Forest Grove

Data-Driven Decision Making

Optimising technology to unlock insights that drive better business decisions

Forest Grove Customer Conference 2023

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Data-Driven Decision Making

Optimising technology to unlock insights that drive better business decisions

[D1S6] Building bespoke analytical business applications - fast, efficient, cost effective and at your fingertips

Presented by:
Forest Grove Strategy & Growth Executive, Betsy Westphal; Senior Technical Consultant, Willem Lottering & Consultant, Rebecca Tung

About the session:
KNIME allows data workers to create and deploy custom data applications that can service the full spectrum of end users. Basic to advanced analytical workflows, built within the KNIME Analytics Platform, can be deployed and shared as interactive, flexible data apps for frontline workers, business end users and stakeholders. From simple but sophisticated data input to interactive dashboards to guided visual analytics, this session gives a taste of the possibilities that data apps can offer across industries and disciplines.

What this session will cover

▶ **Introductions & Business Case: Why you need to know about KNIME data apps!**
Presented by Betsy Westphal

▶ **KNIME Data Apps in Action – Use Case 1: Data Input & Exploration**
Presented by Bec Tung

▶ **KNIME Data Apps in Action – Use Case 2: Deployment of reusable workflows**
Presented by Willem Lottering

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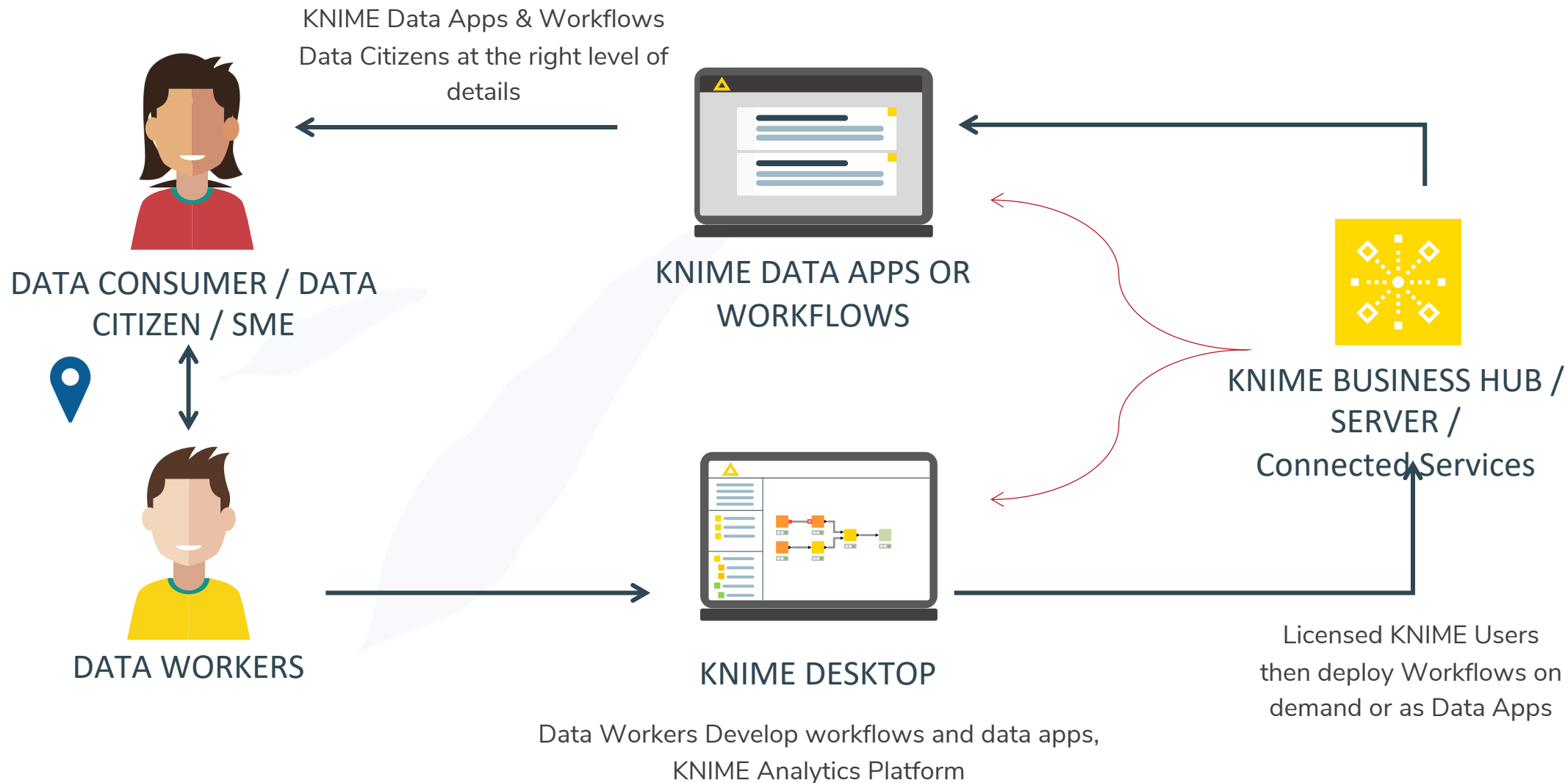
Why do we love Data Apps?

1. We have seen the value data applications are bringing to our customers

2. The opportunities and possibilities available

3. Bridges the gap for data citizens outside the data team (with the right level of detail)
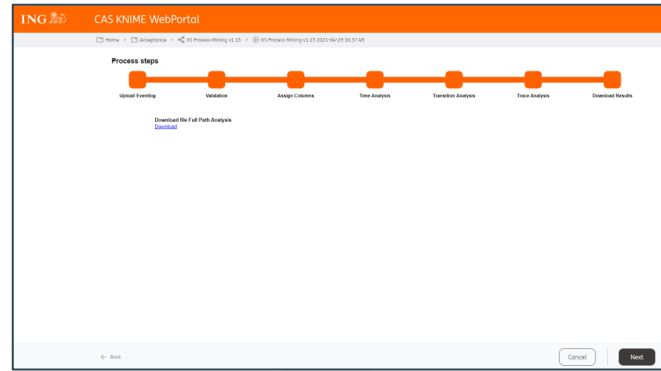
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How does it work?

The same way workflows are built!
Nodes, Components, Workflow > deploy!
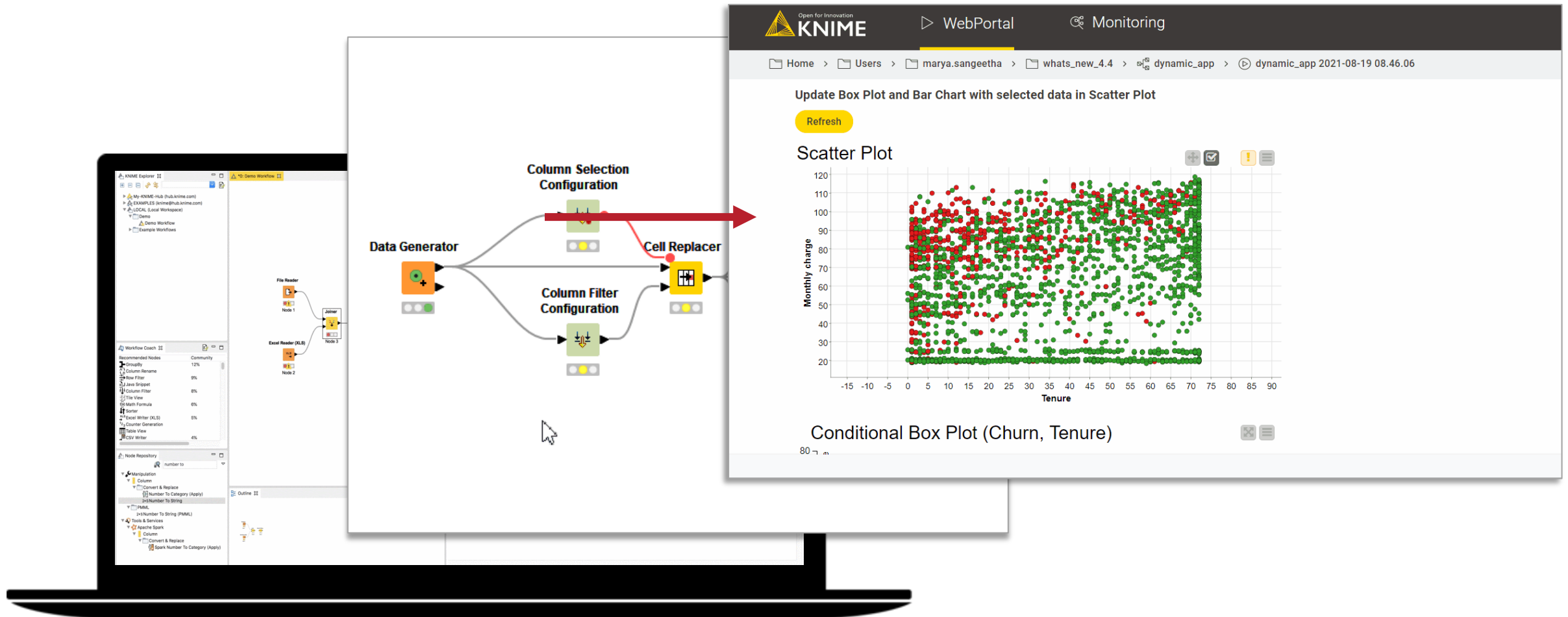
# Data Consumers = Moving towards an organisation of Data Citizens

KNIME Data Apps & Workflows
Data Citizens at the right level of details

DATA CONSUMER / DATA CITIZEN / SME

KNIME DATA APPS OR WORKFLOWS

KNIME BUSINESS HUB / SERVER / Connected Services

DATA WORKERS

KNIME DESKTOP

Data Workers Develop workflows and data apps, KNIME Analytics Platform

Licensed KNIME Users then deploy Workflows on demand or as Data Apps

Bespoke business apps for any business decision or process
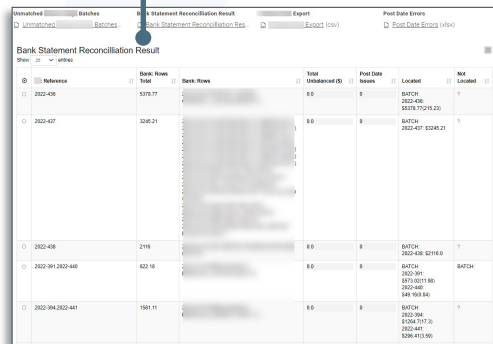

Team: Audit

Use-Case: Process Mining Data

Outcome: enables auditors to identify non-compliance

KNIME Data Apps
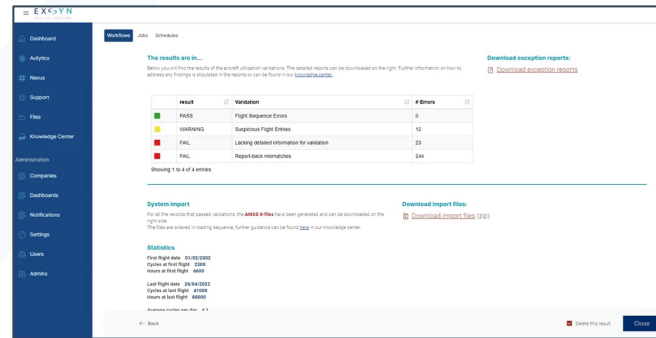
Team: Engineering teams

Use-Case: Provider of aviation solutions, scaled data management to reduce aircraft phase-in processes

Results: 3+ weeks to a few days

Team: Fundraising

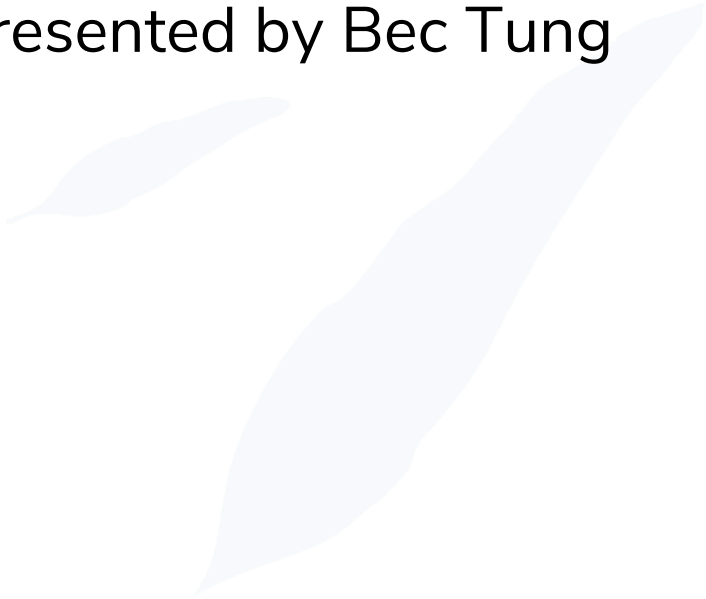**Use-Case:** Automate process to transform Gift Records and upload to Finance System

Results: digitization of manual, error prone processe. Greater data and self-service power for giving and finance teams.

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KNIME Data Apps in Action
Use Case 1: Data Input & Exploration
Presented by Bec Tung

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Data Apps??

- Business seek to move towards data-driven planning and decision making

"Digital transformation"

"Data citizen"

- Standardize data entry process, tightly controlled pipeline so management has more control over the process from start to finish.

- De-risking: minimizes the opportunity for human error or inefficiency, and HOURS of time spent trying to correct an accident.

- Ease of use

- Built to accommodate complexity

- Highly customized for specific business needs.

- Contributes to agile, data-driven businesses who accommodate diverse data integration and have highly-accessible data.

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Webportal Demos

Live Demo1: Budget App

- Multiple sites, multiple managers

- Excel spreadsheets for data entry

- Challenging to collate data from separate sites

- Leverage KNIME Webportal as a single interface

- Streamline and control budgeting process

Live Demo2: Credit Risk Assessment

- Assess risk of certain customers based on varying parameters

- Visual representations in data exploration to aid decision-making

- Showcase KNIME Webportal diversity for highly customizable business needs

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Data Apps!!

✓ Standardize data entry process, tightly controlled pipeline so management has more control over the process from start to finish.

✓ De-risking: minimizes the opportunity for human error or inefficiency, and HOURS of time spent trying to correct an accident.

✓ Ease of use

✓ Built to accommodate complexity

✓ Highly customized for specific business needs.

✓ Readily-available data & diverse data integration

✓ Contributes to agile businesses, data-driven planning and decision-making

"Data citizen"
"Digital transformation"

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KNIME Data Apps in Action
Use Case 2: Deployment of reusable KNIME workflows

Presented by Willem Lottering

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Deployment of reusable workflows

Use Case

- Repeating request to create workflows to extract data from SQL database into a data warehouse
- Requirements for database schema to match source system to reduce traffic to production database for reporting.
- Repeatable and configurable solution
- Easy to use
- Web Apps
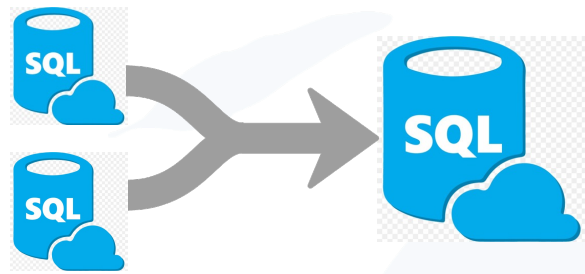
Deployment of reusable workflows

Use Case

- Configure connection settings
  - SQL Source connection details
  - Table and columns
  - Incremental loads or Lift and Shift
- Deploy
- Repeat

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Deployment of reusable workflows

Functionality used

- Loops
- Widgets
- Variables
- Call Workflow Service
- Capture Workflow Start/End
- Workflow Write
- Database Connections
- Workflow Control nodes

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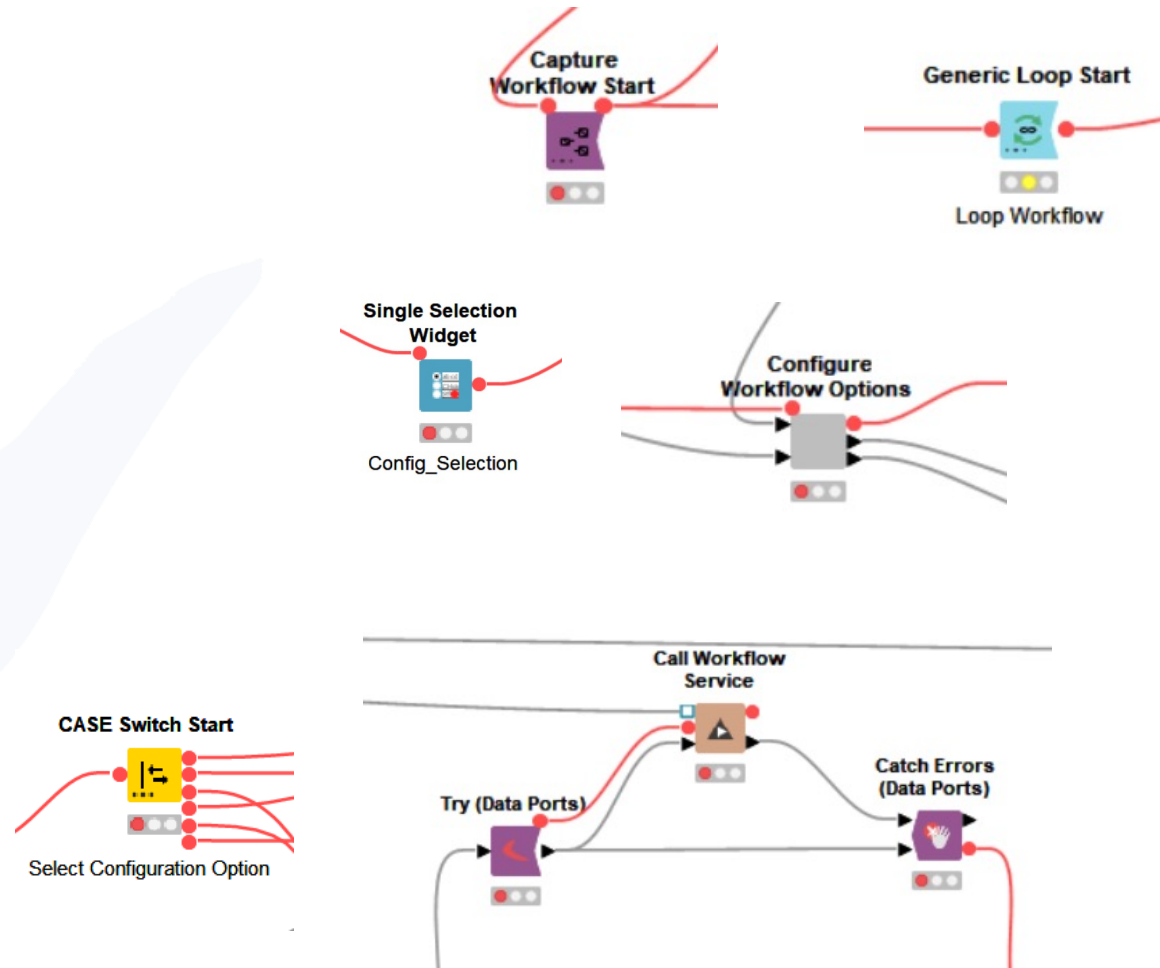
Deployment of reusable workflows

Live Demo

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