GROUP C

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PROJECT DEFINITION
objective and goals

Name of the project: Effect of urbanistic action on social perspective

Goals:
- capturing the user's perception of a city exploiting its digital footprints
- study how the city zones evolved looking at the geo-tagged contents

User requirements :   **Functional requirements** :
- enlighten the interested zones ⟶ clustering techniques
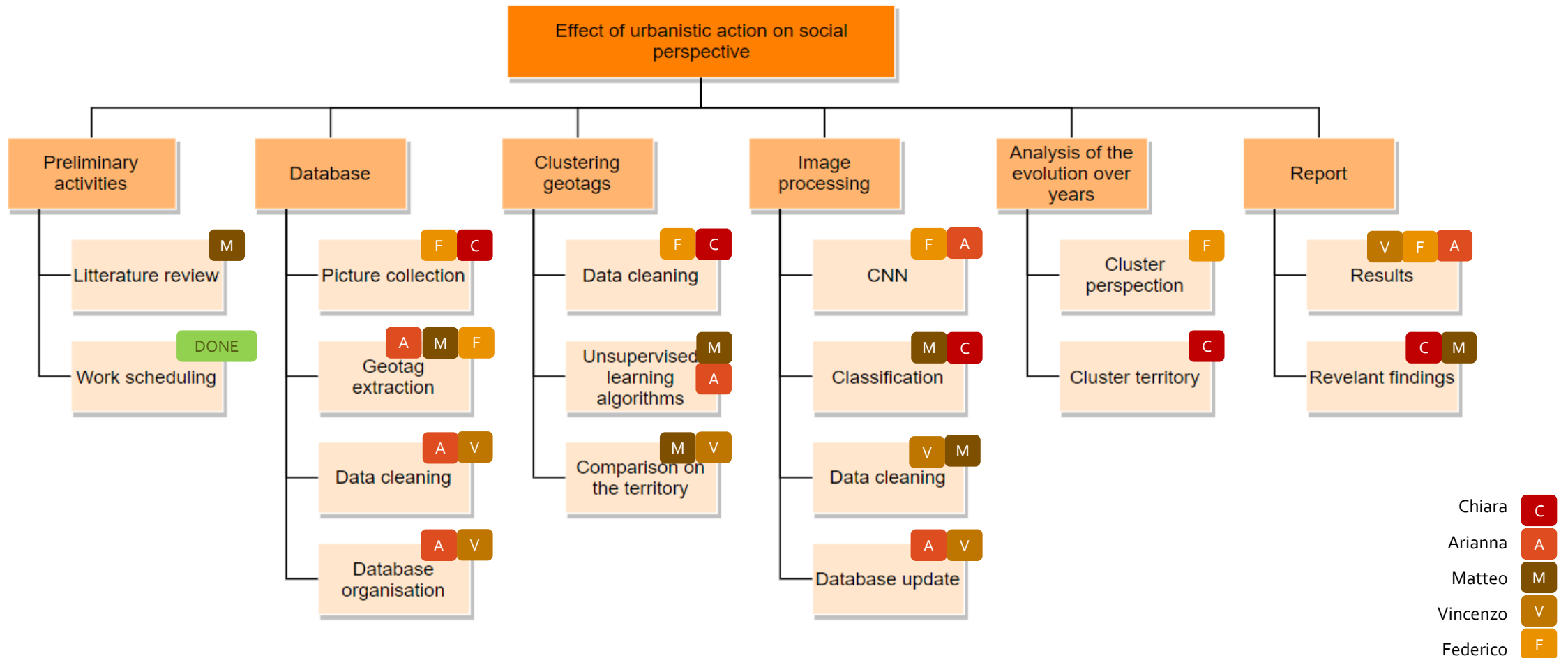- analyze the content to get the user perspective ⟶ image processing

BACKGROUND
state-of-the-art

Paper: "Understanding tourists' urban images with geotagged photos using convolutional neural networks", Seul.

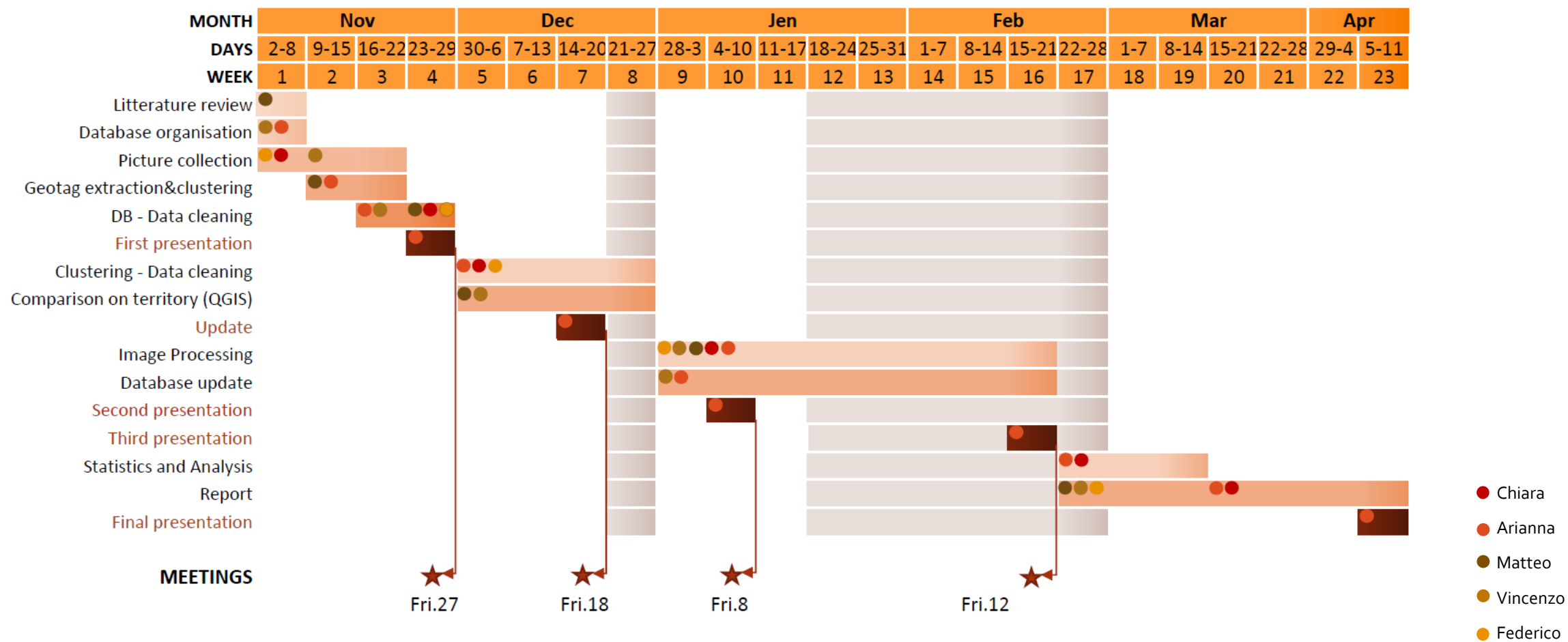**Added values:**

- Using more socials
- Focusing on the time factor giving more emphasis to the evolution of the perception

GANTT

MONTH	Nov				Dec				Jen					Feb				Mar				Apr	
DAYS	2-8	9-15	16-22	23-29	30-6	7-13	14-20	21-27	28-3	4-10	11-17	18-24	25-31	1-7	8-14	15-21	22-28	1-7	8-14	15-21	22-28	29-4	5-11
WEEK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Litterature review
Database organisation
Picture collection
Geotag extraction&clustering
DB - Data cleaning
First presentation
Clustering - Data cleaning
Comparison on territory (QGIS)
Update
Image Processing
Database update
Second presentation
Third presentation
Statistics and Analysis
Report
Final presentation

MEETINGS

Fri.27   Fri.18   Fri.8   Fri.12

- Chiara
- Arianna
- Matteo
- Vincenzo
- Federico

TOOLS

- **Python:** language and libraries: numpy, pandas, etc.

- **MongoDB**

- **Inception Model:** Transfer learning of a convolutional network

- **Public APIs**: instaloader, flickrAPI

- **DBscan/Kmeans:** clustering

- (optional) **QGIS:** to visualize the output of the software