

Providing a Shared BPM Infrastructure in the Cloud for Municipalities

Configurable Services for Local Governments (CoSeLoG)

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Goal

The goal of the CoSeLoG project is to create a cloud infrastructure for process execution and analysis.

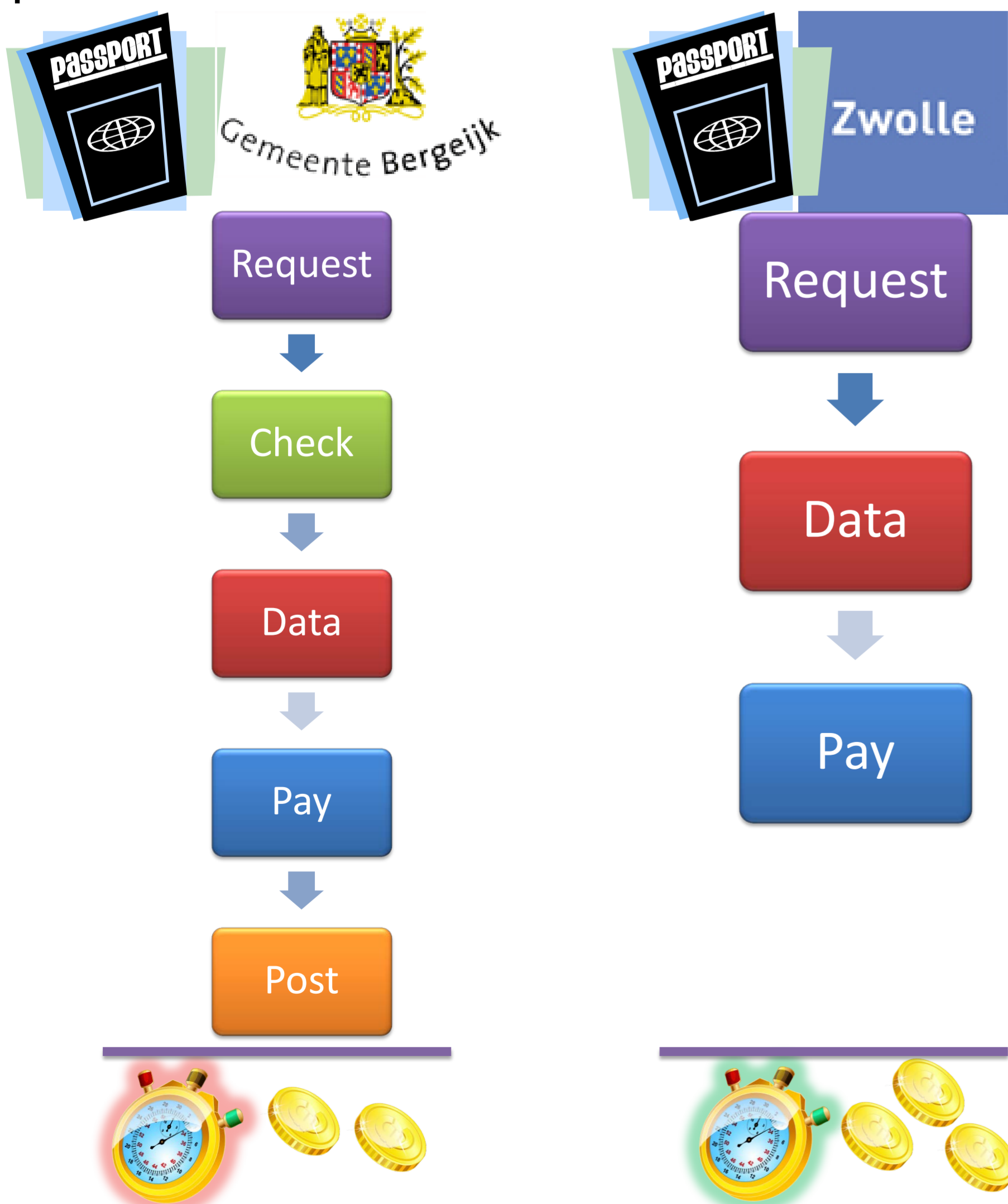
The CoSeLoG Project

All municipalities are similar, however, their internal processes are typically different, i.e., they all have a “colour locale”. Within the constraints of national laws and regulations, municipalities can differentiate due to size, demographics, policies, etc.

The CoSeLoG project aims to create a cloud infrastructure for municipalities where they can reap the benefits of cooperation and still allowing for a colour locale.

To support the colour locales, we use configurable services. These are services customisable to the requirements of individual organisations whilst supporting standardisation.

Within the CoSeLoG project techniques have been created to obtain configurable services, analyse configurable services, and execute configurable services, all with a single press on the button and in the cloud.



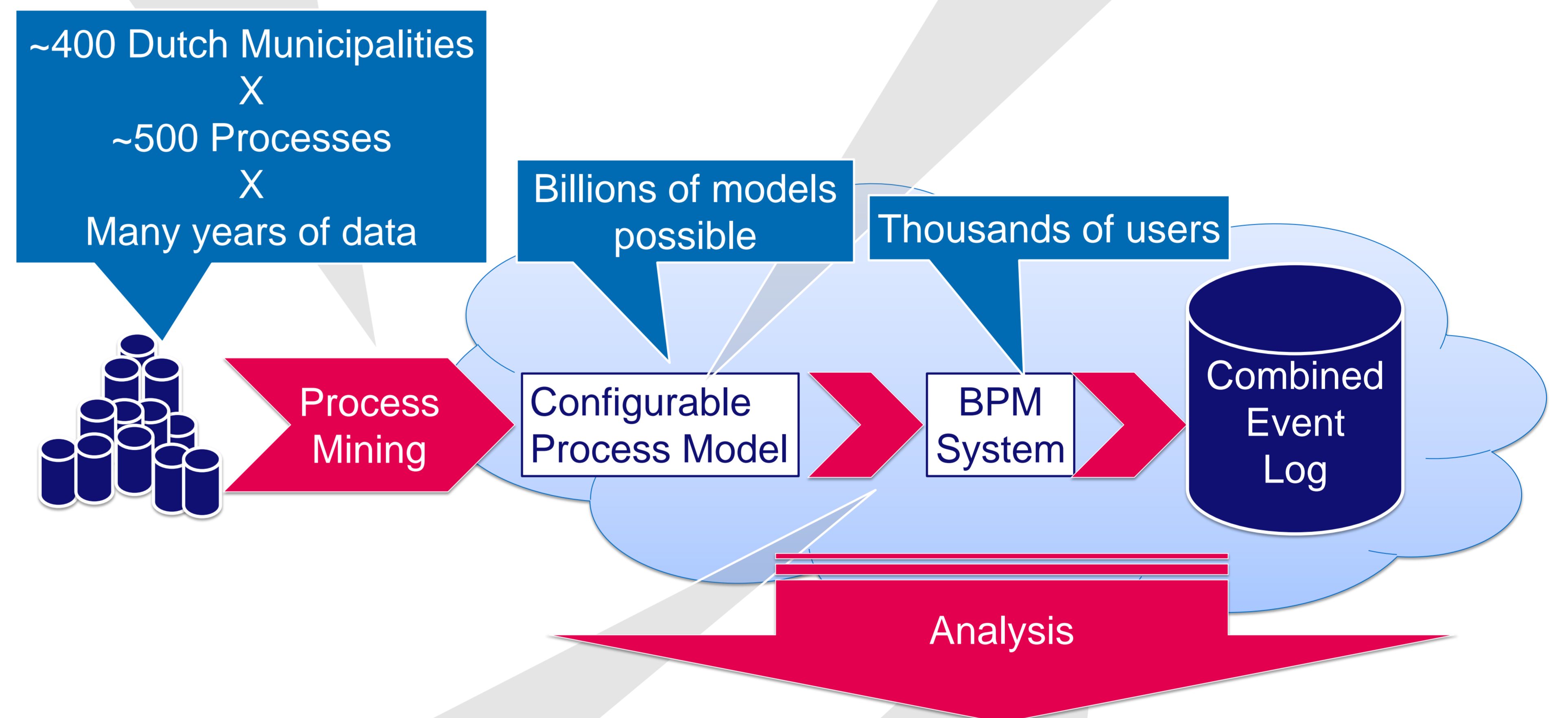
Process Mining

Process Mining uses **observed behaviour** to discover and analyse process models. Within the CoSeLoG project new techniques have been developed to discover a **configurable process model**.

This technique has been applied on real data from participating municipalities.

Configurable Process Model

Where a process model describes which steps are taken by who with which data, a configurable process model describes **a set of process models**. The configurable process model is enriched with **configuration points**. In these configuration points, the user has the **option to change** the model. For instance, the user might want to remove a certain check from the model.



BPM System in the Cloud

The BPM system in the cloud directly executes the configurable process model taking the colour locale into account.

The benefits are numerous, e.g., **reduction of costs**, **increase in reliability**, always working according to **the latest laws and regulations**, and **unlimited scalability**.

Analysis

Two types of analysis are currently supported:

Simulation

Using simulation, municipalities can be advised on different configurations to **improve their process** executions by **learning from each other**.

Behaviour Comparison

The behaviour of different municipalities can be compared to suggest **collaborations**, **configurations** and **process improvements**.

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