DYNUG.NO

HØSTKONFERANSE 26. OG 27. NOVEMBER
AV BRUKERE - FOR BRUKERE

Microsoft   Columbus   solver NORWAY   next 365   advania   inspirit   OSEBERG SOLUTIONS   experlogix   Semine   eye-share

ERFARING: Administrere endrings-, utgivelses- og testadministrasjonen din effektivt

2024-11-21

Mattias Widegård – VP Solution Architecture
Orkla Food Ingredients

About the presenter

Widegård, Mattias

VP Solution Architecture at Orkla

Mattias Widegård is the Vice President of Solution Architecture at Orkla Food Ingredients. With 5 years at Orkla and 20 years in ERP consultancy, he has extensive experience from AX 3.0 to D365FO, showcasing his 20-year expertise with the product. Mattias possesses a strong technical understanding of development, conversion, and migration. His driving force is overcoming the complexity and obstacles of ERP projects, working with the project team to design and implement optimal solutions that align closely with standard system processes.
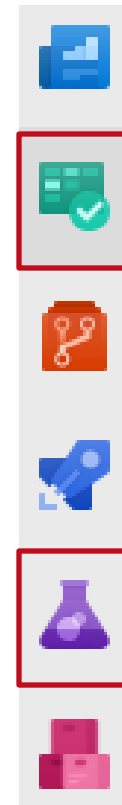
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Today's topic as an agenda

DevOps focus

- About Orkla Food Ingredients

- OFI Core Solution

- Environment strategy

- Release management

- Implementation methodology

- Test management
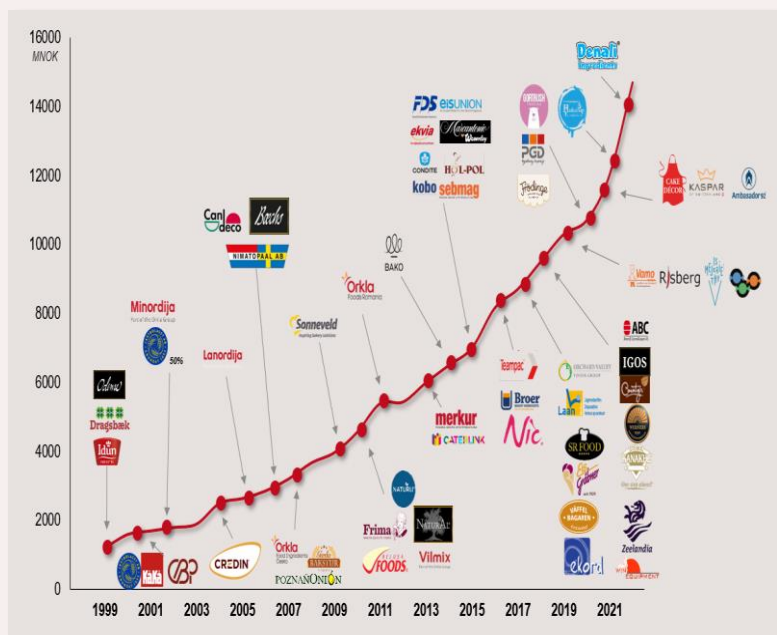
- Q & (maybe) A – Ask us about "anything"

Boards

Test (if time allows)

**Dreadful slides
&
Swedish**

OFI
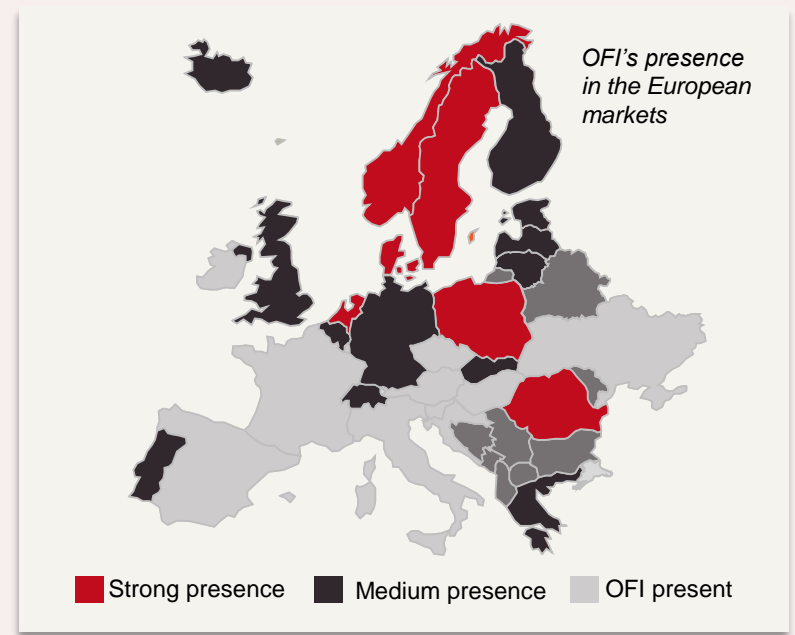UNITE

OFI was founded in 1999 by 4 Nordic companies, with a proud heritage that goes back more than 100 years

...24 years later, the group includes

~4 000 employees

in

~60 operational companies[1]

across

22 European countries & US,

with a total operating revenue of

18,6 BNOK

OFI's presence in the European markets

■ Strong presence   ■ Medium presence   ■ OFI present

Note: Full-year figures 2023
1. 100 legal entities

Odense (Denmark), 1909

Dragsbæk (Denmark), 1924

OFI
UNITE

OFI business is structured into 3 main Clusters, corresponding to our strategic directions

OFI

1 **Bakery Ingredients**

European leading supplier of bakery and pastry ingredients

2 **Sweet Ingredients**

Leading Ice Cream Ingredients & Accessories and leading specialists in Confectionery Ingredients & Decorations

3 **Plant-Based**

Producer of future sustainable, nutritional, tasteful, plant-based food solutions

Our growth philosophy: OFI Value Creation Model

2nd Hat *OFI total*

1st Hat *Local company*

3 Expanding

2 Playing as a team

1 Winning locally

"Winning locally by playing as a team"

Produce at scale
European categories

Sell locally
Close to customers

Flow of Knowledge

Flow of Profit

Flow of Products
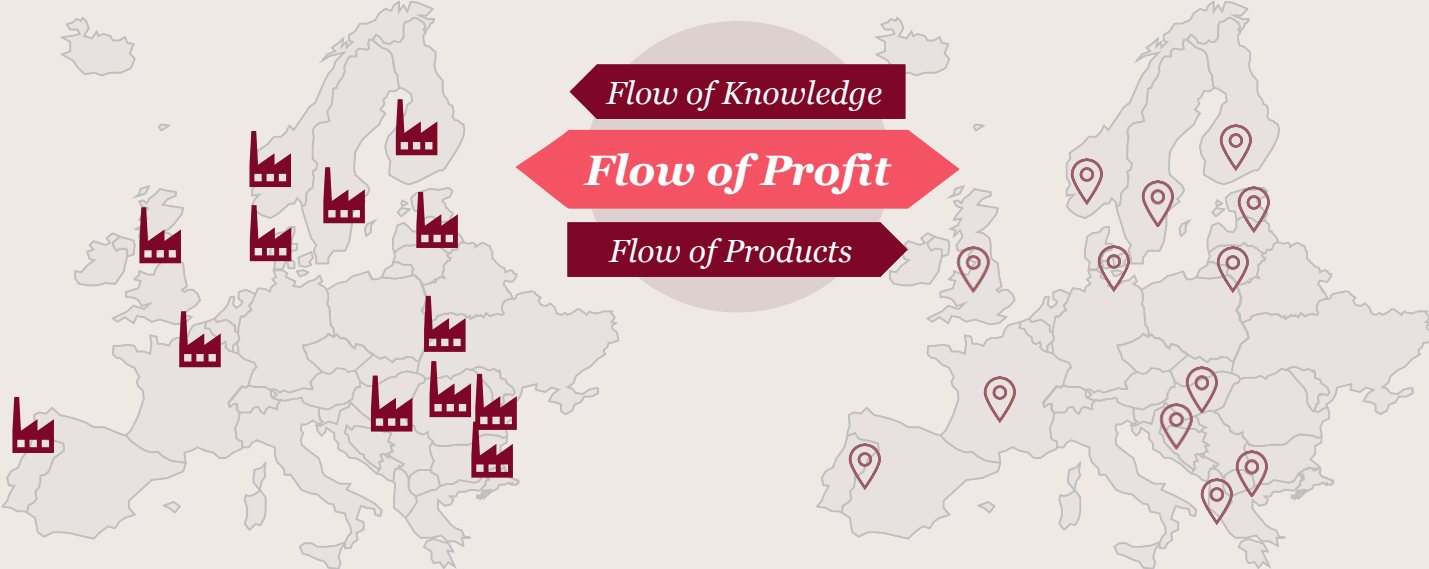
Creating strong local cooperative leadership teams and winning culture

OFI organizational structure

	Credin Group	Idun Group	Kåkå Group	Odense Group	OFI CSE	OFI NEE	Sonneveld Group	NIC	OV	Denali	Dragsbæk Group
Business Unit Groups	Producers of improvers, cake, pastry & bread mixes, custards and fillings (DK, PL, PT, SE)	Producer & distributor of bakery ingredients & semi-finished products for Norwegian market	Distributors of bakery ingredients & semi-finished products and producer of yeast for Swedish market	Producer of High-quality marzipan, jam and frozen cakes for B2B and B2C market	Distributors of bakery ingredients & producers of margarine for CE markets, as well as BCG for Romanian market	Distributors of bakery ingredients in Finland, Baltics & Poland and producer of spices	Producer of bread improvers, mixes and release agents in BeNelux, France and UK	"One stop shop" for ice cream ingredients and accessories	Producer and distributor of confections, decorations and inclusions	US-based producer of custom specialty ice cream ingredients	Producer of margarine and broad assortment of 100% plant-based food products (Naturli')

Clusters:

Bakery Ingredients	Sweet Ingredients	Plant-Based

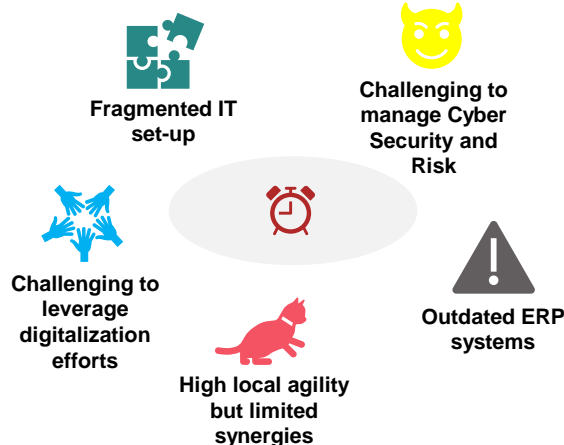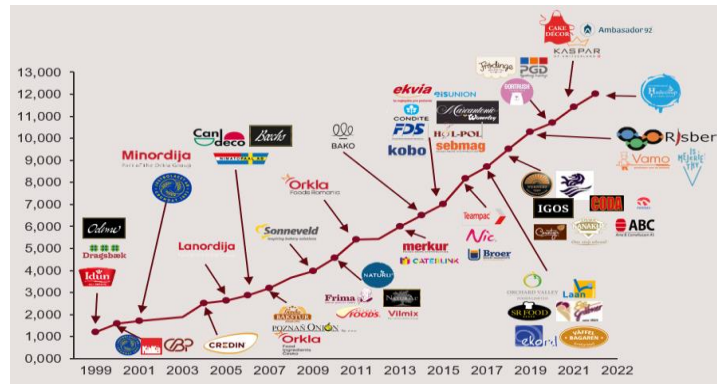**OFI HQs:** Digital, Finance, HR, Operations, M&A and Sustainability HQs teams

OFI CEO

OFI has since 2019 increased focus on consolidating IT with Unite as the centerpiece of the common landscape

PRIOR TO 2019

OFI's IT strategy prior to 2019 was to keep IT mainly local and not consolidate as part of the structural growth

Fragmented IT set-up

Challenging to manage Cyber Security and Risk

Challenging to leverage digitalization efforts

High local agility but limited synergies

Outdated ERP systems

2019 ->

OFI UNITE ERP program established (2019) and consolidation & streamlining IT was started

Improving business performance, capabilties and transparency

Replace outdated systems and reduce risk

Centerpiece and vehicle for consolidation of IT landscape

Infrastructure – Digital initiatives – Organization – Cyber Security

- ✓ **OFI is still in an early phase of consolidating IT** with the majority of IT still being locally managed and operated.

- ✓ **On-going implementation of common user End-point** (PC) platform to facilitate collaboration, leverage scale in IT and to reduce cyber security risk

- ✓ **Increased focus and capabilities related to Cyber Security management** to reduce risk: policies, standards and competency

- ✓ **Common digitalization iniatives** also outside of and around Unite: PIM, CRM, Digital Sales, Digital Customer Platform/Premium Pro

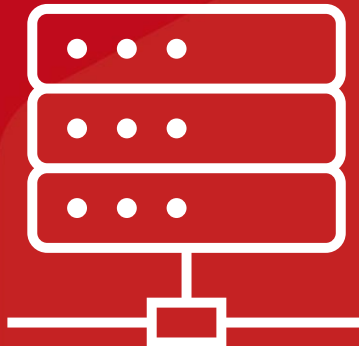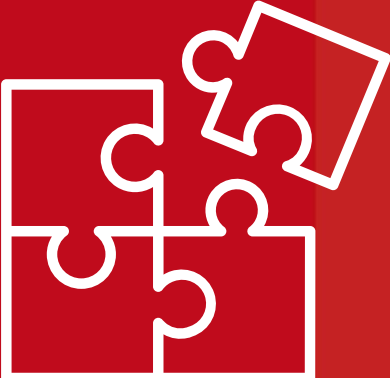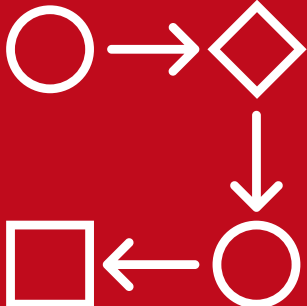- ✓ **Gradual build-up of OFI IT capabilties / organization** to support Unite and consolidation journey

Status 2024 H2

OFI Unite with well established footprint and high demand from business

- ✓ Kåkå
- ✓ Jästbolaget
- ✓ Condite
- ✓ Sonneveld
- ✓ OV UK
- ✓ OV SE
- ✓ OV DE
- ✓ OFI AB
- ✓ Odense
- ✓ NIC Se
- ✓ Quatro
- ✓ OFI Baltics - Live
- ☐ NIC DK - Inprogress
- ☐ Credin DK – In Progress
- ☐ CBP – Start in Q4 24
- ☐ OV CHF & OV Sco – Pre-assessment
- ☐ Sonneveld Hungary – Start in October 24
- ☐ OFR – Pre-assessment, start in 2026
- ☐ NIC UK – Assessment/Alignment

- • **Increasing demand** from Business Units to move onto OFI Unite ERP solution

- • **Increasing urgency to advance digital capabilties** in many Busines Units.

- • **OFI Unite delivery capabilities maturing** however challenged to fulfill increasing demand

- • **Revision of OFI Unite strategy, ambitions and plans** neccessary to secure that execution is aligned with business priorities and plans
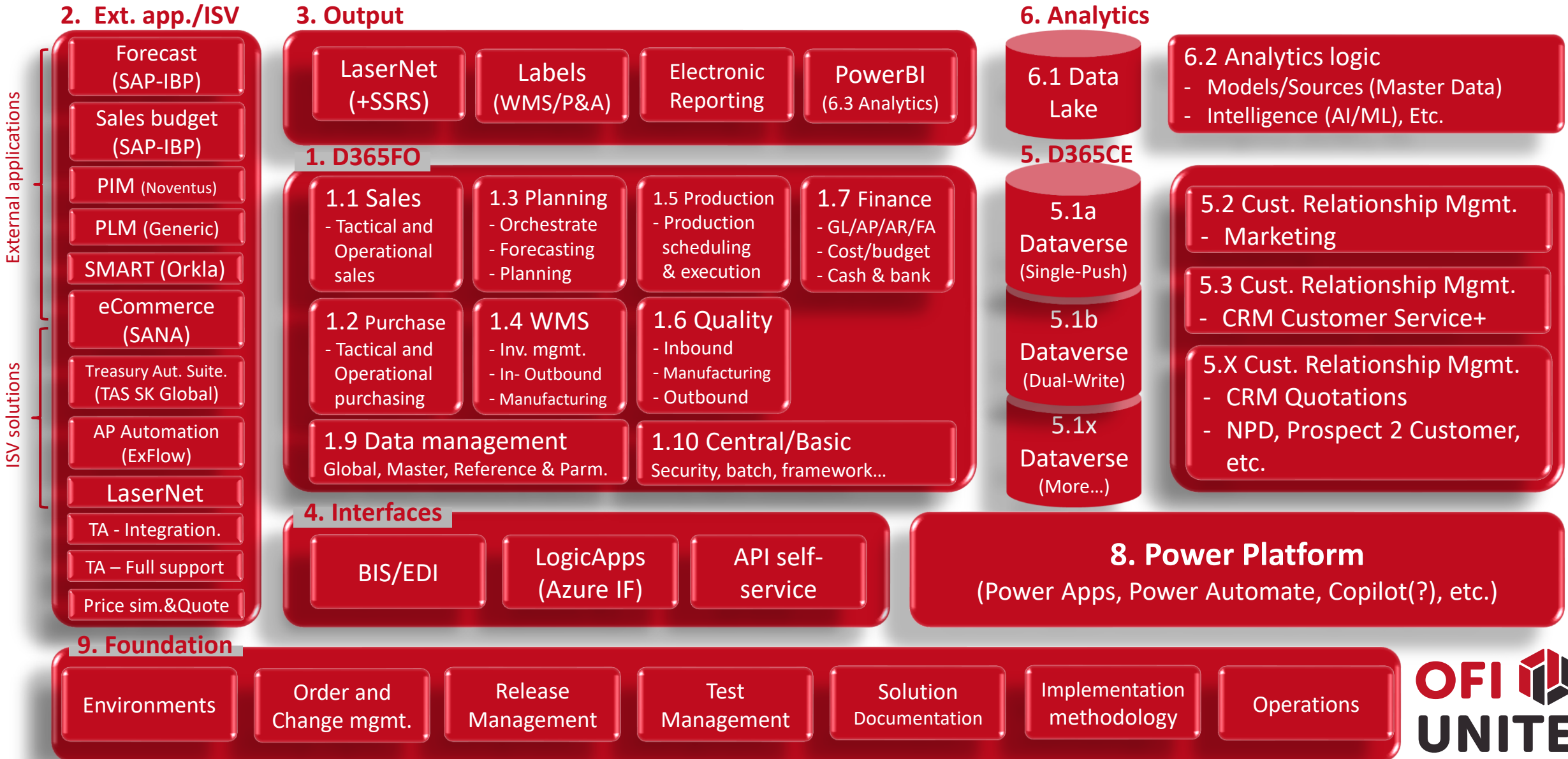
OFI Core Solution – Application overview

2. Ext. app./ISV

External applications
- Forecast (SAP-IBP)
- Sales budget (SAP-IBP)
- PIM (Noventus)
- PLM (Generic)
- SMART (Orkla)
- eCommerce (SANA)

ISV solutions
- Treasury Aut. Suite. (TAS SK Global)
- AP Automation (ExFlow)
- LaserNet
- TA - Integration.
- TA – Full support
- Price sim.&Quote

3. Output

| LaserNet (+SSRS) | Labels (WMS/P&A) | Electronic Reporting | PowerBI (6.3 Analytics) |

1. D365FO

1.1 Sales
- Tactical and Operational sales

1.3 Planning
- Orchestrate
- Forecasting
- Planning

1.5 Production
- Production scheduling & execution

1.7 Finance
- GL/AP/AR/FA
- Cost/budget
- Cash & bank

1.2 Purchase
- Tactical and Operational purchasing

1.4 WMS
- Inv. mgmt.
- In- Outbound
- Manufacturing

1.6 Quality
- Inbound
- Manufacturing
- Outbound

1.9 Data management
Global, Master, Reference & Parm.

1.10 Central/Basic
Security, batch, framework…

4. Interfaces

| BIS/EDI | LogicApps (Azure IF) | API self-service |

6. Analytics

6.1 Data Lake

6.2 Analytics logic
- Models/Sources (Master Data)
- Intelligence (AI/ML), Etc.

5. D365CE

5.1a Dataverse (Single-Push)

5.1b Dataverse (Dual-Write)

5.1x Dataverse (More…)

5.2 Cust. Relationship Mgmt.
- Marketing

5.3 Cust. Relationship Mgmt.
- CRM Customer Service+

5.X Cust. Relationship Mgmt.
- CRM Quotations
- NPD, Prospect 2 Customer, etc.

8. Power Platform
(Power Apps, Power Automate, Copilot(?), etc.)

9. Foundation

| Environments | Order and Change mgmt. | Release Management | Test Management | Solution Documentation | Implementation methodology | Operations |

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Business Processes (For OFICS)

			Process Steps							Category
FTP	Forecast To Plan	Forecast input, active orders and on-hand as input to all planned orders	RUN FORECAST PLANNING	REVIEW AND ADJUST FORECAST	CREATE FORECAST PLAN	RUN MASTER PLANNING	REVIEW AND ADJUST MASTER PLAN	FIRM PLANNED ORDERS		**Plan**
PTP	Procure to Pay	Purchase order creation to receipt and payment of vendor	CREATE PURCHASE ORDER	GOODS RECIEPT	PROCESS INCOMING INVOICE	PERFORM PAYMENT				**Purchase**
RTP	Requirement To Produce	Produce firmed orders, raw materials pick & production incl. QA & report finished goods.	CREATE PRODUCTION ORDER	SCHEDULE PRODUCTION	RELEASE PRODUCTION	PICK TO PRODUCTION	PRODUCE PRODUCTS	REPORT AS FINISHED	POST-CALCULATION	**Produce**
OTC	Order To Cash	Sales order creation and dispatch to billing and cash receipt	CREATE/ RECEIVE SALES ORDER	CREATE OUTBOUND	PICK AND PACK	GOODS ISSUE	MANAGE BILLING	PROCESS BANK TRANSACTION		**Sell**
RTR	Record to Report	Financial processing of transactions and reporting.	FINANCIAL DATA MAINTENANCE	JOURNAL ENTRY	RECONCILIATION - SUBLEDGER	TRANSACTION CLOSURE	PERIOD CLOSING	REPORTING	FIXED ASSETS	**Finance**
MMD	Manage Master Data	IT Governance and processes for global Master data, security and Information Flow.	REQUEST FOR DATA	CREATE GLOBAL DATA	MANAGE GLOBAL DATA	CREATE LOCAL DATA	MANAGE LOCAL DATA	PROCESSING – SINGLE/ MASS		**Master Data**
Misc.	Other supporting Processes (Inventory, Quality, Subcontracting etc.)									**Other**

OFI Core Solution – Functional competence areas

1.1 Sales	1.2 Purchase	1.3 Planning	1.4 Warehouse	1.5 Production	1.6 Quality	1.7 Finance	1.9 Data management	1.10 Central/Basic
•**D365FO - Sales** •Sales Pricing •SO / Customer Service •**D365CE - CS, Marketing, etc.** •e-Commerce (Sana…) •Intercompany •Sales EDI •Customer MD •Sales documents •Etc.	•D365FO – Purchase •Purchase pricing •Cost price (Finance) •Planned PO (firm) •Vendor EDI (To-be!) •Vendor Portal •Vendor EDI •Vendor MD •Purchase documents •Etc.	•D365FO – Planning •Forecasting MS (To-be) •Forecasting SAP-IBP (Integration) •Intercompany planning •Etc.	•D365FO – WMS and Inventory •WMS app •WMS labels and printers •Warehouse MD •TA integration •3PL EDI •Transport documents •Etc.	•D365FO – Production •Process mfg. (and Discrete) •Production Reporting Portal (PRP) •Production WMS •Subcontracting •Product costing (Finance) •Weighing kitchen •Print & Apply •Etc.	•D365FO – Quality •Mass balance •Track/Trace and recall •CoC and CoA •Batch management •Allergens •Etc.	•D365FO – Finance •GL/AP/AR/FA/ Inv./Etc. •Tax mgmt. •Charges •AP automation (ExFlow) •Bank (TAS) •Finance External. OFI and Internal reporting •Controlling •Etc.	•D365FO – MD •Customers, Vendors, Products, Items, etc. •Reference data •Migration and governance •PIM (Noventus…) •PLM (To-Be) •Etc.	•D365FO – Global and System •Security •Mail, Output, etc. •Integrations •Batch jobs •Features •Environments •Etc.

This is how we are organized functionally!

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Functional tracks vs. Process orientation

Order To Cash

OTC-1 CREATE/ RECEIVE SALES ORDER	OTC-2 CREATE OUTBOUND	OTC-3 PICK AND PACK	OTC-4 GOODS ISSUE	OTC-5 MANAGE BILLING	OTC-6 PROCESS BANK TRANSACTION

Main "driver" track

Sales	Warehouse	Sales	Finance

Cross-functional

1.1 Sales	1.2 Purchase	1.3 Planning	1.4 Warehouse	1.5 Production	1.6 Quality	1.7 Finance	1.9 Data management	1.10 Central/Basic
•D365FO - Sales •Sales Pricing •SO / Customer Service •D365CE - CS, Marketing, etc. •e-Commerce (Sana…) •Intercompany •Sales EDI •Customer MD •Sales documents •Etc.	•D365FO – Purchase •Purchase pricing •Cost price (Finance) •Planned PO (firm) •Vendor EDI (To-be!) •Vendor Portal •Vendor EDI •Vendor MD •Purchase documents •Etc.	•D365FO – Planning •Forecasting MS (To-be) •Forecasting SAP-IBP (Integration) •Intercompany planning •Etc.	•D365FO – WMS and Inventory •WMS app •WMS labels and printers •Warehouse MD •TA integration •3PL EDI •Transport documents •Etc.	•D365FO – Production •Process mfg. (and Discrete) •Production Reporting Portal (PRP) •Production WMS •Subcontracting •Product costing (Finance) •Weighing kitchen •Print & Apply •Etc.	•D365FO – Quality •Mass balance •Track/Trace and recall •CoC and CoA •Batch management •Allergens •Etc.	•D365FO – Finance •GL/AP/AR/ Inv./Etc. •Tax mgmt. •Charges •AP automation (ExFlow) •Bank (TAS) •Finance External. OFI and Internal reporting •Controlling •Etc.	•D365FO – MD •Customers, Vendors, Products, Items, etc. •Reference data •Migration and governance •PIM (Noventus…) •PLM (To-Be) •Etc.	•D365FO – Global and System •Security •Mail, Output, etc. •Integrations •Batch jobs •Features •Environments •Etc.

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OFI Core Solution Data – Definitions

Transaction data

- Result of all business processes
- Inventory, Invoice, Confirmations...

Transaction Masters

- Combination of master data → Generates transactions
- Sales order, Production order...

Master data

- Central ERP data objects
- Product/Item, Customer, Vendor...

Reference data

- Defines master data behavior
- Item groups, Charge codes...

Parameters

- Controls the system behavior
- Per module

Data ownership/governance

- **Global data**
  - Update by central operations
  - Changes/new in a release
- **Local data – Globally govern**
  - Normally Reference data
  - Controlled via security
- **Local data – Global template**
  - Follow default/best practice values
  - Allowed to add new
- **Local data**
  - Defined per Legal Entity (Project)
  - There are normally best practice recommendations
- **Migration (and mass updates)**
  - OFICS migration templates
  - Standard import/export framework

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Technology principles

One, global instance

- One global instance enables OFI to **standardize** and enforce common enterprise-wide business processes and functionality across all business units.

- A global instance will enable **data transparency** across business units and enables **intercompany trade** among business units.

- One global instance enables OFI to develop and **grow the IT solution** for all BUs over time ('playing as a team').

Microsoft cloud ecosystem

- Building all our solutions on Microsoft cloud technology give us a solution landscape where **all parts works together**.

- Using cloud computing instead of on-prem makes **up-/downscaling and changes** easier and faster.

- Located in MS Western region data center cluster give us **stable operations and fail-over** security.

Shared data and functionality

- Sharing data and information across business units contributes to **holistic insights, easy communication and integration**.

- Sharing the same functionality/codebase make solution improvements **reusable and cost-efficient.**

- Shared data and functionality is a foundation to **efficient business processes**, shared services and reduced administration (support and testing)

Evergreen and latest technology

- Being on an evergreen platform means that we will **gain advantage of new standard functionality** continuously.

- **Eliminated risks** for building up IT depth and unsupported software.

- There will be **no more upgrade projects**, only improvement projects.

Standardization

- Economy of scale
- Maintainability

Modularization

- Independent building blocks
- Incremental implementation

App autonomy

- Asynchronous integrations
- Base for modularization

Local BU innovations

- Encourage BU innovations
- Important for OFI growth

From start to where we are now

How it´s presented

The "real" journey

start   finish
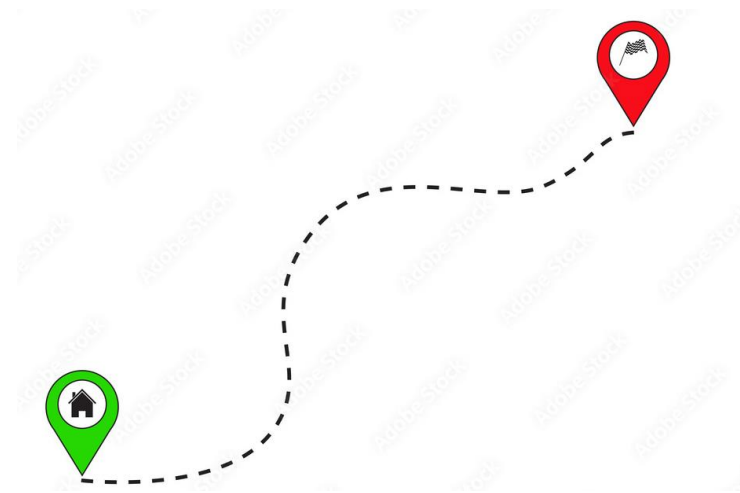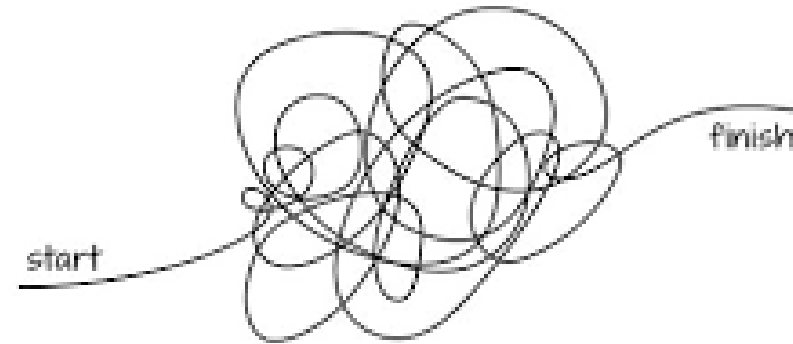
Some experiences we have made so far
- **Build as we go** – You can't think of everything in advance
- **Fail early** – Better to test ideas, you are normally "almost right"
- Have a **strategy/vision** is important – Keep pieces together

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Establish the environment strategy – 2019/20

Background

- Second roll-out project
  - Where to test?
  - How to remain stable operations with the live legal entity?
  - Massive code development
  - Evergreen solution

- Argue with operations partner ☺
  - Not used to operate in a roll-out situation (with 60+ LE:s to be implemented)
  - Unfamiliar with larger enterprise requirements

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Environments – 2024-06-24
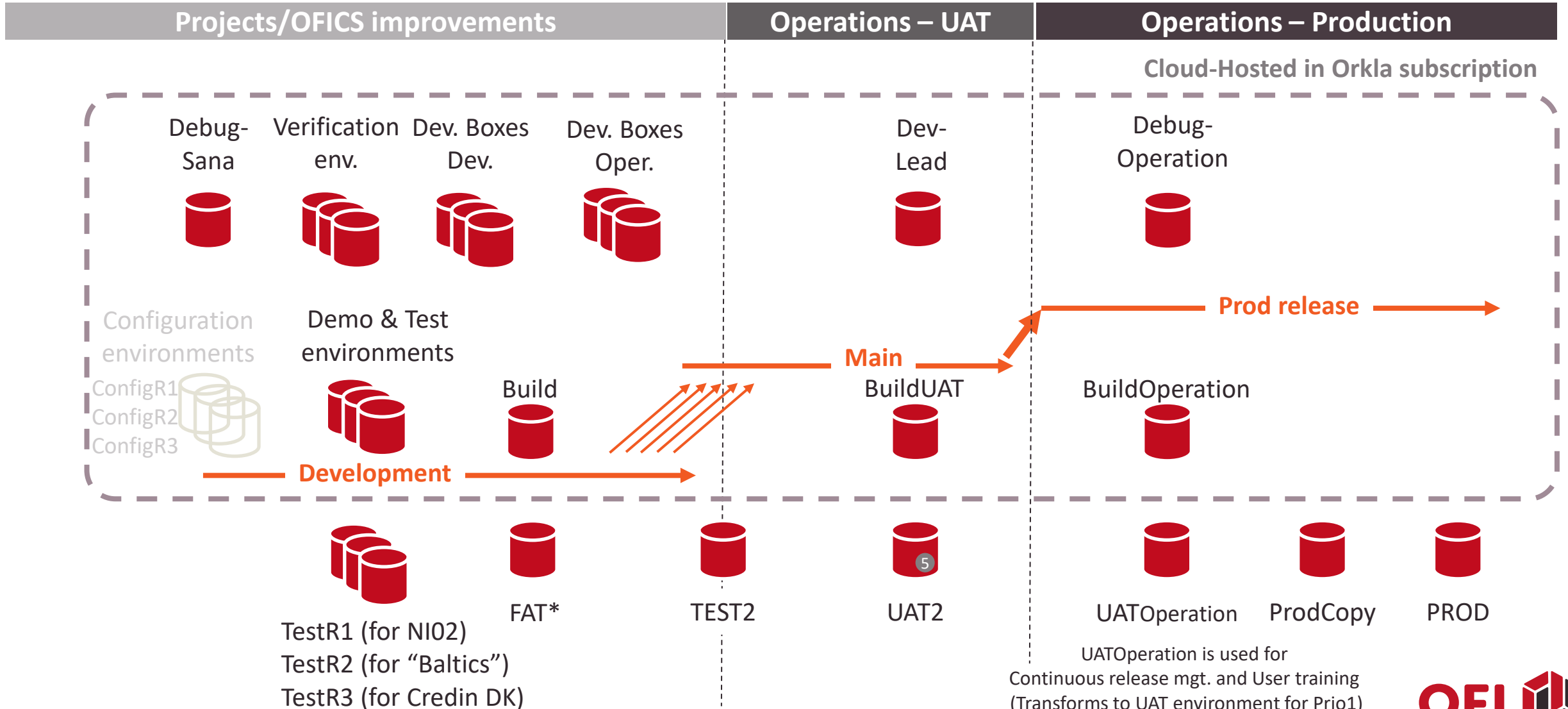
Environments – Data refresh

Projects/OFICS improvements	Operations – UAT	Operations – Production

Cloud-Hosted in Orkla subscription

Debug-Sana

Verification env.

Dev. Boxes Dev.

Dev. Boxes Oper.

Dev-Lead

Debug-Operation

New way of handling Configuration (PROD is master)

Demo & Test environments

Prod release →

Main

Build

BuildUAT

BuildOperation

Development →

After UAT release cycle

Before UAT release cycle

Weekly

Weekly
(On demand for Prio 1)

TestR1
TestR2
TestR3

FAT

TEST2

UAT2 ⑤

UATOperation

ProdCopy

PROD

The rest is On-demand!

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Environments – Normal Code Flow

Projects/OFICS improvements	Operations – UAT	Operations – Production

Cloud-Hosted in Orkla subscription

Debug-Sana

Verification env.

Dev. Boxes Dev.

Dev. Boxes Oper.

Dev-Lead

Debug-Operation

Configuration environments

ConfigR1
ConfigR2
ConfigR3

1. Dev. code (Several partners)

1. Operations code (CR/Fixes)
2. Releases from MS
3. Releases from ISV:s

Main

Prod release

Build

BuildUAT

BuildOperation

Development

TestR1
TestR2
TestR3

FAT

TEST2

UAT2 (5)

UATOperation

ProdCopy

PROD

The rest is On-demand!

Daily (automatic)
Program releases to UAT*
Program release to PROD*
* Includes code, Data package, etc.

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Establish a release strategy – 2020 → 2021

Background

- Had a Change Request board in DevOps
  - We started in Jira but moved to DevOps ☺

- Take control over our releases
  - Environments was in place, now we needed to live the "evergreen life"
  - Mainly for development (FDD → Deploy)
  - Also, for evergreen MS releases, project UATs, global config, etc.
  - One process for Release dependent changes and one for non-Release independent

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Establish a release strategy – 2020 → 2021

"Simple" Microsoft release rules is key!

- Enough releases to avoid automatic (untested) quality updates
  - At least 6 release per year. We are aiming for 8-10 releases per year

- Consume all features activated by default from MS
  - Not valid for Copilot ☺

- Always be one MS release behind
  - Let others test MS errors. Has saved us a lot of pain and work.

- Only consume features that are GA
  - Preview requires massive testing
  - Pricing management was a disaster!!!

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Normal release management (Board)

Normal release management (Board)

Hand-over to operations

Custom states (Don't!)
- Design
- Development
- Test & finalize
- Release candidate
- In UAT
- PROD approved

Custom work item (Do!)

Solution Development
- User Story level
- Custom fields
- No time reporting
- Release = Iteration

Custom work items

Code (Task)
- For "cherry picking"

Review (Task)
- FDD + Hand-over

Test Case (standard!)
- Functional tests

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Initiatives and ordering – 2024 →

Background

- Ordering for live BU:s was a mess … until 2024
  - Ordering process Service Now (SR/INC) solution improvements (Initiatives vs. Orders)
  - Initiatives board: Request → Deploy (re-use the CR and Development parts)

Initiatives (Board)

Board columns, not states!

Planning | **Execution**

Child work items

Change Request
- Conceptual solution
- Estimate for approval

Solution Dev.

Initiative
- Central fund.
- "Backlog"

Order
- BU funding
- "Direct"

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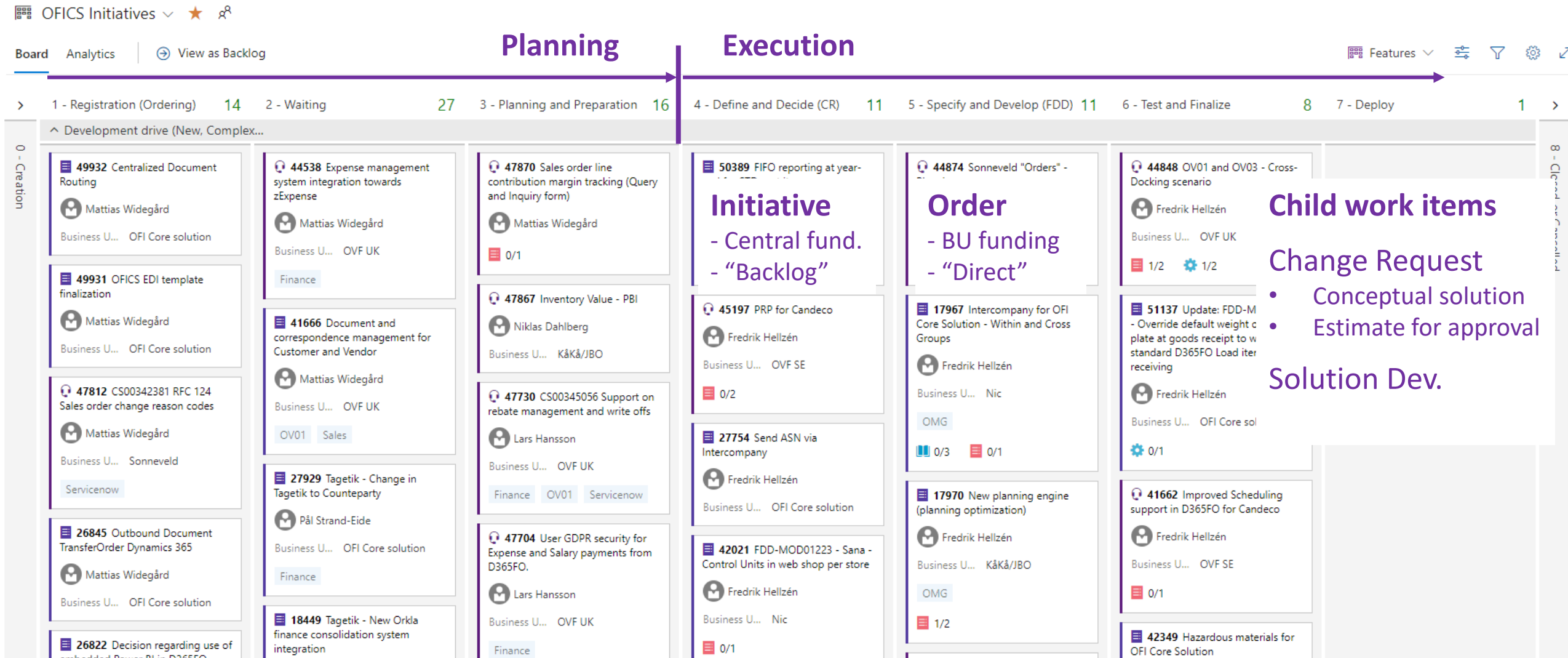
Implementation methodology for project roll-outs

Background

- Took over responsibility 2022/23
  - Own roll-out resources (loyal to OFI Core Solution)

- Defined our Implementation methodology
  - Project Management and Solution Architecture in harmony

- Focusing on making roll-out projects "enjoyable"
  - Clear activities for all phases → no pauses or idle time
  - Propose a solution, no analysis phase or FRD writing
  - Deliver in iterations → measure progress and get continuous training, hand-over and acceptance
  - Train go-live several times

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"Cheat Sheet" – Project Phases

Discovery:
- High level Scope(Backlog)
- High level Budget
- Setup the Project organization
- High level phased timeline & Activities
- Uncover complexities & Risks

Initiate/Build:

"Initiate Design & Build"
- Define backlog
- Iteratively conclude, prioritize backlog:
  - Configuration, Master Data etc.
  - Build Solution Presentation(s)
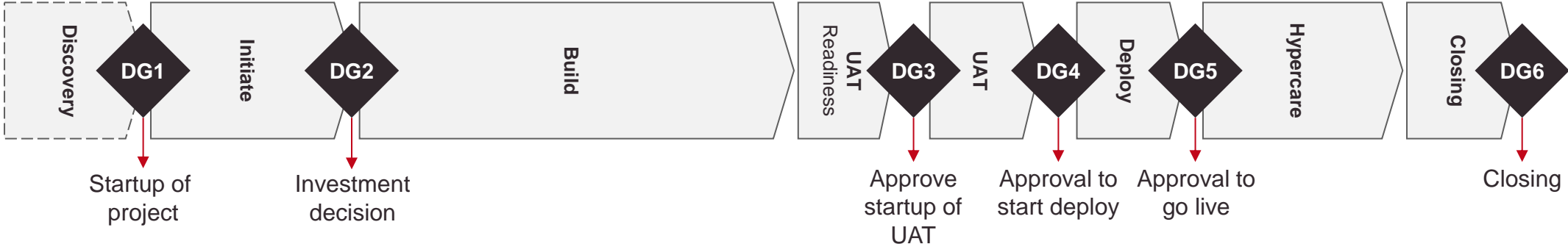 - Design & build of solution
- Refine Timeline & Budget

UAT Readiness
Assessment of:
- Solution Readiness
- Master data Readiness
- Test Evidence Readiness
- Organizational Readiness

Deploy
- Execution of Cutover activities
- End user training

Hypercare
- Full support to Business operations
- Transitions to Operations(Unite)
- Lessons learned

Discovery — DG1 — Initiate — DG2 — Build — UAT Readiness — DG3 — UAT — DG4 — Deploy — DG5 — Hypercare — Closing — DG6

- DG1: Startup of project
- DG2: Investment decision
- DG3: Approve startup of UAT
- DG4: Approval to start deploy
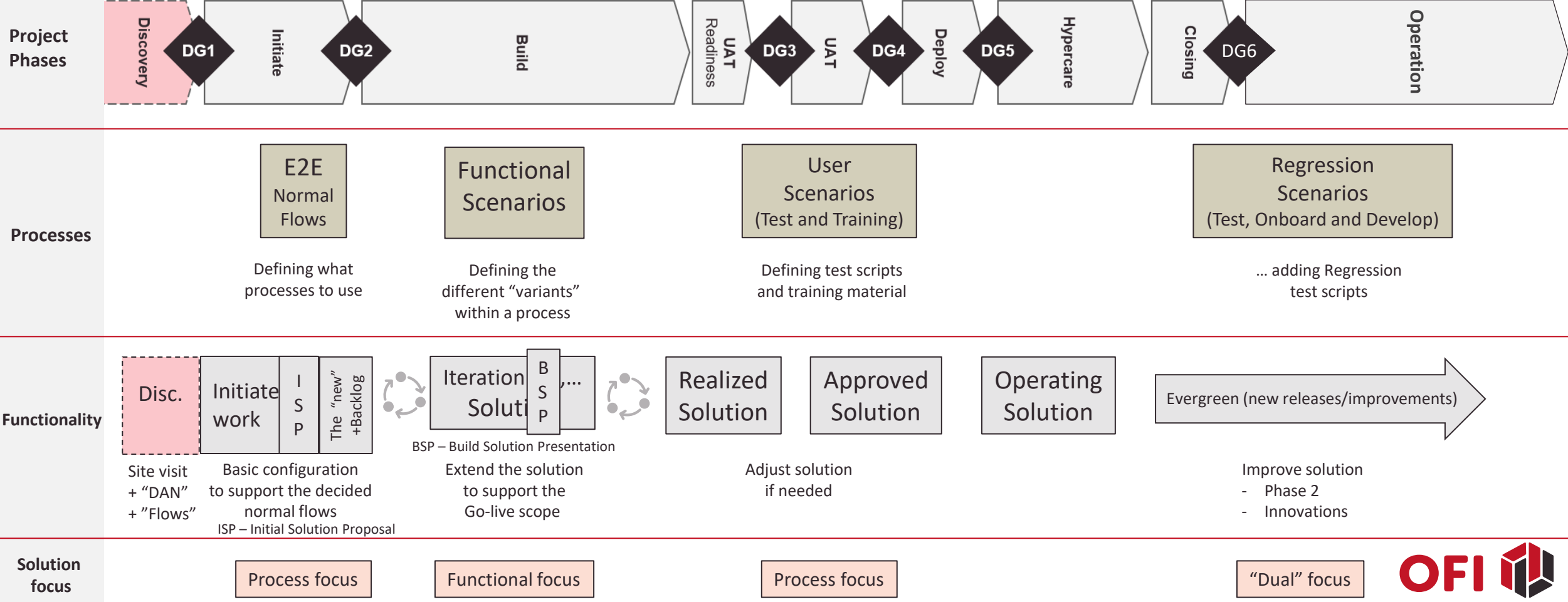- DG5: Approval to go live
- DG6: Closing

UAT
- Full migration reference data + transactional data
- Rehearsal of go live/cutover activities
- Business track leads & Super User Acceptance testing with support from OIT resources

Workload

- Unite
- Business Unit

Project timeline (6 to 1x Months)

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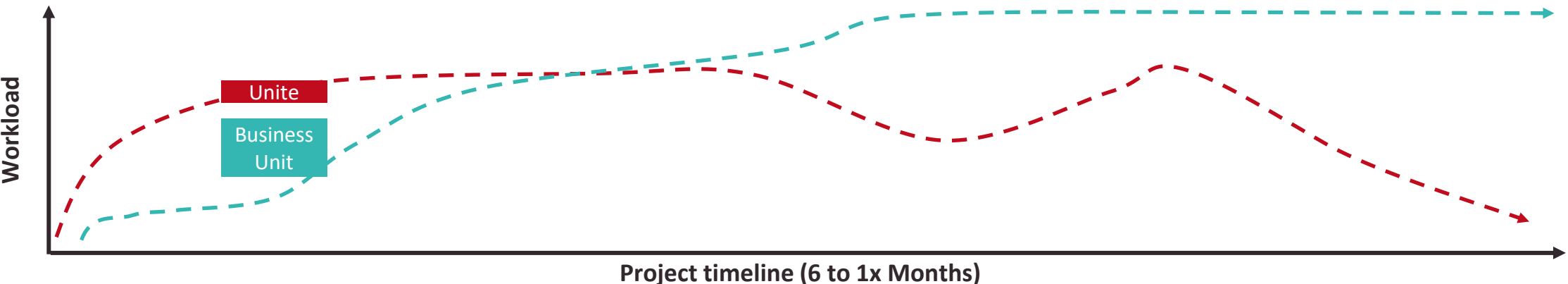
OFI Core Solution – Focus on Processes vs. Functionality

| Project Phases | Discovery | DG1 | Initiate | DG2 | Build | UAT Readiness | DG3 | UAT | DG4 | Deploy | DG5 | Hypercare | Closing | DG6 | Operation |

Processes

| E2E Normal Flows | Functional Scenarios | User Scenarios (Test and Training) | Regression Scenarios (Test, Onboard and Develop) |

Defining what processes to use

Defining the different "variants" within a process

Defining test scripts and training material

... adding Regression test scripts

Functionality

| Disc. | Initiate work | ISP | The "new" +Backlog | Iteration Solution BSP ,... | Realized Solution | Approved Solution | Operating Solution | Evergreen (new releases/improvements) |

BSP – Build Solution Presentation

Site visit + "DAN" + "Flows"

Basic configuration to support the decided normal flows
ISP – Initial Solution Proposal

Extend the solution to support the Go-live scope

Adjust solution if needed

Improve solution
- Phase 2
- Innovations

Solution focus

| Process focus | Functional focus | Process focus | "Dual" focus |

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Project DevOps (Own session or in Q&A ☺)

Queries > Shared Queries > ⊞ Tree of all work items ⌄ ★

Results Editor Charts | ▷ Run query ＋ New ⌄ ⊟ Save query ⊟ Rename ⊟ Save items ⊘ Column options ✉ Email query ⎘ Copy query URL ↓ Export to CSV ⋯

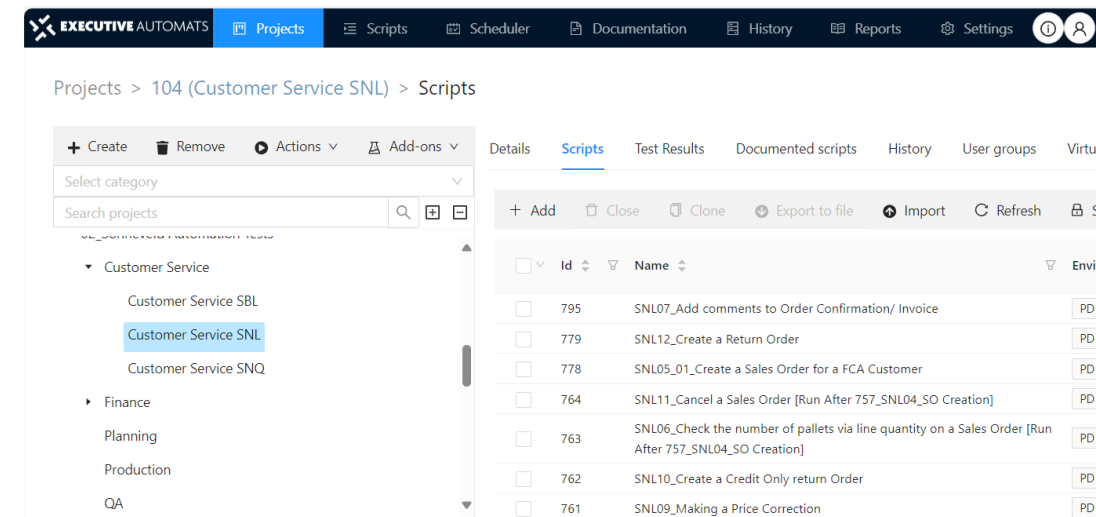|	ID	Work Item...	Title		Assigned To	Iteration Path
⊞ ⊟						
	48083	Epic	⌄ 👑 Processes - End to End and Site Scenarios	⋯		Credin DK Implementation Project
	48088	Epic	› 👑 FTP - Forecast To Plan			Credin DK Implementation Project
	48095	Epic	⌄ 👑 PTP - Procure To Pay			Credin DK Implementation Project
	48096	Feature	⌄ 🏆 PTP-1 - Create purchase order			Credin DK Implementation Project
	50308	Process S...	› 📄 PTP-E01-1 - Create - Replenishment of PALLET ITEM to warehouse		Stefan Berg	Credin DK Implementation Project\Iteration 1 (Initiate)
	50317	Process S...	⌄ 📄 PTP-E02-1 - Create - Replenishment of SILO ITEM to warehouse		Stefan Berg	Credin DK Implementation Project\Iteration 1 (Initiate)
	50318	Task	📋 Setup - PTP-E02-1 - Create - Replenishment of SILO ITEM to warehouse		Stefan Berg	Credin DK Implementation Project\Iteration 1 (Initiate)
	50319	Task	📋 Handover - PTP-E02-1 - Create - Replenishment of SILO ITEM to warehouse		Stefan Berg	Credin DK Implementation Project\Iteration 1 (Initiate)
	48097	Feature	› 🏆 PTP-2 - Goods Receipt			Credin DK Implementation Project
	48098	Feature	› 🏆 PTP-3 - Process incoming Invoice			Credin DK Implementation Project
	48099	Feature	🏆 PTP-4 - Perform payment			Credin DK Implementation Project
	48100	Epic	› 👑 RTP - Requirement To Produce			Credin DK Implementation Project
	48108	Epic	› 👑 OTC - Order To Cash			Credin DK Implementation Project
	48115	Epic	👑 RTR - Record To Report (Managed under Functional Prcess scenarios)			Credin DK Implementation Project
	48116	Epic	› 👑 Misc - TTD - Transfer To Destination			Credin DK Implementation Project
	48084	Epic	› 👑 Functional Process scenarios			Credin DK Implementation Project
	49064	Epic	› 👑 Data			Credin DK Implementation Project
	49065	Epic	👑 Central setup			Credin DK Implementation Project
	49066	Epic	› 👑 Output			Credin DK Implementation Project
	50954	Epic	› 👑 Integrations			Credin DK Implementation Project
	51024	Epic	› 👑 Functionality - New or improved			Credin DK Implementation Project

Approach for automated regression testing

Background

- Got a set of RSAT tests from operations 2020
  - In a stand-alone environment…

- There was a lot of test "ideas" in the organization
  - "Operations" wanted RSAT
  - Orkla IT was looking at a global test initiative

- We decided to
  - Evaluate RSAT from Microsoft
  - Evaluate Executive automats from XPlus
  - Not to evaluate larger generic test tools like Selenium
  - Comment: Today we would probably have looked at other tools as well

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We selected Executive Automats

Main reasons for the decision

- Not sure Microsoft was the best test tool provider
  - Soft evaluation criteria ☺

- We wanted to share test scripts among environments
  - Since we copy databases, we didn't want to overwrite UAT test scripts
  - We could probably have fixed this by exporting tables before DB copy

- We wanted to test other applications than D365FO
  - This disqualified RSAT

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Experiences so far with automated regression testing

- Takes time to build up a regression test script library
  - Today this is done per BU level. Some are more mature than others.

- Have not achieved generic end-to-end test scripts (yet!)
  - Must invest in a central team to "do the complex things" and govern test scripts
  - Must identify the generic processes to be able to rely on generic testing

- Warehouse app can't be tested since it's not a web app
  - Use emulator for E2E and prepare for manual tests (i.e. prepare test data)

- We use it but have not come as far as we wanted…
  - Dedicated central team and drive is key to deliver this!

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Q & A *(maybe)*