

Digital Transformation

Yaşar Karadeli

Head of Software Development

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AVIVA SA

YARIN ŞİMDİDEN GÜZEL

Dijital Transformation – Modernization Program

Technology

It is not just to replicate an existing service in a **digital** form, but to use **technology to transform** that service into something better.

Processes

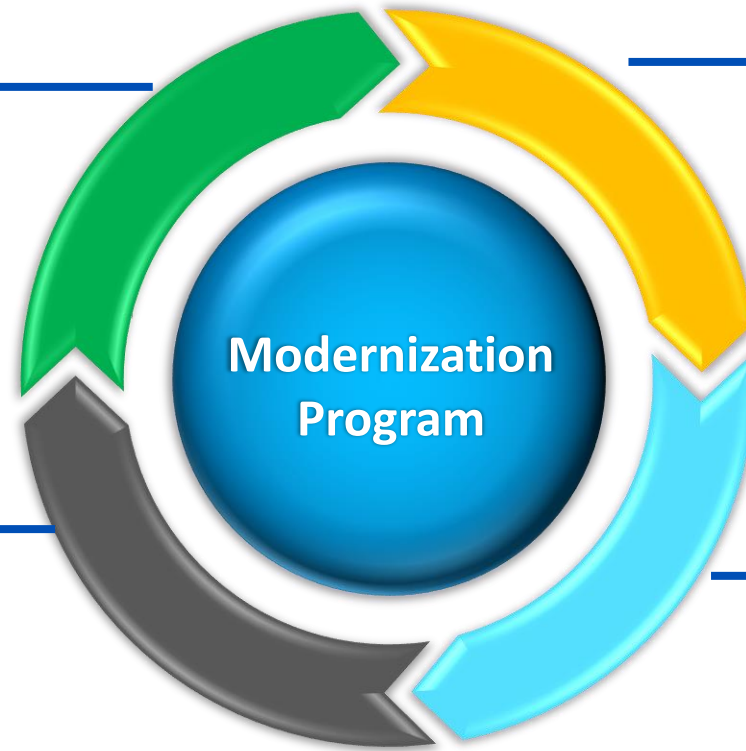
The process you use to drive digital transformation must be **carefully balanced** with the **maturity of the technologies** you're implementing, the **ability** of your people to implement them and the **patience and tolerance** levels of customers to experience them.

People

People, who have technical and soft skills, are very important role of the transformation.

Partners

Digital transformation partners with **domain expertise, team player** and understanding **customer needs** are critical on your way.



Execution & Culture

Modernization Program Roadmap

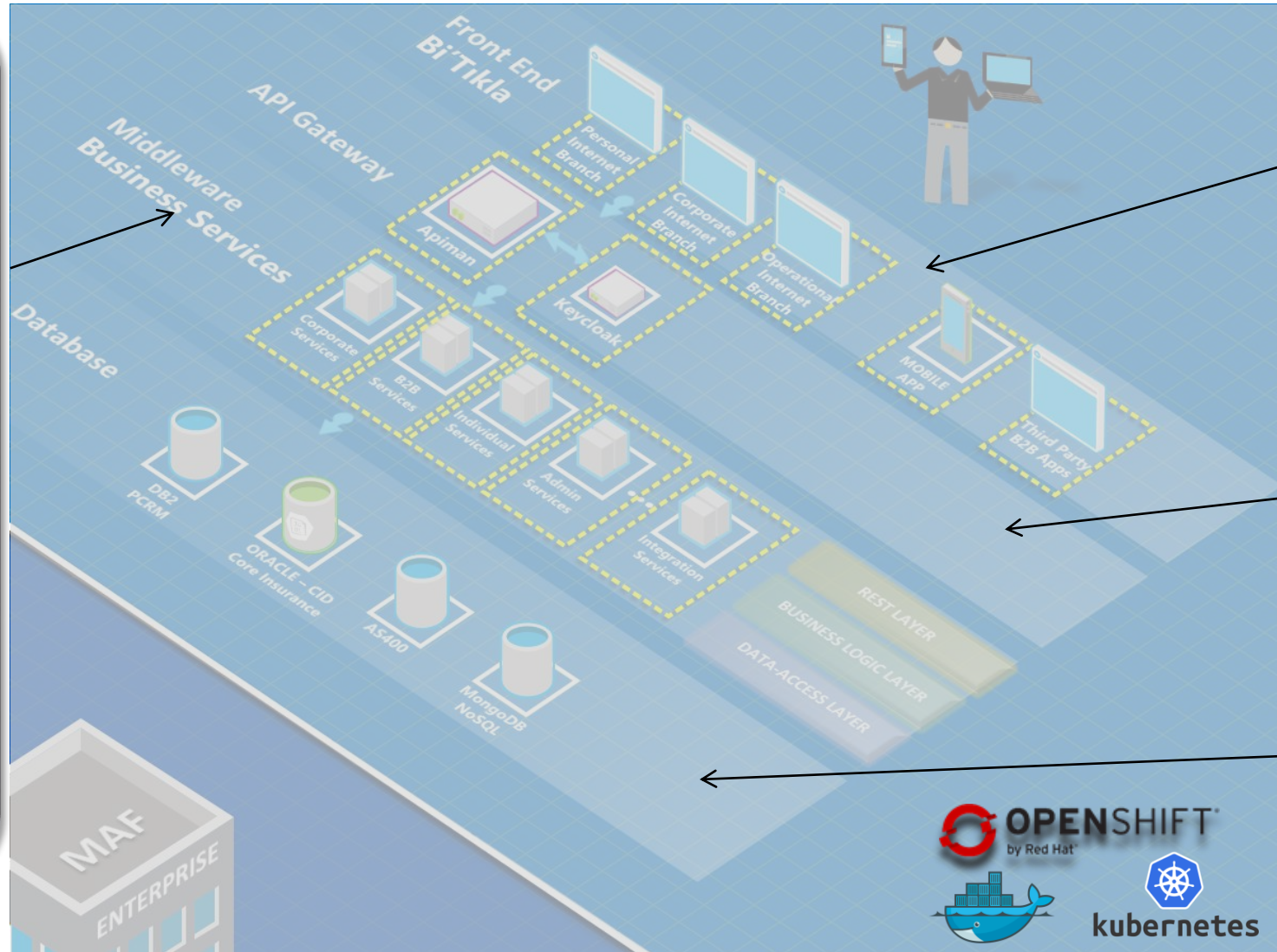


Modernization Program

Technology – Architecture & Tool Stack

A collage of various tools and frameworks used in the modernization program, including:

- spring, spring boot
- Spring Cloud
- graylog
- SWAGGER
- kafka
- JHipster
- Document Management
- elastic
- LOGBack
- BPM
- Business rule management system
- redhat
- JBoss



React, Redux, Bootstrap

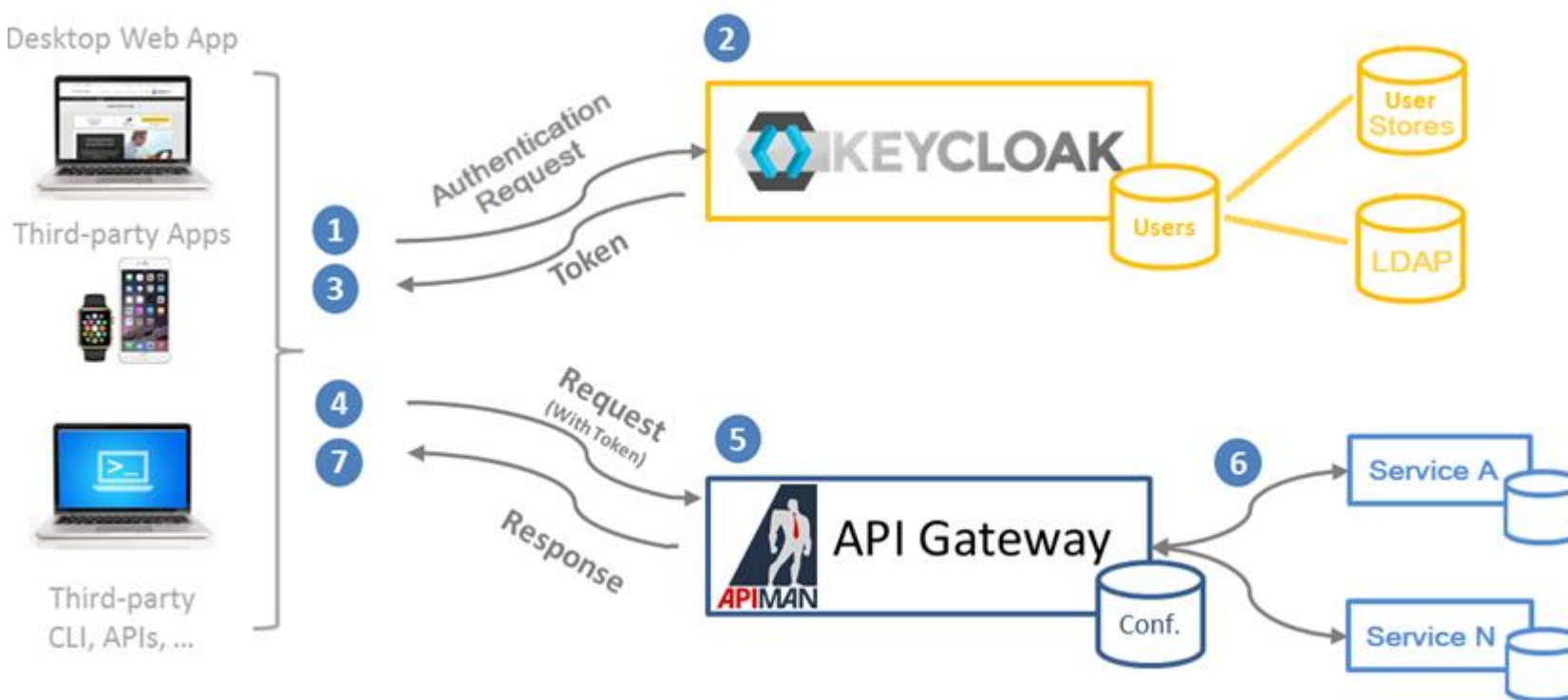
API MAN, KEYCLOAK

HIBERNATE, LIQUIBASE, mongoDB

Modernization Program

Technology – API Management & Security

Centralized & Isolated Management for API & Security



Keycloak – Identity and Access Mng.

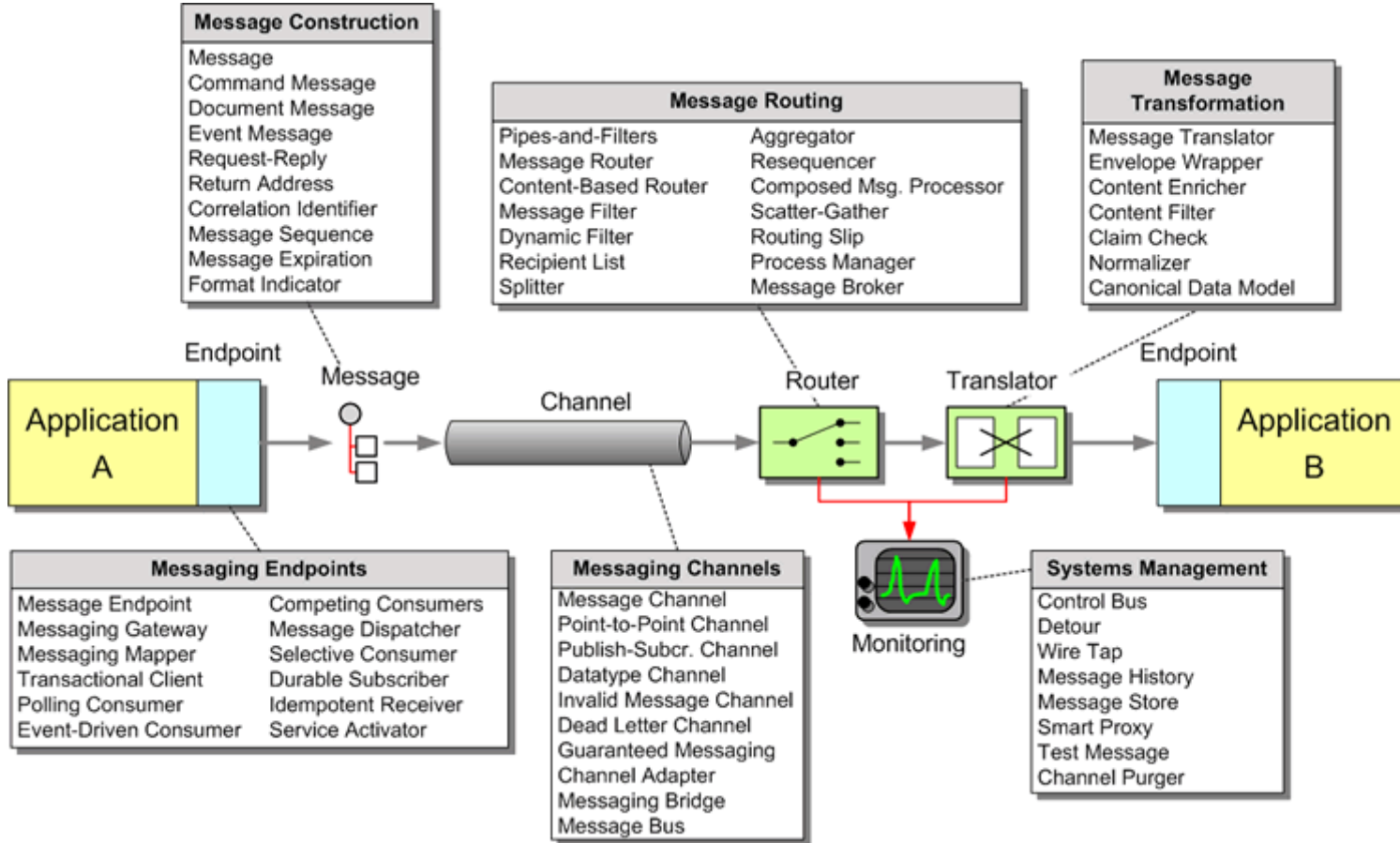
- Centralized API Security
 - Authentication (oAuth 2.0)
 - Authorization
- User Federation
- Single-Sign On
- Client Adapters
- Identity Brokering and Social Login

APIMAN – API Gateway

- Central API Governance & Entrance
- Control and Access Policies
 - API Throttling/Quotas/Metrics
 - Client Management
 - URL & IP Whitelist / Blacklist
- API Transformation
- API Version Management & Inventory

Modernization Program

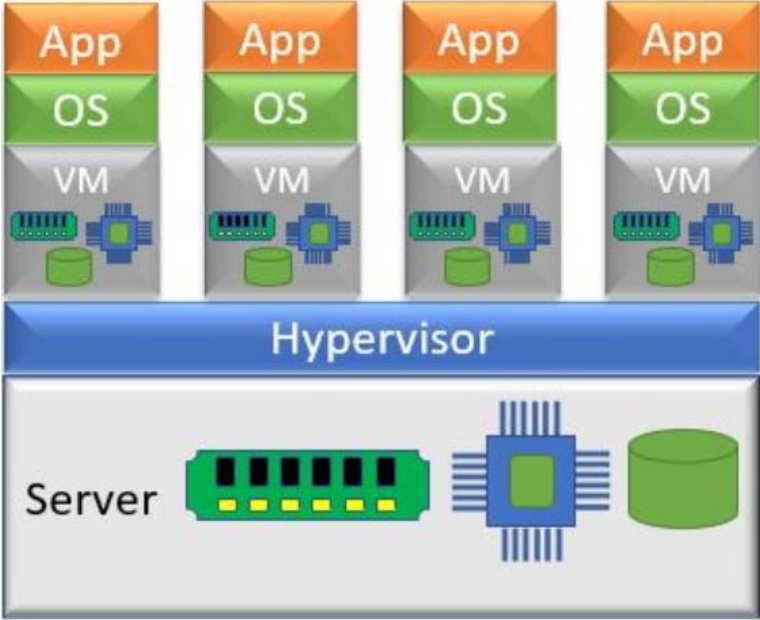
Technology – Integration (Enterprise Integ. Paterns)



- Reducing complex application integrations to ESB
- Easily reuse already proven EIP (Enterprise Integration Patterns) by using Camel
 - Circuit Breaker
 - Content based routing
 - Content Enricher
 - Multicast
- Ready to use components AS400 Integration, Rest API, FTP, File, ActiveMQ, Kafka, Bindy (text2obj), PGP encryption

Modernization Program

Technology – Cloudy Ready

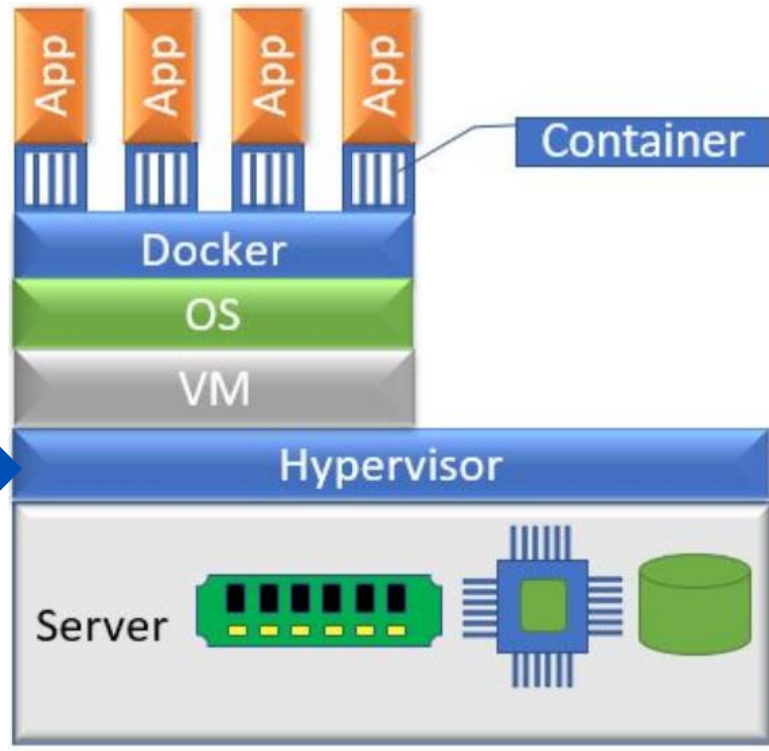
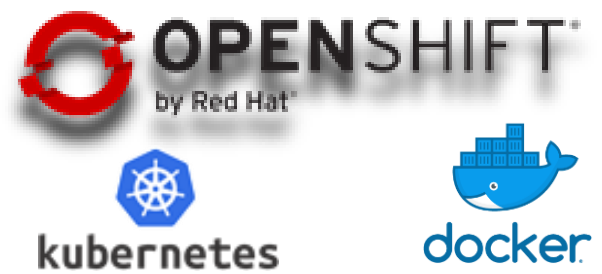


Hypervisor Architecture

- Containers instead of Virtual Machines
- Low memory footprint(No OS Overhead)
- Less resources needed
- Microservices architecture enablement
- Isolation of each service group

Our objective is to be ready for **public cloud.**

- Dynamic clustering, High-availability
- Responsiveness – Scale up/down
- Reproducible – Infrastructure, Environment as a code
- Build entire environment automatically
- Cost effective



Container Architecture

Modernization Program

Technology – Redhat Sucess Story



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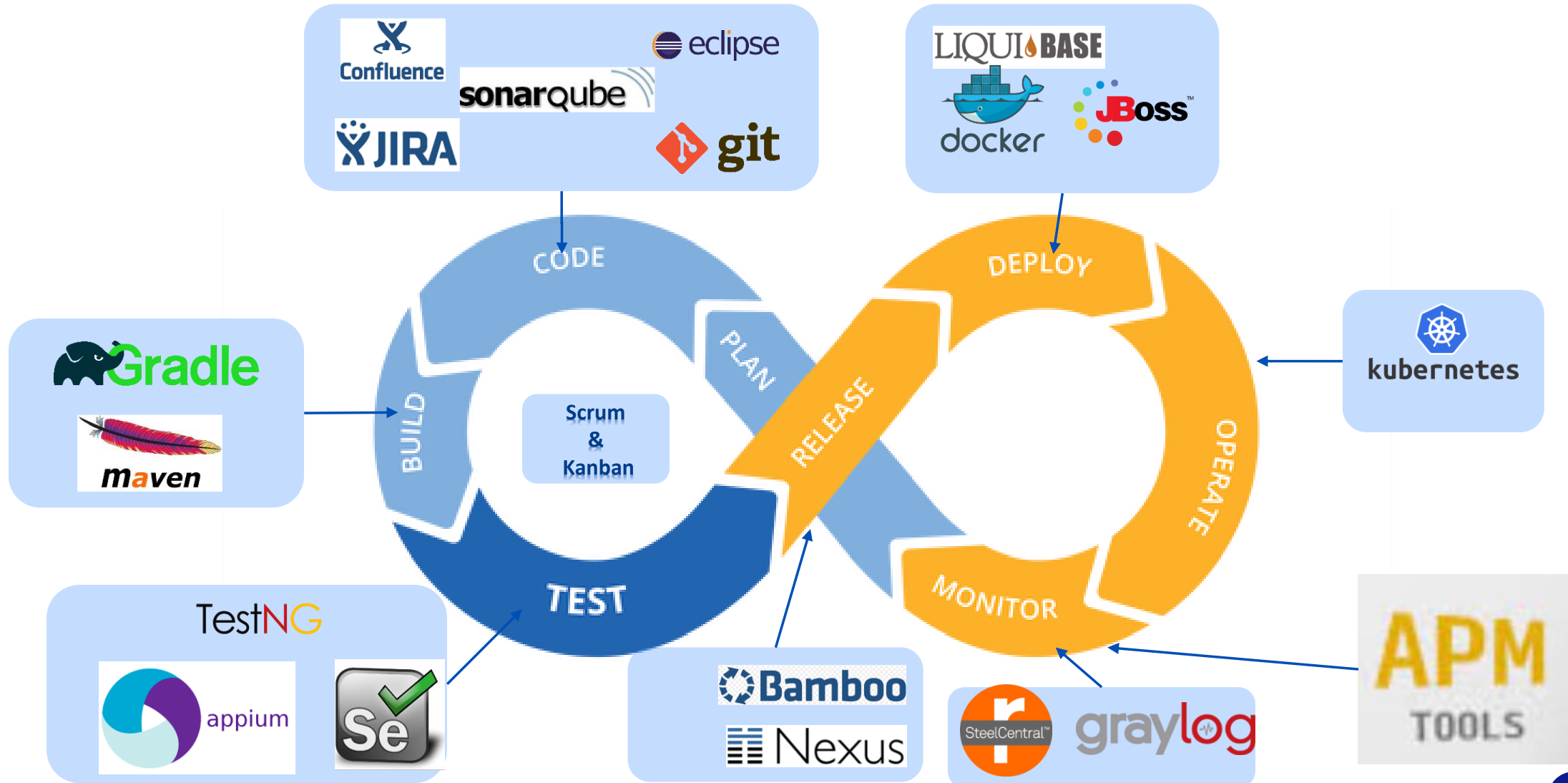
SOFTWARE

Red Hat® JBoss® Fuse

AvivaSA, one of Turkey's leading private pension and life insurance providers, needed to deliver faster, more mobile services to meet changing demands and government regulations. To meet these needs, the company began an initiative to modernize its IT environment and architecture. With improved performance and integration capabilities provided by Red Hat JBoss Fuse and Red Hat JBoss Enterprise Application Platform, AvivaSA can effectively support Turkey's new auto-enrollment program and win new corporate business.

Modernization Program

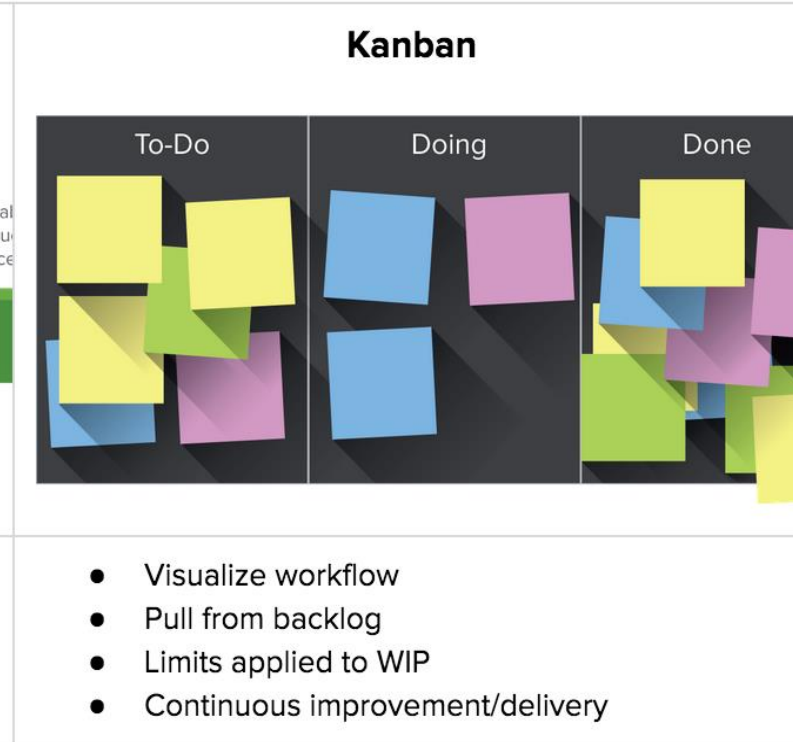
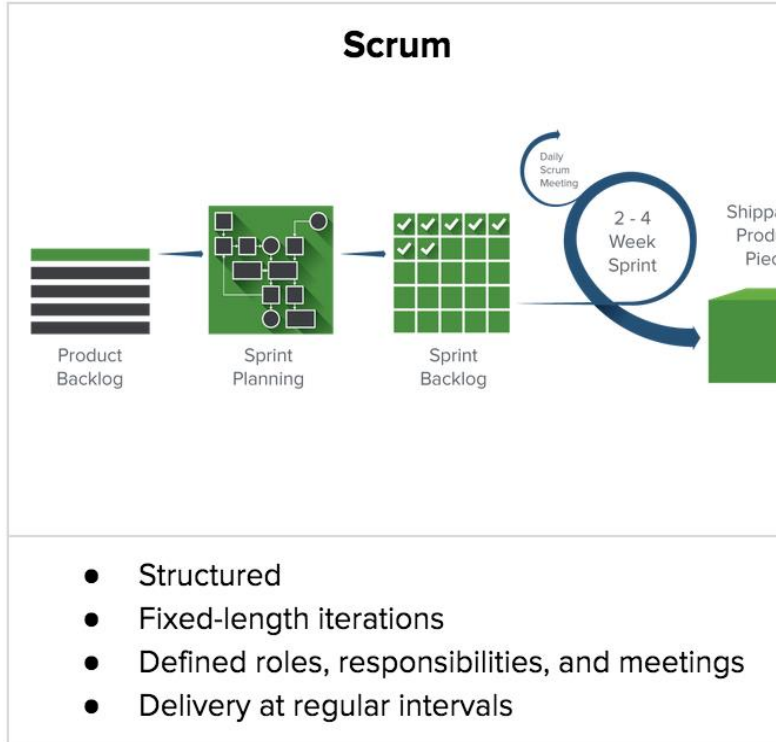
Processes – DevOps



Modernization Program

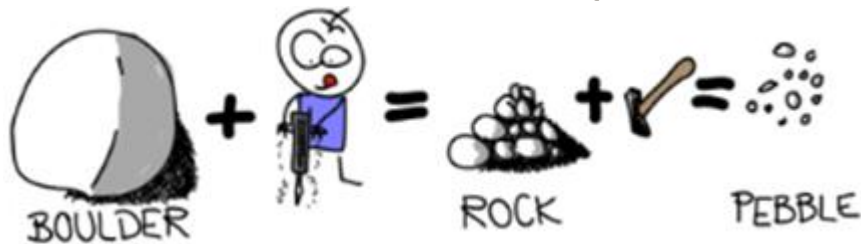
Process & Culture – Scrum & Kanban

- Suitable for product development
- Suggested, if the scope is not %100 clear and scope change is needed during project
- Small pieces handled in periodic cycles - sprints
- Customers can see the result in intermediate stages



- All about continuous development and delivery
- Suitable if the changes are too fast and there is continuous stream of work request
- Tackling definite number of task fluidly and concurrently
- Visual planning and progressive stages of completion

adesso



Changes are **too fast**



bugfix

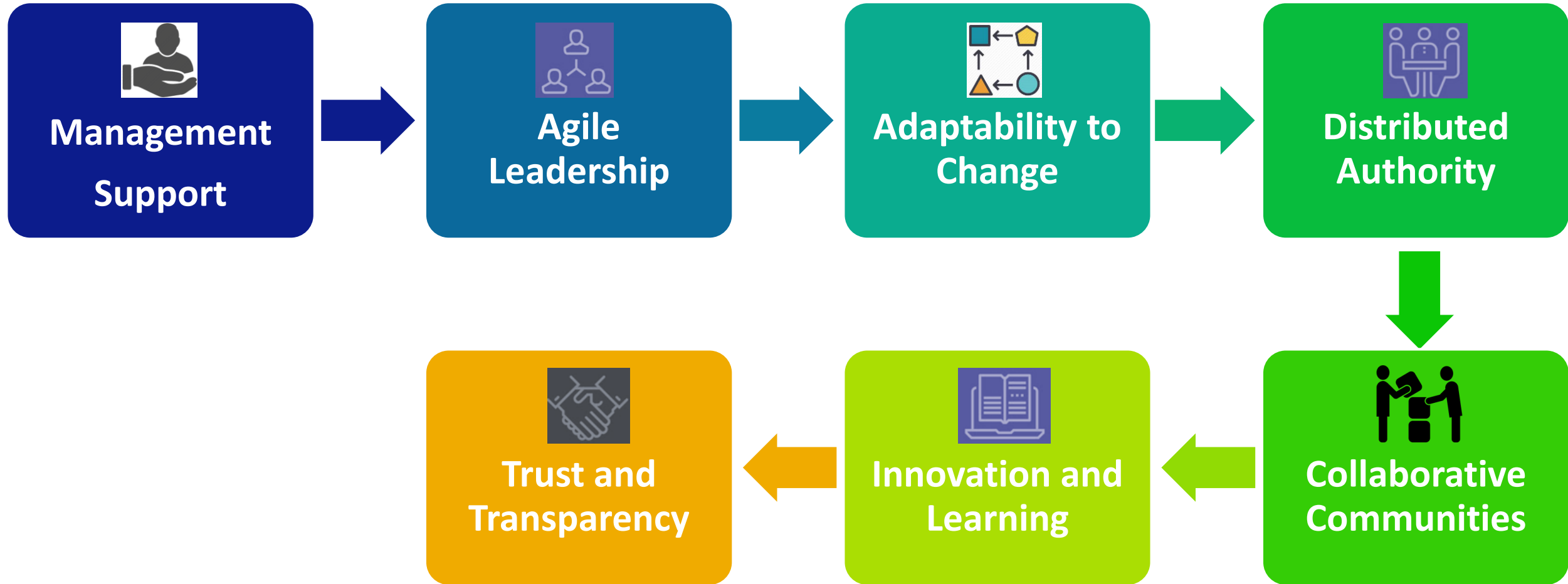


support/maintenance work (operational level)



Modernization Program

People & Execution



Thank You

yasar.karadeli@avivasa.com.tr



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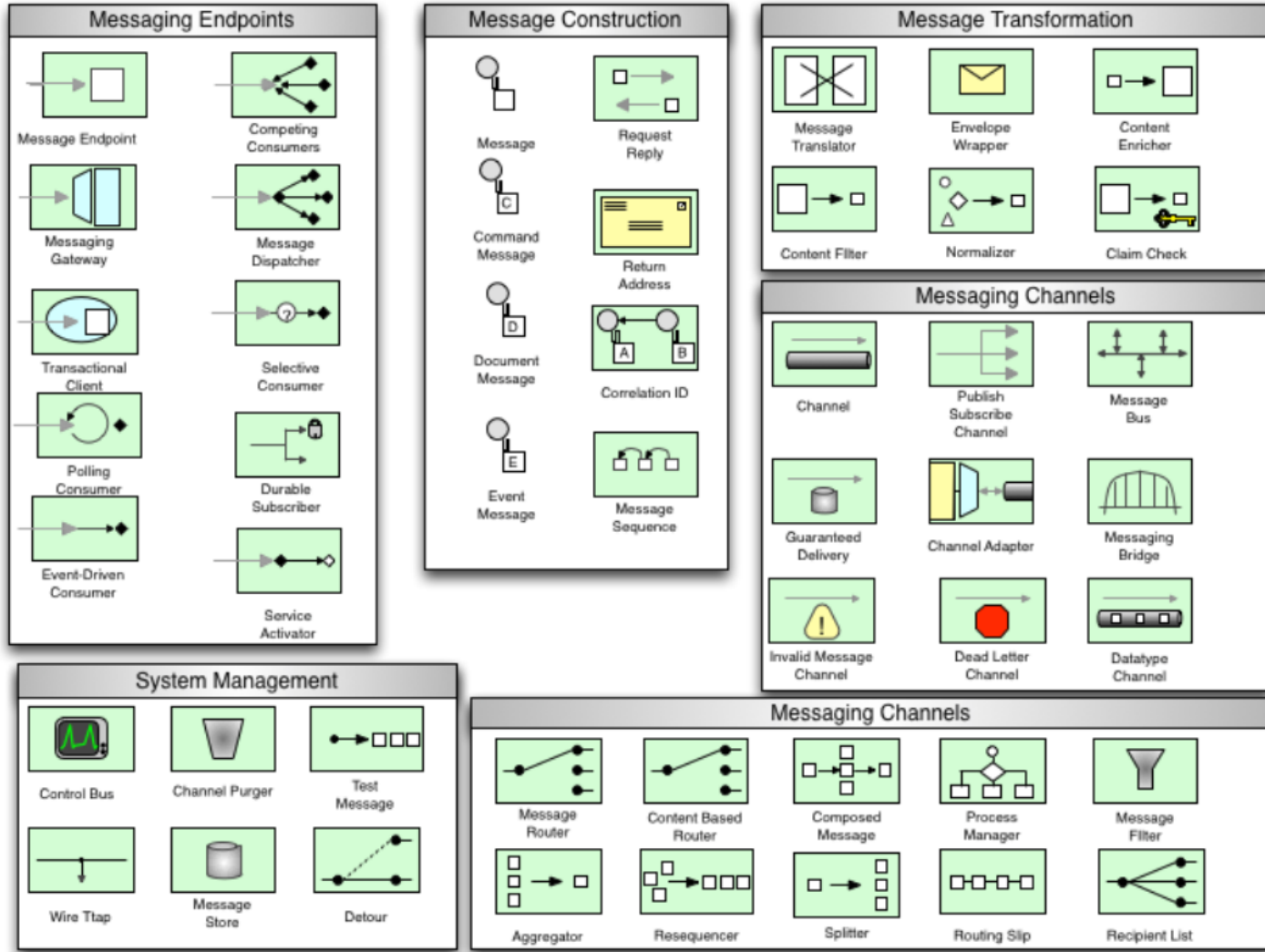
Backup



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Modernization Program Technology – Integration

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