



Automating the Enterprise - NAB's Unique Take On Case Management

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National Australia Bank

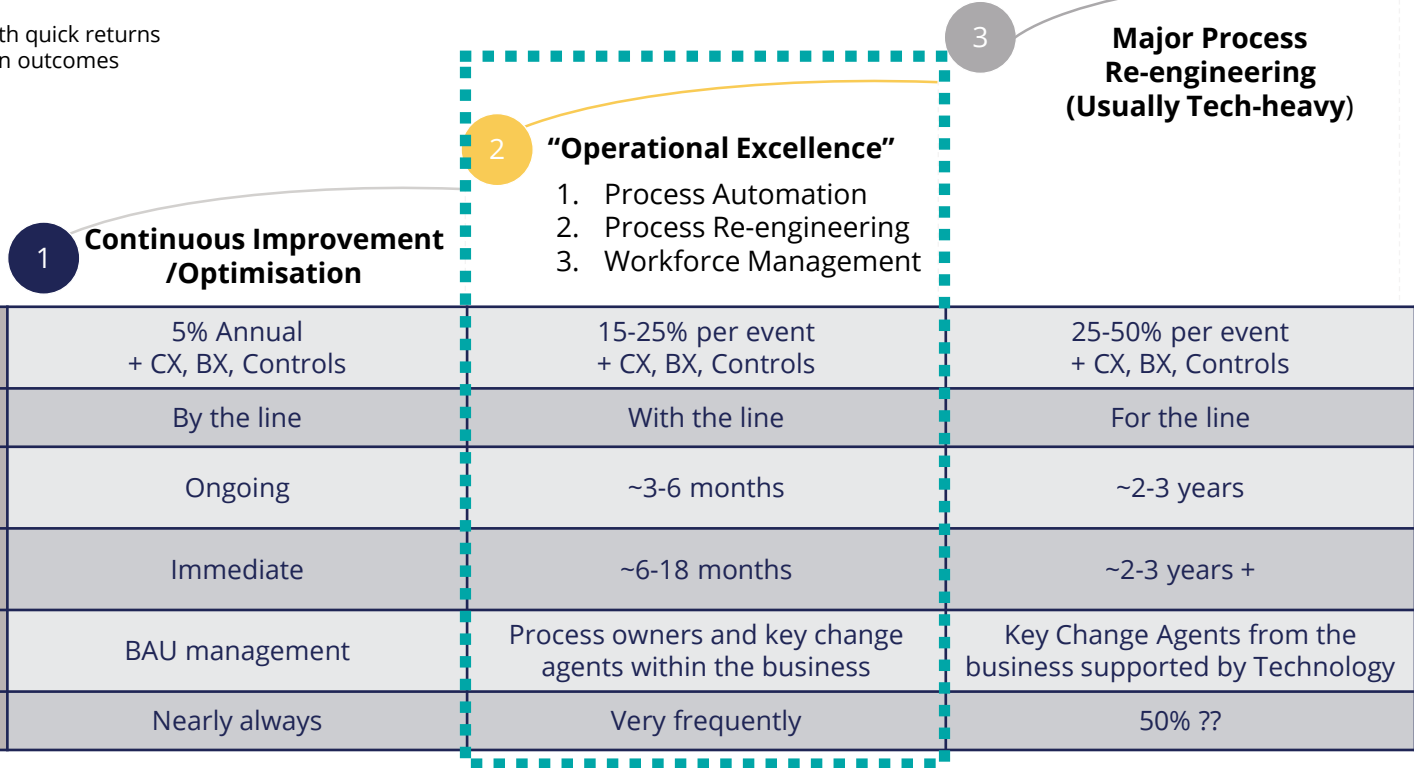


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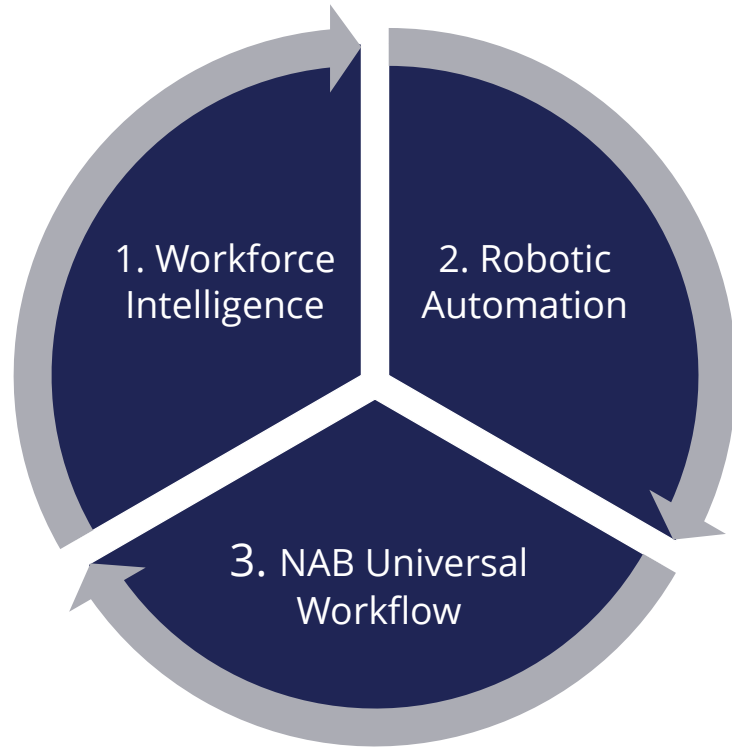
NAB is on a multi-year transformation journey to be simpler and faster for our customers.



Area of focus with quick returns and more certain outcomes



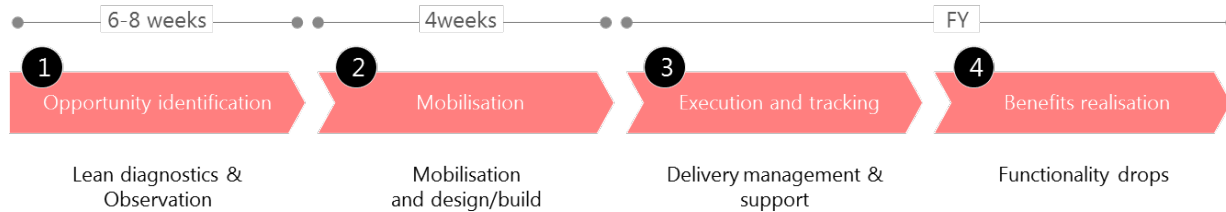
Pega is helping us deliver on our operational excellence strategy with 3 interlocked capabilities



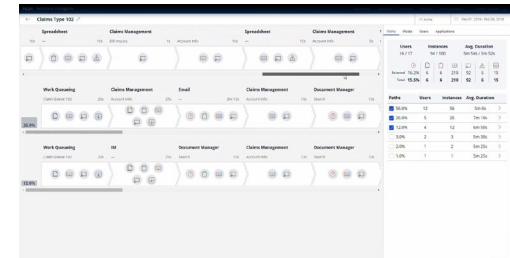
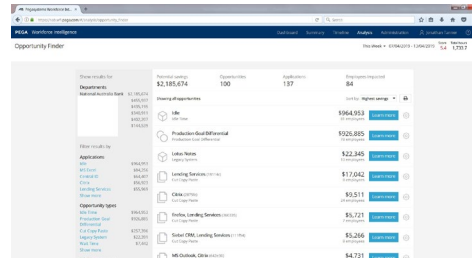
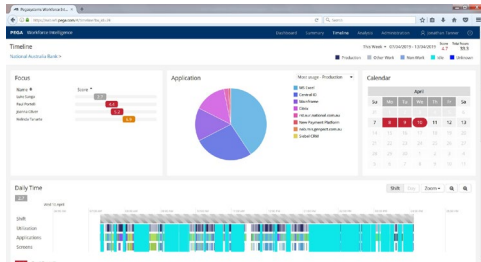
1. Know how efficiently our work is being performed.
2. Optimise our workforce, reduce risk and improve customer turnaround.
3. Automatically create, route and allocate cases from any channel to teams who need to perform the work.

Workforce Intelligence for near real time workforce diagnostics and process analysis

Moving from a traditional process and workforce improvement approach:



To automated workforce analysis and process diagnostics as a pre-cursor to automation and case management:



- Workforce optimisation

- Automation analysis

- Process and workflow design

NAB Universal Workflow for work tracking and management

What is it?

A key requirement within the operational excellence program is to transform human centric work in to a market leading digital process automation capability. NAB Universal Workflow (NUW) is a framework of re-useable enterprise components that can be configured by the business and deployed in to production to meet their workflow needs within weeks.

Enhanced Capabilities



Customers



Team Managers



Team Members

Improved Experience

"I have full confidence and understanding of how and when my request will be actioned."

"I finally have a view of all the work in my business and how we are meeting our customer's expectations."

"I can rely on the system to prioritise and fulfil my customer's needs."

Key Benefits

15-20%

Uplift in efficiency

-20%

Reduced customer follow up enquiries



Customer Satisfaction

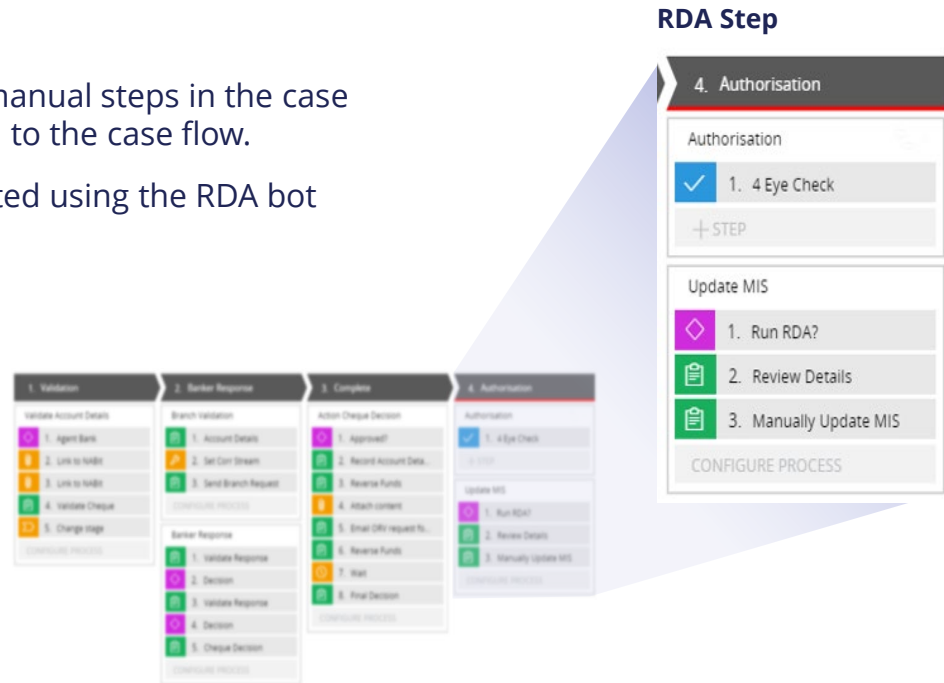
Integrated desktop robotic solutions with Universal Workflow for control and efficiency

The best of both capabilities

- Once NUW is implemented and the process refined, manual steps in the case are identified for RDA opportunities and embedded in to the case flow.
- Once automated, those assignments are now completed using the RDA bot and progress the case to the next step.

Key Benefits

- One of the biggest benefits is being able to **leverage all the existing case data** and pass it to the bot to execute tasks in target systems.
- Being able to **codify the bot trigger** has also allowed business to get more consistency and standardisation in their process steps. Full **audit history and bot outcomes are recorded** directly in the case.



What are the key features of NAB Universal Workflow?

Key Features

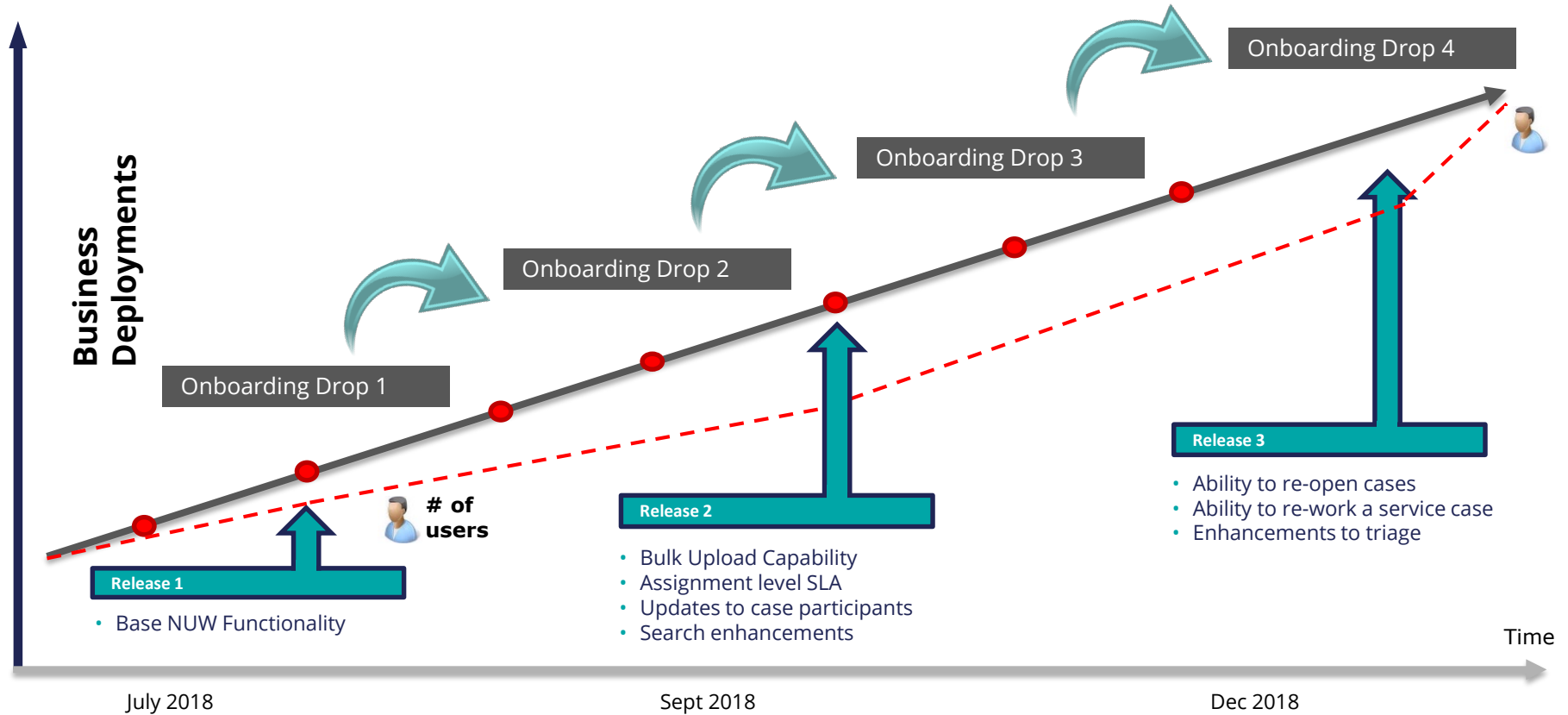
- ✓ **Natural Language Processing with machine learning:** Perform automated classification of email requests into cases.
- ✓ **Dynamic processes** based on pre-configured conditions and business rules.
- ✓ **Configurable data model** per case type.
- ✓ **Real-time operational reporting**
- ✓ **Configurable SLAs** set at overarching case and underlying step level.
- ✓ **Integrated Robotic Automation** including RPA and RDA
- ✓ **Auto case creation** via multiple channels including email, API etc.
- ✓ **Bulk case creation** of business unit specific cases supported via csv template upload.
- ✓ In-built correspondence management capability.
- ✓ **Single sign-on.**

The intelligent virtual assistant in Universal Workflow

Eight Business Units In Production Using the Intelligent Virtual Assistant:

- ✓ **Twenty seven email listeners** live in production.
- ✓ Over **sixty nine thousand emails** processed by IVA in Universal Workflow to date.
- ✓ Up to **75% of service cases** auto classified leveraging the natural language processing (NLP) model without human intervention.
- ✓ Business teams are able to update and **maintain their own NLP models** which is constantly improving the auto classification rates.

Ongoing feature enhancements to the core pattern



Automation is achieved through rapid and iterative deployments

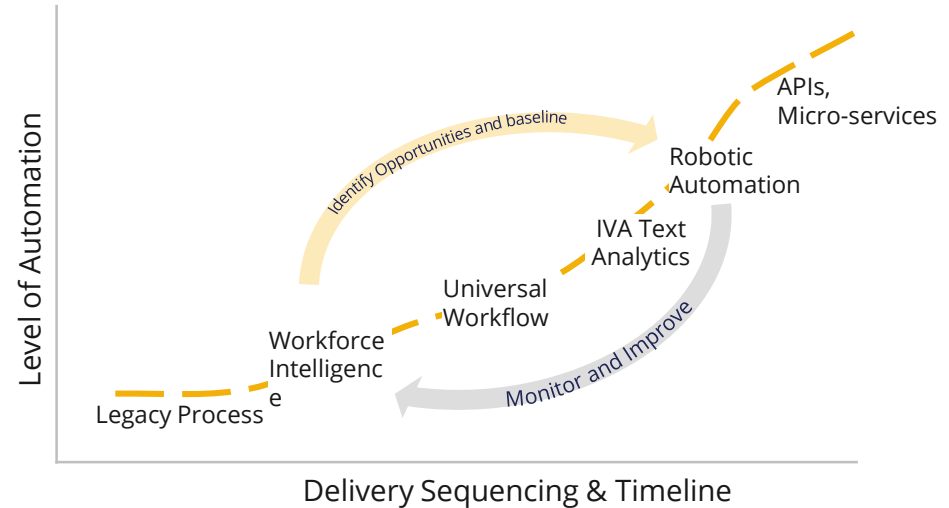
Using the full suite of capabilities we have developed, an overall solution is designed and rolled out iteratively.

Capability

- ✓ We use **Workforce analytics** to identify the business processes, automation opportunities, and exceptions.
- ✓ **Universal Workflow** is configured & deployed to set the foundation for further iteration.
- ✓ **IVA NLP** is added and models matured to process cases with unstructured text.
- ✓ PEGA **RDA** solutions are added to Universal Workflow to automate manual steps of the process.

Efficiency

10%
25%
40%
60%



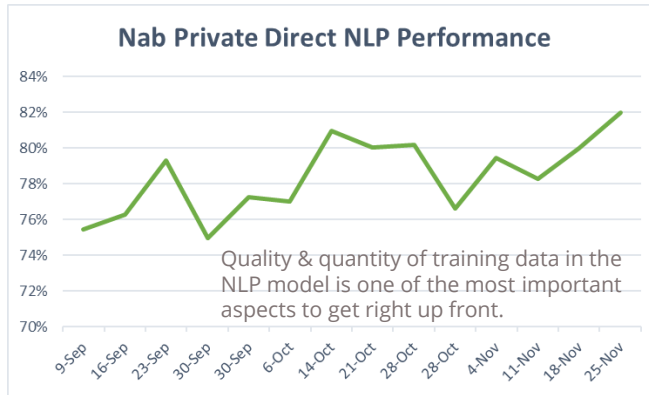
Case Study 1: NAB Private Direct using Universal Workflow & Natural Language Processing

Nab Private Direct is dedicated to managing all aspects of NAB's highest net-worth customers. Clients desire personalised service in an evolving digital & direct landscape. NPD needed better tools to continue growing acquisitions and focus of value-add tasks.

With over 200 email requests a day, Nab Private Direct team members use Universal Workflow to manage their customer's needs. With the use of Pega's NLP models, team manager roles have also changed from case allocation and admin to focus on meeting customer's SLAs.

Work Queues NLP Model Training Performance

Enquiry
Card Enquiry
MICR Enquiry
Interest Rate Conversation
Investment Admin
Investments
New Lending
Payments*
Profile Amendment
Refinance
Sales Discharge
Urgent Request



Key Highlights:

- ✓ Over **17k emails automatically classified**, triaged, and routed using NLP model.
- ✓ **30% of time spent on work allocation or locating existing cases** has been greatly reduced.
- ✓ Standardised & consolidated business processes from **80 to 21 case types across 15 work queues**.
- ✓ Business is continually adopting new features in response to automation business drivers & user's feedback.

Some NLP performance issues were initially caused by the small number of records in the model (1500, across 15 case types), immature data cleansing practices, and challenges in updating the model.

Case Study 2: 3rd Party Cheque Verification Process using Universal Workflow & Robotic Desktop Automation

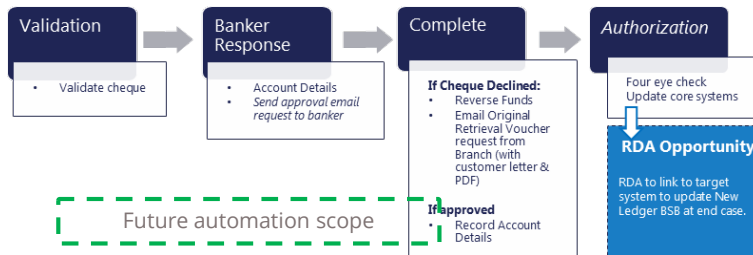
- The Payments Enquiries team processes **1500+ 3rd party cheques a day**, where there is a discrepancy between the name on the cheque and the account name.
- This process requires a number **of image verification steps and approvals** before releasing the cheque to process the value in core systems.
- **Nab Universal workflow** has replaced the legacy application for case management and a **RDA component** to process the cheque in to core banking systems.

Key Highlights:

- ✓ RDA component developed in a **week, for under 10K.** (two week payback period)
- ✓ Efficiency benefit of **125 hours per week.**
- ✓ Authorisation time reduced from **2 minutes to 5 seconds.**

Nab Universal Workflow with embedded RDA steps

- ✓ The bot is triggered directly from the process.
- ✓ This synergy allows the user to complete the decisioning, and bot to process the data.



3rd Party Cheque Verification process demo of the Pega Workflow and RDA user experience.

1. The user completes the manual steps in the process.
2. The robot step will automatically process the cheque to core system at the required stage.
3. A confirmation of the robot activity will be provided within NUW and in the robot audit trail.

https://uat1.pega.extnp... NAB Universal Work Flow P... X

File Edit View Favorites Tools Help

Pega Case Manager

nab more than CASE MANAGER → Get Next Work Advanced Search \$70429051 HR

TPC VALIDATION No Name (DPTPC-6291) OPEN Actions

Thank you! The next step in this case has been routed appropriately. Get next

Assignments View all

Urgency	Task	Assigned to
100	Update MIS (Authorisation)	Third Party Cheques Begin

Validation ✓ Banker Res... ✓ Complete ✓ Authorisation

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Home

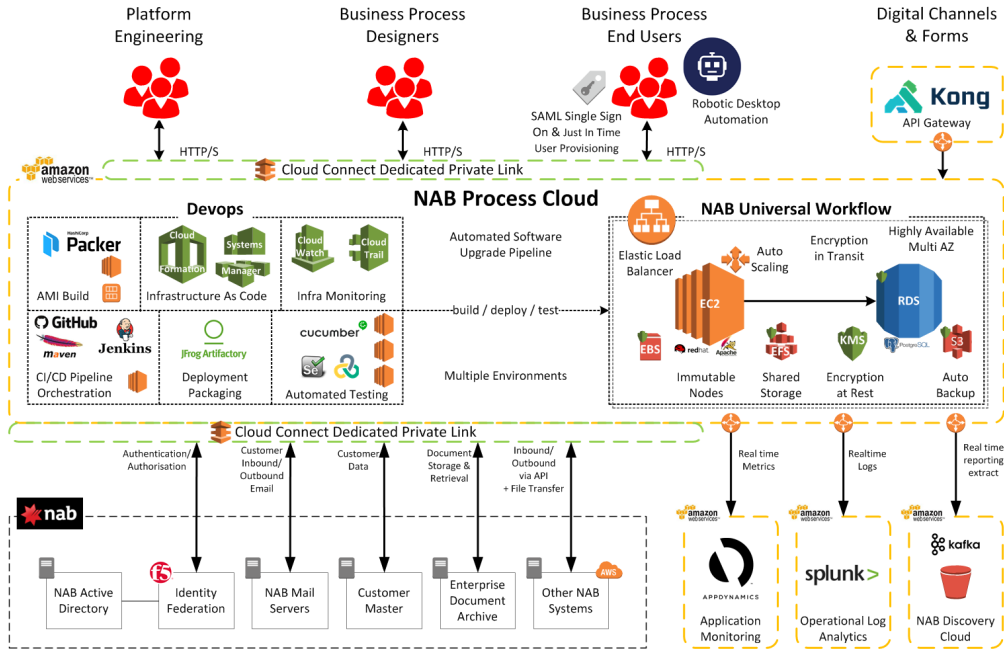
- Third Party Items
- Third Party Report
- Third Party EOD
- Change Password
- Help Guide

For assistance with Genpact reporting issues please contact CATNAB on IPB.CATNAB@genpact.com

For assistance with user issues, please contact cs&d_operations@nab.com.au or refer to the User Guide

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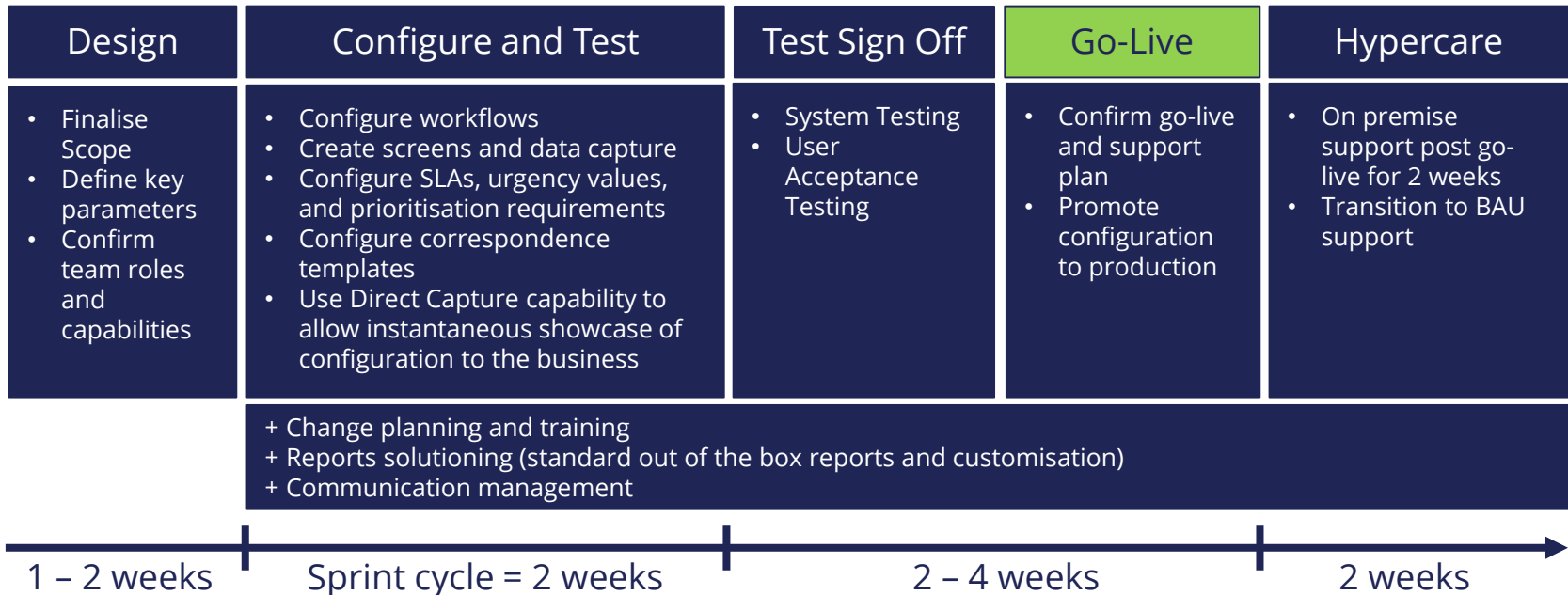
Full platform cloud architecture leveraging AWS



1. The Pega platform has been built fully leveraging the AWS Cloud infrastructure.
2. Our implementation has enabled a full end to end DevOps pipeline for environment provisioning, automated testing, and automated code migrations.

Business led delivery model

- ✓ Our NAB business units complete an engagement & demand assessment which determines suitability. If assessed as a fit for Universal Workflow, the team handover the initiative to a dedicated onboarding squad. The Onboarding squad follow a predefined process which generally takes between 8-10 weeks.

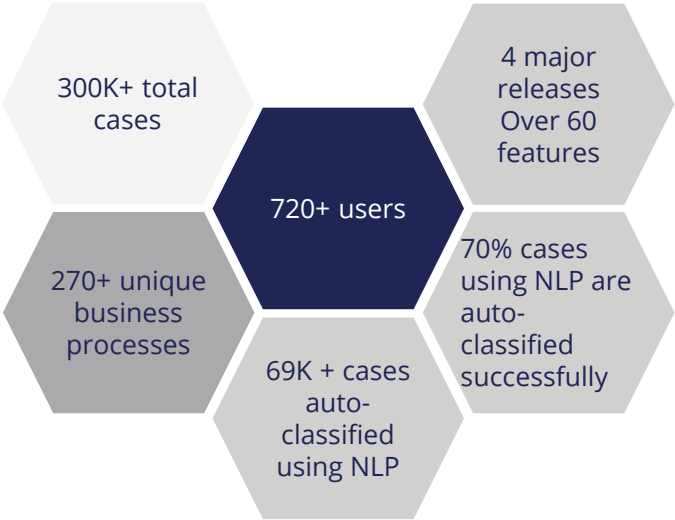


Achievements and business rollout

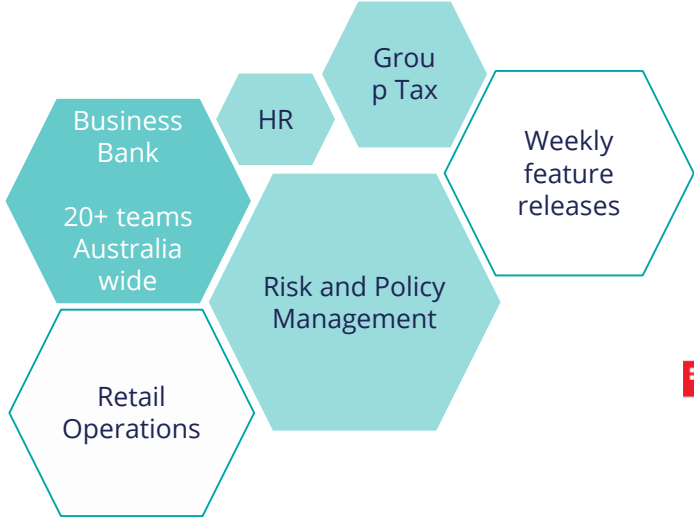
- ✓ 60+ successful universal workflow deployments into production from 28th May to 31st Jan at an average of 1 deployment every 3 days.

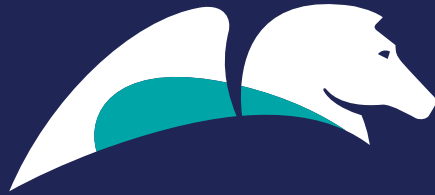


Universal Workflow By the Numbers



Future Roadmap





PEGA[®]

Build for Change[®]