Innovation

Driven by the city of Antwerp

ENABLED BY ACPAAS

Antwerp

Population: 520.000 citizens

Most populous city of Belgium

Port of Antwerp, second in Europe

Area: 204.51 km2 (78.96 sq mi)

Ca. 16.000 coworkers

Elections in 2018 (every 6 years)

Antwerp

Antwerp City Platform as a Service

A central multi-use platform as a base for digital services

ACPaaS

Platform's principle

Engines

ACPAAS ENGINE PORTFOLIO

Digital Experience front-end

- Chatbot Widget
- Virtual Assistant
- AR / VR
- Messaging
- Voice & Speech
- UI components
- Digital Twin

Edge things

My ACPaaS

GxP

- GENERIC CASE PLATFORM
- GENERIC INTERACTION PLATFORM
- GENERIC PLANNING PLATFORM
- GENERIC SALES PLATFORM
- MY.PLATFORM
- GENERIC IoT PLATFORM

- ACPaaS Marketplace
- My.DevOps Workplace
- ACPaaS Portal
- API Store/ Broker
- Composers
- Admin & Config
- SDK

Business engines

- Web Content Manager
- Output Generator
- Order
- Payment
- Digital Vault
- Business Roles as a Service
- Digital Assets
- Datastore
- Shopping
- Pricing & Discount
- Digital Signature
- Navigation
- Form & Survey
- Workflow
- Notification
- Multi Language
- Forms
- Taxonomy

Digital Experience engines

- Recommen-dation
- Context
- Chatbot
- e-Loket

Data stores & engines

- A/M Profile
- CRS Person
- CRS Employee
- CRS Entrepreneur
- CRS Organisation
- CRS Address
- Data Brokerage
- Context Store
- Open Data
- Distributed Ledger Technology
- GIS
- OCR

AI engines

- Image Recognition
- Natural Language Processing
- Machine Learning
- Predictive & Prescriptive algorithms

IoT engines

- Realtime Processing
- Metadata Management
- Profiling
- Data Lake
- Robotics Gateway
- IoT Gateway

Platform engines

- API Gateway
- Event Handler
- Privacy
- User Management
- ESB
- Logging
- eID
- Identity & Access
- Blockchain

Future-proof platform

Faster, cheaper, more innovation

01 Flexible IT development through modularity of the engines

02 A shared cost for engine development and maintenance

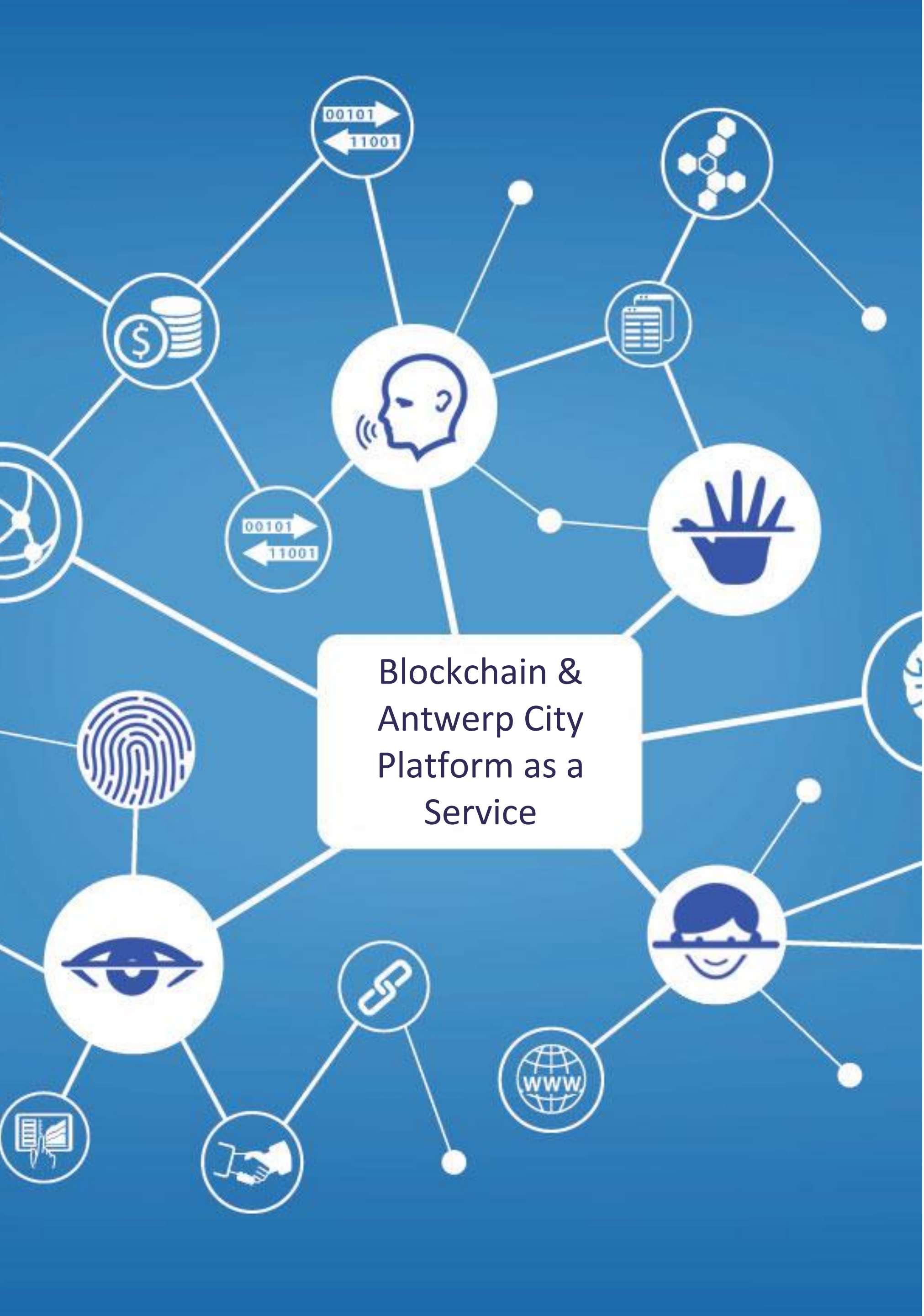**03** Fast realization because large parts already exist

04 Engines are easier, faster, cheaper, customizable and replaceable

05 We can respond quickly to new technological developments

06 Innovative input from entrepreneurs is quickly integrated

Distributed Ledger Technology

Meetup Blockchain
(DigAntCafé - december 2016)

- Choice: Hyperledger? BigchainDB? Ethereum? MS Bletchley? Eris? NEM? Multichain?
- Conclusion: Technology not yet mature
- Set-up first phase: NEM, Multichain, Monax, Hyperledger Fabric

Distributed Ledger Technology

Blockchain as part of the platform

- Lifecycle
- Relocation
- Lifelong learning
- Policy decisions
- …

Launch Innovation Labs

Blockchain Lab

Data Science Lab

Internet of Things Lab

Mrs Smart City

Mr Blockchain

Antwerp Blockchain Contest

A'REA 2020

GDPR

Circular South

And…

Future-proof platform

Faster, cheaper, more innovation

01 — Flexible IT development through modularity of the engines

02 — A shared cost for engine development and maintenance

03 — Fast realization because large parts already exist

04 — Engines are easier, faster, cheaper, customizable and replaceable

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From lab to prod

NLP

Waste management

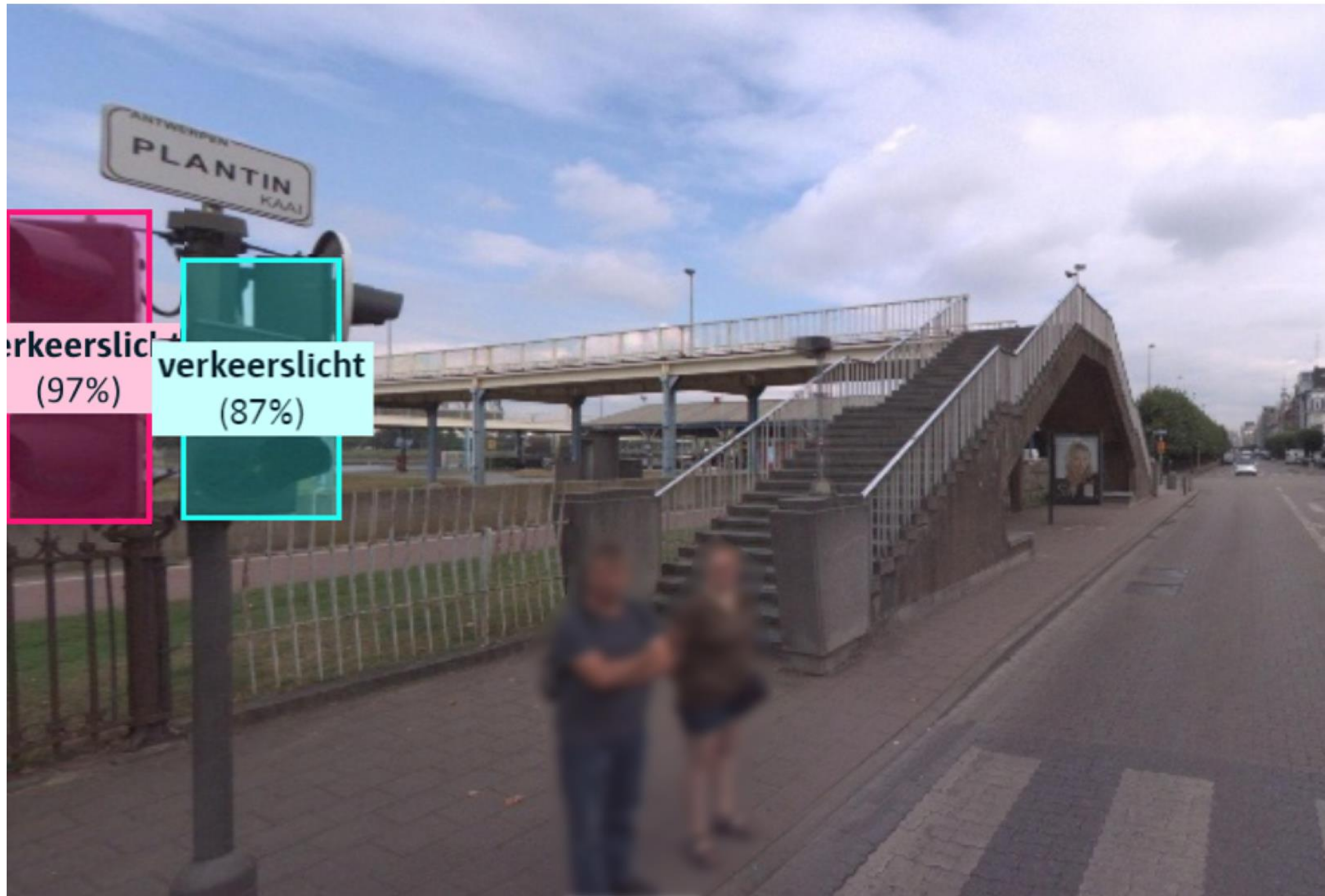| Element	Overeenkomst
vuilnisbak sluikstort	89.57%
vuilnisbak ok	5.74%
meubel matras	0.76%
afvalzak restafval	0.63%
afvalzak pmd	0.55%

Object detection/inventory

Object detection/inventory

Personalised e-gov services

Nummer [   ] [Verzenden]

📖 **Aanbevelingen** 5   👁 **Reeds gelezen**

De bespieder
Egeland, Tom
Detail ›

In het duister
Billingham, Mark
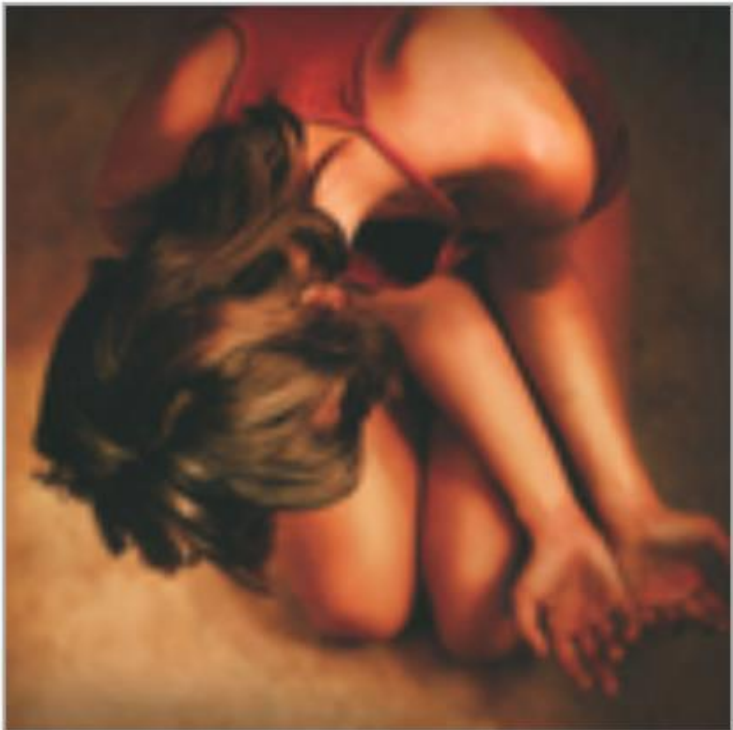Detail ›

Een onverwacht ge...
Williams, Amanda Kyle
Detail ›

Rood licht
Van der Will, Milou
Detail ›

Antwerp

... enabled by ACPaaS

FASTER

CHEAPER

MORE INNOVATIVE

Q & A

Innovation driven by the city of Antwerp

ACPaaS