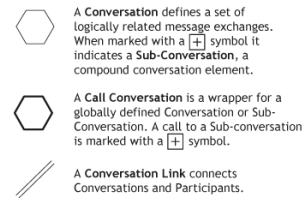
Markers indicate execution behavior of activities:



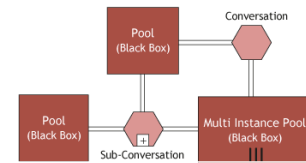
Gateways



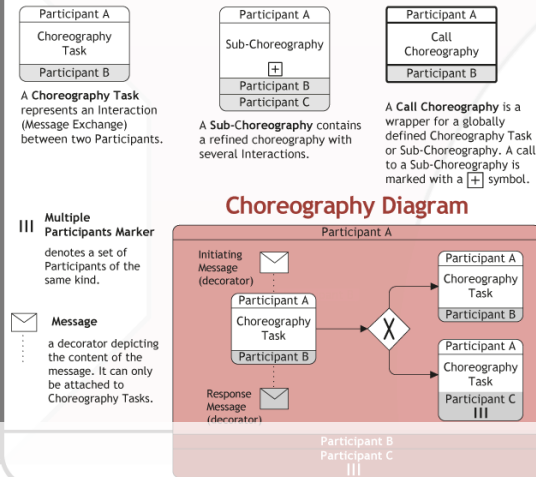
Conversations



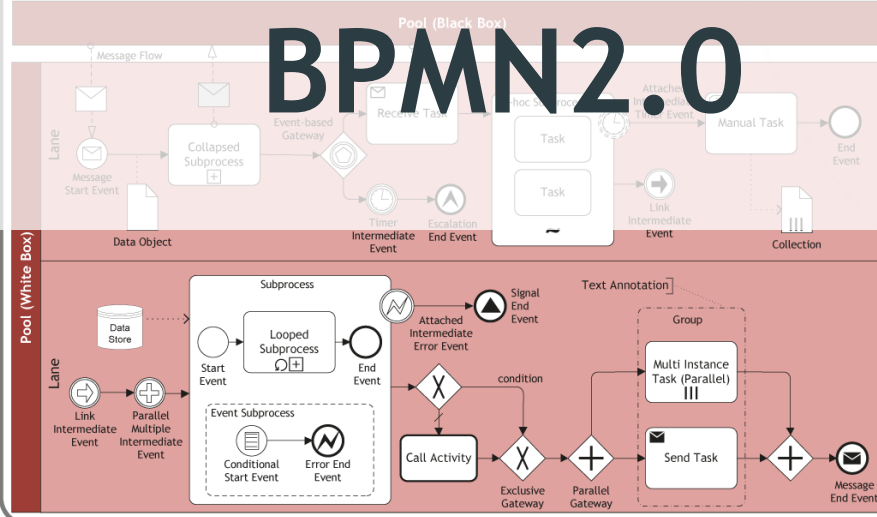
Conversation Diagram



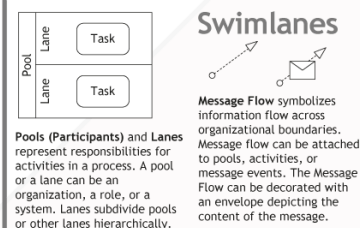
Choreographies



Collaboration Diagram



Swimlanes



Events

	Start	Intermediate	End
Standard			
Event Sub-Process Interrupting			
Event Sub-Process Non-Interrupting			
Catching			
Boundary Interrupting			
Boundary Non-Interrupting			
Throwing			
Standard			
None: Untyped events, indicate start point, state changes or final states.			
Message: Receiving and sending messages.			
Timer: Cyclic timer events, points in time, time spans or timeouts.			
Escalation: Escalating to an higher level of responsibility.			
Conditional: Reacting to changed business conditions or integrating business rules.			
Link: Off-page connectors. Two corresponding link events equal a sequence flow.			
Error: Catching or throwing named errors.			
Cancel: Reacting to cancelled transactions or triggering cancellation.			
Compensation: Handling or triggering compensation.			
Signal: Signalling across different processes. A signal thrown can be caught multiple times.			
Multiple: Catching one out of a set of events. Throwing all events defined.			
Parallel Multiple: Catching all out of a set of parallel events.			
Terminate: Triggering the immediate termination of a process.			

Data



A **Data Object** represents information flowing through the process, such as business documents, e-mails, or letters.

A **Collection Data Object** represents a collection of information, e.g., a list of order items.

A **Data Input** is an external input for the entire process. A kind of input parameter.

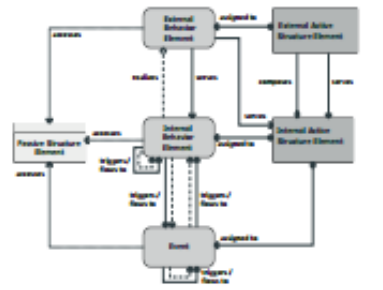
A **Data Output** is data result of the entire process. A kind of output parameter.

A **Data Association** is used to associate data elements to Activities, Processes and Global Tasks.

A **Data Store** is a place where the process can read or write data, e.g., a database or a filing cabinet. It persists beyond the lifetime of the process instance.

Generic Metamodel

The generic metamodel is a recurring construct that can be applied to every architecture level. It describes the possible relationships within a level.



Business Layer

Business Layer The elements of the Business Layer describe products and services of a company that are offered externally. Diagrams of the Business Layer illustrate the value chain of a company when realising a product or service and sit in the outside of the company's structure.



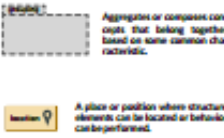
Application Layer

Application dependent



Physical Layer

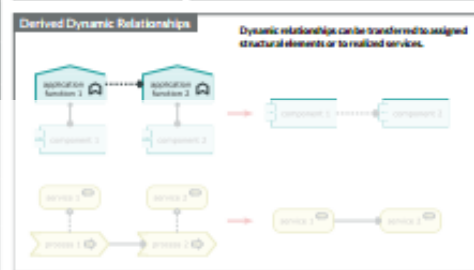
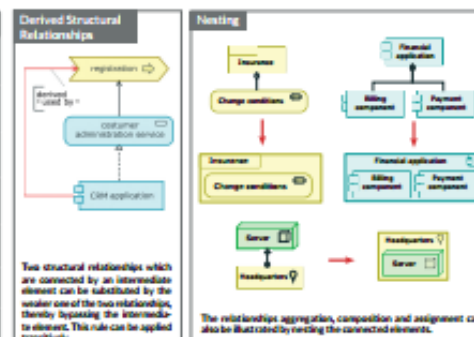
Physical Layer The Physical Layer extends the elements of the technology level to include further physical components, such as production plants and buildings.



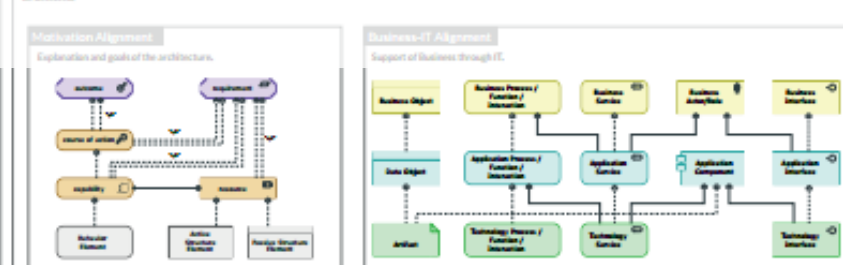
Application Usage Viewpoint	
Stakeholders	Enterprise, Process- and Implementation-Architects, Operation/Managers
Concerns	Consistency and completeness, minimization of complexity
Purpose	Designing and deciding
Level of abstraction	Coherence
Layers	Business and Application Layer
Aspects	Behaviour and structures

Relationships illustrate connections between elements of an enterprise architecture.

Type	Relationship	Description	Strong ID
Dependently And Strongly	 Influence	Models that an element affects the implementation or achievement of some motivation element.	1
	 Access	Models the ability of behavior and active structure elements to alter or act upon passive structure elements.	2
	 Serving	Models that an element provides its functionality to another element.	3
Universal Relationships	 Realization	Indicates that an entity plays a functional role in creation, achievement, sustenance, or operation of a more abstract entity.	4
	 Assignment	Expresses the allocation of responsibility, performance of behavior, or execution.	5
	 Aggregation	Indicates that an element groups a member of other elements.	6
	 Composition	Indicates that an element consists of one or more other elements.	7
Dynamic Modeling	 Flow	Transfers information from one element to another.	
	 Triggering	Describes a temporal or causal relationship between elements.	
Other Relationships	 Association	Models an unspecified relationship between two elements.	
	 Specification	Indicates that an element is a particular kind of another element.	
	 And	Used to connect relationships of the same type with an and junction.	
Other Relationships	 Or	Used to connect relationships of the same type with an or junction.	
	 Xor	Used to connect relationships of the same type with an xor junction.	

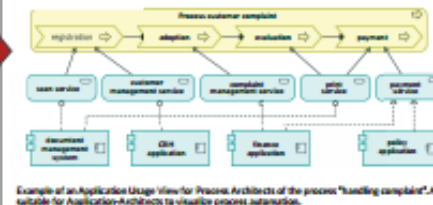
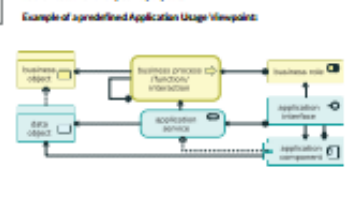


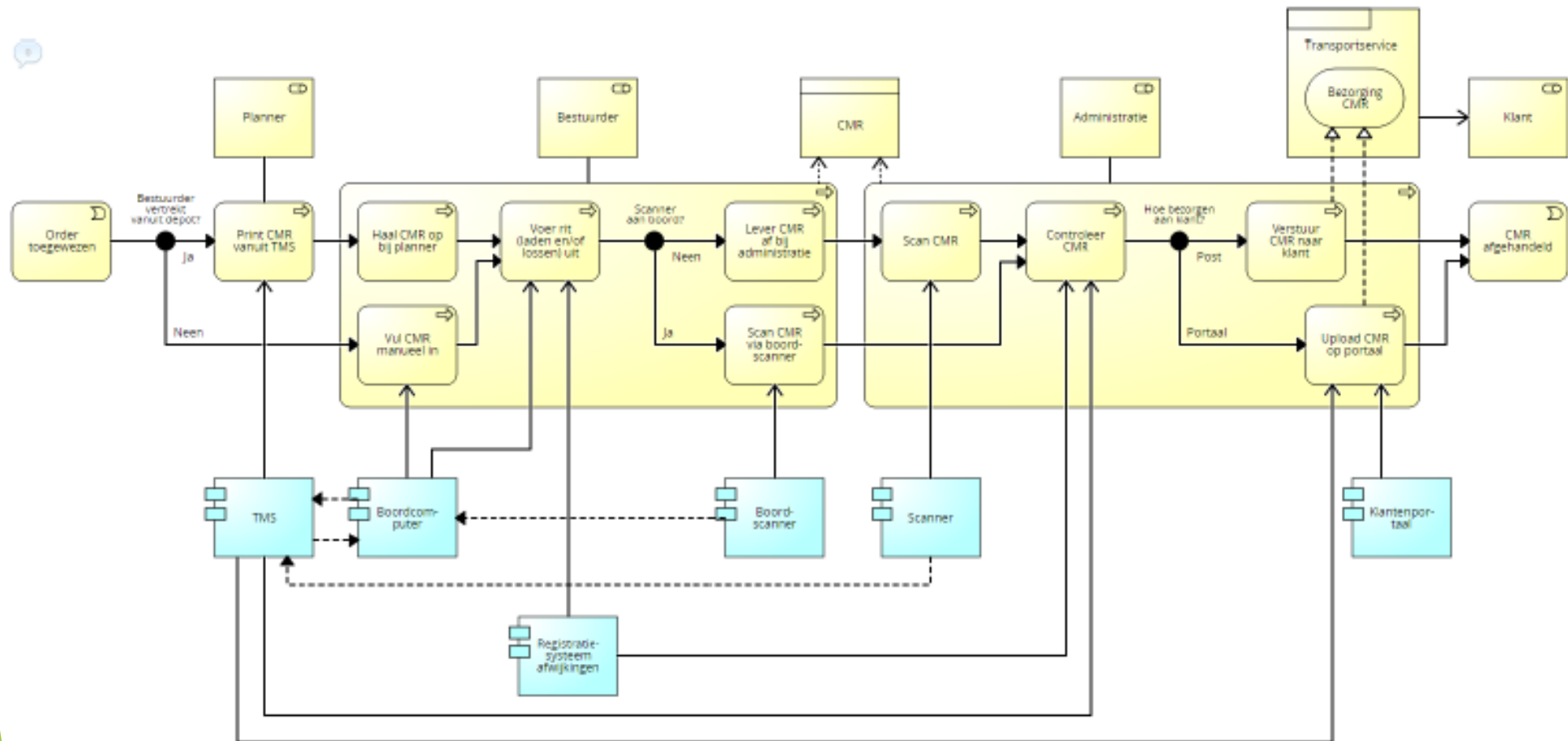
One of the key aspects of enterprise architecture is tracking relationships across different layers of the architecture. That decisions can be justified and consequences for different departments can be detected.



View

View of the enterprise architecture at a given point in time which is being defined by a Viewpoint







You can't manage what you don't know

Digitalisatie innovaties

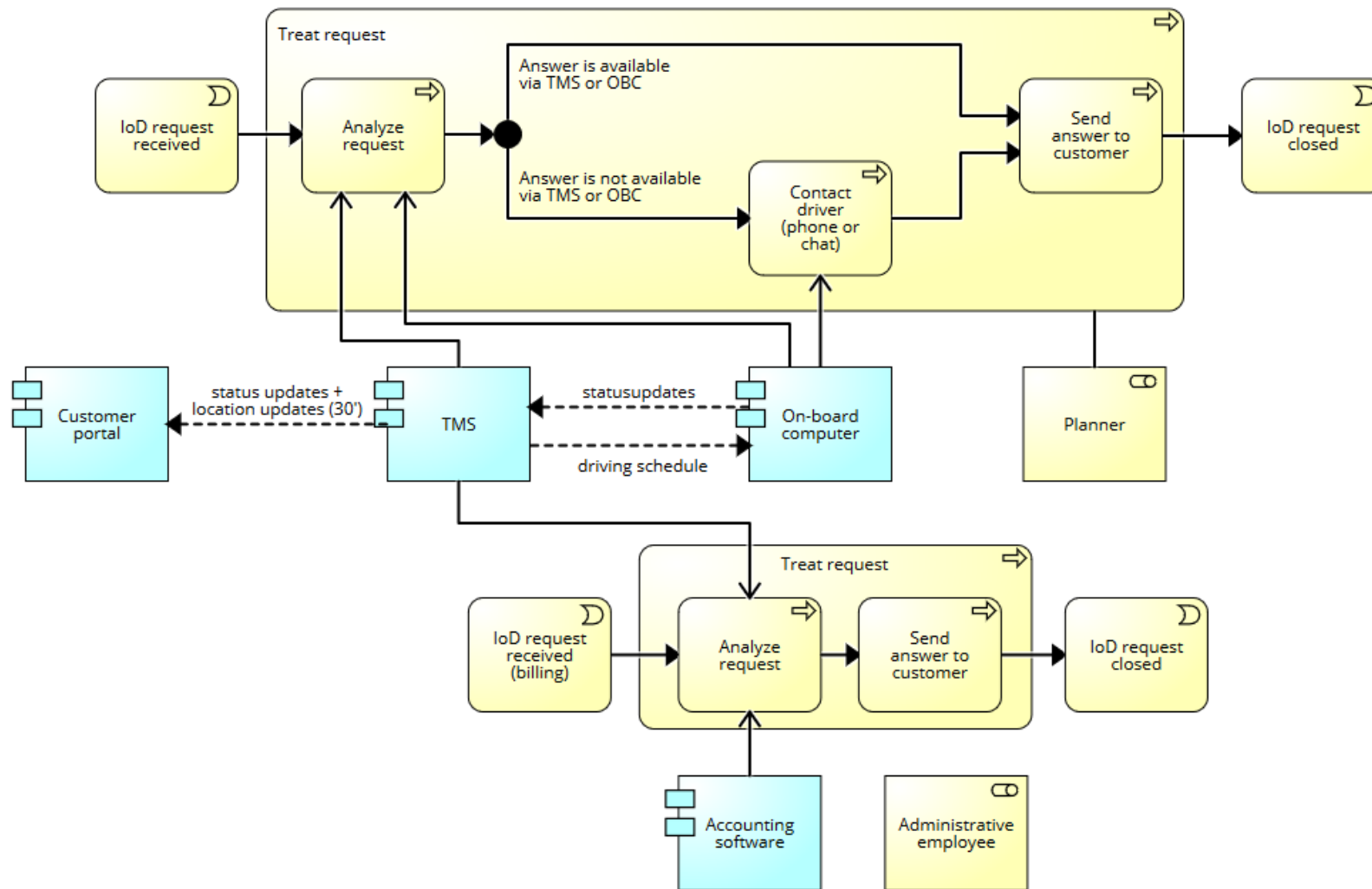
Information-on-Demand

IoD: Waarom niet?

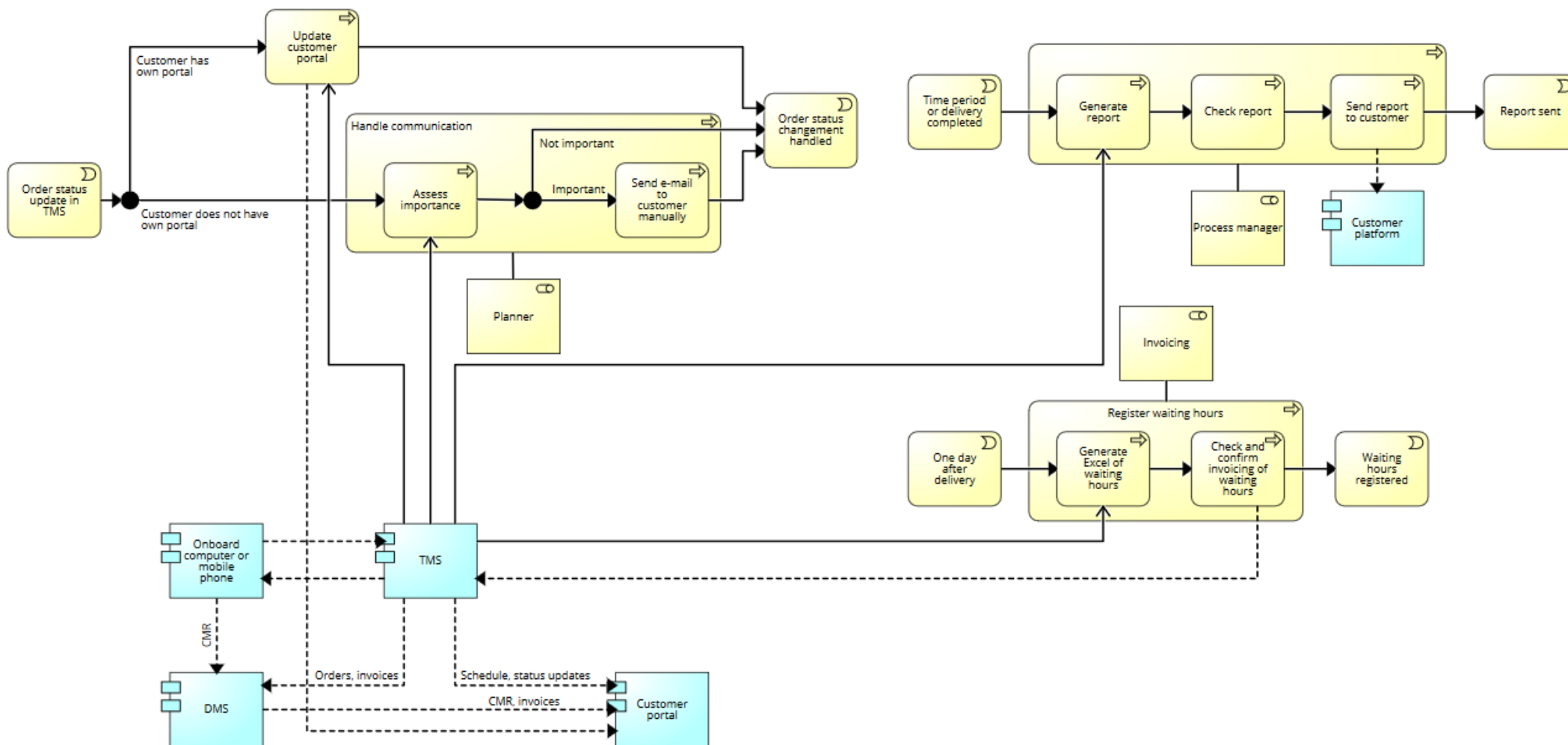
- Kosten informatieverschaffing kunnen niet worden aangerekend
- Informatie niet altijd deelbaar met de klant
- Vaak veranderende volgorde van leveringen en aankomsttijden
- Klanten bellen liever rechtstreeks naar de planner ipv portalen, automatische mails,...
- ...

Economische impact IoD

- 30k bedienden in de Belgische goederenvervoer sector aan een jaarkost van 50.000€ per VTE = 150 milj.€
- 10% tijdswinst: contact klanten & chauffeurs
- Ruimte voor andere taken



IoD: reactief 1



IoD: proactief 2

e-CMR

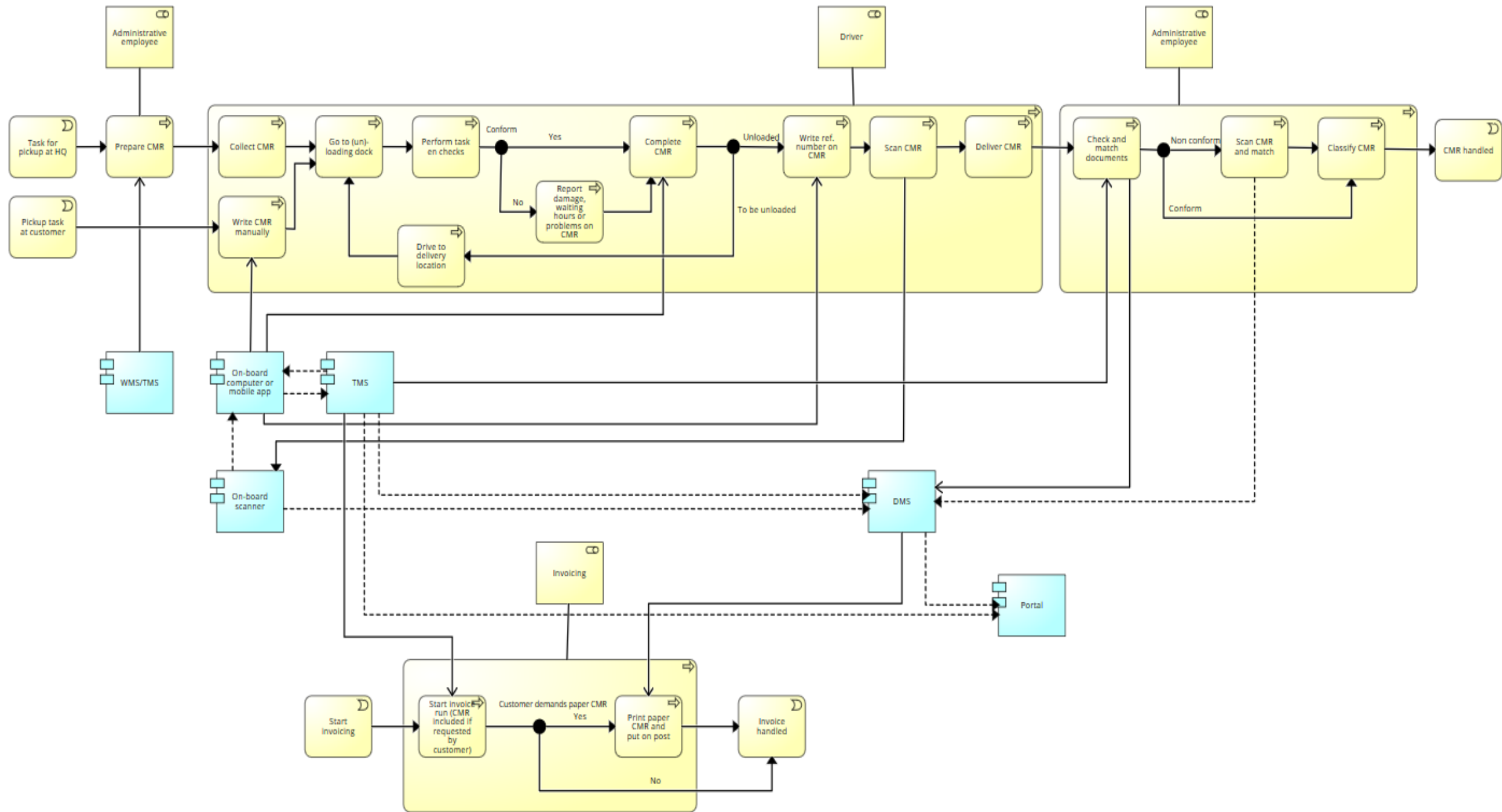
**“Iedereen wil de e-CMR,
maar niemand zet de eerste stap”**

e-CMR: waarom niet

- De klant wil dit niet
- Wie gaat deze kosten betalen
- De integratie met het TMS staat nog niet op punt
- ...

Economische impact e-CMR

- Studies tonen aan dat de e-CMR een besparing kan opleveren tussen 1,86€/CMR (TNO) en zelfs 13€/CMR
- Aantal CMR's per jaar x ...



IoD & e-CMR

Bedrijfsprocessen hierop afstemmen om besparing effectief te realiseren

Zoniet meerkost!

Methodologie

Waar *verliezen* we tijd/geld?

Wat zijn de *bottlenecks*?

Wat kan er *beter*?

Meten we onze prestaties?

*Gericht naar de IT service providers
stappen om deze processen in te voeren*

Artificiële intelligentie



Planification graphique

Emetteur: Camion Remorqueur Chauffeur Caisses mobiles

toutes les données * Vue: France Suisse Toutes Commandes *

Pour regrouper les colonnes, faites glisser l'en-tête de colonne dans cette zone

N°Ordre	CharDeDat	CF	CPChar	RégDép	NomMand	Lieu chargement	DéclDeDate	CF	CP de r	RÉG
> 10038605	27/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	28/12/2017	CH	4057	
10038604	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	2800	
10038603	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	6015	
10038602	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	3011	
10038601	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	3855	
10038600	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	1530	
10038599	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	1006	
10038598	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	3900	
10038597	06/12/2017	F	94550	IDF	Fruits de Paris	Chevilly-Lanue	07/12/2017	CH	8050	

Carte - Afficher les points de chargement et de déchargement

Détails de la tournée

10006021 | 21000 kg | 0,0 EP | 465,93 km | 100386021 | 27/12/2017 | 14:15 | F-78520-Follainville-Dennemont | 100386021 | 28/12/2017 | 13:21 | F-14650-Carpiquet

Affichage des arrêts Affichage des envois

Lieu de chargement/déchargement	Planificate
F-78, Follainville-Dennemont	14:15
SARP Industries	15:00
F-78, Follainville-Dennemont	15:01
SARP Industries	15:46
10038594 8000 kg 0,0 EP	
jeudi, 28/12/2017	
F-76, Rouen	17:18
NL Logistic	08:45
10038594 8000 kg 0,0 EP	
F-76, Le Havre	10:09
NL Logistic	10:54
10038593 6000 kg 0,0 EP	
F-14, Carpiquet	12:38
Entrepôts GODFROY	13:21
10038592 7000 kg 0,0 EP	

Tournees

ouvert Planifié En route délivré Confirmé

toutes les données * Vue: Depuis hier * Modèles Toutes Tournees *

Pour regrouper les colonnes, faites glisser l'en-tête de colonne dans cette zone

N° de tournée	Date de la tour	Statut	Voir	Couleur	StatutArbe	ID PL Tour	ID Remorque Tou	Nom du chauffeur	Nom1 (transporteur)	CPCha	Lieu charger	CP de r	Lieu de rbc	TempsTour	EnCharge	EnVide	PéageKm	PoidsEP	RevenuCalculé	Affrètement Net	CoûtsCalc	Tour
10006019	27/12/2017	ouvert				AC - Z 100	MS-ED 395	Boris Melnik	Transports LIS	77100	Meaux	08300	Rethel	13:16	247,68	140,80	226,16	17 342,00	1 161,00		-352,40	
10006020	27/12/2017	ouvert				AC - Z 102	ST - A 333	Olivier Moutou	Transports LIS	93350	Le Bourget	62100	Calais	15:27	293,36	271,84	456,38	22 000,00	1 037,00		-504,63	
> 10006021	27/12/2017	ouvert				AC - Z 103	HH-4321	Jacques Dupont	Transports LIS	78520	Follainville-C	14650	Carpiquet	14:15	269,57	196,36	270,85	21 000,00	911,00		-432,56	

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Aanbevelingen

1. *Maturiteit van het bedrijf?*



2. Breng jullie processen in kaart

3. Analyseer jullie processen



4. Technologie is belangrijk maar maakt **ALLEEN** niet het verschil



Zorg dat je je processen beheerst

