

Scanfiets / Scan bike

Public space object detection
scanning vehicle platform

HUMAN VALUES FOR SMARTER CITIES

Designing Understandable Machine-Vision
Systems in Public Spaces



Mike de Kreek

- Why the scan vehicle?
- What will it be for?
- How is it developed?
- How does it function?



City of Amsterdam works hard to keep the city

livable, clean, safe and well-maintained

- City of Amsterdam invests in technology to improve this
- Agenda Digital City: responsible use of technology
- Focus on rights and stakes of the “Amsterdammers”
- (personnel, priorities, ...)

Scan bike → clean and reputation

Start with object recognition of heavy containers on vulnerable canal walls without a permit.

What will it be for?



Scanfiets fietst door de stad



Automatische herkenning objecten

beelden met herkend object

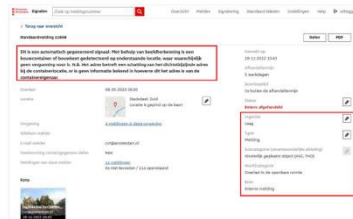


gemeente Amsterdam

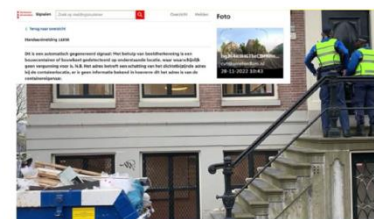
Doorsturen beelden met containers



Koppelen, prioriteren en melden



Controles meldingen



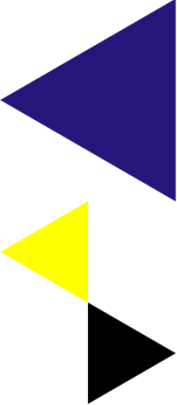
Handhaver doet onderzoek op straat

Collaboration for responsible scanning and recognition

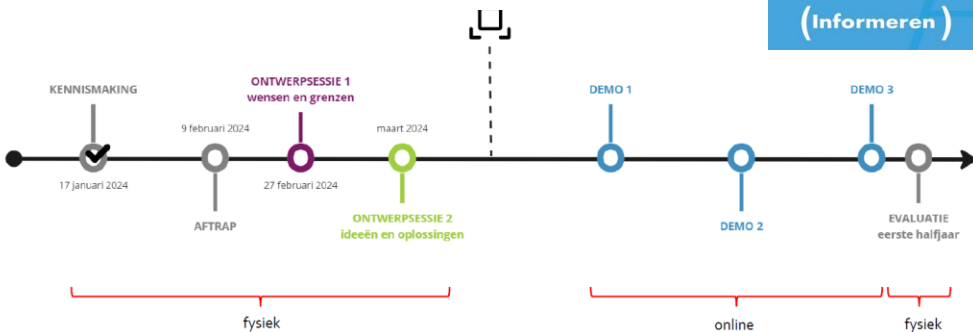
- Design Thinking project
- Citizen panel/ researchers/ designers
- Project team City of Amsterdam
- Various roles
- One year period

Aim

- Stakes: Wishes and limits
- Quality: translate stakes to ideas and solutions
- Voice: collect possible use cases among Adammers



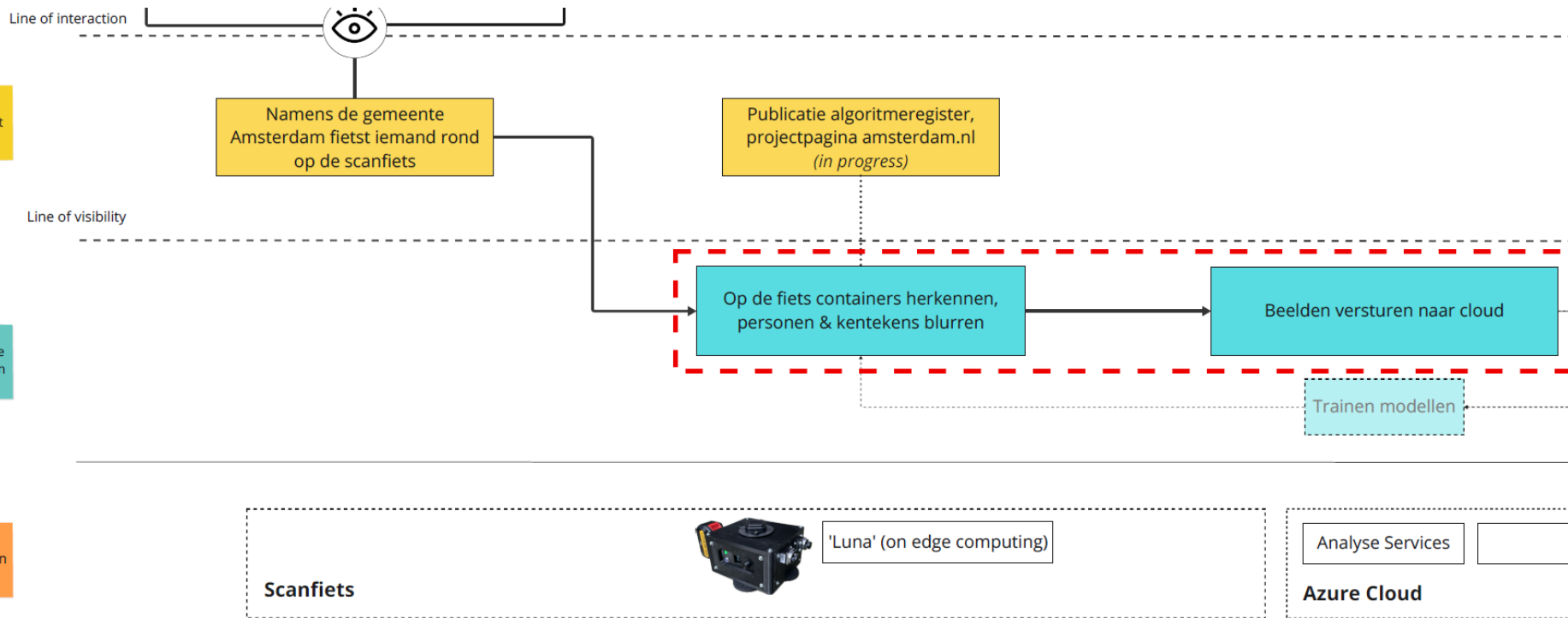
How is it developed?



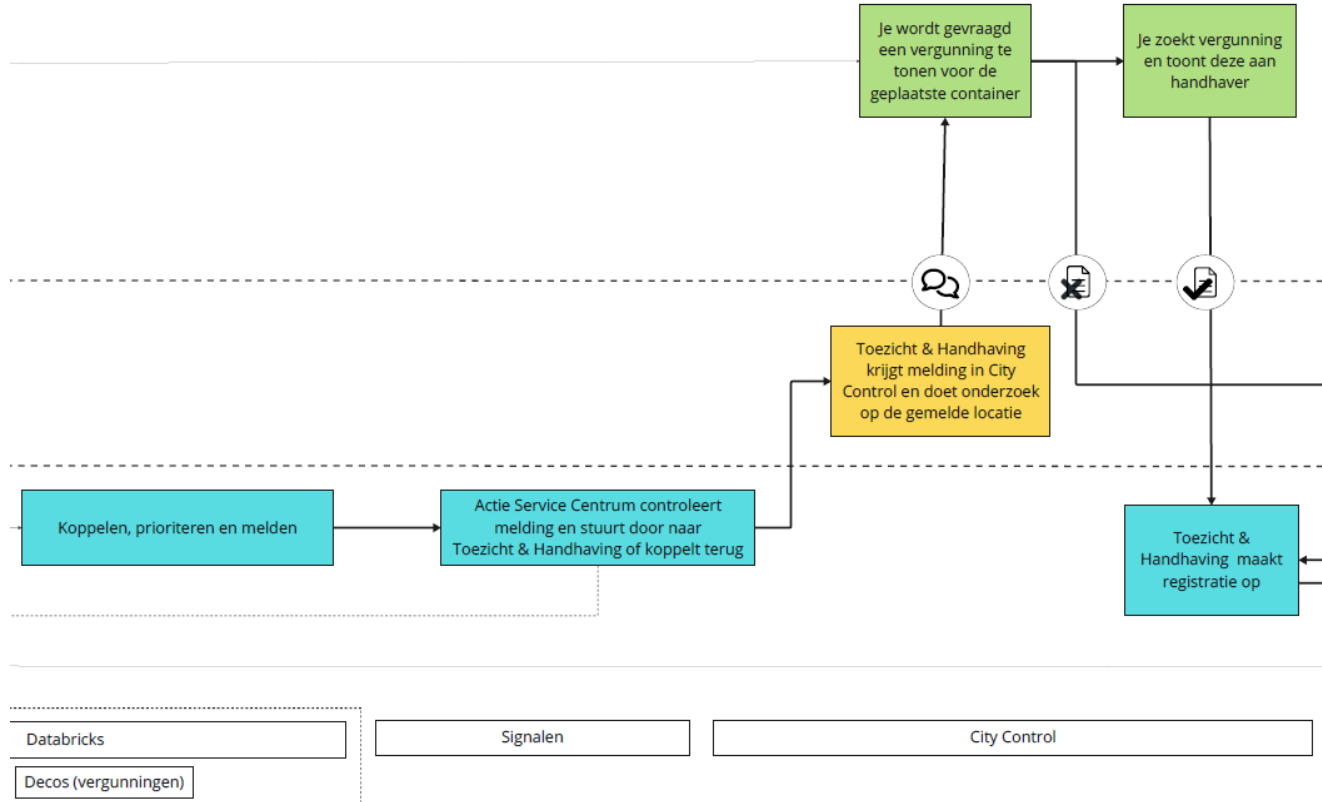
✘ Gemeente
✘ Amsterdam
✘



How does it function?



How does it function?



How does it function?

