

---

Norm Engineering Conference 2026

# State of the Art in Norm Engineering and AI



**Maaïke de Boer**  
TNO

# State of the Art in Norm Engineering and AI

Maaïke de Boer | TNO

# Content



- Background: Goal of the Inventory
- First Results
- Questionnaire

# Goal of the Inventory

- The possibilities of the use of AI applications in working with rules has increased enormously in recent years
- Initiatives have emerged in several places
- We are making an inventory of the state of the art of Norm Engineering and AI (mainly NL)
  - Literature Search
  - Interviews
  - And your input!

# Some First Results (Technical)

- AI is used more and more in Norm Engineering
  - A shift from more symbolic and sub-symbolic AI towards Generative AI
  - A lot of Generative AI (LLMs) for many applications
  - Retrieval Augmented Generation (RAG) setups for (mainly) chatbots
  - Some (preliminary?) work on Agents
- But also the necessity to have structured data, such as the law and version control
- Formalization – combining LLMs with knowledge to prevent hallucinations
- Interoperability – reuse and exchange of f.e. rules

# Some First Results (Applications)

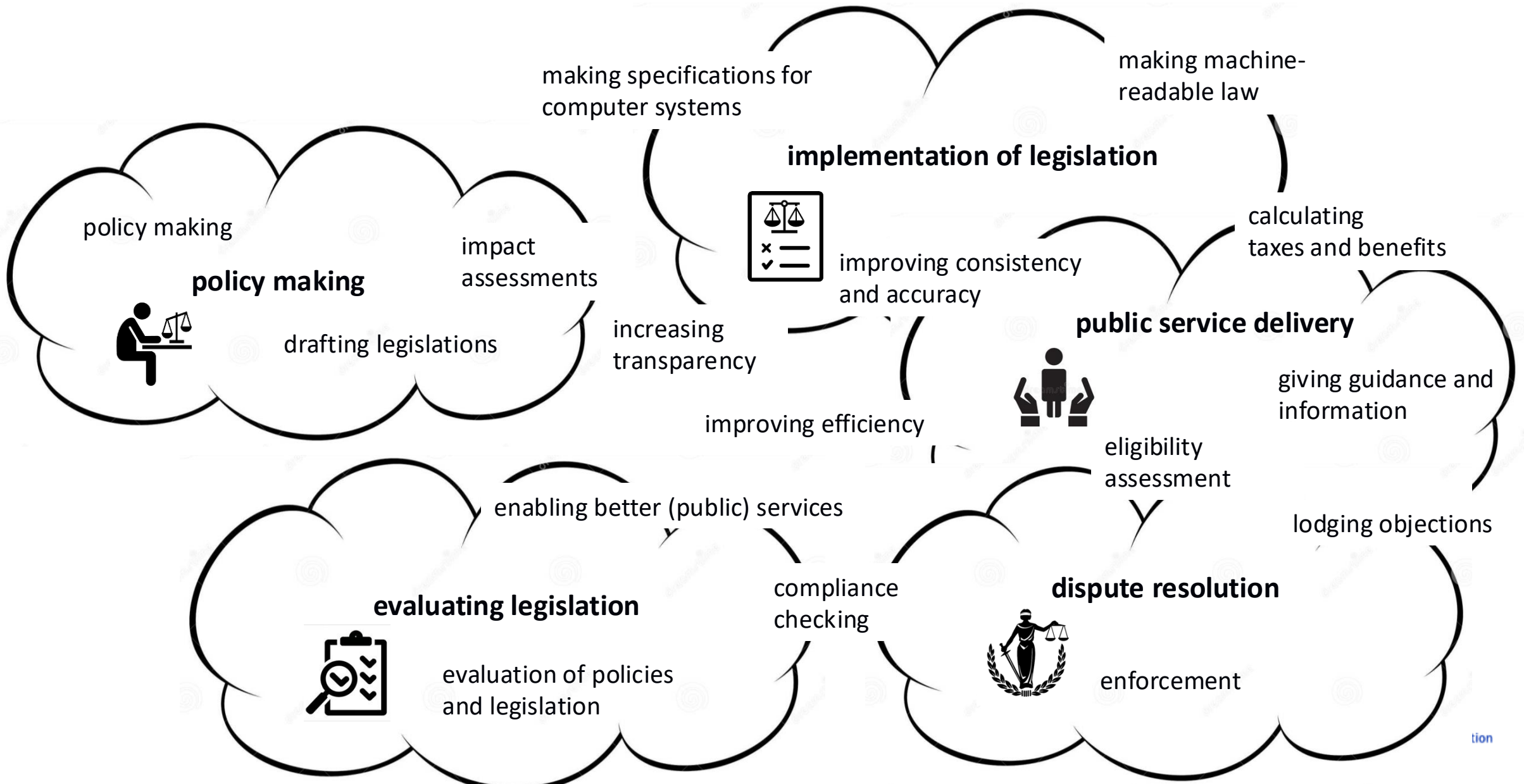
implementation of legislation

policy making

public service  
delivery

evaluating legislation

dispute resolution



# What do you think?

- Menti.com
- **1383 3995**
- <https://www.menti.com/alryhjwyex6z>



# Thanks!



**Maaïke de Boer**

maaïke.deboer@tno.nl