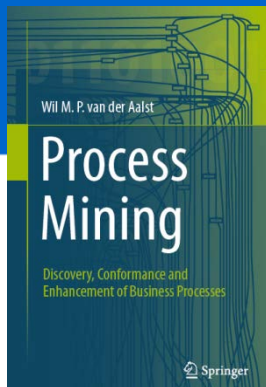*Process Mining: Data Science in Action*

Mining Lasagna Processes
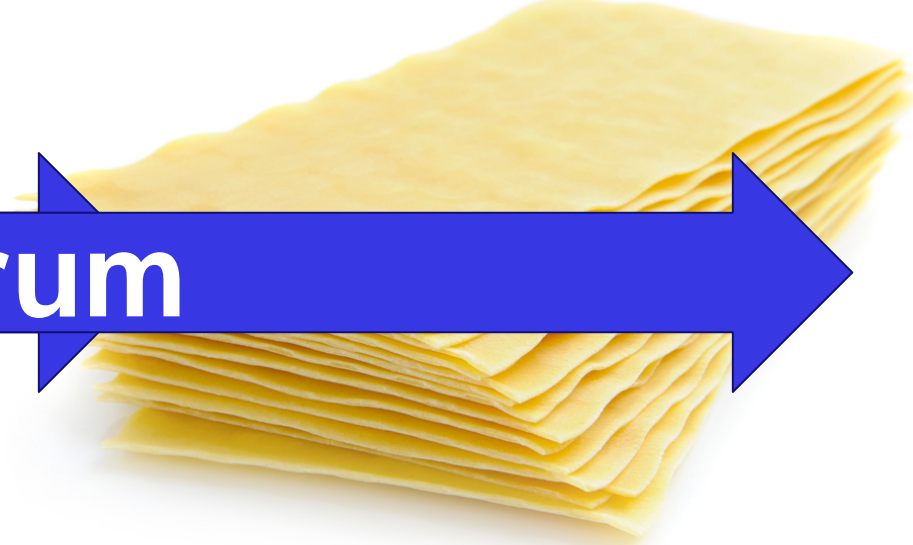
prof.dr.ir. Wil van der Aalst

www.processmining.org

Technische Universiteit
Eindhoven
University of Technology

Where innovation starts

spectrum

unstructured
irregular
flexible
variable

structured
regular
controllable
repetitive

Today's focus

Rule of thumb: A process is a Lasagna process if with limited efforts it is possible to create an agreed-upon process model that has a fitness of at least 0.8, i.e., more than 80% of the events happen as planned and stakeholders confirm the validity of the model.
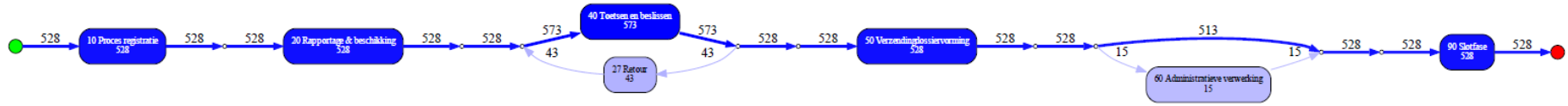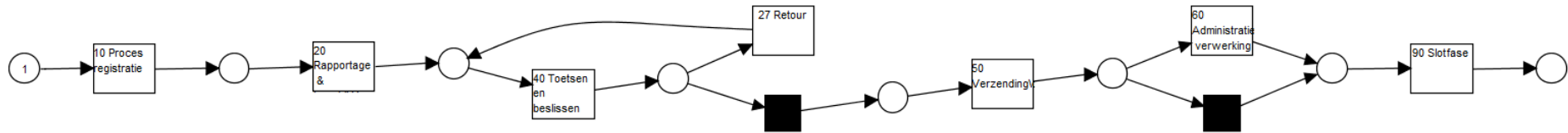
Example of a Lasagna process
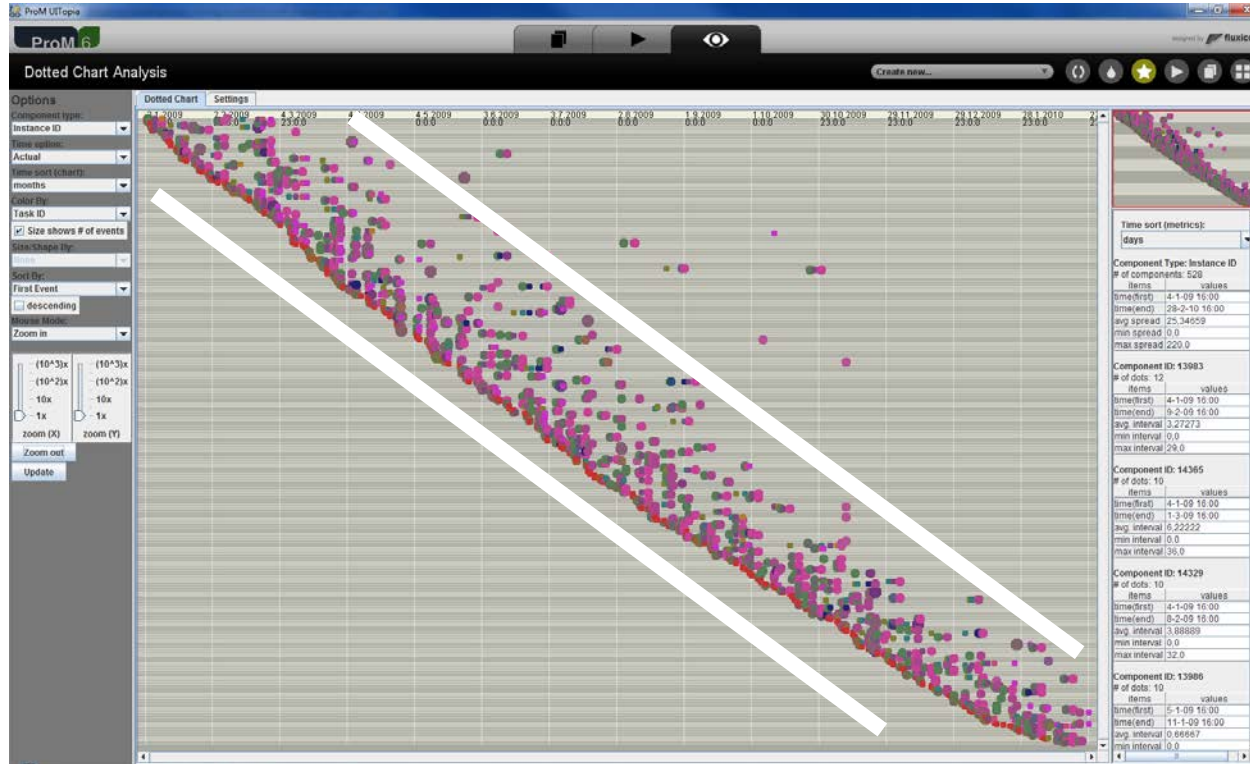
- **WMO process of a Dutch municipality.**
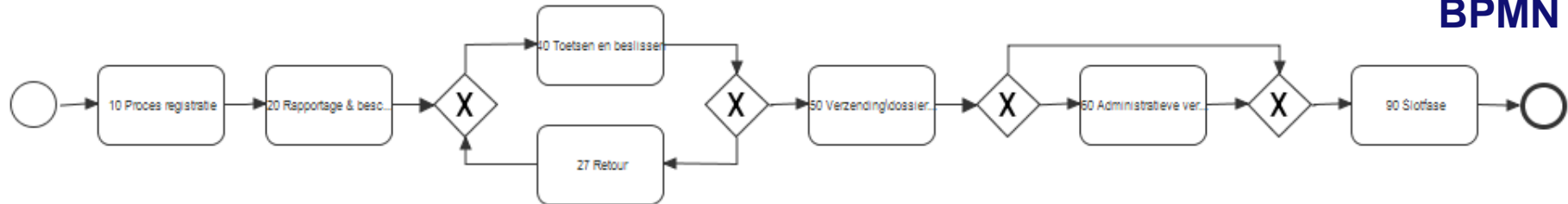- **528 requests for household help.**
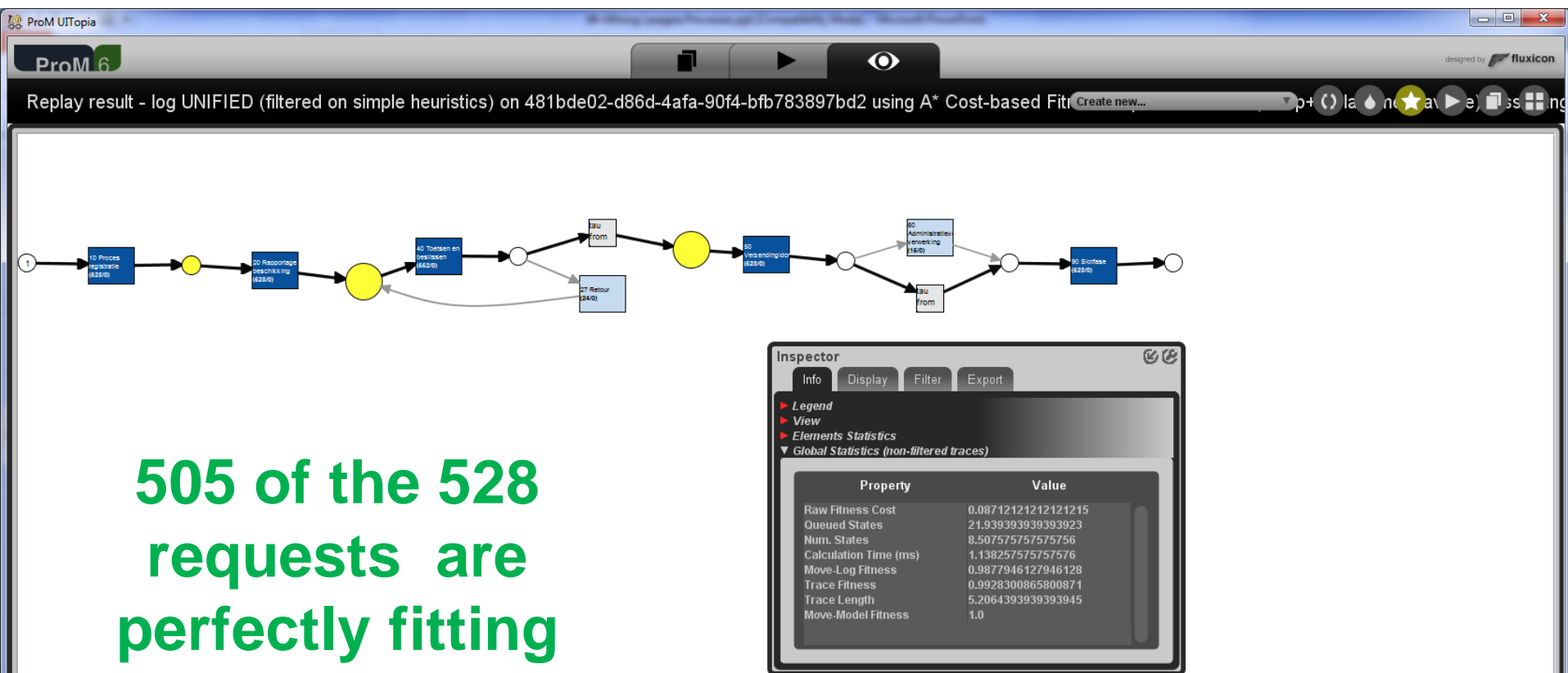- **5498 events.**

Process model

Inductive miner
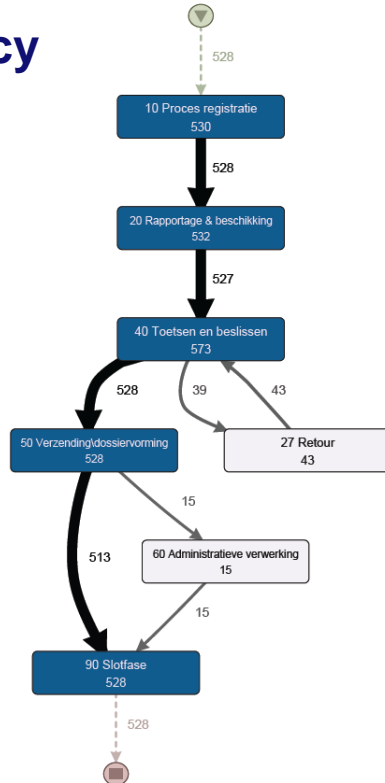
Petri net

BPMN

Fitness is close to perfect

505 of the 528 requests are perfectly fitting
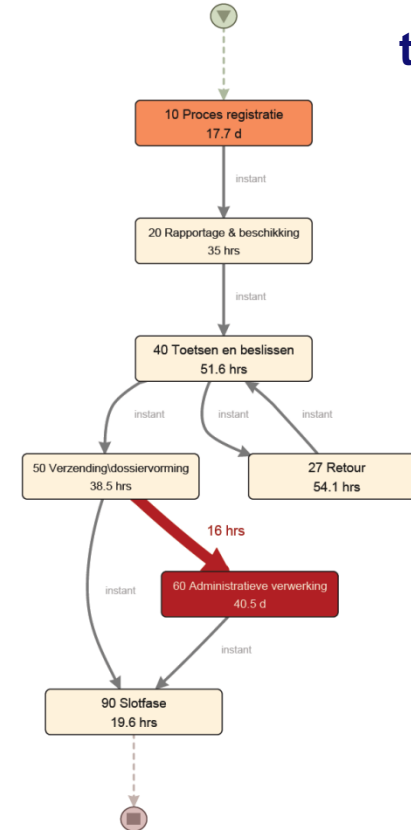
Performance analysis

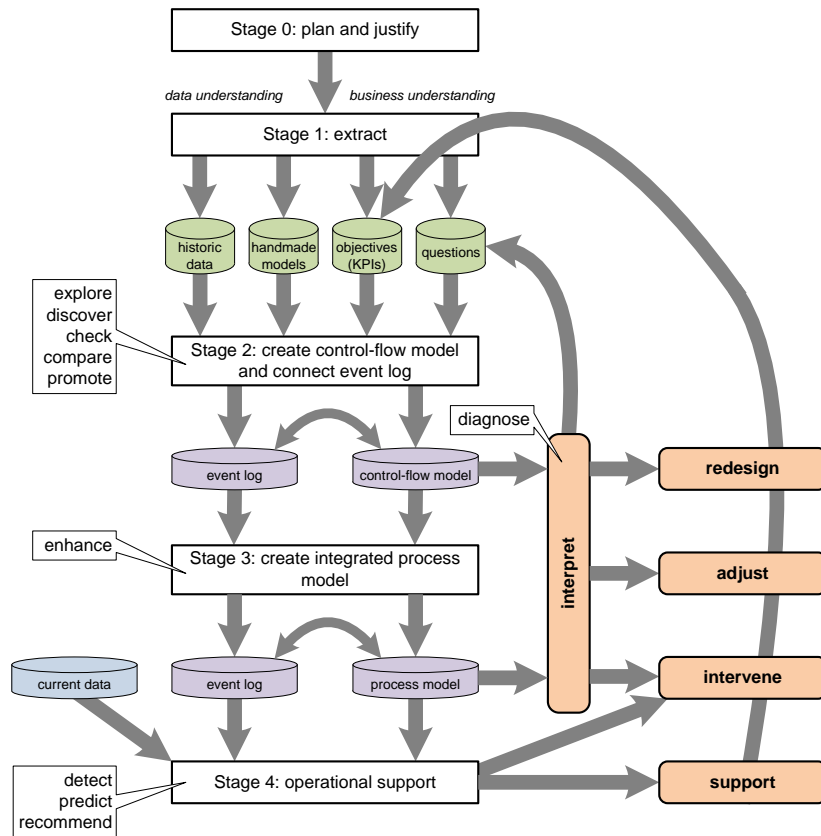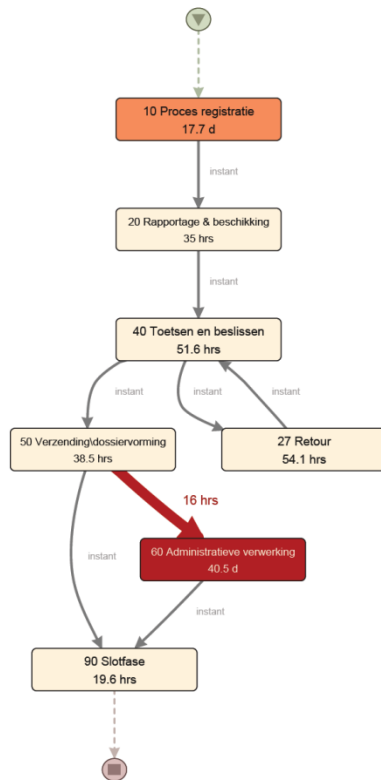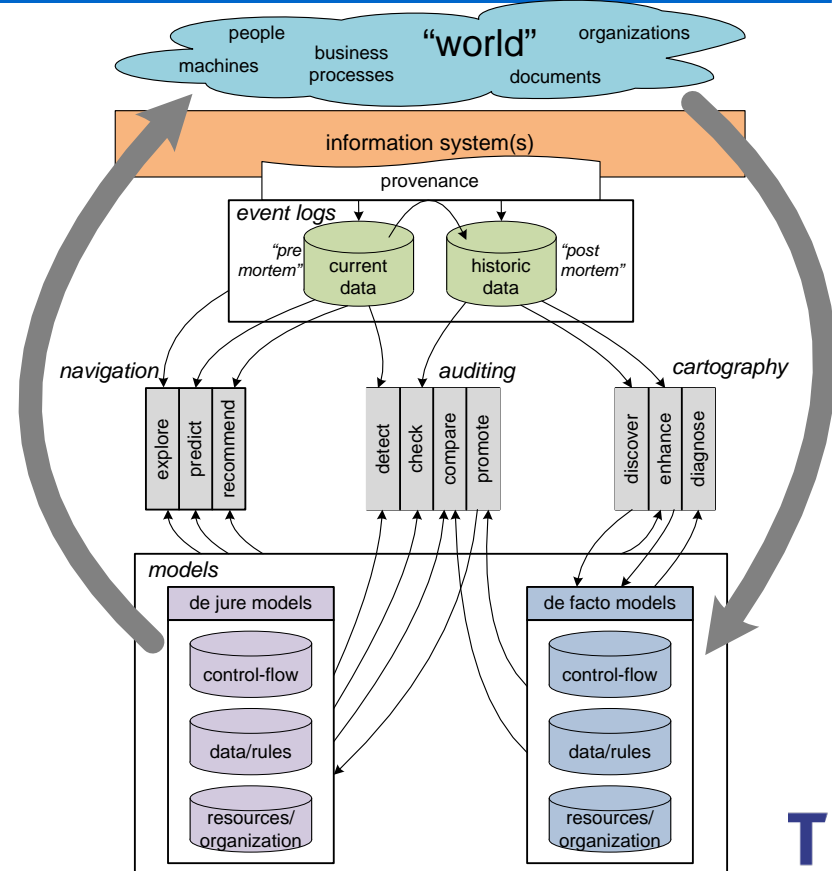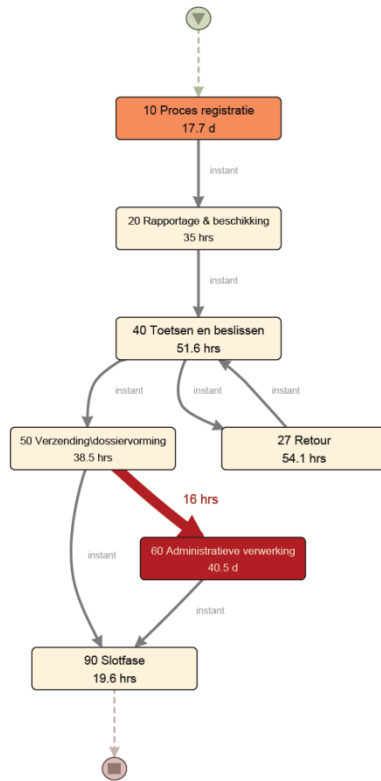# Disco provides similar results for this process

frequency

time

All stages of the L* lifecycle model can be visited for such a Lasagna process

All 10 process mining activities can be performed for Lasagna processes

Lasagna processes

- **Easy to discover, but it is less interesting to show the "real" process. (close to expectation)**

- **Whole process mining toolbox can be applied.**

- **Added value is predominantly in more advanced forms of process mining based on aligning log and model.**

Wil M. P. van der Aalst

Process Mining

Discovery, Conformance and Enhancement of Business Processes

② Springer

TU/e