INTEGRATED PLANNING APPROACHES IN HIGHER EDUCATION: COLLABORATIVE EDUCATIONAL PROTOTYPE TOWARDS INTEGRATED APPROACHES IN THE PLANNING OF INCLUSIVE, PEOPLE-CENTRIC AND CLIMATE-RESILIENT CITIES







Project: 2022-1-EL01-KA220-HED-000089374 Erasmus+

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поитепа

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Tools From Practice: Data Analytics for Eviden based urban planning Date (to be modified by partners)



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commonspace

University of Cyprus **AESOP**

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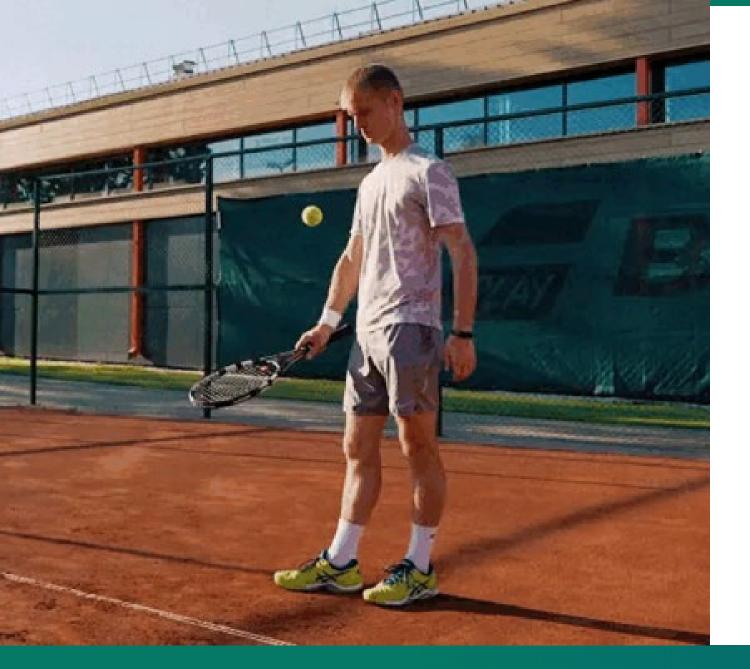
Tools From Practice: Data Analytics for Evidence-Based Urban Planning



BEYOND THE FRAME: USING COMPUTER VISION TO UNLOCK THE POTENTIAL OF VIDEO DATA







Computer Vision Definition



What is computer vision? How can computers understand videos?

Computer vision is a field of artificial intelligence and computer science that focuses on enabling machines to interpret and understand visual information from the world around us.

These algorithms **analyze the visual content**, **including shapes**, **colors**, **motion and extract features**.

These features can be labeled and then used to train AI models to recognize objects, actions or scenes within a videos using ML techniques.



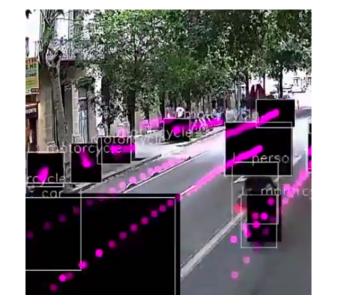


попшеча

Workflow







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Data Collection

Data Pre-Processing

AI Algorithm

Data Post-Processing



DATA COLLECTION Importance and requirements

- Key factor for the final performance of the algorithm.
- Why is it so important?
 - Training
 - Specific project data
- Dataset requirements:
 - Large amounts
 - Variety

VERY

EXPENSIVE

- Balanced
- Representative
- Well labeled

Image: Cats and dogs dataset Source: Pexel





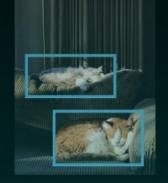


















DATA COLLECTION Open Source Datasets

Common datasets and licences:

- ImageNet: data is available for free to researchers for non-commercial use
 - 1,281,167 training images, 50,000
 validation images and 100,000 test images
 - 1000 classes
- Kinetics: Creative Commons Attribution 4.0 International License
 - 500k video clips of human actions
 - 600 different human actions labelled
- **COCO:** Creative Commons Attribution 4.0 International License
 - >200.000 images labelled
 - 80 classes
- Youtube-8M: Creative Commons Attribution 4.0 International (CC BY 4.0) license
 - 6.1 Million videos, 237K human label verified,

Image: Set of labelled images from COC9 geleset asses Source: COCO dataset



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DATA PRE-PROCESSING Image and Video processing

The purpose of data preprocessing is to clean, transform, and restructure data to make it suitable for analysis.

- Image processing .
- Video processing:
 - Video sampling
 - Video rescaling
 - Video Normalization
 - Video Encoding
 - Stacking frames into 3D tensor with dimen (#frames, height, width)
 - 2D CNN to capture spatial dependencies
 - 3D CNN to capture spatial and temporal dependencies



Image Segmentation: Binary





Image Filtering: Laplacian

Image Restoration







Image: Car image Source: Pexel





Image Enhancement

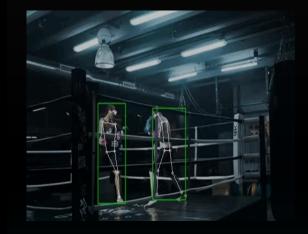




ALGORITHM Types of algorithms

Deep Learning Algorithms:

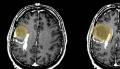
- Object detection
 - Class identification
 - Disease detection
- Pose estimation
 - Pose recognition
- Semantic Segmentation
- Instance segmentation
- Face recognition
- Object tracking



HUMAN POSE ESTIMATION



SEMANTIC SEGMENTATION AND TRACKING

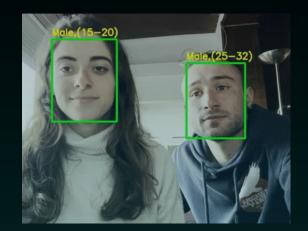




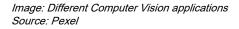




DISEASE DETECTION



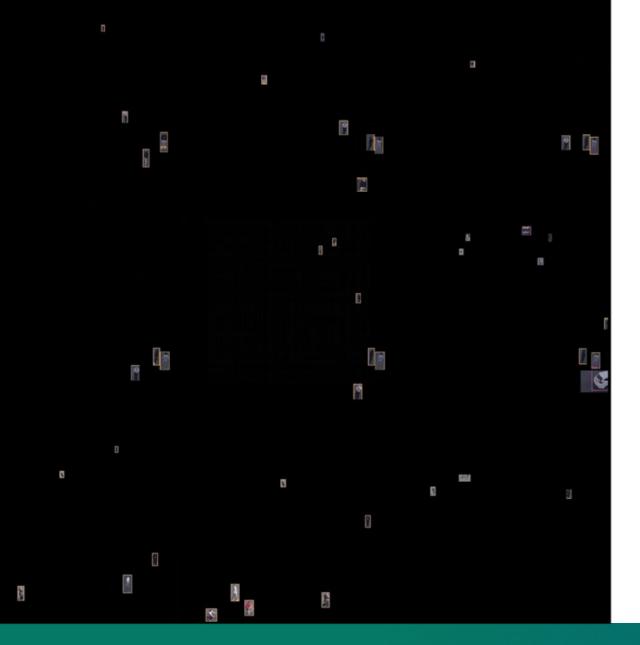
FACE DETECTION: GENDER AND AGE







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DATA POST-PROCESSING Reduction of stored data

- Clean output data:
 - Non-maximum suppression
 - Thresholding
 - Filtering
- Extract meaning from data
- Create visualizations

Website: noumena.io

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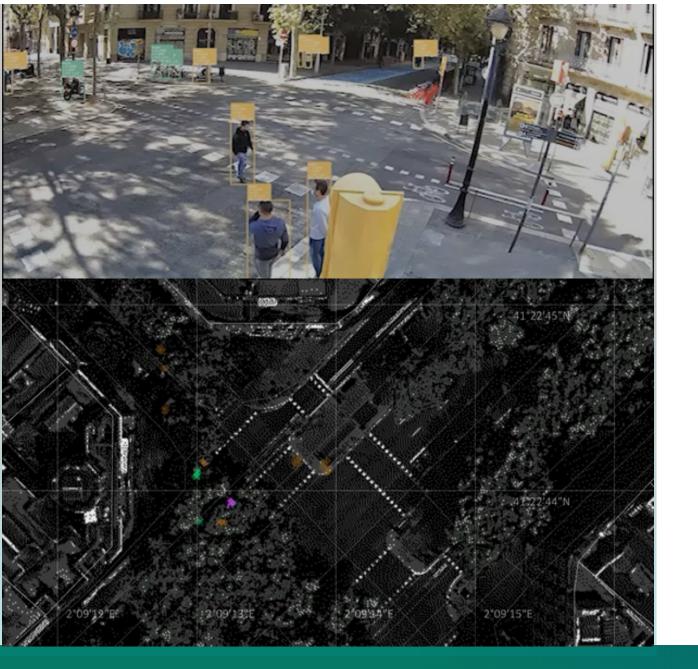


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REAL CASE SCENARIO URBAN MAPPING







URBAN MAPPING Monitoring Public Spaces

Analyse spatial dynamics from video data recorded by the urban municipality of Barcelona, specifically the Department of Urban Development, Barcelona Regional.

The scope of this research is to **understand spatial** dynamics in a public space, informing urban transformation and future planning decisions.

Client: Barcelona Regional Data Analytics: Noumena. Noumena credits : Aldo Sollazzo, Soroush Garivani, Oriol Arroyo, Cosme Pommier, Paula Osés, Salvador Calgua





попшеча



DATA COLLECTION

DATA PRE-PROCESSING

AI ALGORITHM

DATA POST-PROCESSING





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DATA COLLECTION General



TRAINING DATA



PREDICTION DATA







DATA COLLECTION Training data - COCO

URL: https://cocodataset.org/#explore

This is the COCO dataset webpage where you can explore the different classes and understand how the labelling is made.

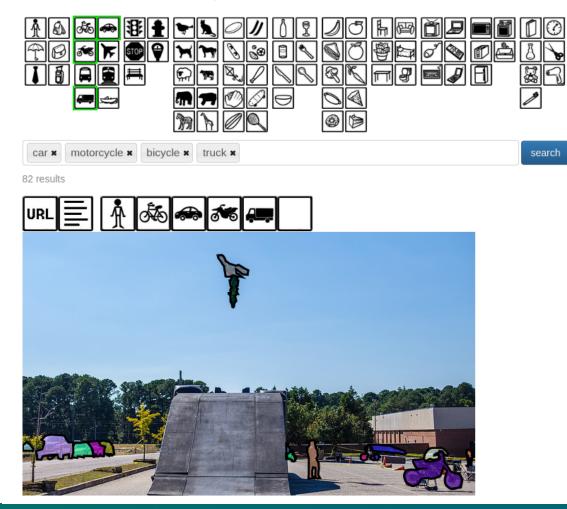
Classes:

- Cars
- Bikes
- Motorbikes
- Trucks
- Pedestrians



COCO Explorer

COCO 2017 train/val browser (123,287 images, 886,284 instances). Crowd labels not shown.





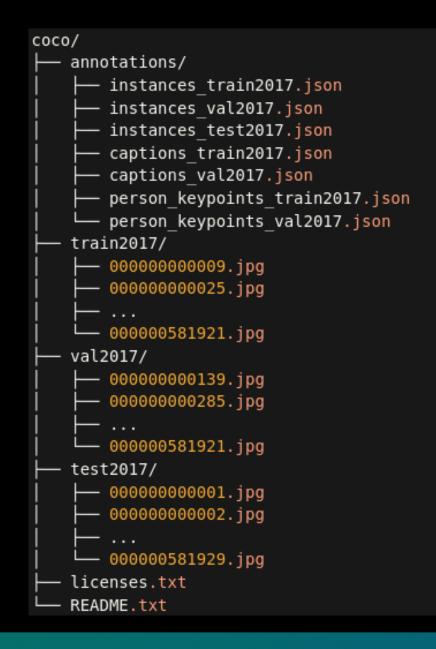
DATA COLLECTION COCO - Folder structure

In this representation, the top-level directory is **coco**/. Within this directory, there are three subdirectories : **annotations**/, **train 2017**/, **val 2017**/, **and test 2017**/.

The **annotations**/ directory contains **JSON** files that specify the annotations foreach image in the dataset, including the object detection and segmentation annotations, as well as annotations for captions and person keypoints.

The **train 2017/, val2017/**, and **test 2017/** directories contain the images for the training, validation, and test splits of the dataset, respectively. The images are stored in JPEG format and are named according to their image IDs.

Finally, there are two additional files in the top-level directory : **licenses.txt**, which contains the license agreements for the dataset, and **READMEtxt**, which provides a brief description of the dataset and instructions for using it.





DATA COLLECTION COCO - JSON Annotations

The annotations field:

- id: A unique identifier for the object annotation.
- image_id: The identifier of the image that the object belongs to.
- category_id: The identifier of the category that the object belongs to.
- bbox: A list of four values that specify the bounding box of the object. The values are [x, y, width, height]

The images field:

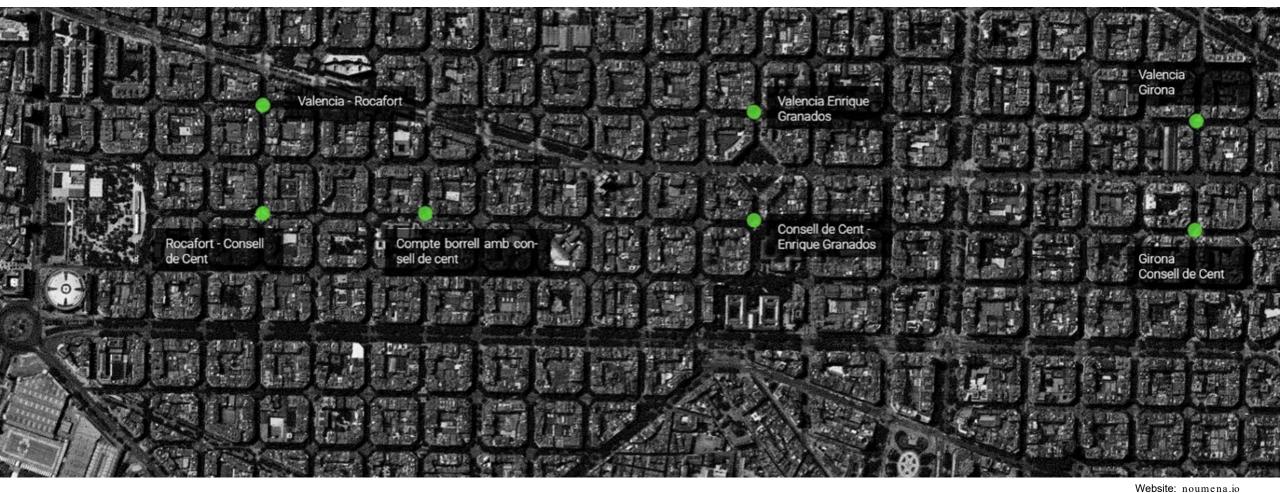
- id: The identifier of the image.
- width: The width of the image in pixels.
- height: The height of the image in pixels.
- file_name: The file name of the image.

The categories field:

- id: The identifier of the category.
- name: The name of the category.
- supercategory: (Optional) The name of the supercategory that the category belongs to.

```
"annotations": [
            "id": 1,
            "image id": 1234,
            "category id": 1,
            "bbox": [155, 200, 65, 60]
        },
            "id": 2,
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            "category id": 3,
            "bbox": [320, 190, 110, 50]
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            "image id": 1234,
            "category id": 2,
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```





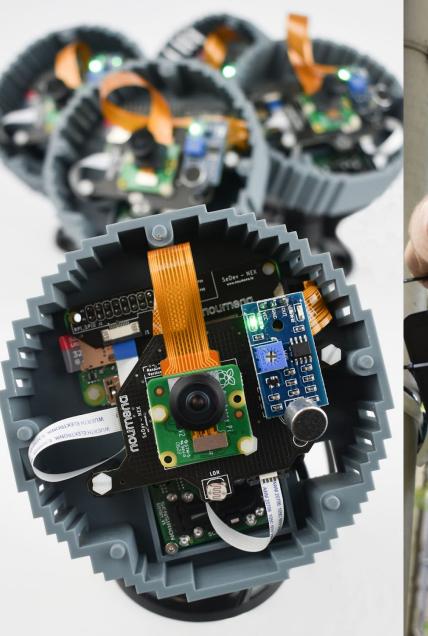
DATA COLLECTION

Prediction data

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Number of cameras: 7 Camera sensor: RGB Time: 3 days (Monday, Thursday, Sunday) - 24 hours/day Streets: Super illa (Consell de cent), nearby streets (valencia) Amount of data: 600GB

..... Co







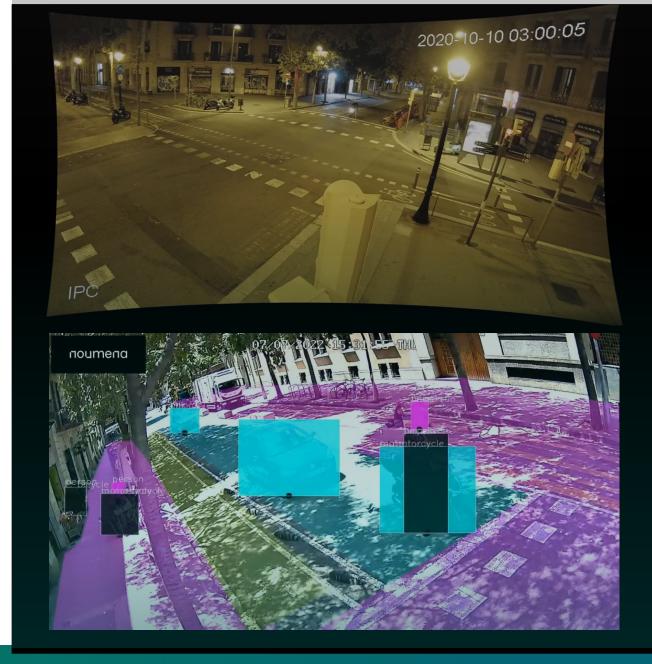




попшеча

DATA PRE-PROCESSING Prediction Data

- Reduce frame rate (fps)
- Correct distortion with image calibration
- Create Corridors



Website: noumena.io





ALGORITHM OBJECT DETECTION AND TRACKING

Object detection algorithm: YOLOv7

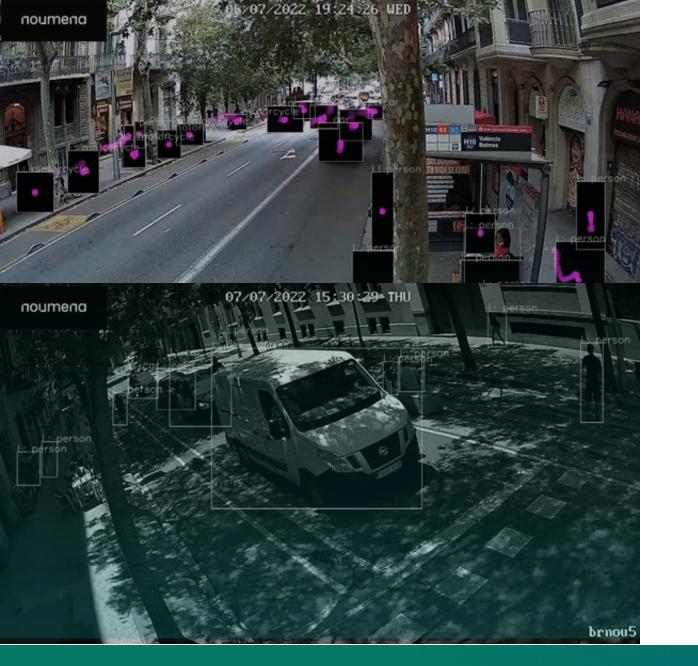
- Open Source
- Developed by ultralytics
- Training data: COCO dataset
- Classes detected:
 - Cars
 - Pedestrians
 - Bicycles
 - Motorbikes
 - Small trucks

Tracker algorithm: Norfair

• Customizable lightweight Python library for realtime multi-object tracking

Custom made algorithm to extract data from the algorithms and counter implementation

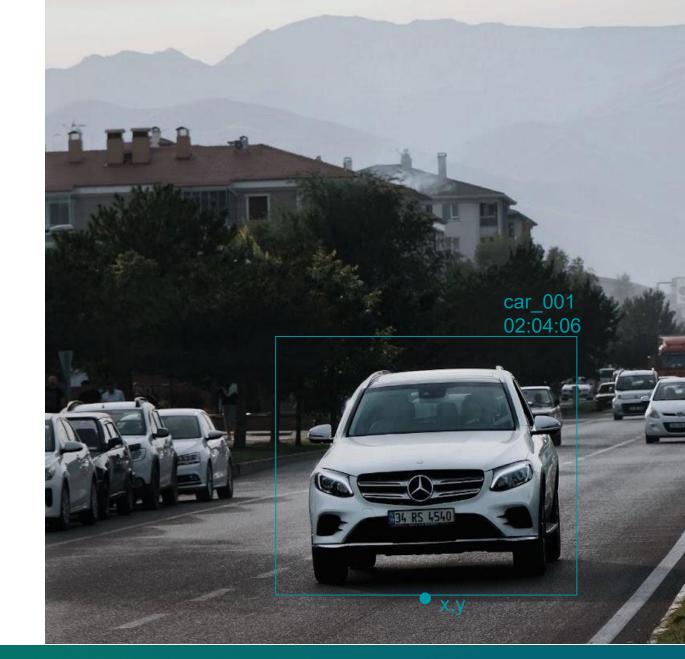




попшеча

ALGORITHM WORKFLOW

- Input encoded videos
- Object detection algorithm
- Tracking algorithm
- Extract data from videos:
 - Type of class (cars, person, ...)
 - The x,y position
 - \circ The time
- Implement counter
- Save data into database







попшеча

DATA POST-PROCESSING General

- Clean data
- Create visualizations
- Ground truth comparison

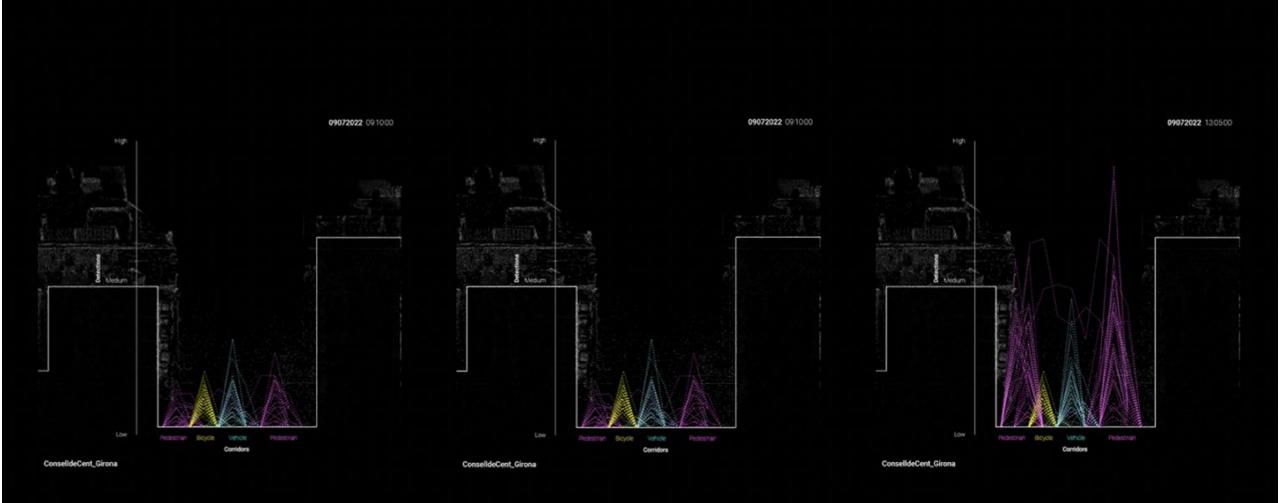
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Data Post-Processing STATISTICS - VISUALIZATIONS

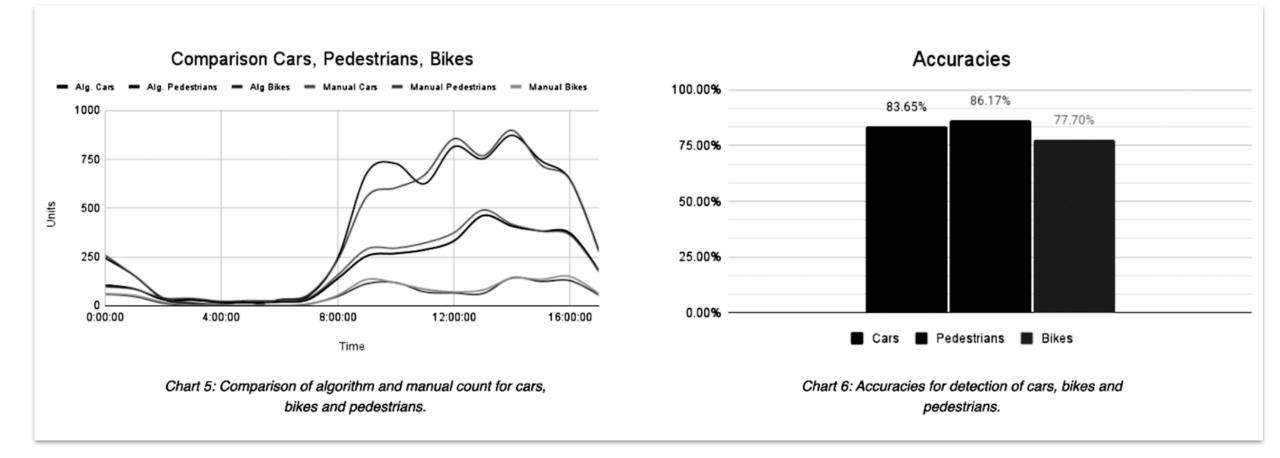
поитела







Data Post-Processing GROUND TRUTH COMPARISON

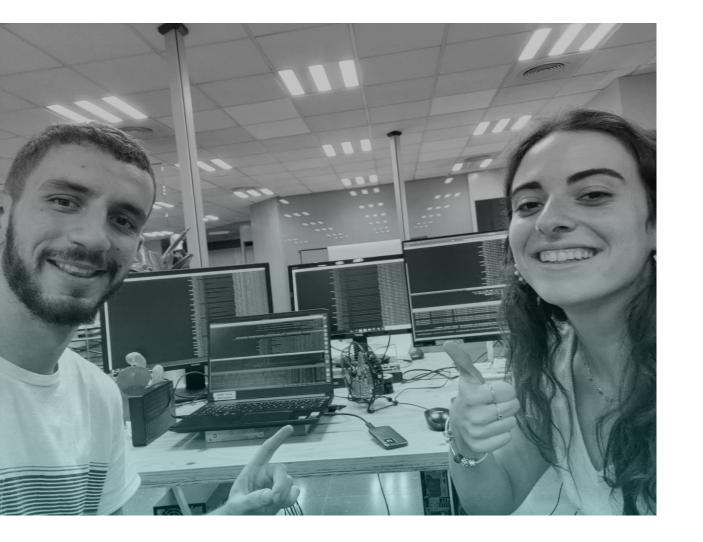






URBAN MAPPING | LESSONS LEARNED

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LESSONS LEARNED OBJECT DETECTION AND TRACKING

- Video processing timings
- Higher camara definition
- Corridors
- Edge computing





thank you!



INTEGRATED PLANNING APPROACHES IN HIGHER EDUCATION: COLLABORATIVE EDUCATIONAL PROTOTYPE TOWARDS INTEGRATED APPROACHES IN THE PLANNING OF INCLUSIVE, PEOPLE-CENTRIC AND CLIMATE-RESILIENT CITIES





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