



**IGE | IPI**

Eidgenössisches Institut für Geistiges Eigentum  
Institut Fédéral de la Propriété Intellectuelle  
Istituto Federale della Proprietà Intellettuale  
Swiss Federal Institute of Intellectual Property

# **Digitalization at the Swiss Intellectual Property Office**

## **Project ESV**

# ESV Vision Business IT - Allignment

Generic Plattform for Trademark, Design  
and Patent Business Applications/Processes

... business driven architecture

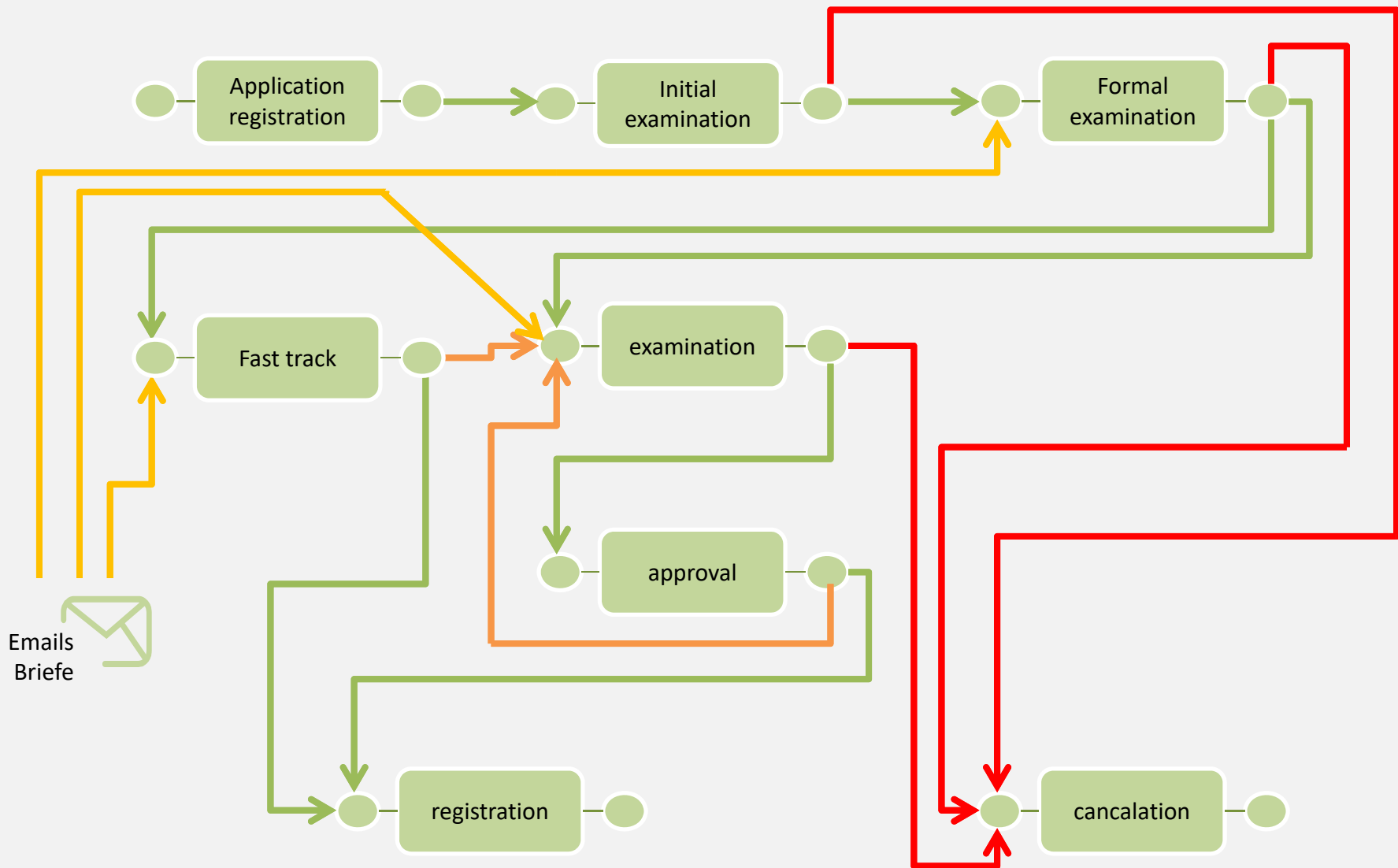
... excellence ability for change

... cost-saving by usage of “best of breed”  
technology



Source: [camunda.com](http://camunda.com)

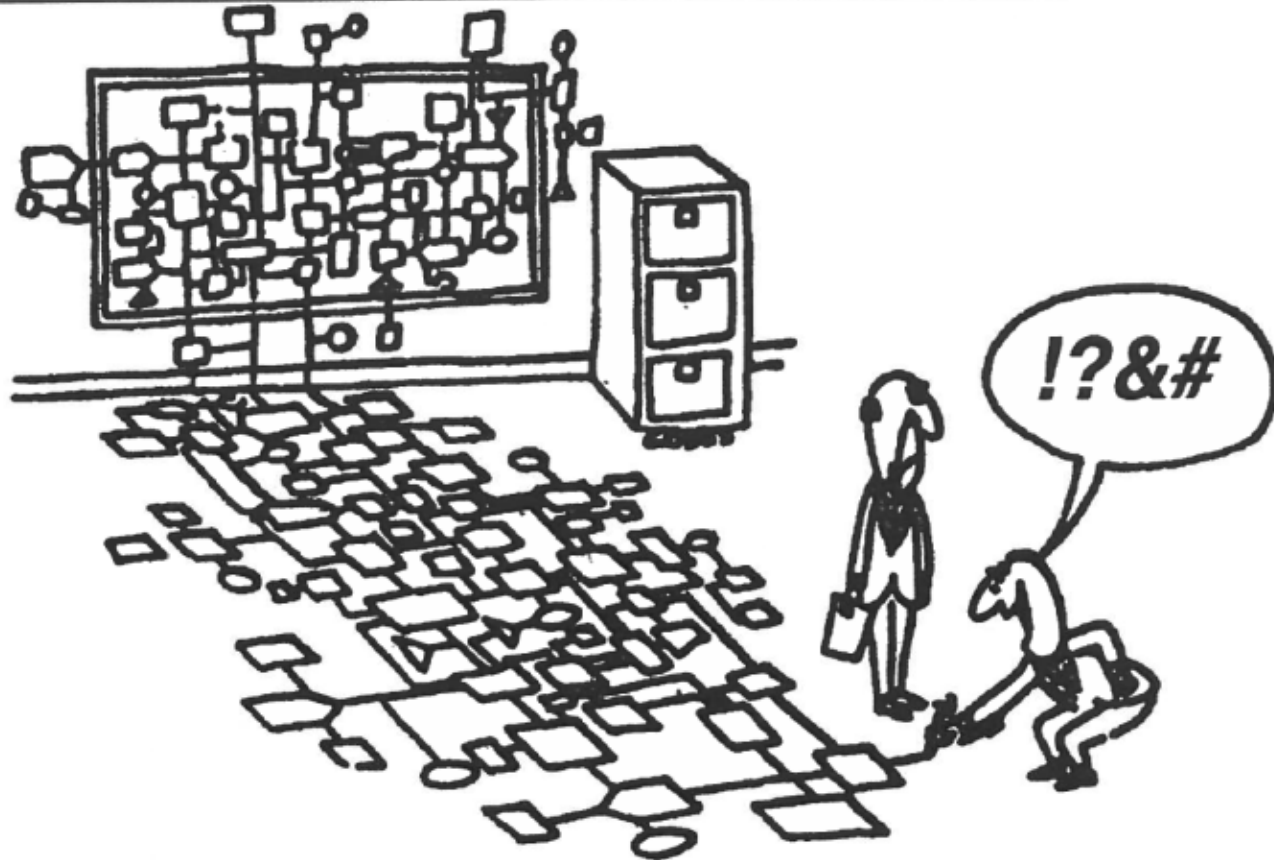
# Real Szenario in IP



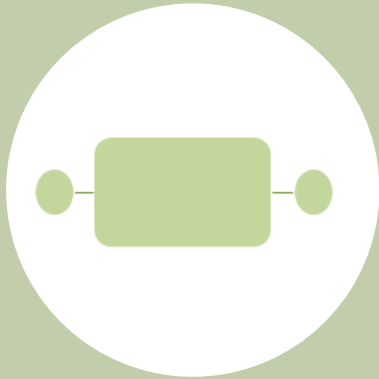
# ESV Challenges

## ... executable Processes

„Mein Prozessmodell ist technisch ausführbar! Toll, oder?“







**BPM**



**Adaptive  
BPM**



**ACM**

structured  
simple

unstructured  
complex



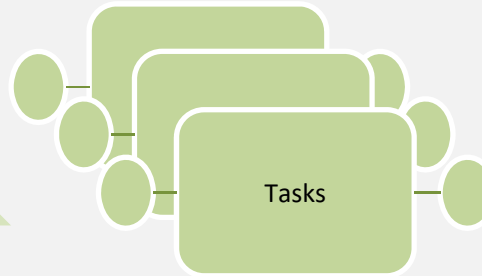
# ESV basic concept business Layers

**Presentation Layer**  
Operational concept



Business Data  
Business Applications

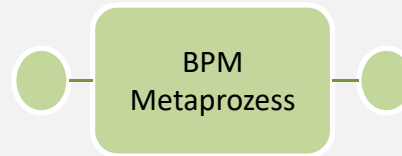
**Structured BPMN Processes**  
(Tasks)



Business Rules



**Layer Adaptive BPM**  
BPMN metaprocess



External events:  
deadlines, time-  
limits, mail+email,  
fees, ...

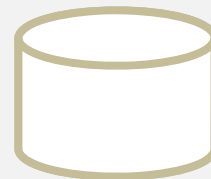
Business Rules



Business Rules



**Security Layer**  
Business Data



Processes



Business Objects



Deadline,  
Timelimit, ...

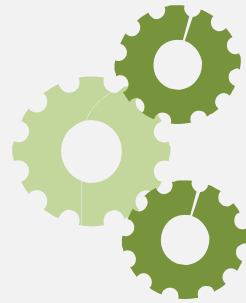


Mail,  
Email, ...



User

## Business Rules



validation user input,  
validation processes/objects

processes

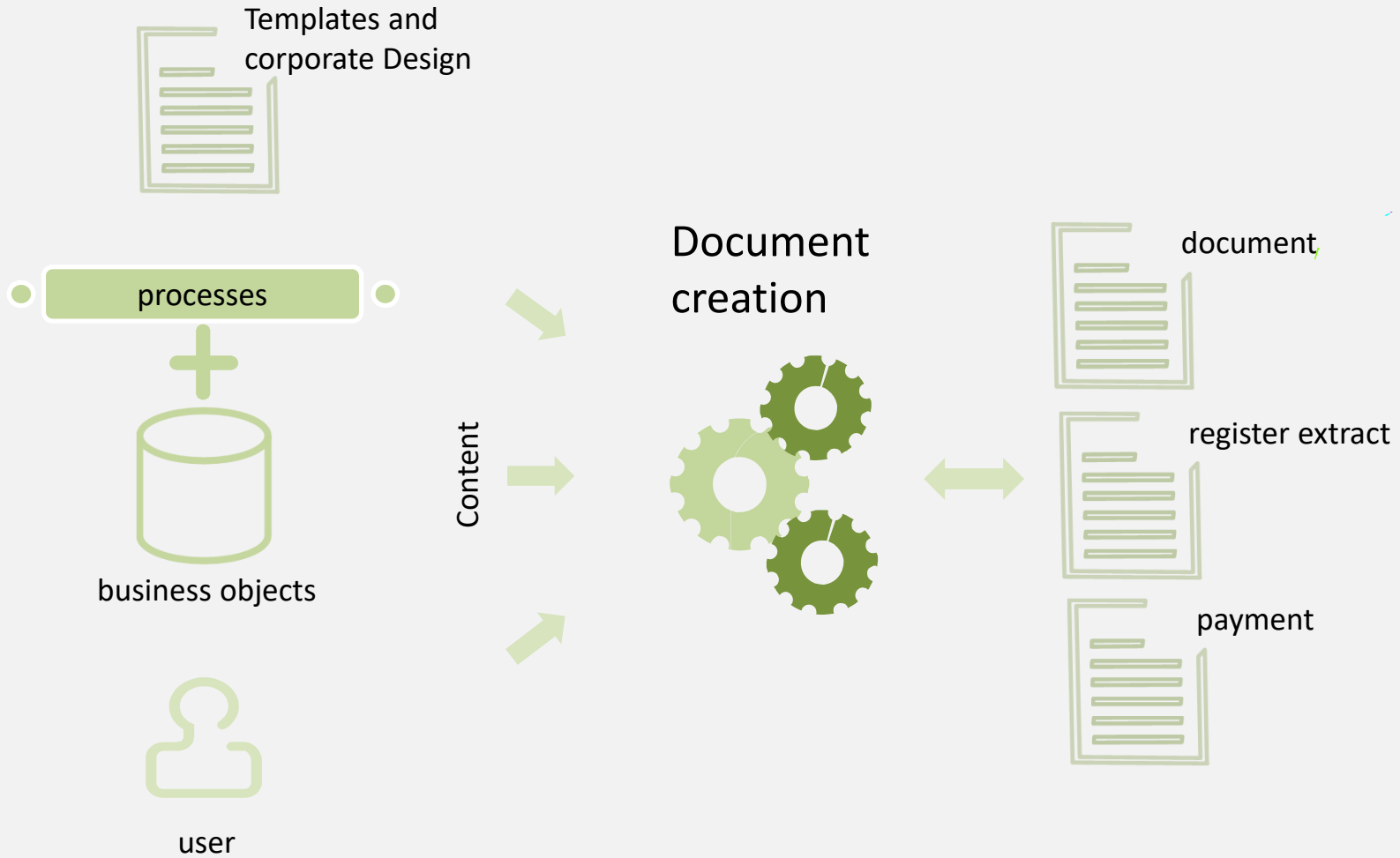
Automatisation



User assistance

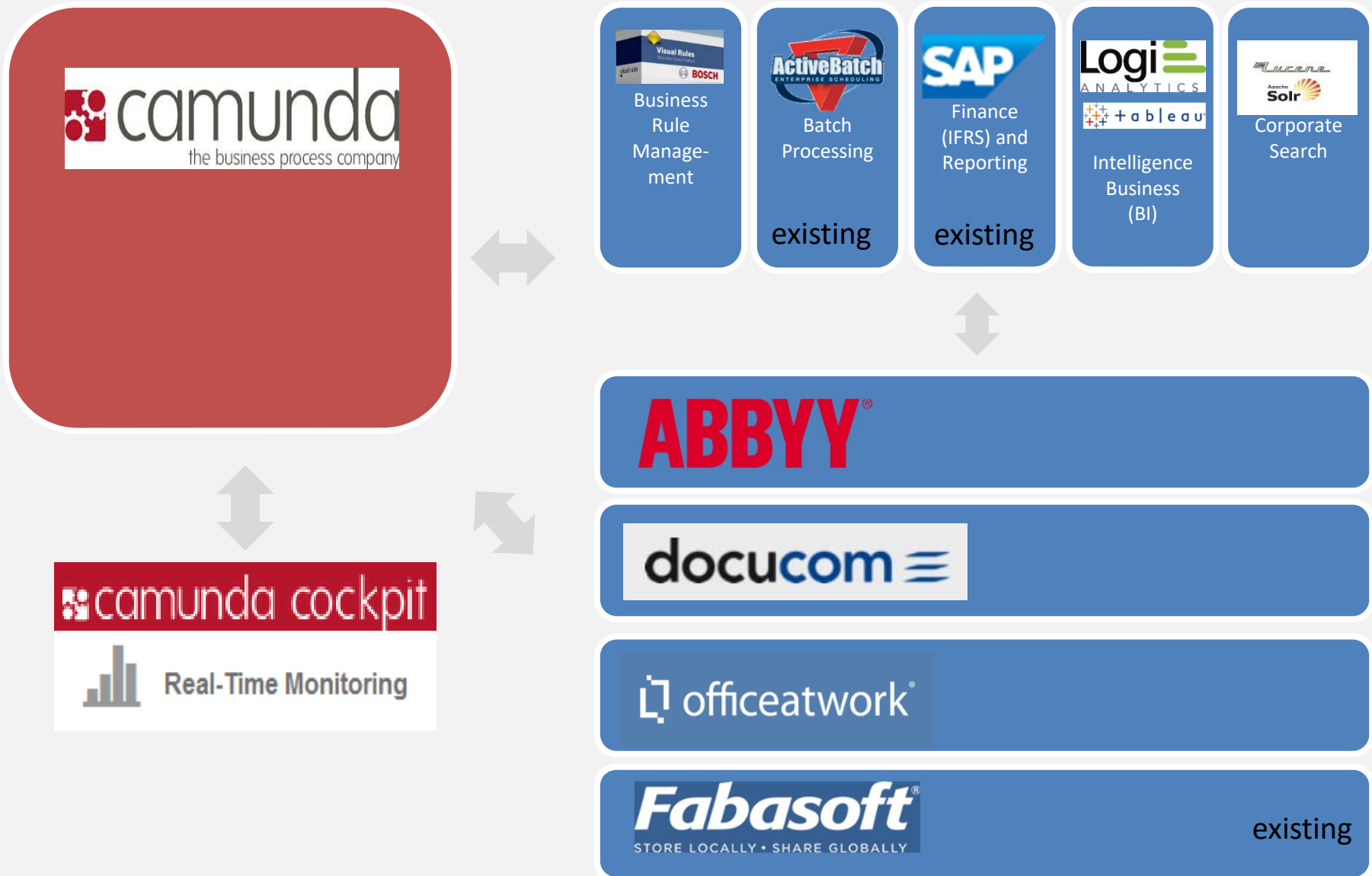


# ESV basic concept automated document creation



# ESV basic concept

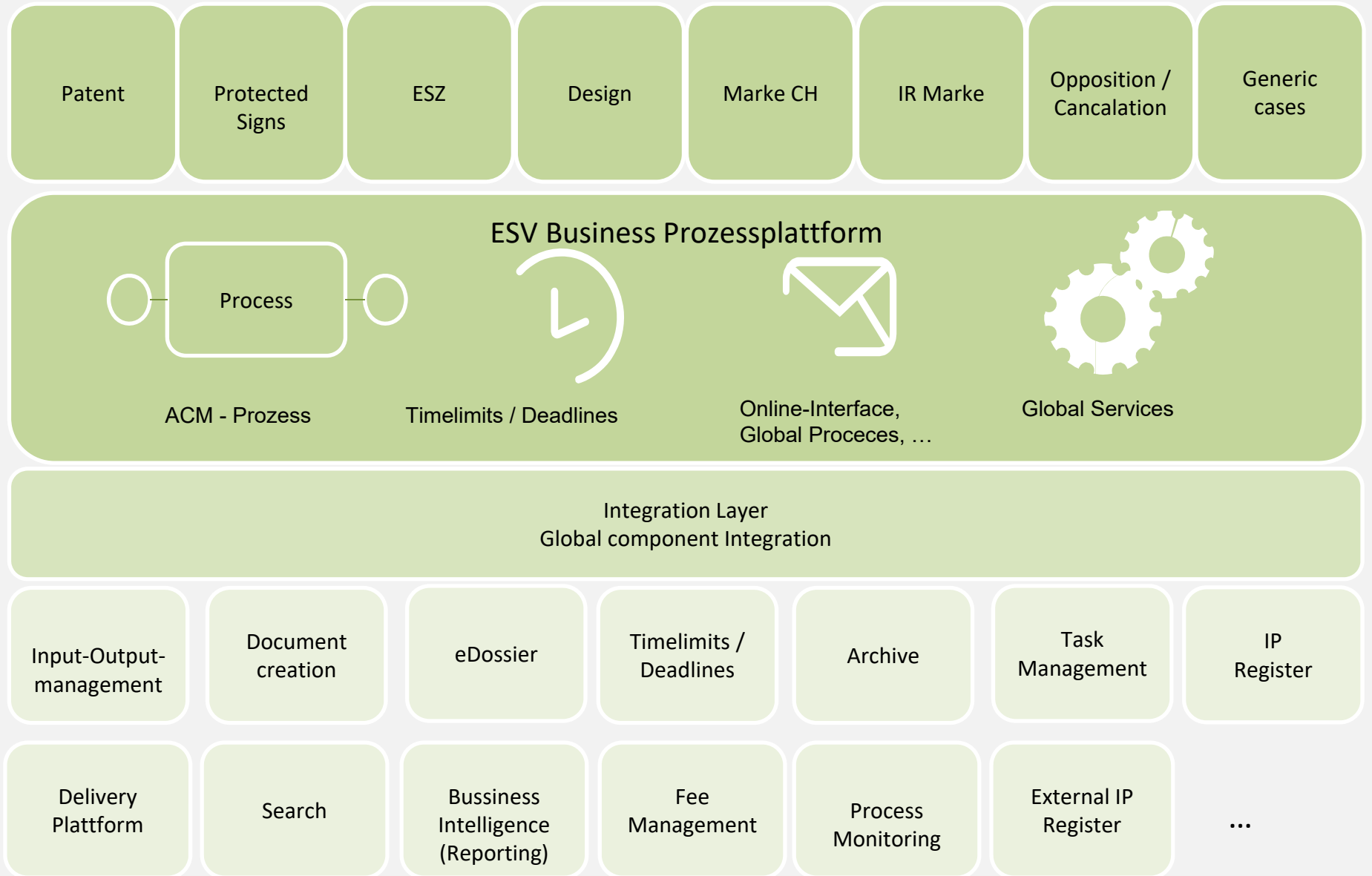
## Integration of existing Systems





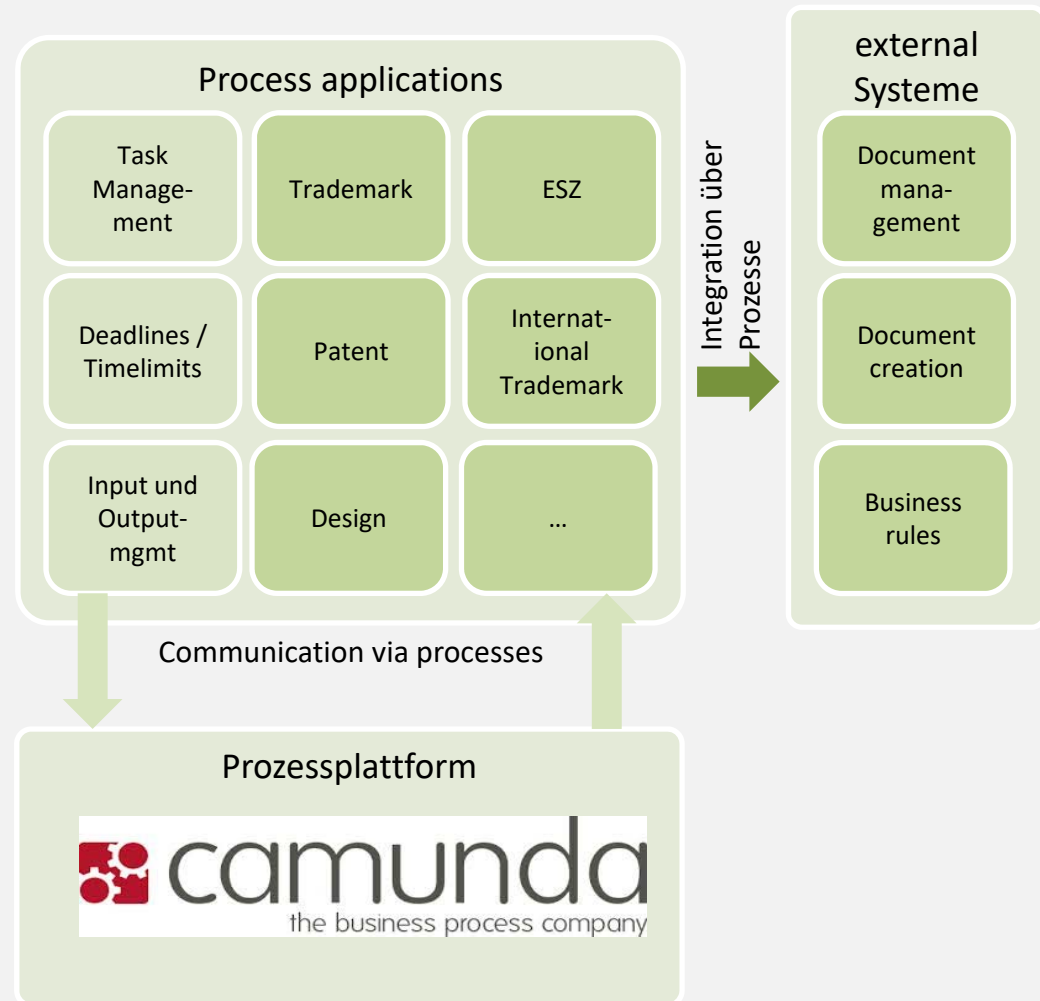
# ESV Business Architecture

## Business Application / Components



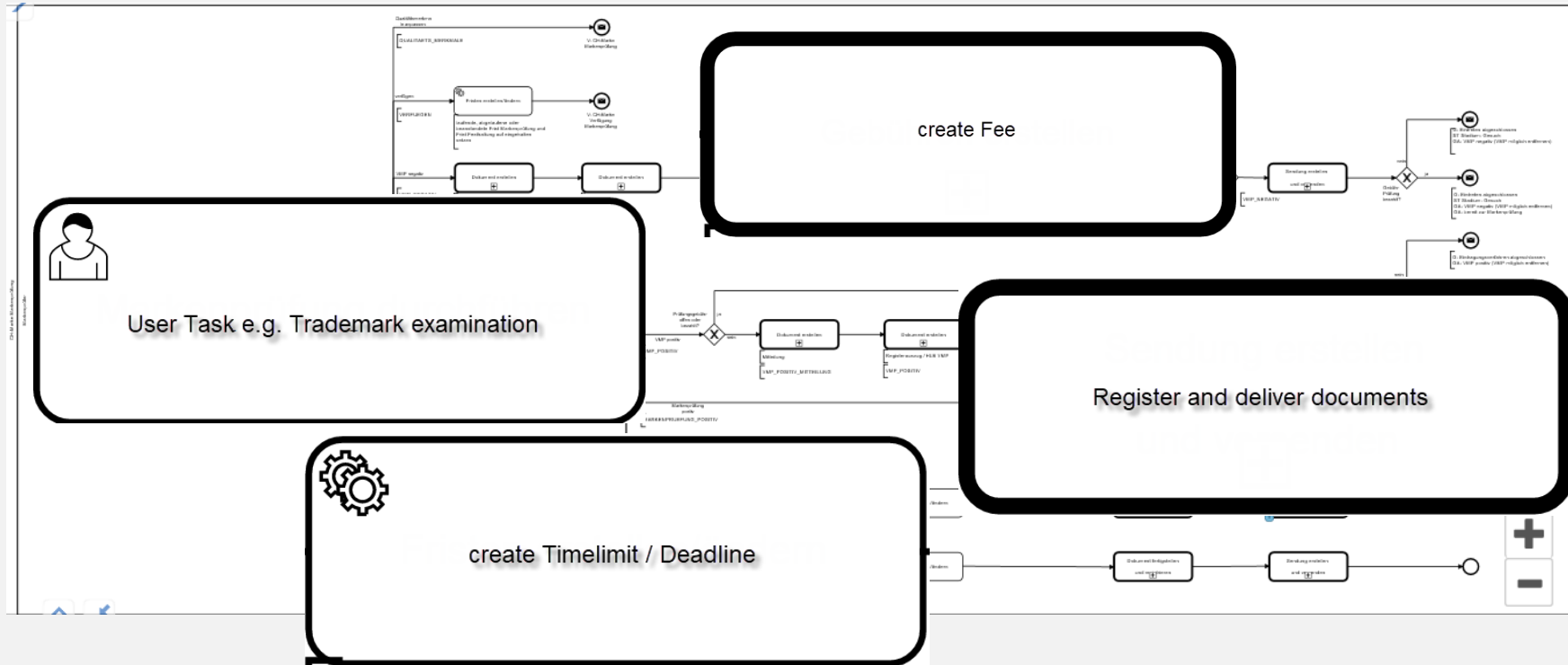
# ESV Implementation Integration via processes

- No usage of an Enterprise Service Bus
- Reduction of Implementation and operational costs
- Central and real time monitoring via Camunda





# A real process example «Trademark examination»





## A real example «Trademark examination»

... the bpmn processes are business readable and not technical workflows

... the bpmn processes do not contain business rules

... the processes are defined with a toolbox of predefined global processes (called activities) and the implementation time is short

... integration of other systems is done via processes e.g. SAP is integrated via Camunda.

... processes run for a short time only and are highly configurable. Workflow, Documents, Content of Documents, Service times, Output channels... are configurable via xml



# Task Management

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Global Task Management with extended search and filter possibilities

... automatic monitoring of service times

... enhanced possibilities to organise work individually

... central navigation to all IT Systems

... seamless integration of 3<sup>rd</sup> party business tools

The screenshot displays the IGE | IPI Task Management interface. On the left is a navigation menu with options like 'Meine Filter', 'Meine Aufgaben', 'Meine Rollen', and 'Aufgabenverteilung'. The main area shows a list of tasks under 'Arbeitskorb - Offene Aufgaben'. Three tasks are visible:

Task Description	Status	Case ID	Assignee	Due Date
Dokument bearbeiten (Markenprüfung) 12.03.2018: Dokument zum Vorgang Markenprüfung	Beanstandung	CHM - 00324/2018	hju	12.06.2018
CH-Marke Markenprüfung durchführen EG 24	Manuell gestartet	CHM - 00323/2018	hju	12.06.2018
CH-Marke Markenprüfung durchführen		CHM - 00096/2018	hju	01.08.2018

Below the task list, there are three detailed views for the selected task:

- Geschäftsübersicht:** CH-Marke - Prüfung Eintreten abgeschlossen. Prüfer: Deutsch.
- Registerdaten:** CH-Marke - Gesuch Aktiv. Test 144.2 Deponentenkonto. WSL 1.94. Inhaber: Wolfgang Fraefel. Hinterlegungsdatum: 14.02.2018. Vertreter: Jean Pierre Burki.
- eDossier:** A timeline of events including '14.02.2018 Gesuch', '14.02.2018 Prüfungsantrag', '14.02.2018 Mitteilung Eintreten', '14.02.2018 Registerantrag', and '14.02.2018 Gebühr'.



# Trademark examination task

Navigation

20.02.2018: Gestartet von qft

Systemmeldung

EB ZA

QF Test

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CH-Marke Markenprüfung durchführen - 00323/2018 Manuell gestartet Abbrechen Abschliessen WDL prüfen

### Materielle Prüfung

CH-Marke Markenprüfung/ materiell allgemein 1 Kriterien « Hinzufügen »

Vertrauensschutz + Accepté Refus 🗑️

Begründung angeben ...

CH-Marke Markenprüfung materiell Art. 1 MSchG 0 Kriterien « Hinzufügen »

CH-Marke Markenprüfung materiell Art. 2 lit. a MSchG 0 Kriterien « Hinzufügen »

CH-Marke Markenprüfung materiell Art. 2 lit. b MSchG 0 Kriterien « Hinzufügen »

CH-Marke Markenprüfung materiell Art. 2 lit. c MSchG 0 Kriterien « Hinzufügen »

CH-Marke Markenprüfung materiell Art. 2 lit. d MSchG 0 Kriterien « Hinzufügen »

CH-Marke Markenprüfung materiell Art. 21 ff. MSchG 0 Kriterien « Hinzufügen »

CH-Marke Markenprüfung materiell Art. 27a ff. MSchG (Geographische Marke) 0 Kriterien « Hinzufügen »

### Entscheid

CH-Marke WDL 0 Kriterien « Hinzufügen »


**Refus**

### Vorgang

Übertragen der Daten von a-esv.ipip.ch... Keine Selektion

Globale Übersichten

#### Registerdaten

CH-Marke - Gesuch Aktiv  
FLON   
WDL 1.3

Inhaber: AutomationFrameo...  
Vertreter: AutomationFrameo...  
Hinterlegungsdatum: 29.04.2016


#### Geschäftsübersicht


CH-Marke - Prüfung Eintreten abgeschlossen


» eAnmeldung


Prüfer: » Verfahrenssprache **Deutsch**


#### eDossier

 20.02.2018 Gesuch Antrag, Marken

 20.02.2018 Prüfungsprotokoll

 20.02.2018 Registerauszug Allgemein Gesuch

 20.02.2018 Mitteilung Eintreten

 20.02.2018 Registerauszug HLB

10 Dokumente - Seite 1 von 2 »

#### Bemerkungen

**Geschäft:** 20.02.2018  
#Trademark-Anmeldung Kontaktperson: HAL Bemerkung: Automation-Framework nach oben





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# Examination Results

- ... are structured data that can be used for Knowledge Management
- ... are centrally accessible within the Search and BI
- ... are used to automatically create documents
- ... are used to automatize processes



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## What next ...

- ... introduce Big Data technology and enhance BI and Search possibilities
- ... use the data for AI and further automatize
- ... integration of front end services to the backend processes

# ESV Vision

## Business IT - Alignment

### Small Project Team

- ... 60% less project resources
- ... 5 Software Developer,
- 1 Solution Architect, 1 technical PL, 1 PL

### Cost and risk reduction

- ... 50% less software development tasks
- ... process driven - no functional requirements
- ... risk reduction - iterative development (scrum)

### Business IT-Alignment

- ... processes, rules and documents are defined and business managed
- ... all information and content general are transparent for the business
- ... +30% of administrative processes are automatized
- ... no IT driven decisions - internal IT is supplier
- ... step-by-step migration



Source: [camunda.com](http://camunda.com)

