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**North of England**  
Commissioning Support Unit

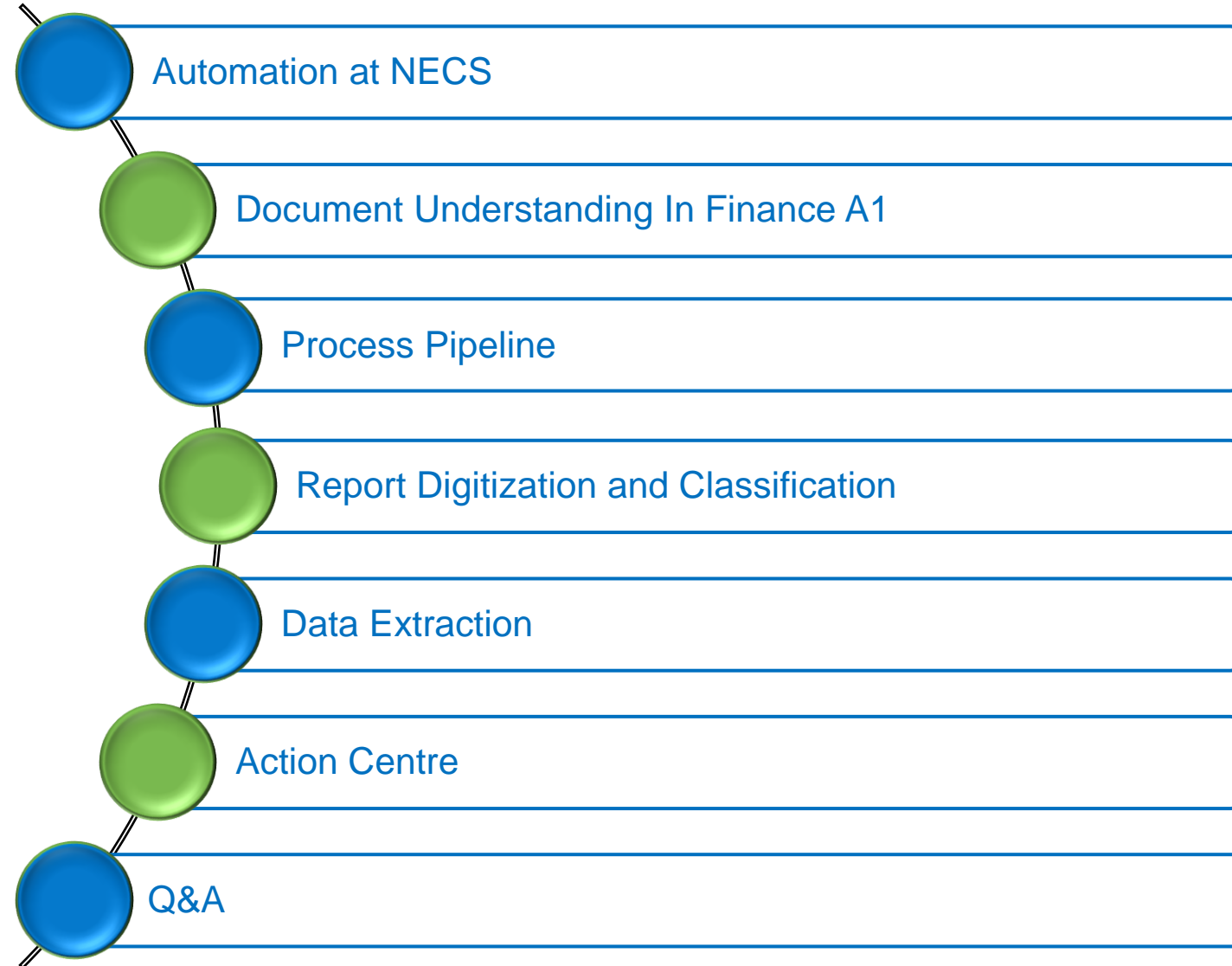
# NECS Automation

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**Bots4Good**

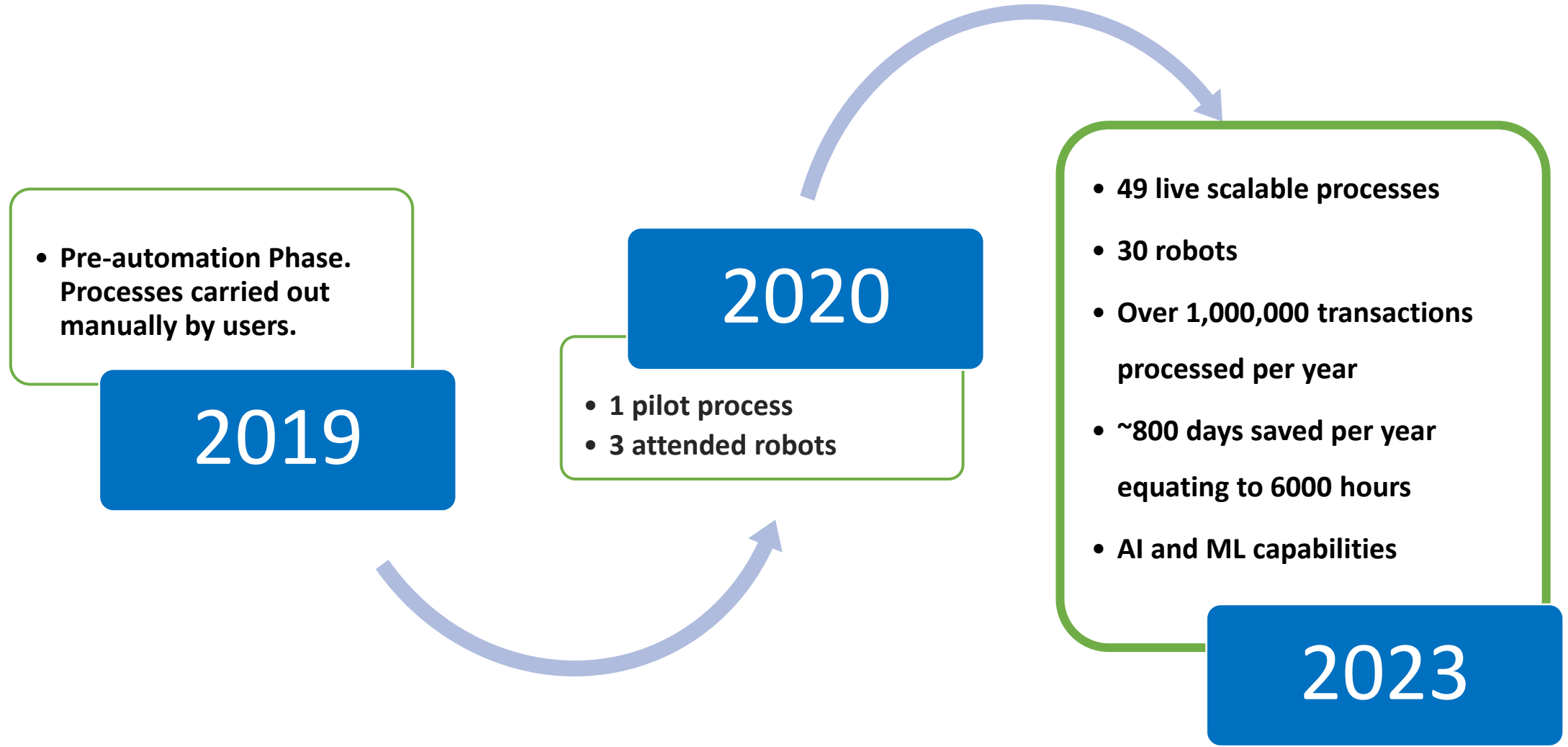
*22 November 2023*

# Contents

A vertical navigation menu on the right side of the slide. It features a central vertical line with seven circular nodes. The nodes alternate in color: blue, green, blue, green, blue, green, blue from top to bottom. Each node is connected to a horizontal rounded rectangle containing a text label. The labels are: "Automation at NECS", "Document Understanding In Finance A1", "Process Pipeline", "Report Digitization and Classification", "Data Extraction", "Action Centre", and "Q&A".

- Automation at NECS
- Document Understanding In Finance A1
- Process Pipeline
- Report Digitization and Classification
- Data Extraction
- Action Centre
- Q&A

# Automation at NECS



# Document Understanding In Finance A1



## Dispatcher:

Logs into Oracle BI and navigates to extract details of all reports for different areas daily. Iterates through each report's detail to determine if the report should go through the DU path or the performer path. If URL exists, the process takes the DU path to proceed invoice processing.



## Document Understanding:

Downloads the invoice from the URL, digitizes text, classifies and extracts the desired data fields using Machine Learning models of UiPath.



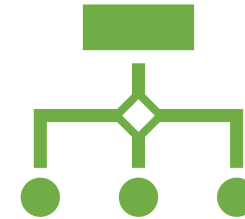
## Performer:

Data extracted from all the invoices then go through the performer, where it is added into the ledger.



## Digitize

Generates a DOM that contains all the text from an input document along with their location on the file.



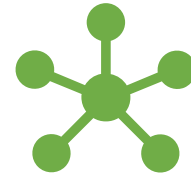
## Classify

Uses Keyword Classifier to determine the document type and what processing route to take.



## Extractor

Uses API calls from the process to access ML extractor activity of UiPath. Uses ML model to extract fields and values from the invoice.



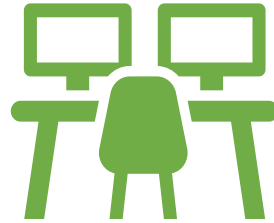
## Extract Categorization

Iterates through output from the extractor to retrieve desired fields like issue date, description, supplier name, etcetera; and their confidence levels.



## Export Data

If extraction is successful, data is pushed to the next process - [Performer](#).



## **Manual Document Validation**

If the extraction confidence values are below the desired threshold, the extracted document passes down to the Action Centre to be validated by a human user.