Process Mining and Audit

Mining Prep

Data

Transform

ID	...	...
001	...	...
002	...	...

Logs

Optimize

Monitor & optimize

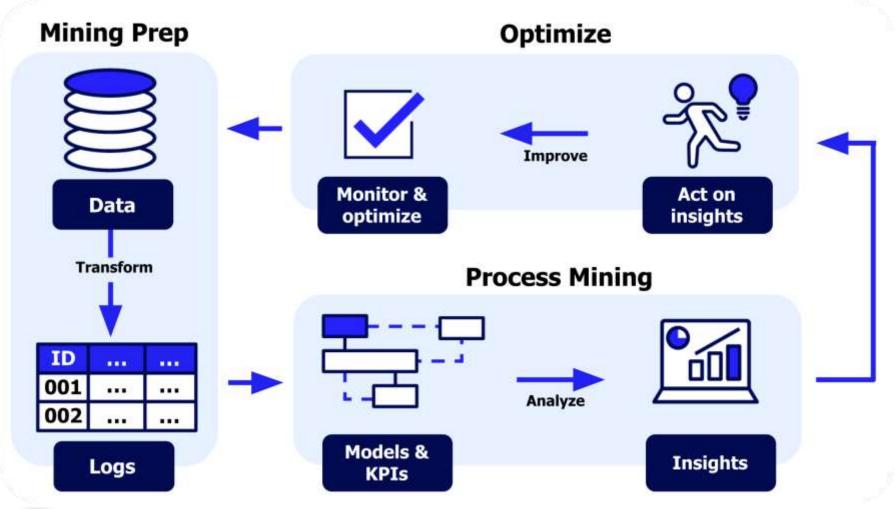Improve

Act on insights

Process Mining

Models & KPIs

Analyze

Insights

Process mining

Applies data science to
- ✓ Discover
- ✓ Validate and
- ✓ Improve workflows.

Professor Wil van der Aalst is considered the founder or 'Godfather' of process mining.

Use cases

Organizations can mine log data from their information systems to understand the performance of their processes, revealing bottlenecks and other areas of improvement.

Techniques/ steps involved

(1) Process discovery

(2) Conformance checking

(3) Process reengineering

(4) Operational support

Usage in auditing

- ✓ Allows auditors to do a detailed walkthrough of the transaction cycles.
- ✓ Auditors can replace manual audit procedures, such as reperforming transaction flows or testing controls using sampling, thereby enhancing audit effectiveness and efficiency.

Advantages of process mining in audits

- ✓ Reduce Compliance Costs and Uncover hidden inefficiencies and bottlenecks;
- ✓ Gain access to real-time surveillance of business transactions.
- ✓ Make use of pre-defined analyses for an easy and professional reporting mechanism.
- ✓ Provide high precision and full transparency of all running processes.

Thank you!

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- ✓ Auditing of financial and systems
- ✓ Cloud awareness
- ✓ Certified Information Systems Audits

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