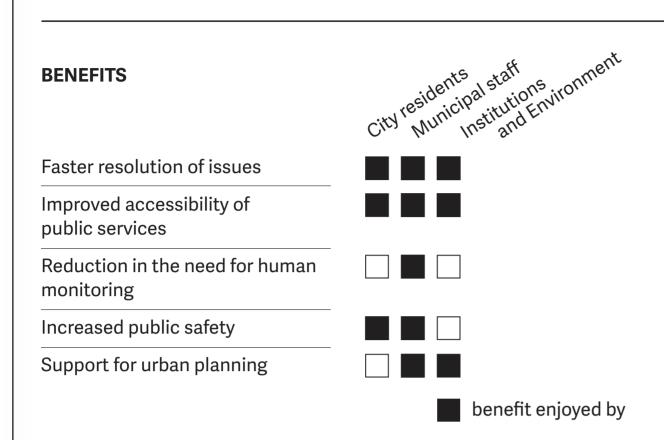
Urban Feedback System

Using image recognition and text generation for urban safety

SYSTEM'S DESCRIPTION

The AI system is designed to quickly identify and describe unsafe situations involving people or infrastructure based on photos and text comments submitted by municipality residents on the city app. It uses image recognition and text generation to process these submissions and was developed for municipal staff to improve response times.





In use

Launched on January 10, 2024, the urban feedback system operates within the city's boundaries and is currently used by 10 municipal staff, with the capacity to add more accounts as needed, up to a limit of 20.

IMPACT ASSESSMENT REPORT

available in multiple formats including Braille



Last update: 20 Feb 2025

RISKS Capability Risks	MITIGATION STRATEGIES	City residents and nestitution
Privacy violations from model outputs	Implement face blurring and data anonymization	
Misidentification of people or objects	Use diverse training datasets to minimize biases and improve accuracy across demographics and environments	
Human Interaction Risks		
Staff uncertainty about generated descriptions	Include explanation logs showing which elements from the photo and resident text were used in the description	
Resident unfamiliarity	Conduct user testing with diverse groups of residents to ensure intuitive design and accessibility of the city app	
Systemic Impact		
Over-collection and retention of resident's user data	Establish strict data governance policies, including data minimization and retention limits	risk fa

Essential Urban scene images Issue descriptions Location data Date and time of submission Non-essential Resident's user profile information Photographic metadata Potefor future uses images potefor future uses indentifiable personally indetifiable potefor future uses in personal uses in personal

PERFORMANCE OF MODELS ON DATA

Urban scene images	PaliGemma	3B-MIX			
Issue descriptions					
Model metrics across subgroups We report the highest observed scores (% of analyzed urban scenes and generated issue descriptions) and the subgroups where they occurred.					
The evaluation considers the following subgroups:					

Model

Version

- Perceived gender: Male, Female
- Ethnicity: White, Black, Indian, Asian, Middle Eastern, Hispanic or Latino
- Age group: <19, 20-49, >50 years (yrs.) old

Metric	Perceived gender Subgroup	Ethnicity Subgroup	Age group Subgroup
Identity attack	0%	0%	0%
Threat	0.06% Female	0.14% Black	0.17% >50 yrs. old
Insult	0.06% Male	0.09% Asian	0.16% 20-49 yrs. old

REPORTING RISKS

City helpline: 0XXX XXX XXX Reporting portal: report-risk@com Mail: XX Main Street, City A XXX-XXX Contry Z

REGISTERED OFFICE

Name of the company XX Main Street, XXX-XXX Contry X

CERTIFICATES

Data





Compliant with the Al Management System Standard