



FACING INNOVATION TOGETHER

European cross-border digital services with OSS

ESOP & Open Source Sweden

Paulo Ribeiro, 23th of February, 2022



Agenda

Linkare's presentation

European Commission OSS Building Blocks

A practical example

Mission

Our mission is to innovate and excel in the creation and development of solutions and services, adopting emerging Java and open source technologies that boost business' grow, transformation and competitiveness.

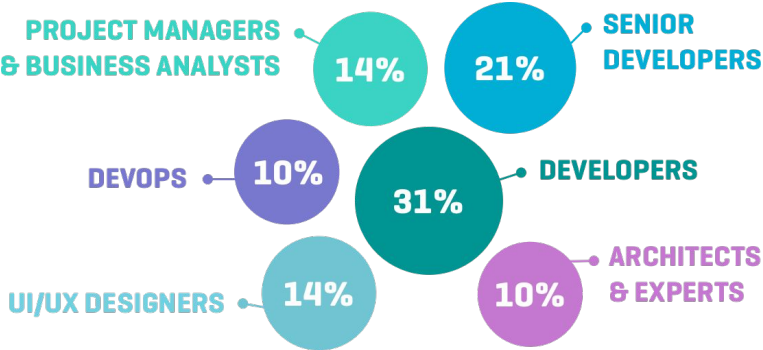
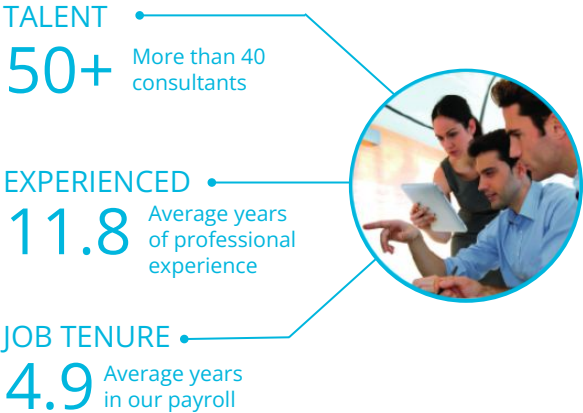
Foundations

- *Java Excellence*
- *Talented Skilled Professionals*
- *Ecademy*
- *Facing Innovation Together*

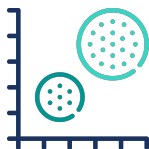
History



WHO WE ARE



Custom made solutions



Enterprise systems



Web & mobile apps



Portals & intranet



eID (eIDAS) & eSignature



Forms & simulators



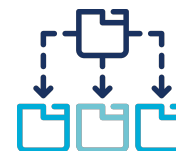
Open & big data



eDelivery

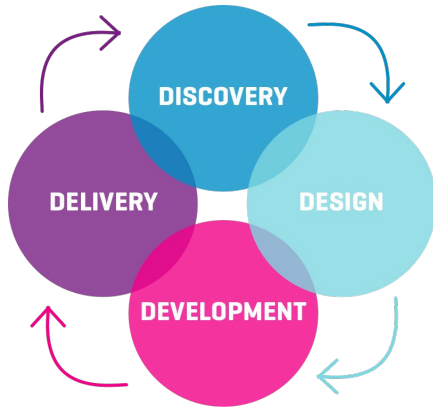


IoT



Systems integration

Services that empower your digital transformation



— *End-to-end projects* —



Innovation

Leverage digital technologies that enable the innovation of your business and operating models



IT Consulting

Studies, advice, assessment and software quality assurance



UX/UI design

Integrating UX and UI design to develop an unique user experience with your products and services

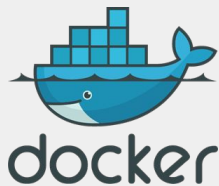
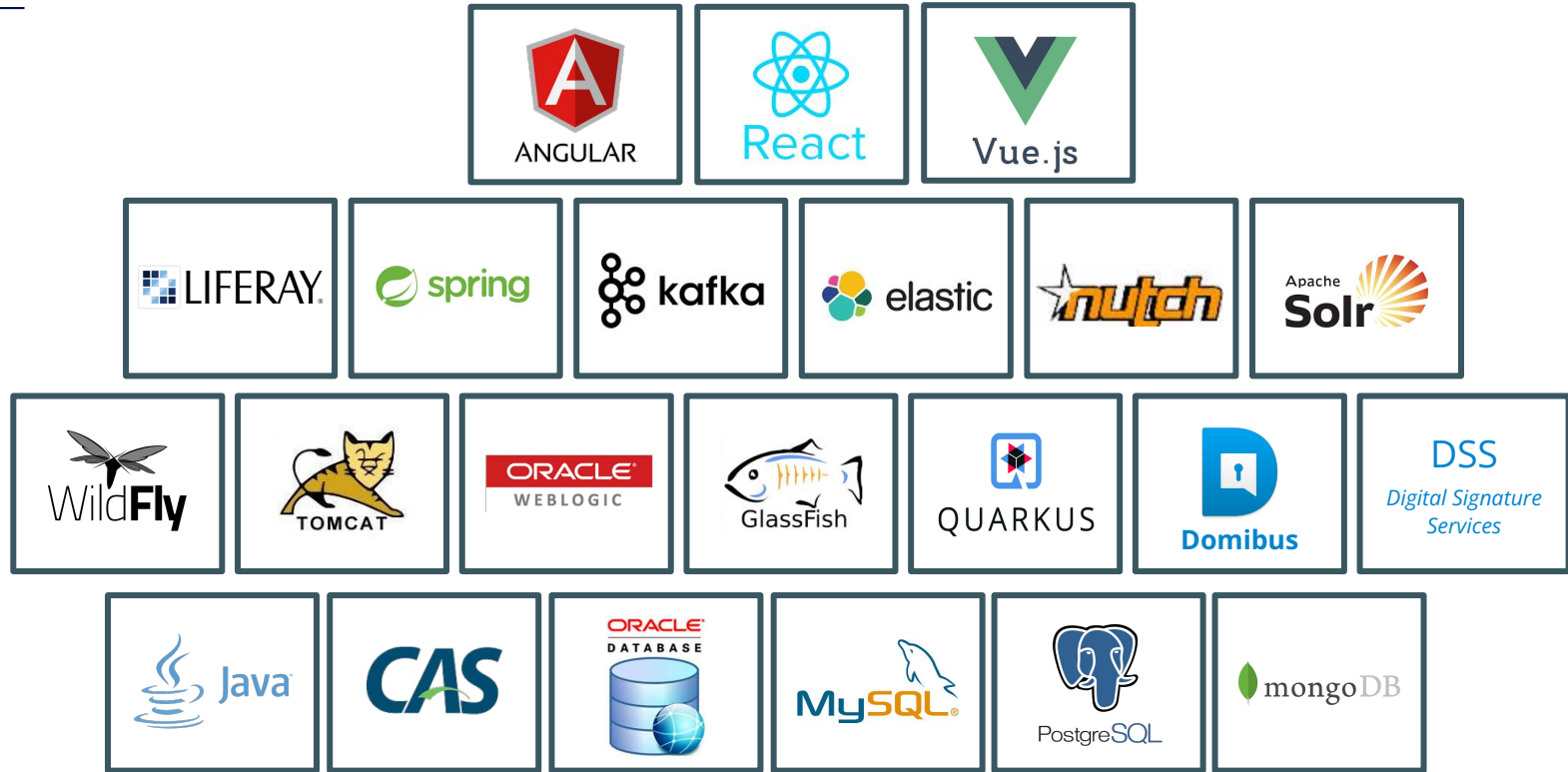


DevOps + Cloud

Speedy delivery to meet your business needs, running containers and with Continuous Integration & Delivery over your cloud / datacenter

MAIN TECHNOLOGIES

7



Belgium



Square de Meeûs 40

Close to the European Parliament



OUR OFFICES

Portugal



City center

20 minutes away from the Lisbon Airport



University Incubator

Top technical university in Portugal

WHERE WE ARE

9

Customers & Partners

Angola
Austria
Belgium
France
Finland
Germany
Greece
Ireland
Italy
Mozambique
Netherlands
Poland
Portugal
Spain
United Kingdom

Businesses

Banking & Financial Services,
Energy, Logistics, Telco &
Media and others

Public administration

Social security, justice,
finance, healthcare,
governmental agencies

European institutions

European Parliament
European Commission
European agencies

Innovation

International consortia for
innovation projects in IT



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A practical example

Building Blocks

*"A Building Block is an open and reusable digital solution. It can take the shape of a **framework**, a **standard**, a **software**, or a software as a service (**SaaS**), or any combination thereof."*

Building Blocks are endorsed by the European Commission (EC) and ensure that your digital service will be fully compatible with others on the market. EC offers support and guidance on your journey to an interoperable, EU-compliant final product or service.

Source:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Digital+Homepage>



DIGITAL EUROPE

source code

documents & specs

test suites

support

5 Building Blocks & other Open Source Software



eDelivery

Exchange electronic data and documents in an interoperable and secure way



eID

Offer services capable of electronically identifying users across Europe



Once Only Principle

Reduce administrative burden for individuals and businesses



eInvoicing

Send and receive electronic invoices with automated processing, in line with the European standard



eSignature

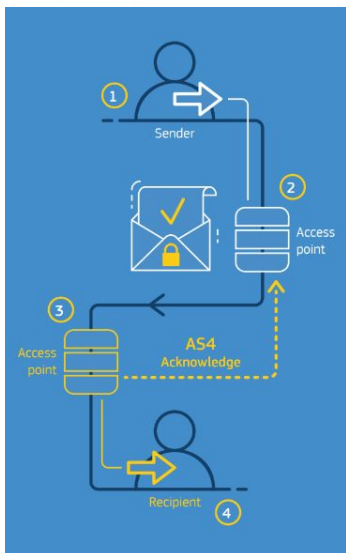
Create and verify electronic, paperless signatures





eDelivery

Exchange electronic data and documents in an interoperable and secure way



Our experience

Linkare has experience in implementation, configuration and customization of **eDelivery Access Points & Connectors**.

Projects:

- e-CODEX / e-Codex Plus: provides easy access to cross-border justice all over Europe:
 - Small Claims
- eEvidence - cross-border access to electronic evidence in criminal investigations
- BRIS - Business Registers Interconnection System

And beyond:

- Participated in the development of the File System Plugin for the Domibus eDelivery Access Point
- Domibus dockerization & Testing Automation implementation



eID

Offer services capable of electronically identifying
users across Europe

*“**eID** is a set of services provided by the European Commission to enable the mutual recognition of national electronic identification schemes (eID) across borders. It allows European citizens to use their national eIDs when accessing online services from other European countries.”*

- *eIDAS Node Providers*
- *eIDAS Attribute Providers*
- *Public and Private Service Providers*

Our experience

Linkare helped several agencies of the Portuguese public administration integrating **Authentication and eID compatible with the eIDAS**.

Projects:

- Portuguese Government Portals: Justice, Social Security, Culture, National Institute for Industrial Property
- Financial Service Providers

And beyond:

- Participating in the development of the automated test bed for eIDAS validation by the Central Services.



eSignature

Create and verify electronic, paperless signatures

*“**eSignature** is a set of free standards, tools and services that help public administrations and businesses accelerate the creation and verification of electronic signatures that are legally valid in all European Member States.”*

 **ASSINARE**

Our experience

Linkare holds significant experience in implementation and integration of **eSignature applications** using the Digital Signatures Service (DSS).

Projects:

- Justice Portal, wide range of services
- Oney Bank Portugal
- ...

And beyond:

- Contributions for the CEF DSS solution
- Expert report on the state-of-the-art of eSignature solutions, for the European Parliament.
- Linkare developed its own eSignature solution - **Assinare**.



eInvoicing

Send and receive electronic invoices with automated processing, in line with the European standard

*“**eInvoicing** is a digital solution that enables public sector contractors and companies to receive and process electronic invoices, according to the European standard (EN 16931).”*

- *Faster payment*
- *Boosting B2G eProcurement*
- *Facilitating cross-border trade*

Our experience

Linkare recently started a project for the implementation of 2 eDelivery access points with the eSPap, the Entity for Shared Services of Portuguese Public Administration, in accordance with **EU's eInvoicing directive and standards**.

Linkare's role:

- Coordination of the application for funding
- Support to Project Coordination
- Support to Requirements analysis
- Support to Design of systems' Architecture
- Support on implementation of Access Point
- Implementation of SMP (Service Metadata Publishing)
- Quality Assurance
- Testing Compliance with Central Services



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FE-AP eInvoicing

Status: Ongoing

Participants:

- Entidade de Serviços Partilhados da Administração Pública, I.P. (eSPap)
- Linkare, TI



eInvoicing

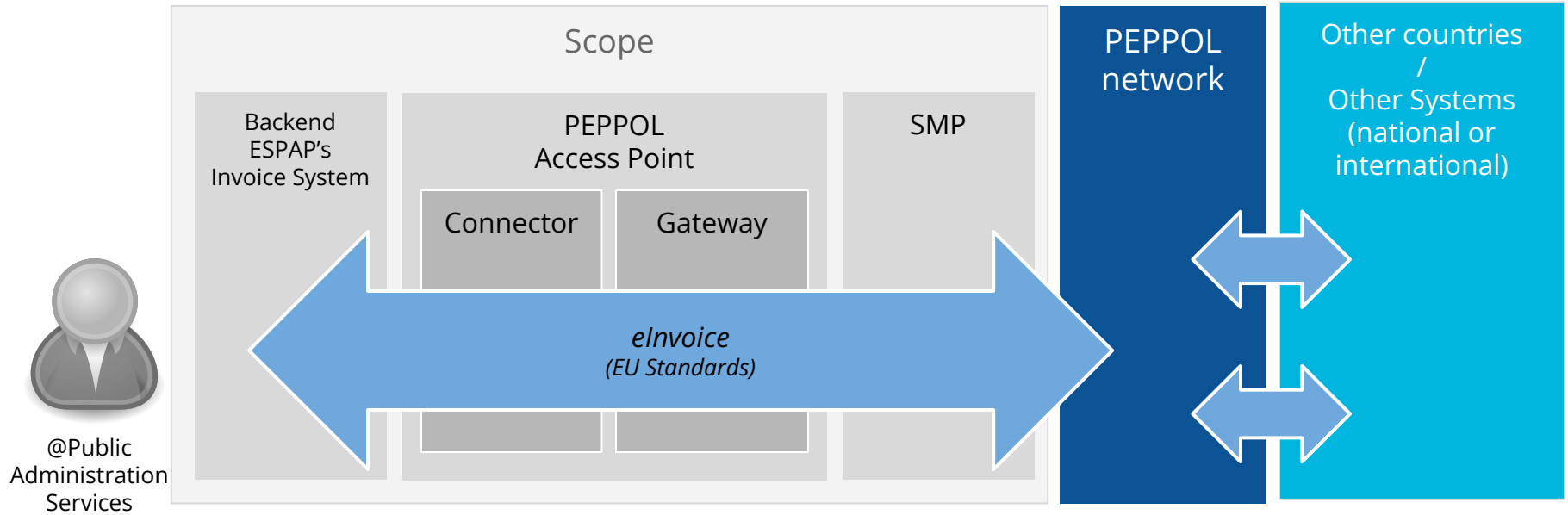
Building Block: eInvoicing

Under the Scope of PEPPOL network.



Objectives:

- Connect eSPap to the PEPPOL eInvoicing network:
 - *Establish a PEPPOL Access Point for eSPap*
 - *Implementation of a PEPPOL SMP*
- Implement support to the EU eInvoicing Standards in eSPap systems
 - *EU Standard: EN16931*
 - *Syntaxes: ISO UBL2.1 and CEFACCT CII*
 - *Compliance with Directive 2014/55/EU*







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