Selecting Key items with Process Mining

"Software voor auditing" Symposium 26 mei 2021

Limperg instituut, Stuurgroep Statistical Auditing

The better the question. The better the answer.
The better the world works.

Agenda

Part 1 (20 minutes)
- Introduction Angelique Koopman & Ruben Post
- Why Process Mining in auditing?
- Demo Process Mining tool
- Anomaly detection **exercise** with Process Mining

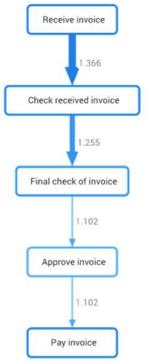
Part 2 (10 minutes)
- Feedback exercise to select key items
- What can we learn from this?

Why Process Mining?

The ”textbook” process

20%

The different process variants in which the most common process is visualized first.



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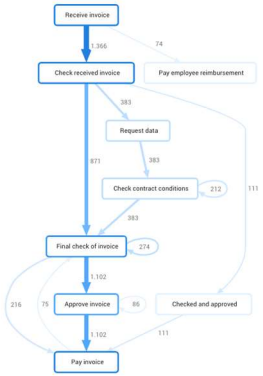
What people think

40%

See less common paths and activities. Ideally suited to detect anomalies and inefficient process variants.



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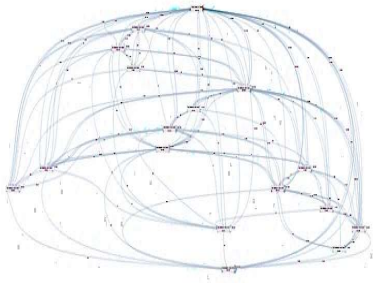
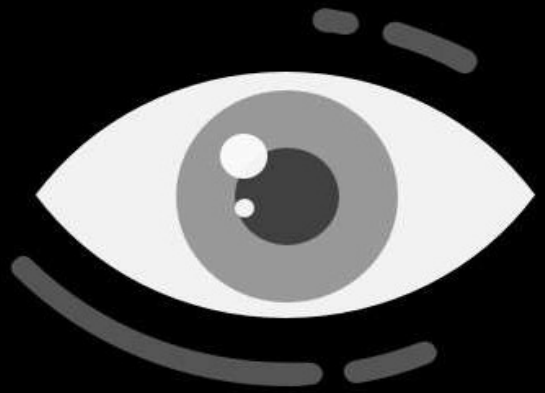
The reality

100% data coverage. No activity escapes the eye! You can zoom in detecting long-term or unusual process paths or defects that would otherwise remain hidden.



What is Process Mining?

If you think, that you just have got only LIMITED INSIGHT into the as-is processes and their weaknesses.



A demo of a Process Mining solution

PROCESS MINING can SWITCH ON THE LIGHTS and empower you to see EVERYTHING in the real processes

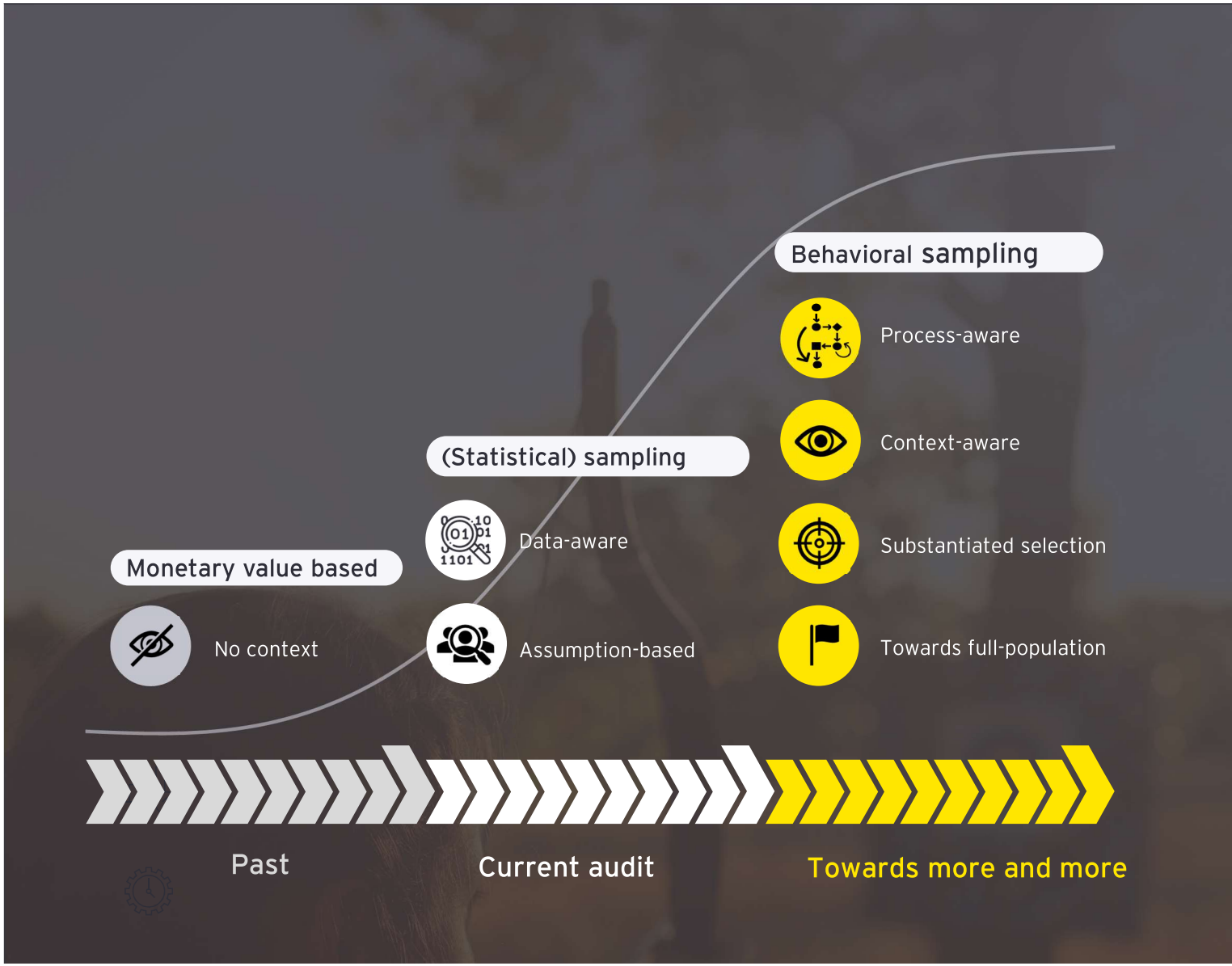
Process Mining in Auditing

Learning by Doing

Selecting Key Items

Key item selection

Key items are transactions that might have a **higher likelihood** of **containing misstatements**



Hands-on Process Mining exercise

Selecting Key items

Selecting Key items with Process Mining (part 2)

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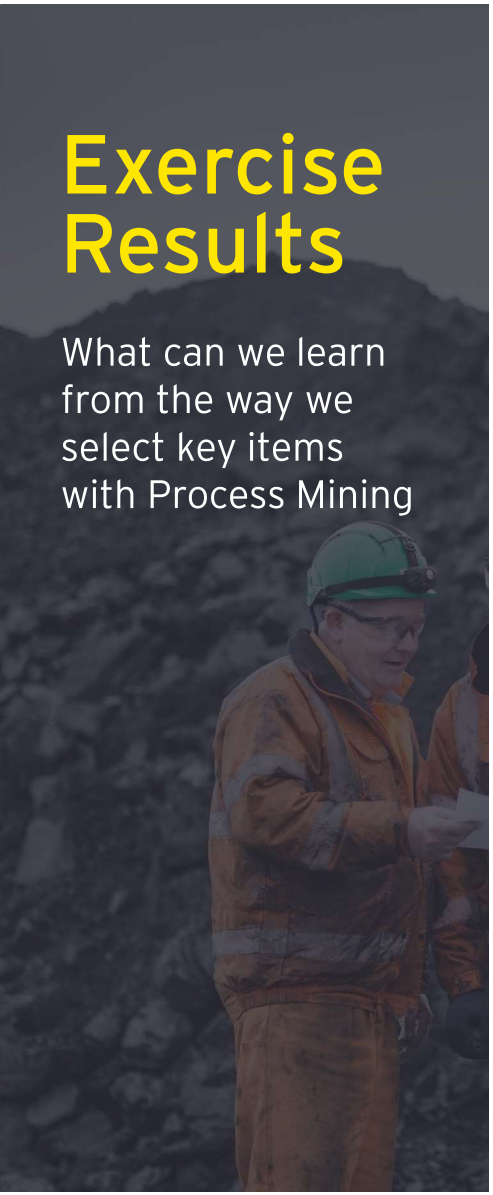
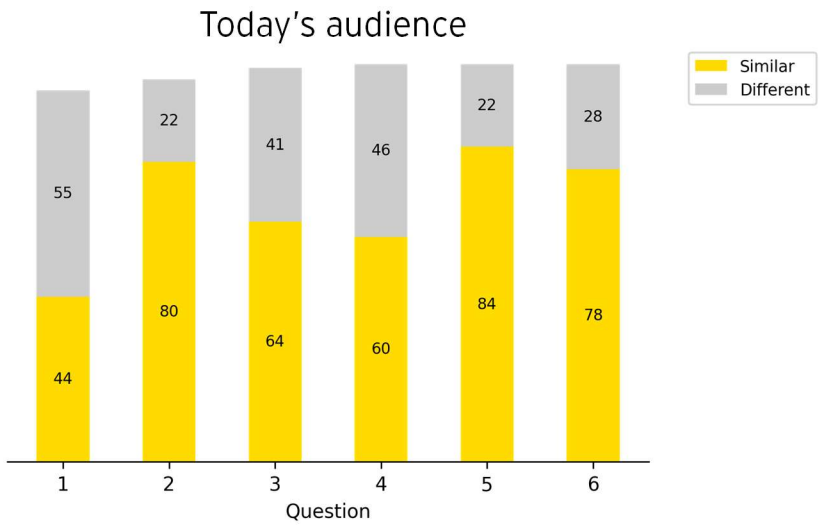
Exercise Results

What can we learn from the way we select key items with Process Mining





66 %

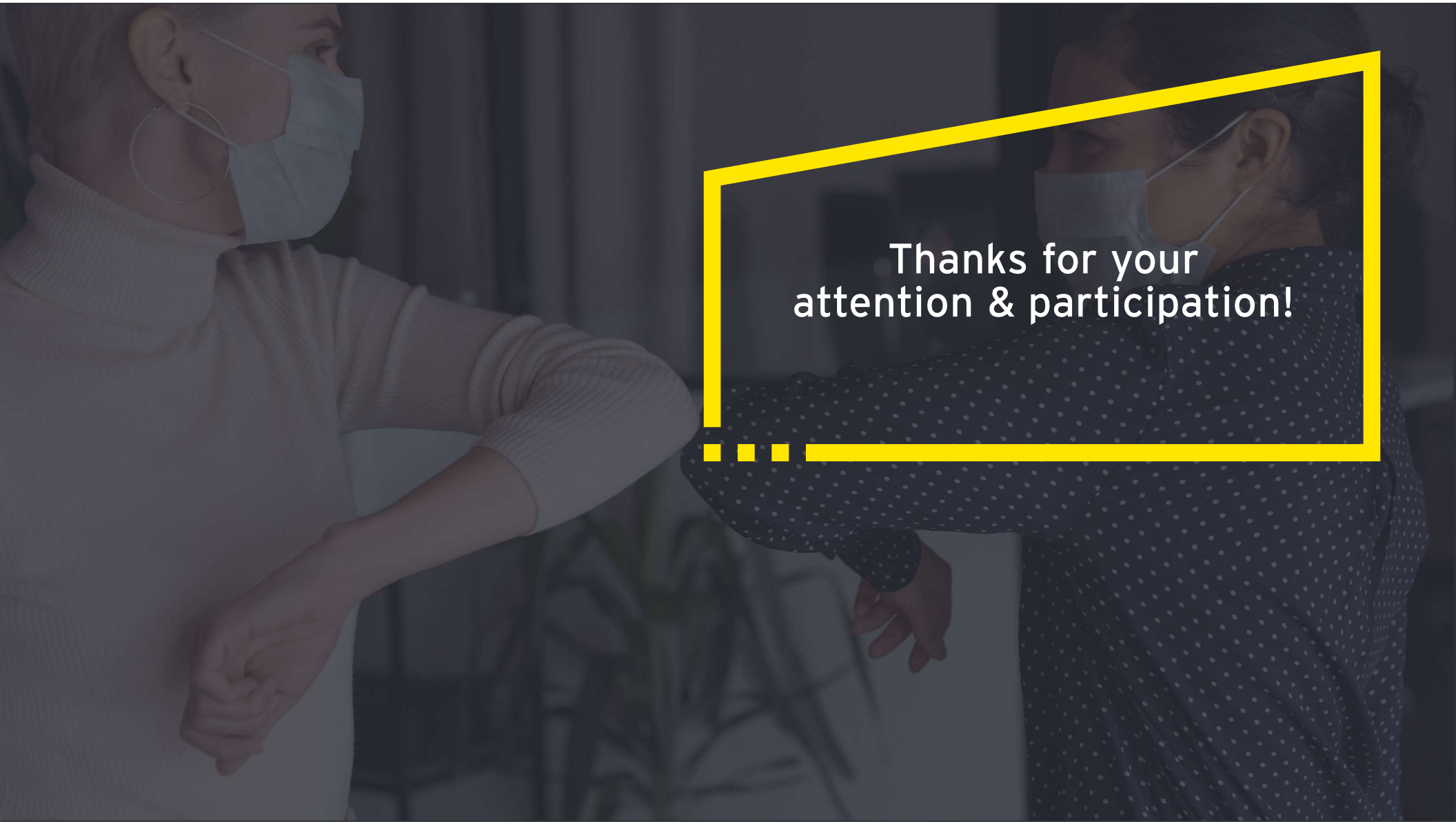
of the cases were labeled the same by you and the algorithm

54 %

of the cases the algorithm gave a **low** score were chosen as key items

77 %

of the cases the algorithm gave a **high** score were chosen as key items.


Thanks for your
attention & participation!