



MASTERINGSAP
Collaborate

13 – 14 MARCH 2025

CORDIS HOTEL | AUCKLAND

SAP S/4HANA Greenfield & Analytics Learnings

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Lisa Jury

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Limited

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An SAPinsider Company



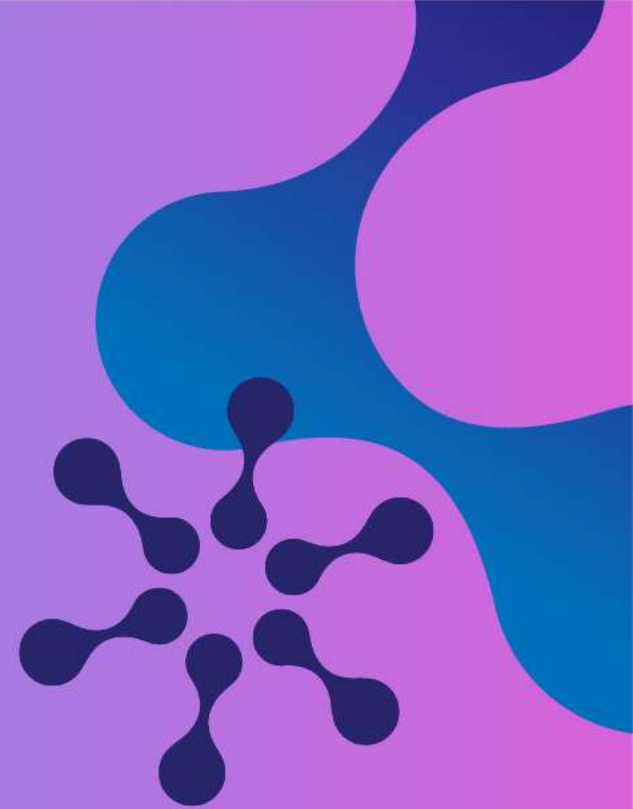
Ross McMillan

Chief Financial Officer
Pan Pac Forest Products Limited



Lisa Jury

IT Enterprise Systems Manager
Pan Pac Forest Products Limited



Who is Pan Pac?



270
THOUSAND
AIR DRIED
TONNES
OF PULP



530
THOUSAND
CUBIC
METRES
OF LUMBER

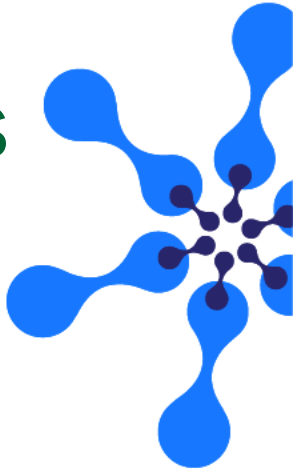
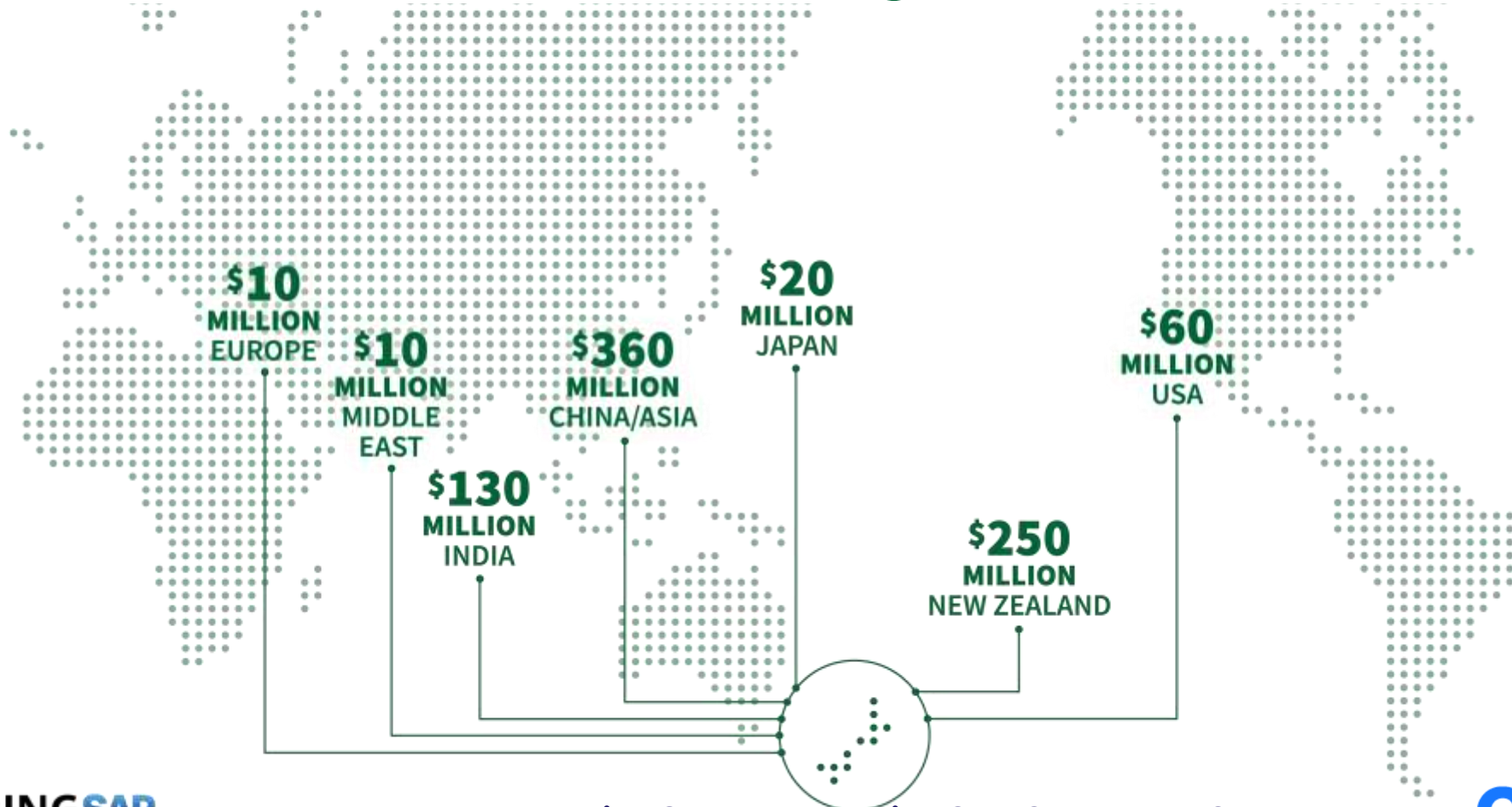


1.5
MILLION
TONNES
OF LOGS



Who is Pan Pac?

Global supplier - exporting to over 30 countries



Who is Pan Pac?

\$800 MILLION INTO NEW ZEALAND ECONOMY



\$200
MILLION
RAW
MATERIALS
(LOGS)



\$250
MILLION
CONTRACT
SERVICES



\$110
MILLION
LOGISTICS
COSTS
(INTERNATIONAL AND
NEW ZEALAND)



\$40
MILLION
WAGES AND
SALARIES



\$40
MILLION
ELECTRICITY



\$160
MILLION
OTHER
(FUELS, CONSUMABLES,
LEASES ETC)

6% CONTRIBUTION TO HAWKE'S BAY GDP

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Pan Pac's ERP Drivers



SYSTEMS END OF LIFE

Aging systems do not accommodate business growth.



FUTURE PROOF

No integration of future digital strategies such as IOT, AI, blockchain, robotics, customer portals.



INTEGRATION TOUCH POINTS

High number of applications and point integrations.



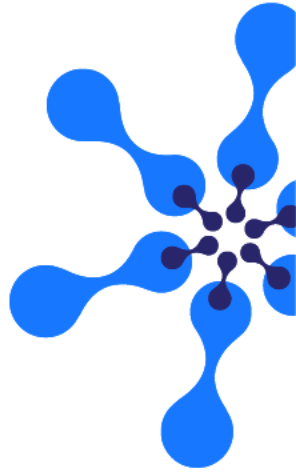
IMPROVE ACCESS TO INFORMATION

Common pain points around accessibility to data.
Improves supply chain.



REDUCE TOTAL COST OF OWNERSHIP

Customisations and products developed and supported in-house.



Pan Pac's SAP S/4HANA Solution

DECOMMISSIONED

infor EAM

Microsoft Dynamics GP

Various inhouse build solutions

SAC BTP

Embedded Analytics

SAP Rise

Analytics Cloud [SAC]

Data Sphere

25 Integrations

SAP S/4HANA

Product Version:

SAP S/4HANA FOUNDATION 2021

Finance

R&D / Engineering

Plant / Asset Management

Sourcing & Procurement

Manufacturing Management

Supply Chain

Sales

HR

Accounting & Finc. Close [FICO]

Enterprise Portfolio & Proj. Mgmt [PS]

Maintenance Mgmt [PM]

Operations Proc. [PROC TO PAY]

Production Operations [PP]

Inventory [MM]

Order & Contract Management

Core HR Mini Master & Time Recording

Financial Operations [FI]

Asset Mgmt for Resour. Sched [AMRS]

Invoice Management

Production Planning [PP]

Warehouse [EWM]

Delivery & Transportation [SD]

Cost Mgmt & Profitability [CO]

Procurement Management

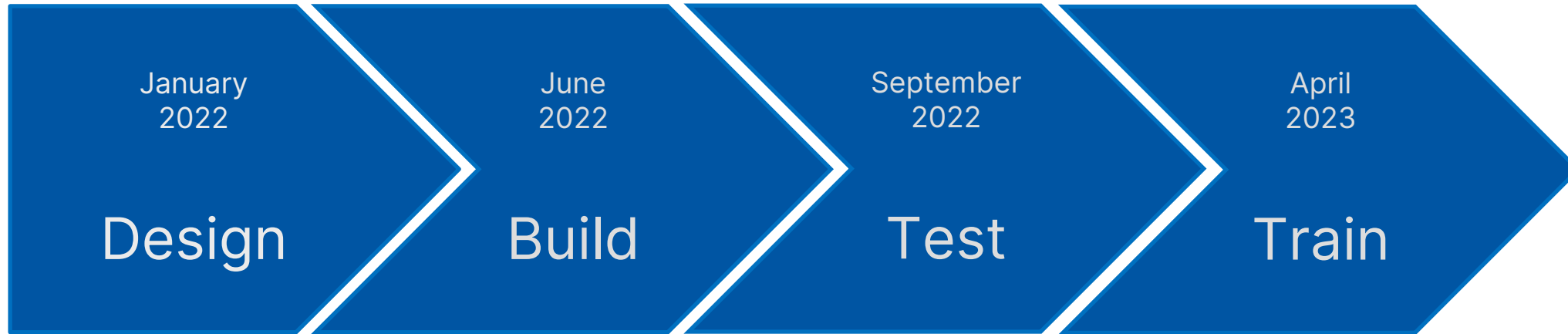
RF Scanning [IM / EWM]

Receivable Mgmt [R]

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MASTERING SAP
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Pan Pac's Implementation Timeline



**June 2023
Go-Live**



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**February 2023
Cyclone Gabrielle**

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Collaborate

February 2023 – Cyclone Gabrielle



<< Insert Video >>



ON 14 FEBRUARY 2023,
THE PAN PAC SITE WAS
FLOODED BY CYCLONE
GABRIELLE TO THIS LINE.

Our site incurred significant damage, but thankfully
no staff were injured. We were able to build back
due to the incredible efforts of our staff, contractors
and our shareholder.

KA PŌ, KA AO, KA AWATEA
From within the darkness comes light and a new day.

PAN PAC
FOREST PRODUCTS LTD



Change Management Learnings

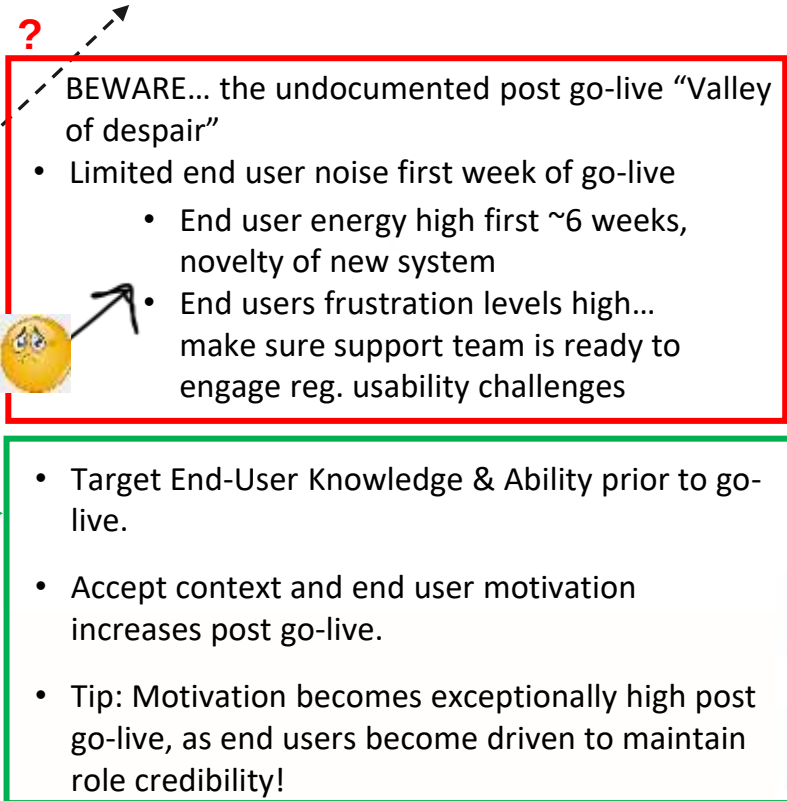
Lesson 1: Keep it people centric, awareness and acceptance of ‘emotional’ transition.



Importance and influence of key stakeholders in encouraging end users through the change management process



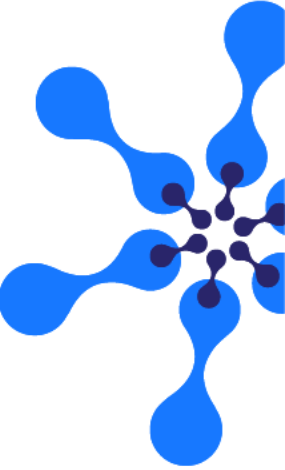
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Change Management Learnings

Practical Preparation Tips to Achieve End User Adoption:

- 1 SMEs & BPOs – engaged at solution assessment / selection. No system is going to be perfect, key users need to buy-in to tradeoffs and have ‘skin in game’ to make it work.
 - Where possible plan for full time engagement of SME’s during project delivery.
- 2 SME’s, BPO’s, End Users – engaged in UAT.
- 3 SME delivery of training – combines SAP solution & process knowledge
- 4 System Usability Mindset – Use UAT to refine pages, spaces, variants, bookmarks etc. Implement defaults, focus on usability
- 5 Over resource post go-live support – ‘boots on ground,’ repeat training sessions; run drop in sessions



Pan Pac – Analytics Start of the Journey

How it started:

- 1 Pre SAP Reporting & Analytics Tools: SRS, Power BI, SQL Database
- 2 Data vision for SAP - all SAP data in one place in S/4 HANA
- 3 Reporting vision for SAP: Utilise standard S/4 reports and standard SAC Dashboards
- 4 Operational reports & analytics dashboard ready at go-live



Pan Pac – Implementation Reality Check

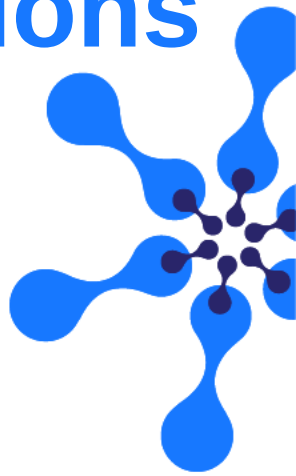


Realisations and Revisions... Datasphere

- 1 Realisation of data complexity – volume of non-SAP data required to achieve report outcomes
- 2 Performance risks associated with reporting direct over S/4 HANA database
- 3 'Lag effect' of reporting relative to overall SAP implementation
 - Reprioritisation of MUST HAVE reports for go-live to reduce customisation requests
 - Challenge of business understanding reports during project due to lack of business data to test with
- 4 Challenge with aligning standard S/4 and Dashboard reports with Pan Pac business needs

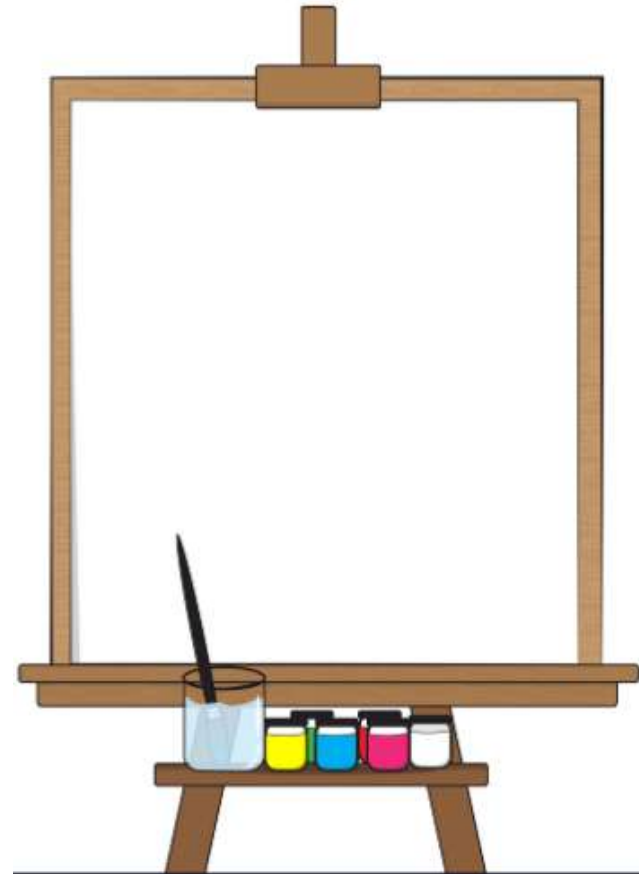


Pan Pac – Post Implementation Considerations

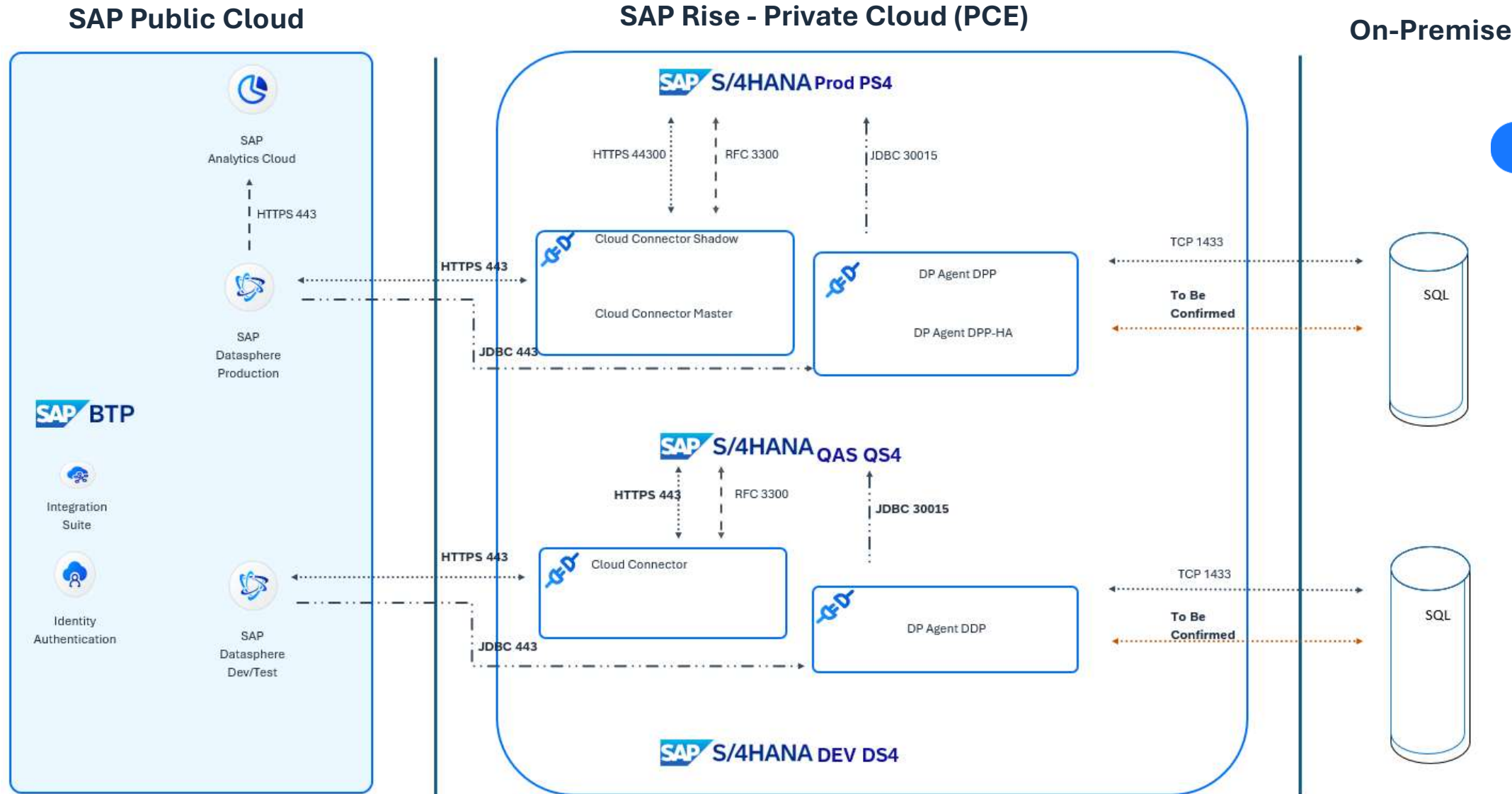


How its going.... purist to hybrid?

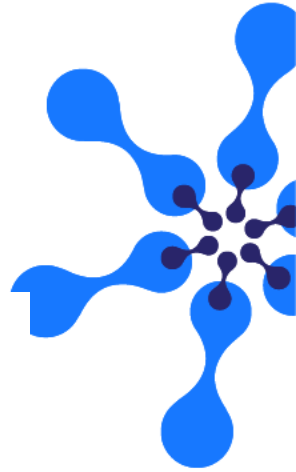
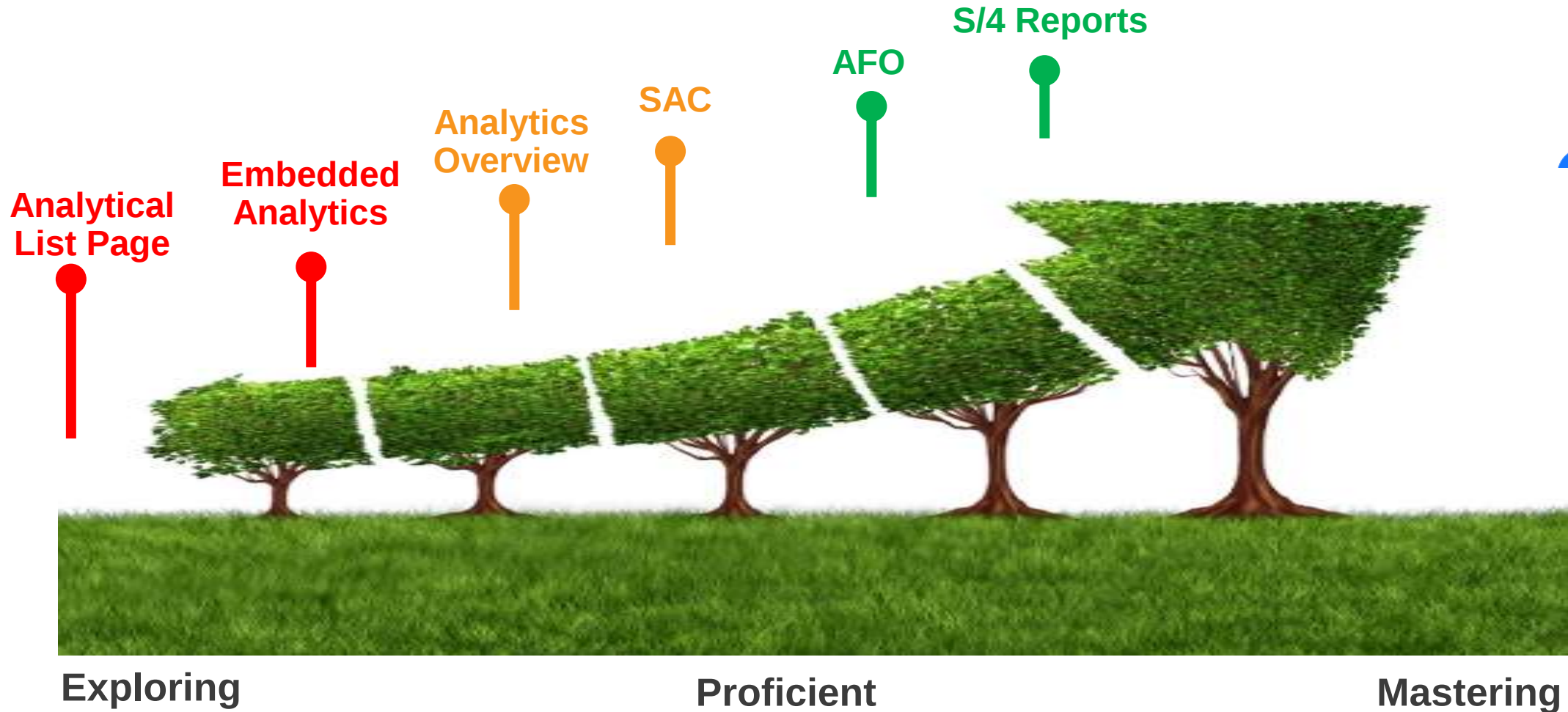
- 1 Reassessing the best location for Pan Pac data to reside – high volume of data outside SAP and potential, best place for data for AI
- 2 Reassessing best fit front end tools – likely hybrid approach using SAP tools and PowerBI
- 3 Working with an analytics specialist company to review data strategy across the business and data tools



Pan Pac – Current State Architecture

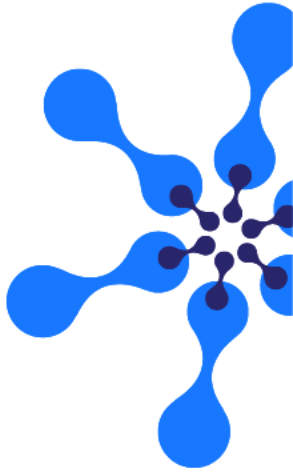


Pan Pac – SAP Analytics Tools Adopted



Analytics Tools – General Learnings

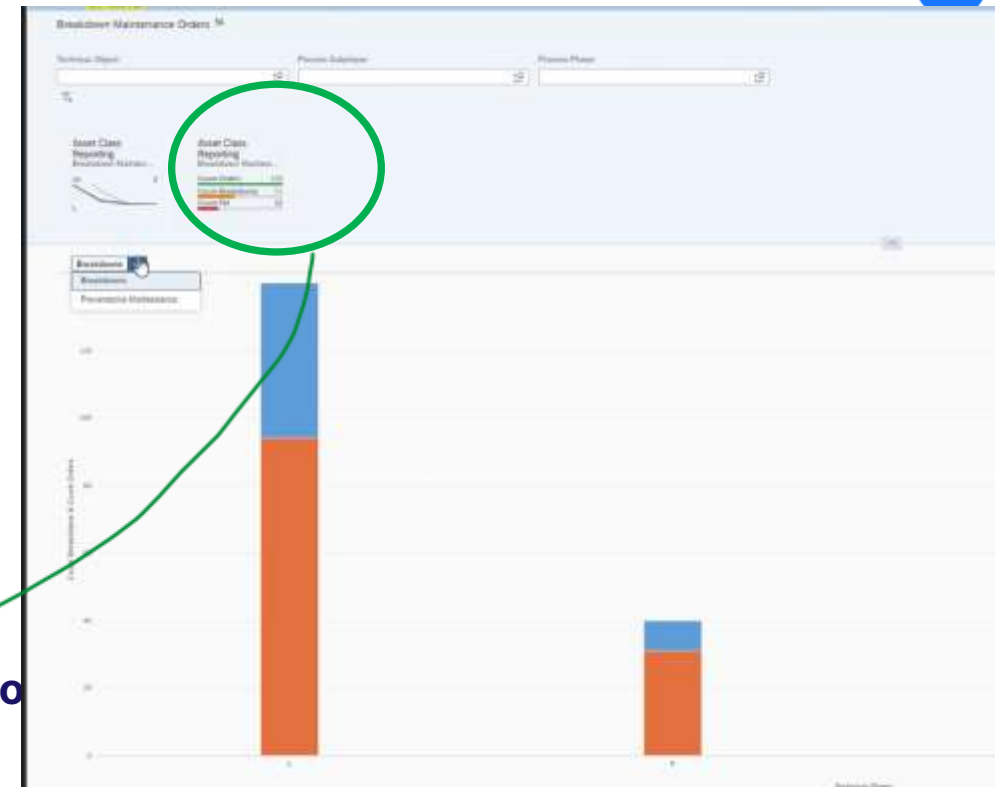
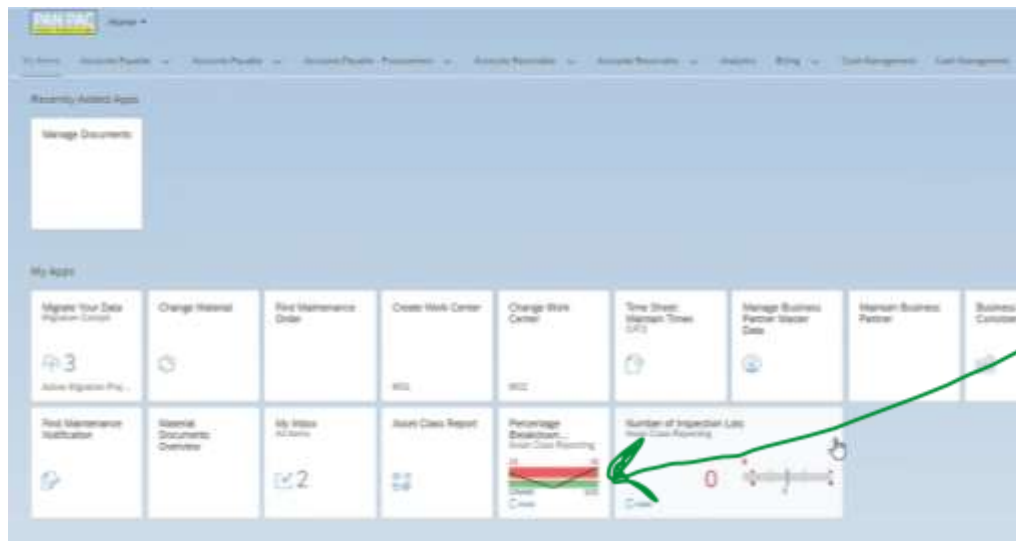
- 1 Defer custom reports where possible – review standard reports post go-live with actual data & look for extensions
- 2 Clean Core **where possible** – use standard reports, variants and existing data models where possible
- 3 Upskill capability for robust build of CDS views and data models to avoid performance issues and rework
 - Principles for design:
 - ✓ Simplify for end users
 - ✓ Importance of use of filters close to data source to reduce data being queried
 - ✓ Suitable level of aggregation (i.e. daily, weekly, monthly)
 - ✓ Efficient to run
 - ✓ Implement performance stress testing prior to all custom report deployments
 - ✓ Monitor expensive statements
- 4 Carefully manage selection of reports that are directly over S/4HANA
 - General rules
 - ✓ Databased reports without visualisations
 - ✓ Operational in nature, requiring real time data
 - ✓ Data is not complex and not required in large volumes



Analytics Tools – Pan Pac Tooling Callouts

Analytical List Page

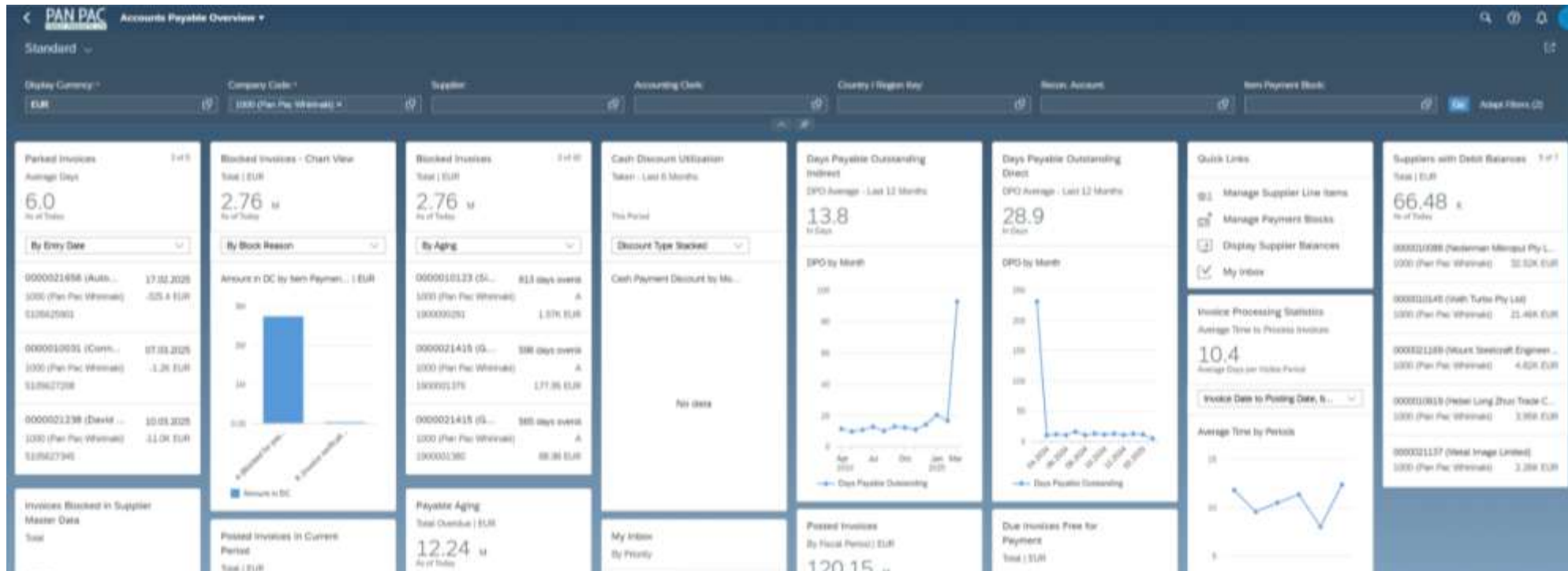
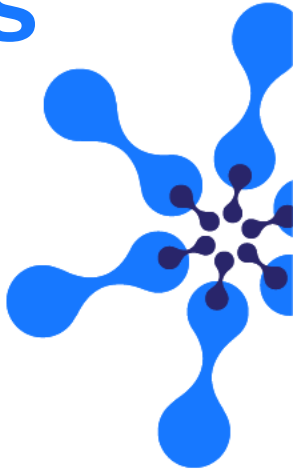
- Features KPI's and reports
 - KPI's can be clustered within the Analytic List & surfaced as individual tiles in Home Page
 - Reports include visualisations and data grid view, able to have multiple pages within the report (as per SAC)
- Increased end user flexibility – once CDS view and query is setup by key user, end users can select own data fields and filters to refine report
- Applies an S/4 UX directly over top of a CDS view and query
- End users can create own custom KPI's, reports and filters
- End user can perform drill downs / semantic navigation
- Lighter than SAC dashboards (for users and licencing!)



Analytics Tools – Pan Pac Tooling Callouts

Embedded Analytics – Predefined Content

- Live data insights without replication
- 2021 version – still a number of GUI apps
- 2021 version – issues with variants resulting in limited Analytics Overview App adoption – believe will be resolved with upgrades
- Some issues with correct population of metrics on tiles



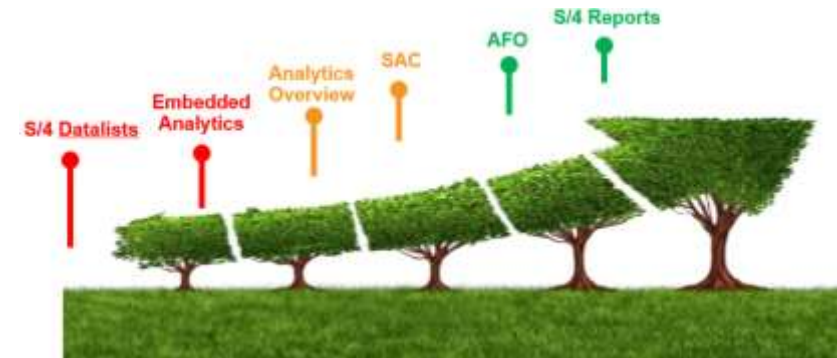
Analytics Tools – Pan Pac Tooling Callouts

SAC

- There are benefit of having Datasphere in combination with SAC to accelerate report delivery
- Able to setup standard SAC dashboards with Datasphere data models to understand look and feel prior to having own data
- Leveraged standard SAC dashboards to consider custom builds for modules not licensed for
- Standard dashboards have some great analysis / intelligence functionality, attempting to extract one or two sentence statements from the data
- Some teething issues with data accuracy to PDF extracts

AFO

- Accountants ‘love it’
- Link back to S/4 to allow data to be refreshed and aligned back to SAP
- Crashes/Hangs - Excel spreadsheet stops responding/updating, requires excel to be closed and reopened



Analytics Tools – What about



Power BI

Power BI works well with Microsoft – we have experienced some issues utilising it with SAP

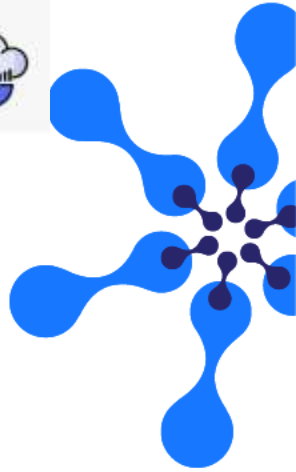
- 1 Does not recognise SAP hierarchies
 - Tested various tool [i.e. APOS Bursting] however unable to get data cleanly into Power BI with hierarchies maintained
- 2 No drill down functionality via Power BI
- 3 Achieving real-time data to Power BI is an issue - no live extraction from SAP, risk of data sets getting out of sync
- 4 Connectors need to be changed to work with Power BI
 - Rise customers are limited due to having to go via application layer
 - Requires decision to have business logic in Datasphere and extract aggregated data models to Power BI or extract base views to Power BI and build business logic in Power BI Model

Current understood method for making Power BI work with SAP:



* Under rise, can only communicate with powerBI via application layer, resulting in challenges (i.e. no drill down, or live data), Grow does communicate from S/4 database to powerBI database

Datasphere – General Learnings



1

Value of Replication Flows to enable:

- Completion of data transformation so data is formatted ready for report
- Improve report performance / mitigate load on S/4HANA
- Reduce lag of having to retrieve data, go to datasphere and do calculations to render data in SAC
- Historical data is retained (i.e. snapshot of transactional data i.e. inventory, at a point in time)



Additional run time charges for replication flows and data transformation – still trying to reconcile our charges

2

Datasphere with EWM

- Have found datasphere useful for reconciling stocktake results (able to download from SQL to datasphere)
- Remote tables and links with EWM don't work due to data volume & complexity – we have had to replicate the data

3

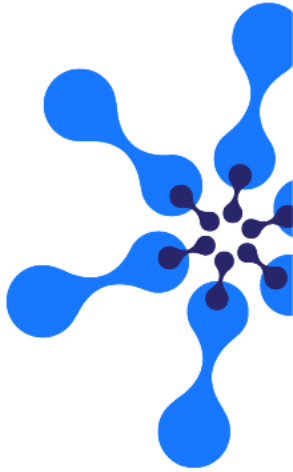
Datasphere low / no code usability

- Don't require a data warehouse expert to start utilising data warehouse (easier to build formulas, annotations, linking tables)



Due to Datasphere being new – the tool is evolving quickly, be ready to embrace a learning approach

Datasphere - Entity Imports



Currently investigating Entity Imports / New SAP data models – prebuilt data cubes

Benefits:

- Able to import directly into Datasphere with all existing connections, annotations and associations
- Short cut replications
- Gives table to table view from S/4 table to datasphere table environment
- Currently not anything for EWM 2021 Version in Datasphere for prebuilt views.



Prebuilt Entity Imports comes with some complexity / overhead due to the high volume of data fields and association and associations often not required for reporting purpose.

How to Connect with Me

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