The SSM Digitalisation Blueprint

SRB Vision 2028

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Elizabeth McCaul
ECB Representative to the Supervisory Board
Since 2020 we have driven digital innovation forward by connecting people, ideas and projects across European banking supervision.

**BEFORE**

- Not using full innovation potential for suptech or the required collaboration
- Multiple projects not maximising the full capacity of the latest technology
- Limited approach to innovation, few projects on key technologies such as AI, RPA or NLP¹

**TODAY**

- Connected people, ideas and projects across the ECB and the national competent authorities (NCAs)
- Innovation fostered across the system and shared benefits and knowledge for all in the SSM

Implementing the SSM Digitalisation Blueprint, the vision and action plan to deliver digital innovation across the SSM

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1. AI: Artificial intelligence, RPA: Robotic process automation, NLP: Natural language processing
We defined a digital agenda for the whole European banking supervision to lead the change and implement cutting-edge technologies.

The SSM will become a leading digital practitioner among banking supervisors worldwide.

- Run an advanced innovation model in the SSM
- Foster a digital culture
- Develop a common SSM IT landscape
- Deliver and host innovative tools and systems
- Move to a modular IT architecture to provide the foundation for hosting common and advanced technology
- State-of-the-art innovative tools for supervisors in place as well as digitalised and automated processes
- Supervisors with the skills and mindset to innovate and fully engage in digitalisation
- ECB and NCAs leveraging the synergies of SSM innovation and digitalisation work through interoperable systems
- SSM as part of a global innovation ecosystem, actively engaging with academia, industry, start-ups and other authorities, in line with EU Digital Strategy
The European banking supervision Digitalisation Blueprint was developed, setting out a clear action plan to build an innovative suptech portfolio.

- **Collection** of a wide range of ideas across the whole SSM, resulting in over 120 use cases.

- **Assessment** of all ideas based on a robust innovation management framework and clustering into 42 high-value use cases.

- **Prioritisation** of 24 use cases based on business value and ease of implementation.

- **Start of the execution phase** with a staggered approach involving agile work in multidisciplinary innovation teams.

- **Execution** phase in 2021 with 24 use cases.

- **Assessment** phase in 2020 with 42 use cases.

- **Collection** phase with 120+ use cases.
We have established a solid organisational model that ensures SSM-wide collaboration to develop the use cases identified.

- Provides **strategic guidance** on innovation and digitalisation for the SSM
- Fosters **commitment to the digital transformation**
- Ensures successful project implementation **across the SSM**

- Connects **supervisors and IT experts** across the SSM
- Contributes to the identification of **business needs**
- Facilitates various **suptech initiatives**

- Gathers together **supervision, IT and suptech experts** from across the SSM
- Leverages on a diverse **skill set**, flexibility and **agile** composition
- Develops **suptech projects**
A key focus has been delivering impactful suptech tools and platforms to European banking supervisors.

Impact clusters:
- Digital collaboration
- Textual analysis
- Advanced analytics
- Process automation

Targeted SSM user coverage:
- +3,000
- +1,000
- +200
- +20

Platform for **SSM-wide digital collaboration**, code sharing, and cloud computing capabilities

**AI-supported textual analysis platform** providing **natural language processing** capabilities to all supervisory areas

**Single data lake** bringing all prudential data into one location with access for all SSM users

**Graph and network analytics platform** with advanced **visualisation** capabilities for data analysis

Tool for **machine reading and analysis** of thousands of fit and proper applications

**AI application for intelligent consistency checks** of internal model assessment reports

**Specialised model development platform for big data analysis**

Platform to fully digitalise **decision-making processes** of ECB secretariats (Supervisory Board and Governing Council)

(*) Full version to be released in 2023
Suptech tools are in high demand, with fast growth rates across all users within European banking supervision.
… having a tangible impact on their daily work

Supervision analyst from NCA

I can finally access data on supervisory reporting and from market data providers in a single place, Agora, and easily merge the datasets to perform ad hoc analyses.

Fit and proper supervisor from horizontal function

Our new core tool Heimdall saves me time and helps me to identify and prioritise more complex fit and proper assessments.

It is great to have 21 countries onboarded and to see all documents automatically translated from different languages into English.

JST coordinator

Thanks to the Virtual Lab’s chat function, my JST staff from the ECB and the NCA can finally collaborate directly.

This ensures a smooth exchange, better planning and ultimately greater SSM integration.
In addition, we have set up the Olympus project, which aims to build a modern and shared IT landscape for the entire European banking supervision.

**Olympus key targets**

01 COMMON AND CONNECTED TOOLS AND SYSTEMS

By 2030…

…allow all staff to work as ONE team thanks to integrated systems, interoperability and common tools

02 SEAMLESS ACCESS AND NAVIGATION

…promote unified access and identity management and enhance digital collaboration and navigation of IT

03 STRENGTHENED DATA-DRIVEN WORK

…simplify access to data, enable analysis and processing with a few clicks, and reduce reporting burdens

04 COMMON IT STANDARDS AND DELIVERY

…foster user-friendly and fast digital innovation through common IT standards and delivery models
At the same time, we are building a powerful innovation ecosystem for the European banking supervision.

Academia
- MIT
- INSEAD

International authorities
- Bank of England
- BIS Innovation Hub
- Monetary Authority of Singapore
- Federal Reserve Board
- Financial Stability Board

Global events and conferences
- Suptech talks
- Suptech Global Conference

Start-ups
- Applied AI
- JoS Quantum
- Squirro

Position the SSM as part of a global innovation ecosystem
We are providing supervisors with the capabilities and mindset to fully leverage the potential of suptech.
Thanks to these efforts, the digital transformation swiftly led to some significant initial achievements

**14** Suptech tools implemented two years after the SSM Digitalisation Blueprint

**1,700** Experts* trained on innovation and digitalisation via comprehensive training programmes

**4** FinTech & RegTech Global Awards from Central Banking across three consecutive years

(*) In addition, 100+ SSM leaders participated in dedicated sessions on how best to drive and promote innovation
Annex

Overview of suptech tools
Suptech tools currently live

**VIRTUAL LAB**
Cloud-based platform for SSM collaboration, offering code and mode-sharing capabilities

**ATHENA – TEXTUAL ANALYSIS WITH NLP**
Master NLP platform for the analysis of multiple supervisory documents

**AGORA – THE SSM SINGLE DATA LAKE**
The central data lake for all prudentially relevant SSM data

**NAVI – NETWORK ANALYTICS**
Self-service platform for advanced visualisations and network analytics

**HEIMDALL – FIT AND PROPER AUTOMATION**
Custom tool supporting the assessment of fit and proper questionnaires

**MEDUSA – CONSISTENCY CHECK SUPPORT FOR IMI**
Tool supporting drafting and consistency checks of internal model assessment (IMI) reports

**OSI FINDINGS EXPLORER**
Tool allowing inspectors to easily search, filter and perform statistical analyses of on-site investigation (OSI) findings

**GABI – MODEL DEVELOPMENT PLATFORM**
Platform providing the best linear models based on a target variable

**SPEECH-TO-TEXT**
Tool for automatic transcriptions of meeting and call minutes

**ROBOTICS PROCESS AUTOMATION**
Configured software for the automation of multiple repetitive tasks

**REMOTE SIMULTANEOUS INTERPRETATION**
Platform providing fast, real-time remote interpretation of meetings in different languages

**SSM SUPTECH RADAR**
Meta-project to track the state of development of suptech tools across the SSM

Note: Additional live use cases include Truffle and eSignature for SSM decisions implemented via DocuSign software.