

SupTech in Insurance Supervision

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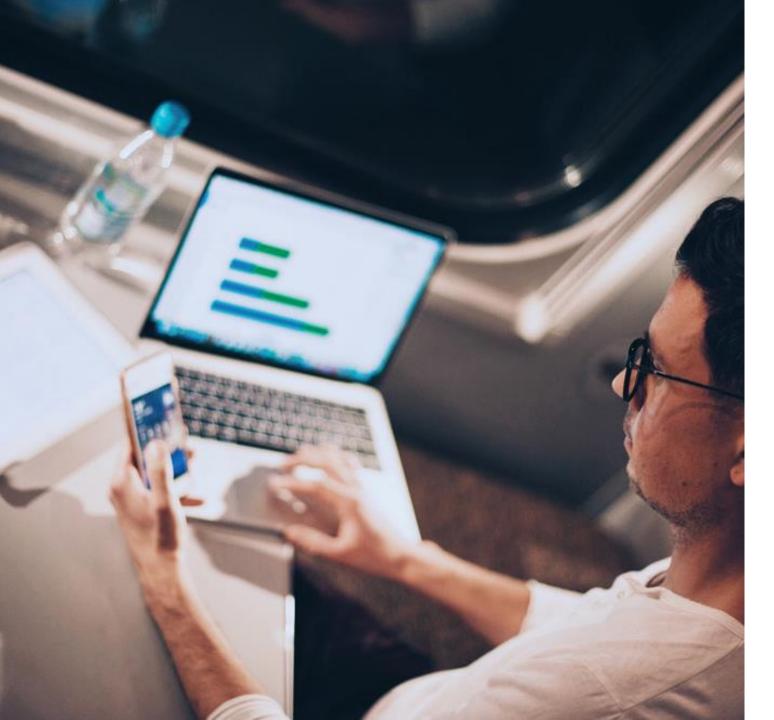




Background

The IAIS has identified digital innovation as a strategic themes due to its potential impact on the insurance sector and broader financial stability system. In December 2022 the A2ii-FSI-IAIS published a joint note to explore how SupTech tools are used by insurance supervisors, from both prudential and conduct perspectives.





SupTech refers to the use of innovative technologies by insurance supervisors to support their work

SupTech is the result of digital innovation in the financial system resulting from the emergence of advanced technologies, such as big data, artificial intelligence (AI) / machine learning (ML) and other new technologies.

Overview of SupTech in Insurance Supervision



22 insurance supervisors, from both prudential and conduct perspectives shared their experiences with SupTech tools



38 SupTech tools were identified and classified according to their intended use.

Prudential supervision tools are similar as those used by the banking sector, eg e automated dashboards that show key risk indicators

Data collectionrelated tools and
SupTech analytics
such as NLP may be
used for both

Conduct tools are specific to the insurance sector, eg gathering information from insurers' websites and social media platforms to identify misselling practices



SupTech tools in practice

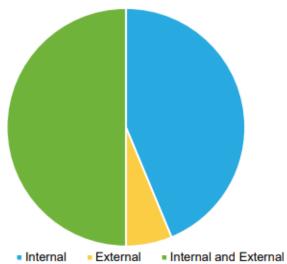
Status

The majority of the SupTech tools for insurance supervision are either operational or in development

Experimental In development Operational

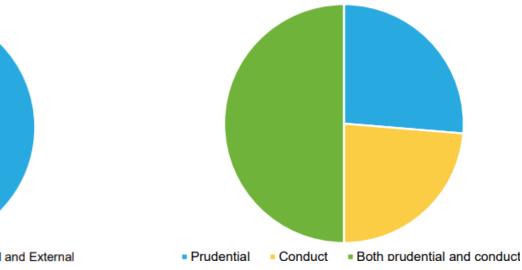
Who developed the tools?

Most of these tools were or are being developed internally or with the help of external parties



Classification according to their intended use

Half of the tools may be used both for prudential and conduct supervision, the rest are almost evenly split between prudential and conduct





From data collection to analytics: Use cases

Prudential

Allow for more frequent and prompter monitoring

- Singapore analysis tool of interconnectedness between insurers and reinsurers
- France automated analysis of technical provisions
- Switzerland dashboards to analyse and visualise solvency risks

Conduct

Aim to improve the compliance assessment of insurance distribution-related activities, and classification of consumer complaints

- EIOPA tool for collecting and analysing insurance-based investment data
- Italy tool to assess complexity and readability of insurance contracts
- France/Korea transcribe recordings of telemarketing

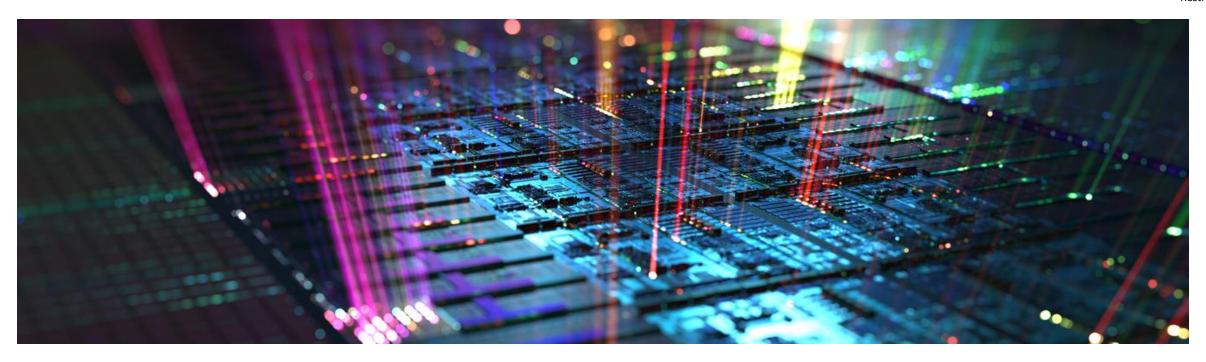
Prudential & Conduct

These typically involve the use of NLP, for example, to analyse insurers' reports or to comb through social media posts.

- Data repository systems
- Regulatory compliance applications
- Notification systems
- Pattern recognition tools

EMDE are mostly using commercial off-the shelf suptech solutions for data collection and regulatory reporting





Developing and using Suptech solutions

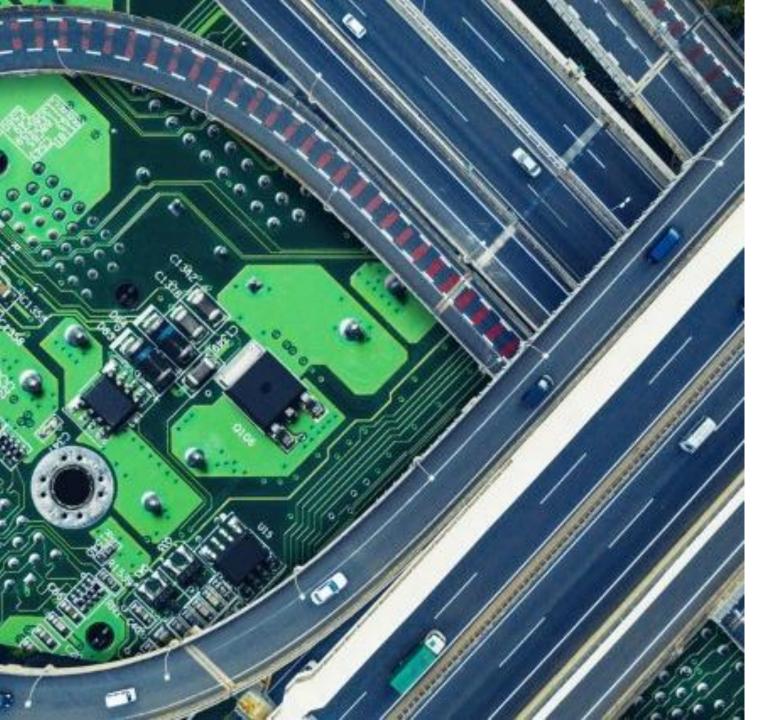
Approaches

- Top-down vs bottom-up approach
- Using innovative channels to solicit ideas from supervisory staff
- Foster a culture of innovation
- Measure efficiency and effectiveness

Challenges

- Identify the appropriate SupTech
- Resources to follow-up on findings from the tools
- Culture-related challenges
- Data quality, accuracy and availability + technology
- Reputational risk and practical implementation





Insurance supervisors are continuing to explore SupTech tools

Investment in these technologies require:

- Corresponding digital and data expertise;
- A culture of innovation based on datadriven decision-making, openness to experimentation and challenging "legacy thinking"
- Capacity building; and
- Acquiring new talent and increasing the data and technical literacy.

