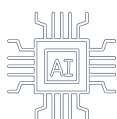


# Rising application of AI in EU banking and payments sector

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Over the past decade, the EU banking sector has undergone a profound digital transformation, embracing a broad spectrum of technologies to enhance operational efficiency and customer experience. Among those technologies, AI has become increasingly prevalent and is playing a pivotal role in reshaping banking processes.



AI refers to a broad range of machine-based systems designed to operate with varying levels of autonomy and which generally adapts to input data and context.

## Observed use cases and market trends

The EBA monitors the adoption of AI, including relevant use cases and market trends. To-date, the EBA observes 92% of EU banks are currently deploying AI, and 8% are pilot testing or discussing AI use cases.



### Profiling or clustering of clients or transactions

- Delineating customers profiles according to their behaviour, preferences or transaction/credit history
- Grouping customers according to their similarities

AI enables the analysis of very large and unstructured datasets and the identification of non-obvious clusters and patterns.



### Optimisation of internal processes

- Summarising and classifying documents
- Preparing meeting minutes
- Improving IT applications, including generating codes

AI enables automatisation of tasks in a way that improves time- and cost-efficiency.



### Creditworthiness assessment and credit scoring

- Evaluating the creditworthiness of individuals
- Assigning credit scores to individuals

AI improves accuracy and predictive power thanks to a fast analysis of complex and vast amounts of data.



### AML/CFT and Fraud detection

- User identification and verification, including remote onboarding and digital identification
- Detection of patterns and anomalies related to ML/TF and predicate offences, also for enhanced risk profiling
- Fraud detection
- Real-time monitoring of user activity and transactions

AI enables a faster, more accurate, and scalable analysis that improves speed and efficiency in the identification, verification and detection of fraud or suspicious activities.





## Risk modelling

- Detecting anomalies in transactions patterns (amounts, frequencies, counterparties) that may indicate fraud, operational errors or risks
- Analysing customer sentiment to indicate cases that warrant further investigation or risk mitigation

AI enables an improved detection of abnormal results, flaws, market trends, shifts in customers' preferences.

## Customer support

- Customer support, including chatbots
- Other customer-facing applications

AI improves the personalisation and responsiveness of customer service channels and of digital customer experience.

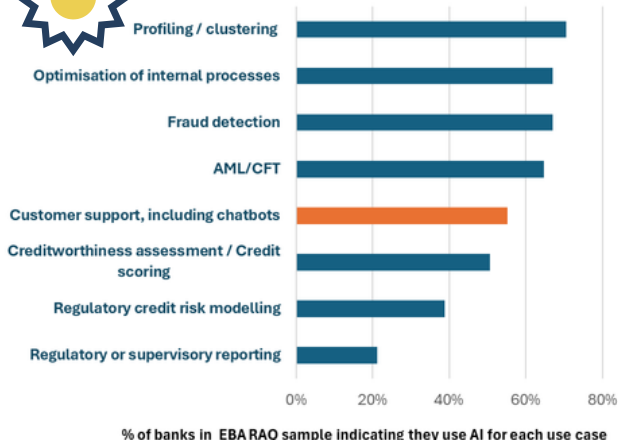
## Use of General-Purpose AI (GPAI) and Agentic AI in consumer-facing applications



The EBA monitors the adoption of GPAI and so-called Agentic AI in the EU banking sector, with a focus on consumer-facing applications. The EBA is engaging directly with market participants, consumer organisations and supervisors.

55% of surveyed banks are already using GPAI or agentic AI in consumer-facing processes. Most common uses:

- detection and notification of fraudulent or suspicious activities,
- assisting customer service agents and call centre operators to handle service requests,
- automating the provision of information or guidance for customers to self-serve for digital actions,
- automating support and financial education tools (e.g. FAQs or Q&As), and
- making digital assistants, including voicebot assistants, available for banking customers.



Relevant use cases of GPAI and AI agents are:



coding & programming



summarising & obtaining insights from documentation



drafting legal, support or marketing documents,

## The adoption of GPAI & agentic AI is ultimately subject to balancing of risks & opportunities

### Drivers



- improvements in **productivity** and **efficiency** of staff
- **optimisation** of processes
- ability to enhance **customer interactions**

### Challenges



- **reliance on third-parties**
- **quality of input data**, adequate **data governance & human oversight**
- ensuring **consumer consent** to use data in training GPAI models
- **consumer access to clear & meaningful explanations** on AI logic & risks
- **reputational and litigation risks** as a result of hallucinations or inappropriate / inaccurate information