

Congreso Nacional de Ingeniería Municipal 2023

NUEVAS TECNOLOGIAS AL ALCANCE DE LA INGENIERIA MUNICIPAL

**ATLAS DE PROYECTOS IMPULSADOS POR
CIUDADES QUE IMPLICAN UN USO ÉTICO DE
SISTEMAS DE INTELIGENCIA ARTIFICIAL**

MARTA GALCERAN VERCHER

Investigadora principal, Programa de Ciudades Globales, CIDOB



INTELIGENCIA ARTIFICIAL

50% Entusiasmo

50% Ansiedad

Global Observatory of Urban Artificial Intelligence

[EXPLORE OUR ATLAS OF URBAN AI](#)

[WATCH OUR DOCUMENTARY ON TRUSTWORTHY CITIES](#)

- About us
- GOUAI's Principles
- Atlas of Urban AI
- Documentary
- Resources
- News

Atlas of Urban AI

Contribute to Atlas

181 initiatives
66 cities

Show filters

list

map

+

-

?

Fairness and Non-discrimination



Transparency and Openness



Safety and Security



Privacy protection



Sustainability



Accountability



Global Observatory of Urban Artificial Intelligence

GOUAI's Principles



Fairness & Non-Discrimination



Transparency & Openness



Safety & Cybersecurity



Privacy protection



Sustainability



Accountability



[GOUAI's Ethical AI Self-Assessment Guide](#)

www.gouai.cidob.org/atlas

Atlas of Urban AI

181 initiatives
66 cities



Show filters ↗

list

map



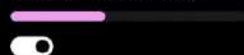
Fairness and Non-discrimination



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Atlas of Urban AI

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184 initiatives
66 cities



Hide filters

By geographic location



By city population



By type of initiative



By level of implementation



By sector



- Social Services
- Governance and Urban Services
- Environment and Resources
- Mobility
- Infrastructures and Urban Planning
- Economy and Business
- Security and Resilience

CC4DR



Atlas of Urban AI

list

map

10

Fairness and Non-discrimination



Transparency and Openness



Safety and Security



Privacy



Twitter Facebook LinkedIn Email | [Contribute to Atlas](#)

Barcelona



POPULATION*:
1.664.182

INCOME PER CAPITA**:
43.701 €

AI STRATEGY:
Yes

CC4DR:
Yes

Initiatives (10/10)



AI Beach Capacity Monitoring



AI Classification System for Citizen's Enquiries



AI in Social Services



Algorithmic Transparency Standard



Citizen's Communication Channels Improved through AI



Ethical AI Strategy



External Advisory Council on AI, Ethics and Digital Rights



Internal Protocol for the Implementation of AI in Municipal Services



Atlas of Urban AI

list

map

+

-

?

10

Fairness and Non-discrimination



Transparency and Openness



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1.664.182

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Yes

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Initiatives (10/10)



AI Beach Capacity Monitoring

During the COVID-19 pandemic summer months, Barcelona installed thermal cameras to monitor beach occupancy levels through the analysis of the area of sand still clear. Still in use, the privacy of personal data is guaranteed by the system by erasing the non-anonymised parts of images. The number of people is estimated by processing images and using machine learning to compare the same image when empty and full. These systems are connected to the system's management and to the municipal website, where the public can also check the remaining capacity of each beach in real time.

SECTOR

Governance and Urban Services
Social Services

AI PRINCIPLES

+ Transparency and Openness
+ Safety and Security
Privacy protection

IMPLEMENTATION PHASE

Fully implemented

TYPE OF INITIATIVE

Project

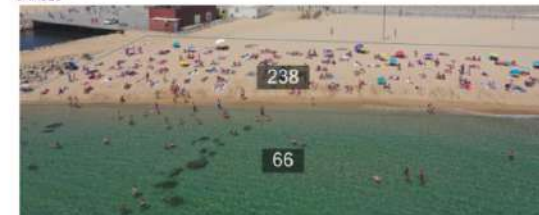
INITIATION DATE

2020

RELEVANT SOURCES

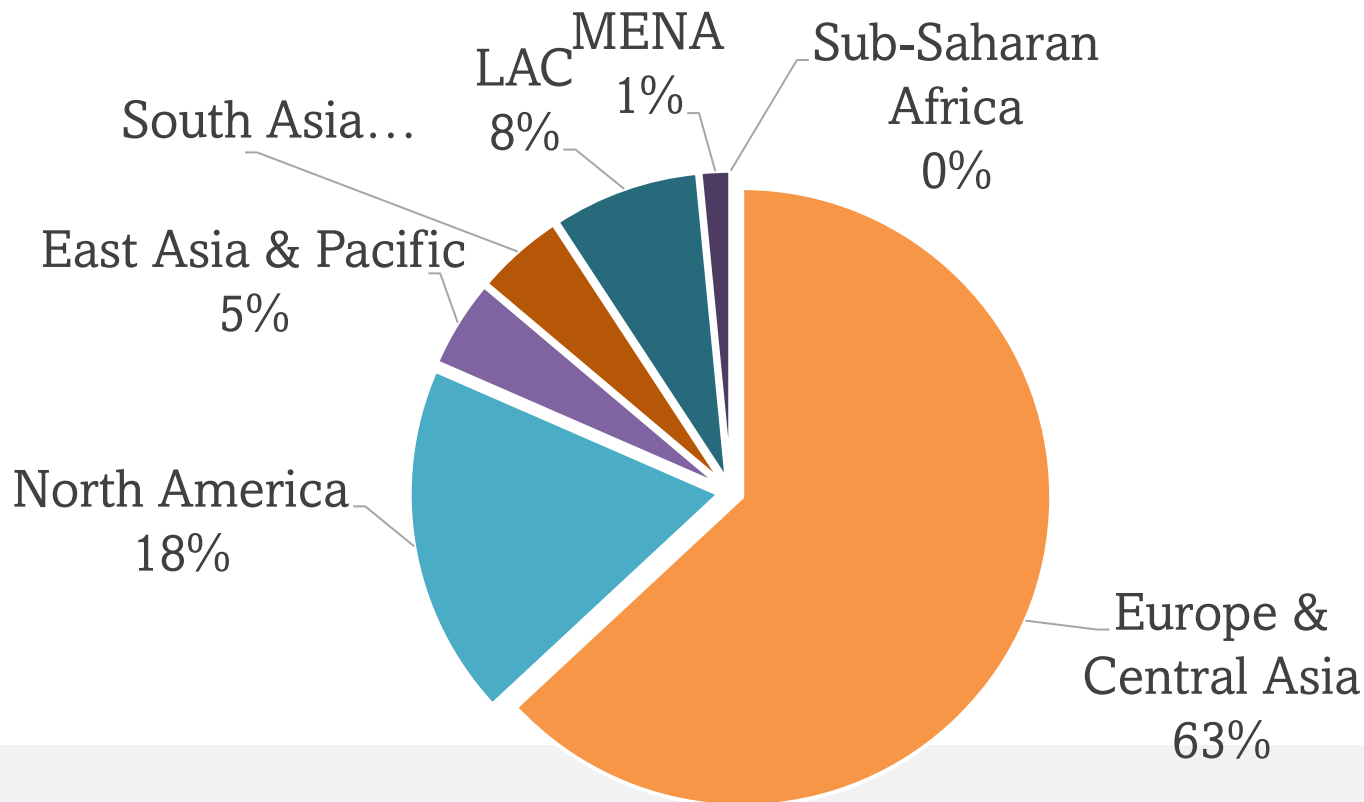
[Barcelona Promotes Ethical AI](#)
[Governmental Measure for an Ethical AI](#)

IMAGES



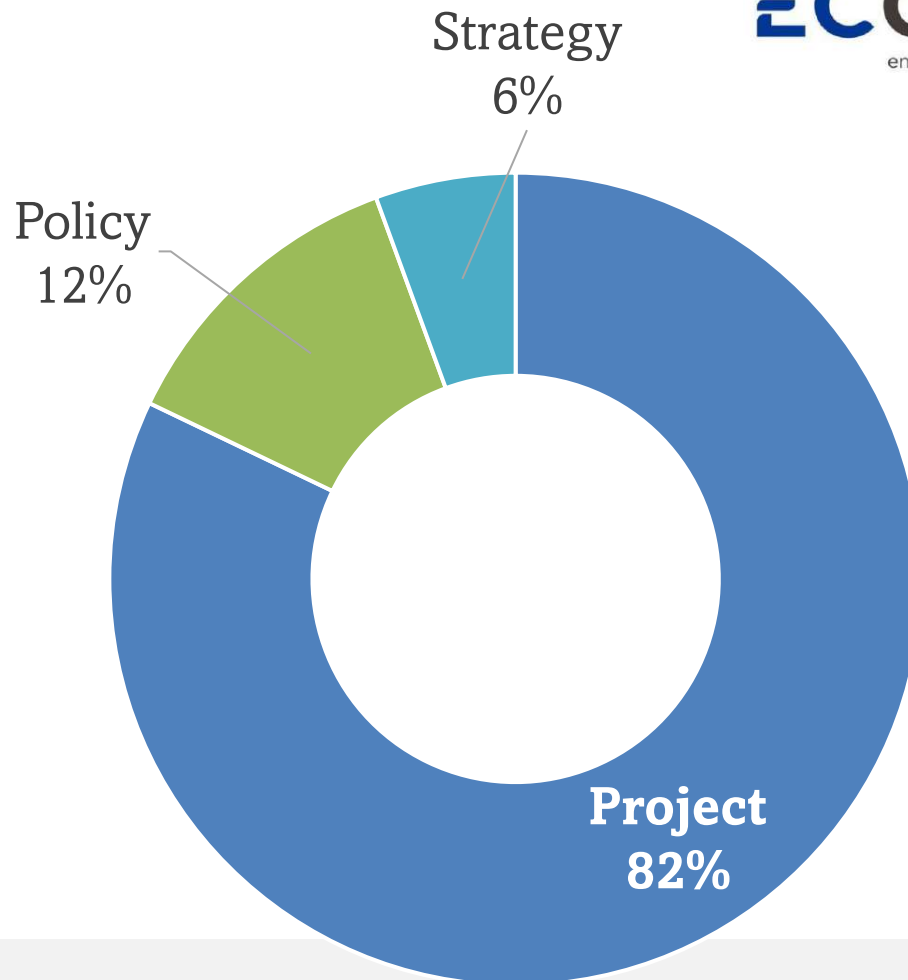
Algunas conclusiones del atlas...

POR REGIÓN

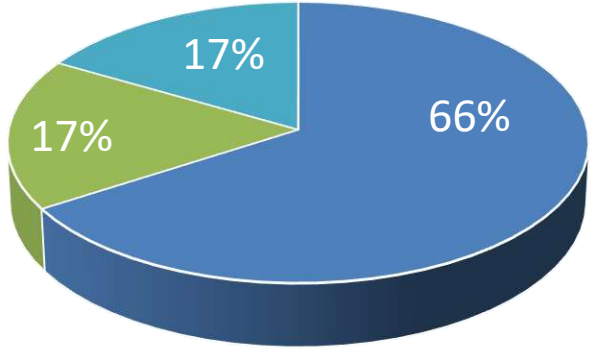


POR TIPO DE INICIATIVA:

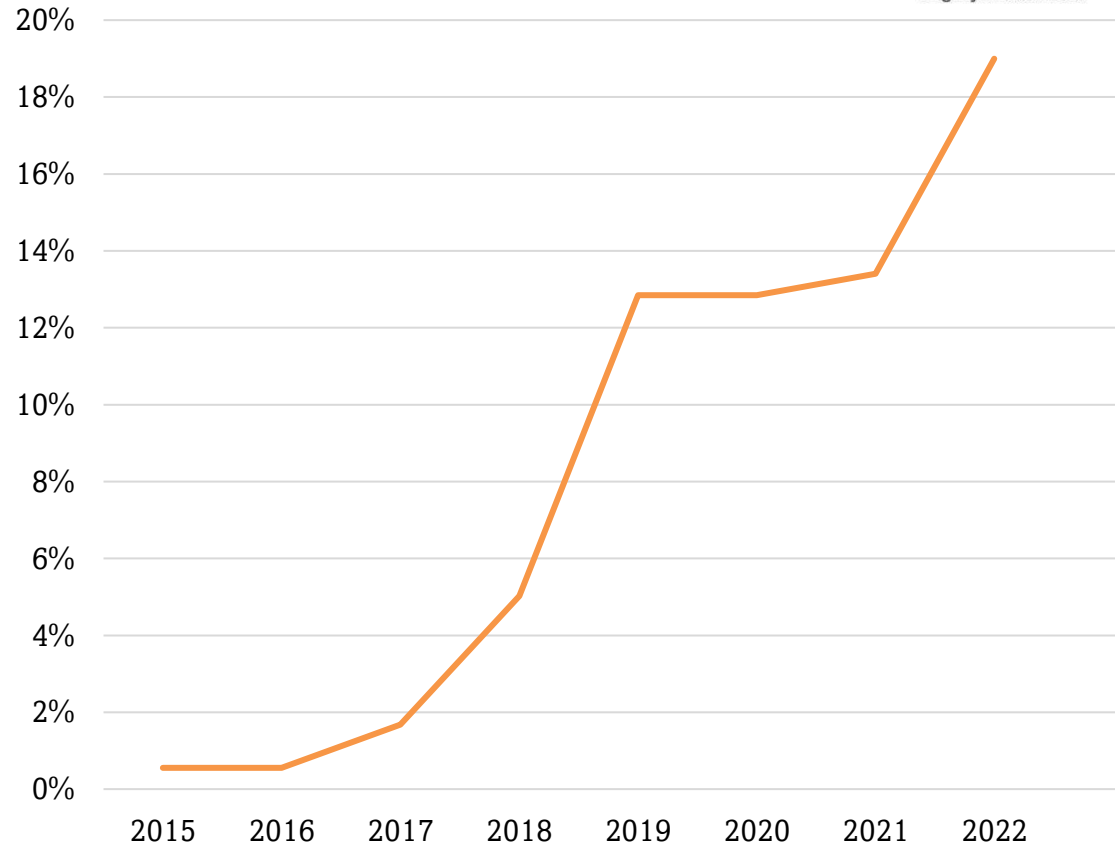
- > PROYECTOS**
- > POLÍTICAS**
- > ESTRATEGIAS**



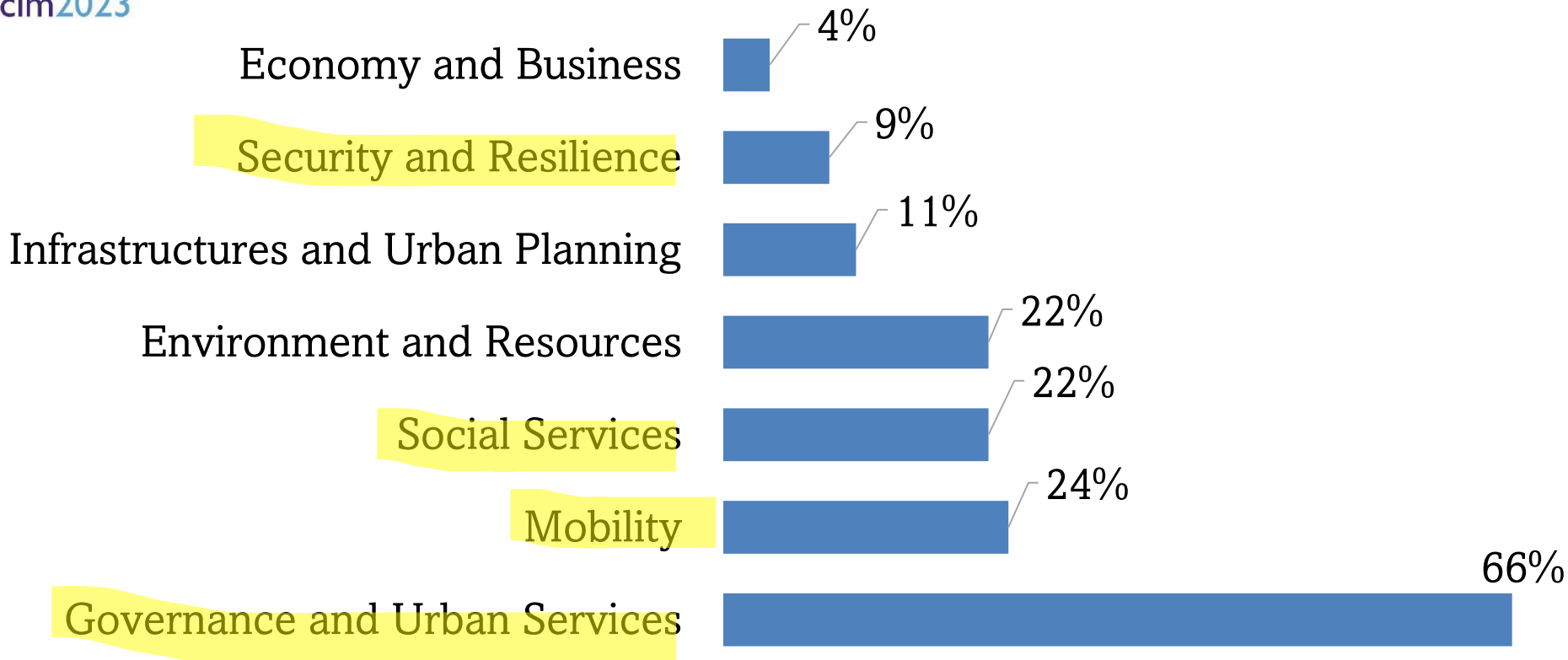
IMPLEMENTACIÓN



- Fully implemented
- Implementation phase
- Planning phase

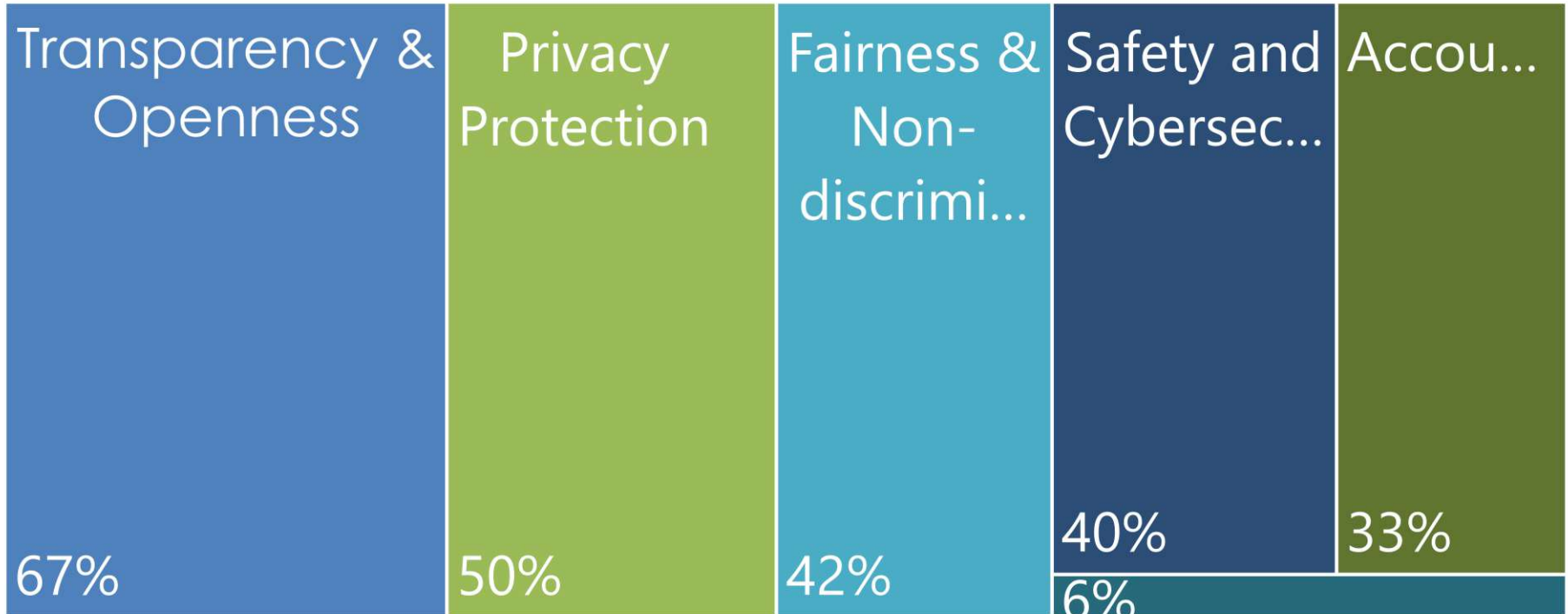


POR SECTOR



PRINCIPIOS ÉTICOS

- Transparency & Openness
- Privacy Protection
- Fairness & Non-discrimination
- Safety and Cybersecurity
- Accountability
- Sustainability



An aerial, top-down view of a city street at night. The street is illuminated by streetlights, and several cars are visible on the road. Buildings of various heights and styles line the street, with some windows glowing. The overall scene is a dense urban environment.

Casos de uso de la Inteligencia Artificial en ciudades

Gobernanza y servicios urbanos

📱 **Signals** Home Cooperation Signals Implementation & Management Contact

Signals is the Open Source software of, for and by Dutch municipalities for receiving and handling reports from public spaces.

Contact us

Housing and environment

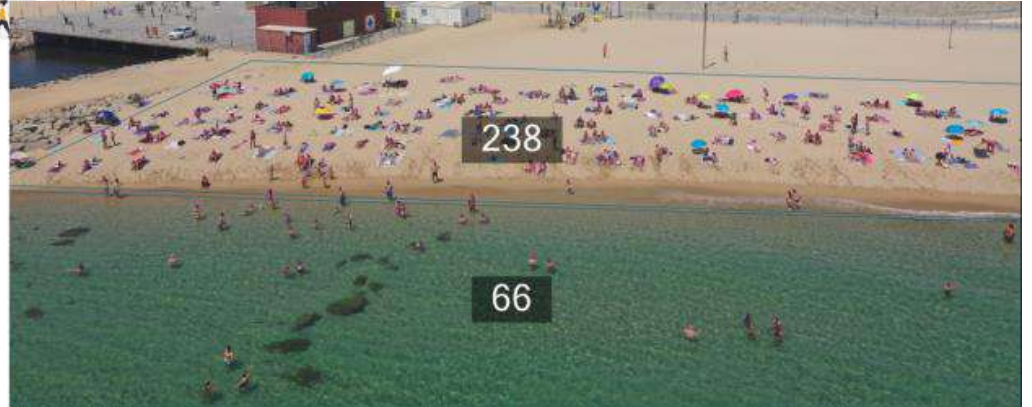
Overview

Parking chatbot



Parking chatbot (Helsinki)

Sistema de clasificación
(ciudades holandesas)

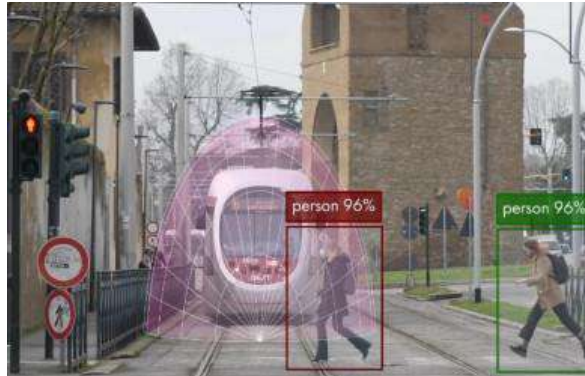


Monitoreo capacidad playas (Barcelona)

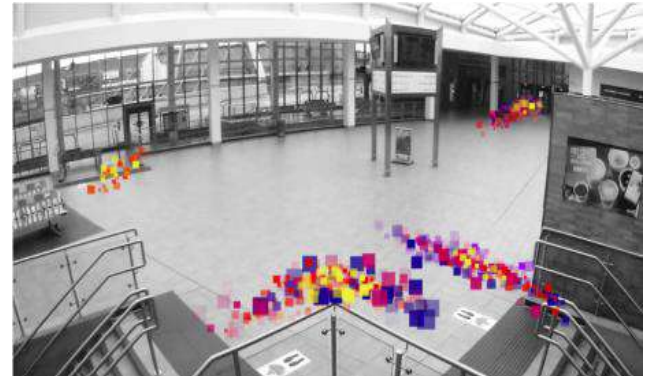
Movilidad



Predicción de intención
(Londres)



Movilidad autónoma (Florencia)



Control de multitudes (Manchester)

Servicios sociales



Robot de información (Seúl)



BÉNÉFICIER D'UN TARIF adapté à ses RESSOURCES SUR LE RÉSEAU DE TRANSPORTS EN COMMUN

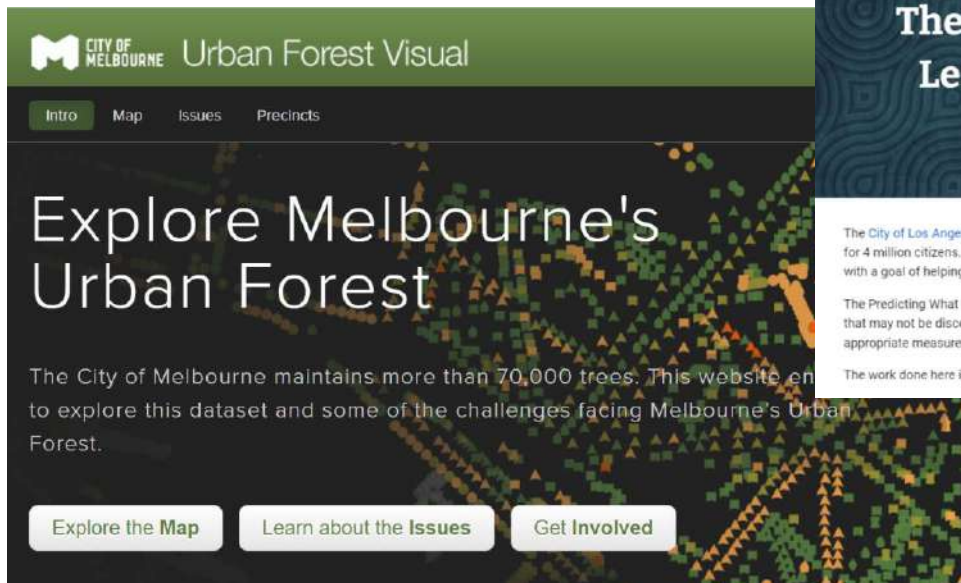
Nantes Métropole a mis en place une tarification solidaire sur le réseau des transports en commun Naolib (ex. Tan), permettant ainsi aux foyers les plus modestes d'en profiter.

Tarifación solidaria del transporte (Nantes)



Medio ambiente y recursos

Calidad del aire (Los Ángeles)



The screenshot shows the 'Urban Forest Visual' website for Melbourne. The header includes the City of Melbourne logo and the title 'Urban Forest Visual'. Below the header is a navigation menu with 'Intro', 'Map', 'Issues', and 'Precincts'. The main content area features the heading 'Explore Melbourne's Urban Forest' and a sub-heading 'The City of Melbourne maintains more than 70,000 trees. This website enables you to explore this dataset and some of the challenges facing Melbourne's Urban Forest.' At the bottom, there are three buttons: 'Explore the Map', 'Learn about the Issues', and 'Get Involved'.

Visualizar bosques urbanos (Melbourne)



The banner features a dark blue background with a white topographic map pattern. The text reads: 'The City of L.A. is Applying Data and Machine Learning to Understand Urban Air Quality'.

The City of Los Angeles is in a unique situation to be an urban proving ground to look at how to better understand, predict, and mitigate the issues of air pollution for 4 million citizens. In partnership with NASA, California State University Los Angeles (CSULA) and OpenAQ, the City has embarked on an Air Quality Project with a goal of helping to mitigate the effects of air pollution through interventions that have measured results.

The Predicting What We Breathe project looks at the time-series measurements of satellite and ground data and applies machine learning to uncover patterns that may not be discernible to human analysts. Enhancing human understanding and prediction of air quality will help inform local governments and others on appropriate measurements, analytics, predictive algorithms and mitigation strategies that are useful for dealing with air quality variability.

The work done here is funded by a NASA grant for Advanced Information Systems and Technology.



Detección arbolado urbano (Tbilisi)

Infraestructuras y planificación urbana

Mantenimiento
aumentado
(Florencia)



Detección de defectos de alcantarillado (Seúl)

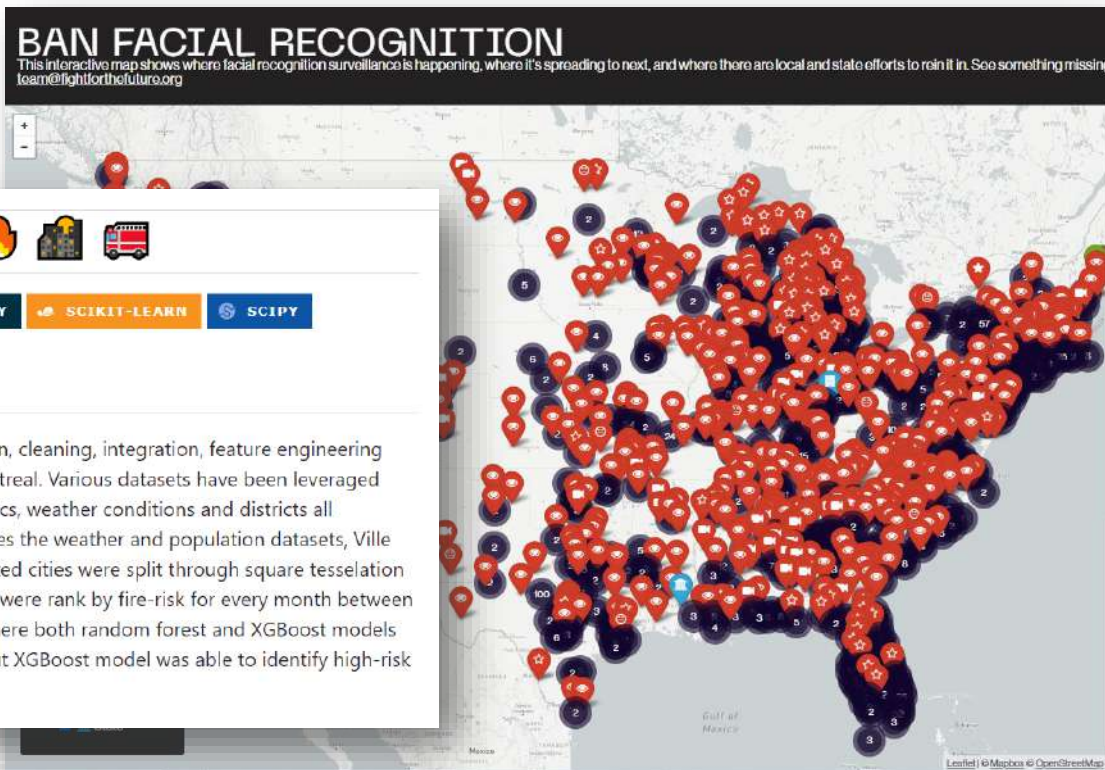


Gemelos digitales
(La Haya)

Seguridad y resiliencia

Prevención de crimen
(preocupación ética)

Predicción de accidentes



BA | Map of Commercial Opportunities English -

Map of Commercial Opportunities

Inform yourself to take better decisions when opening or improving your business in the City of Buenos Aires.

Choose a commerce

at

Enter an address

Search

An aerial, top-down view of a city street intersection at night. The scene is illuminated by streetlights, creating a warm glow on the asphalt and sidewalks. Several cars are visible on the roads, and the surrounding buildings are dark with some lights on. The overall atmosphere is that of a busy urban environment at dusk or night.

Regulación local de la inteligencia artificial

Estrategias

- Estrategia de IA de Nueva York (2021) + plan de acción (2023)
- Carta de Tecnologías Emergentes de Londres
- Agenda IA: Amsterdam's Intelligence Agenda
- Barcelona: Medida de gobierno de la estrategia municipal de algoritmos y datos para el impulso ético de la inteligencia artificial
- Buenos Aires: Plan de Inteligencia Artificial



- Cláusulas de contratación pública
- Leyes sobre transparencia de algoritmos públicos
- Consejos, comisiones, grupos de trabajo y observatorios
- Auditorías obligatorias
- Protocolos internos para la implantación de la IA en los servicios municipales
- Reglamento sobre usos controvertidos...



06 April 2022
By Sarah Wray

San Diego City Council has approved the creation of a Privacy Board to advise on the acquisition and use of surveillance technologies.

It will comprise nine volunteer members, six of whom must be city residents, appointed by the mayor and confirmed by the council.

The creation of the board came about following San Diego's smart streetlight programme which installed 3,000 streetlights equipped with cameras and sensors. In 2017, the programme was pitched as 'the world's largest smart city IoT platform' and a way to save money, optimise traffic and drive innovation, but later drew concerns about privacy and police accessing video footage.

In September 2020, then-Mayor Kevin Faulconer ordered the sensors and cameras to be deactivated until surveillance ordinances were in place.

What AI Request used by 9 agencies identifies feedback Helsinki

... are very sophisticated tools that provide value to the language but also collect data on the user's location, device, and other personal information. It is important to ensure that the use of these tools is transparent and that users have control over their data.

Artificial intelligence systems of Helsinki

Learn about the use cases where we currently utilize artificial intelligence as part of our city services.



10 February 2022
By Sarah Wray

Portland City Council in Oregon has unanimously passed an initial policy that aims to build trust with residents and strike a balance between the benefits and risks of surveillance technologies.

The resolution requires the creation of an inventory of surveillance technologies in use and new procurement and governance processes.

Surveillance technologies can refer to a wide range of data-gathering tools such as automatic license plate readers, security cameras, digital payment systems, sensors, digital kiosks, social media monitoring, and more.

While Portland implemented privacy principles in 2019 and a ban on the use of facial



Home > Understanding Data > Innovation > AI Quick Start Guide



Atlas of Urban AI

181 initiatives
66 cities



Show filters ↗

list

map



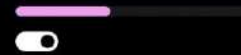
Fairness and Non-discrimination



Transparency and Openness



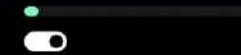
Safety and Security



Privacy protection



Sustainability



Accountability





¡GRACIAS POR SU ATENCIÓN!

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