



Åh ... Champs Élysées

06/12/2023

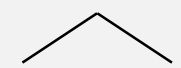
Vejforum 2023 - Nyborg

« REENCHANTER LES CHAMPS-ELYSEES »

CLIENT

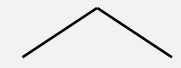


COMITÉ
CHAMPS-ÉLYSÉES



MANAGEMENT TEAM

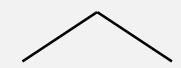
PCA-STREAM
Philippe Chiambaretta Architecte



MOBILITY TEAM



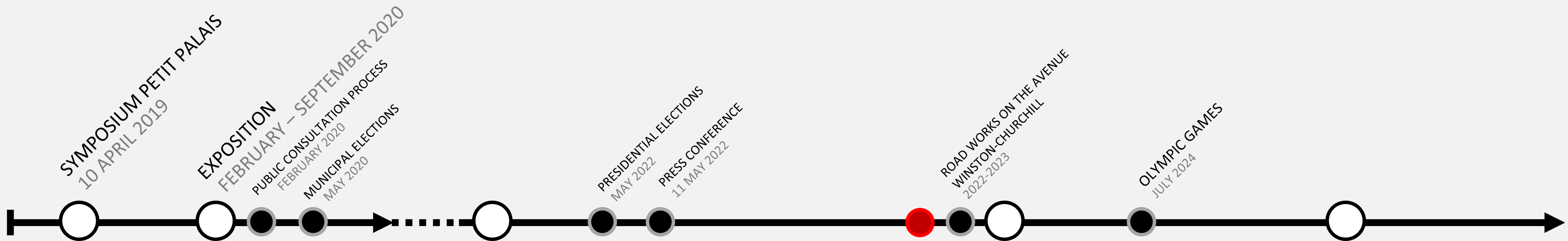
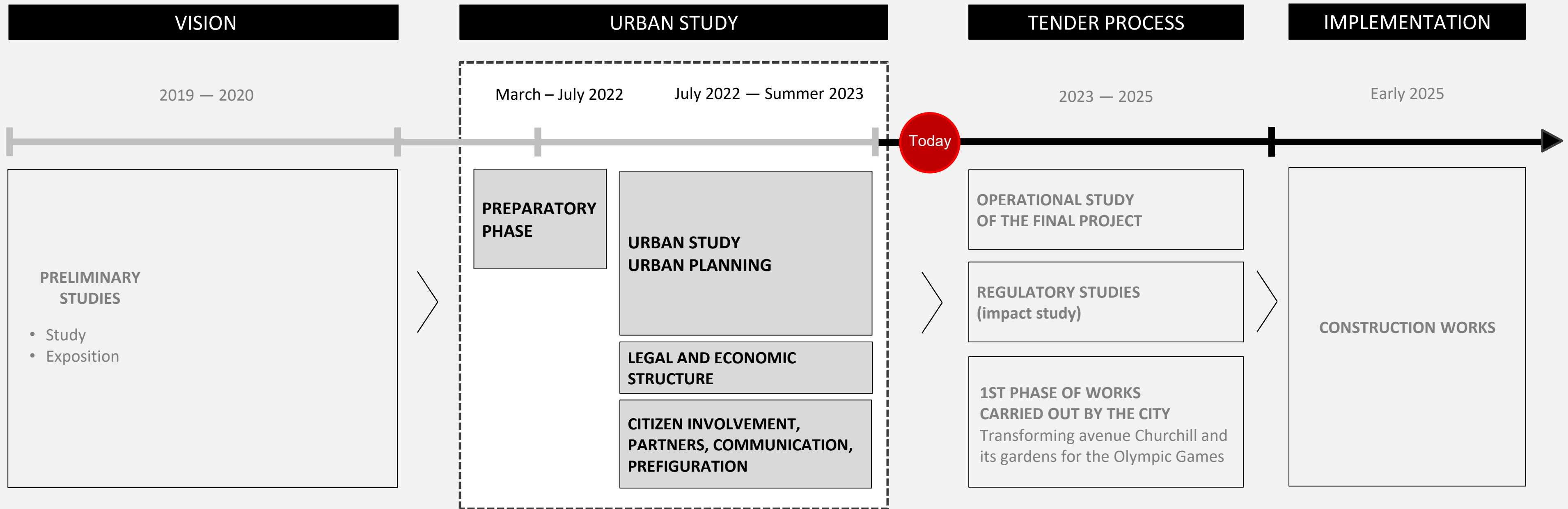
ARTELIA

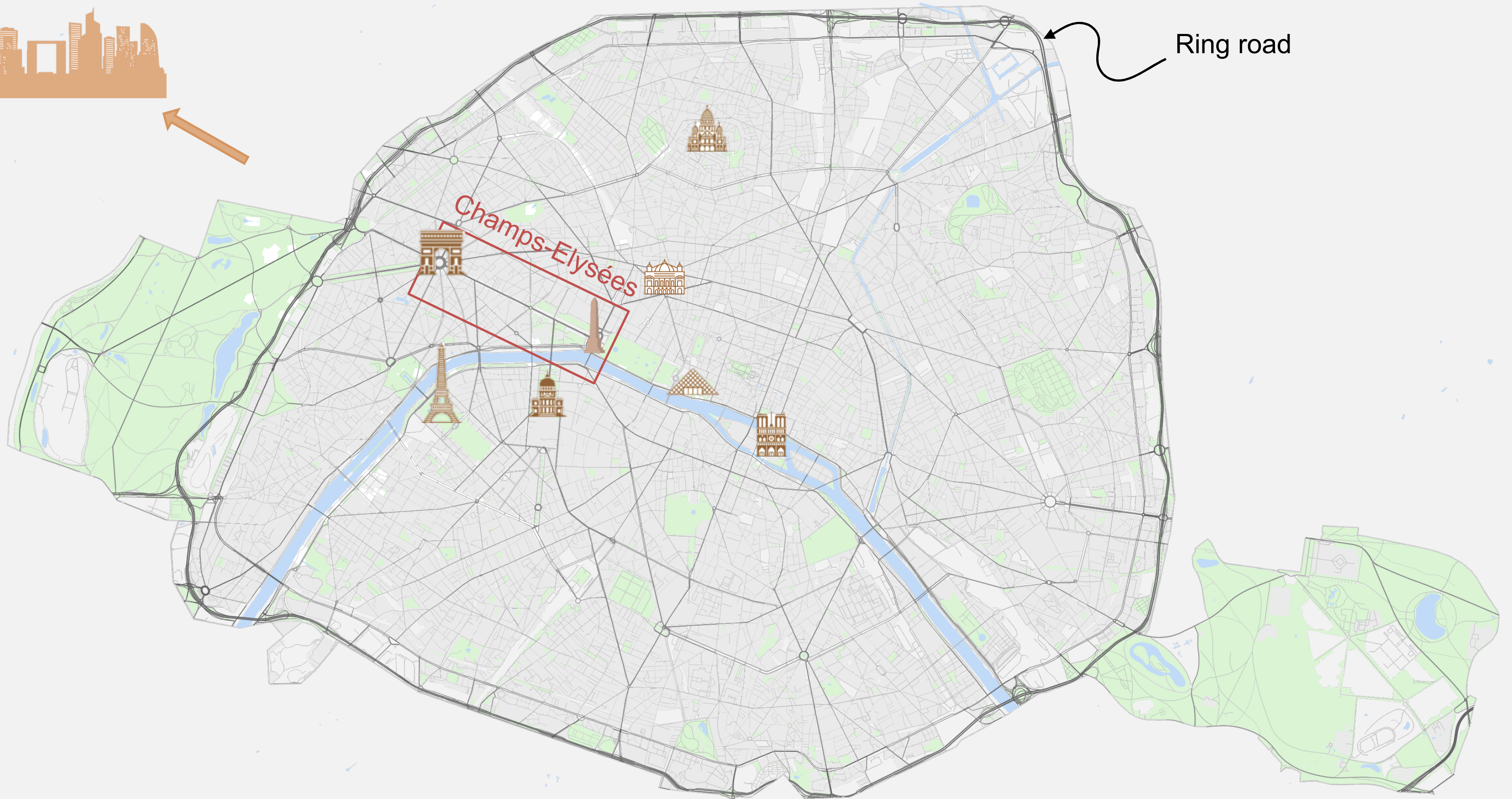
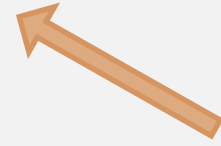


SIMULATION TEAM



aimsun.





Ring road



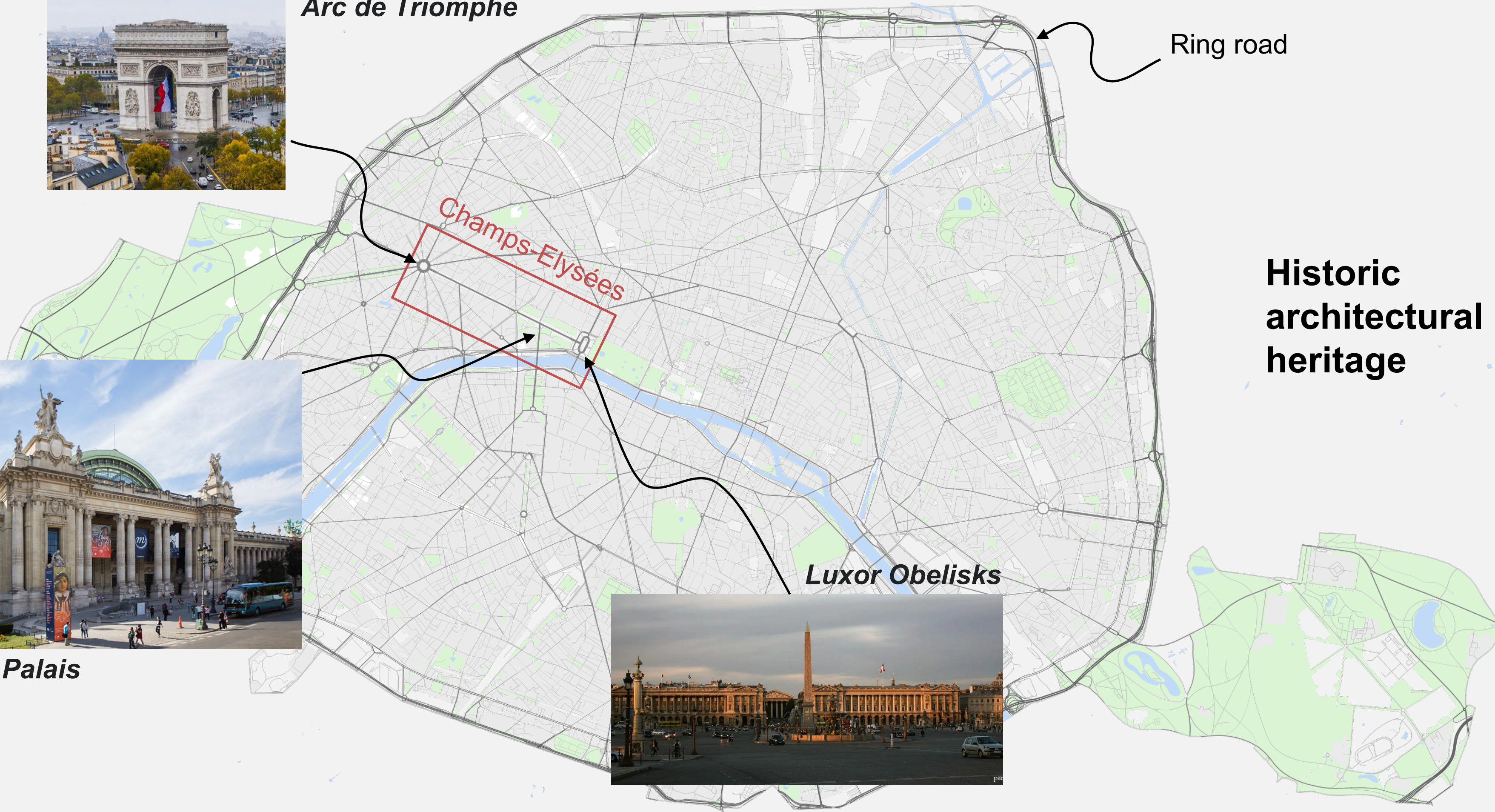
Arc de Triomphe



Grand Palais



Luxor Obelisks



Ring road

Champs-Élysées

**Historic
architectural
heritage**



Louis Vuitton



Cartier



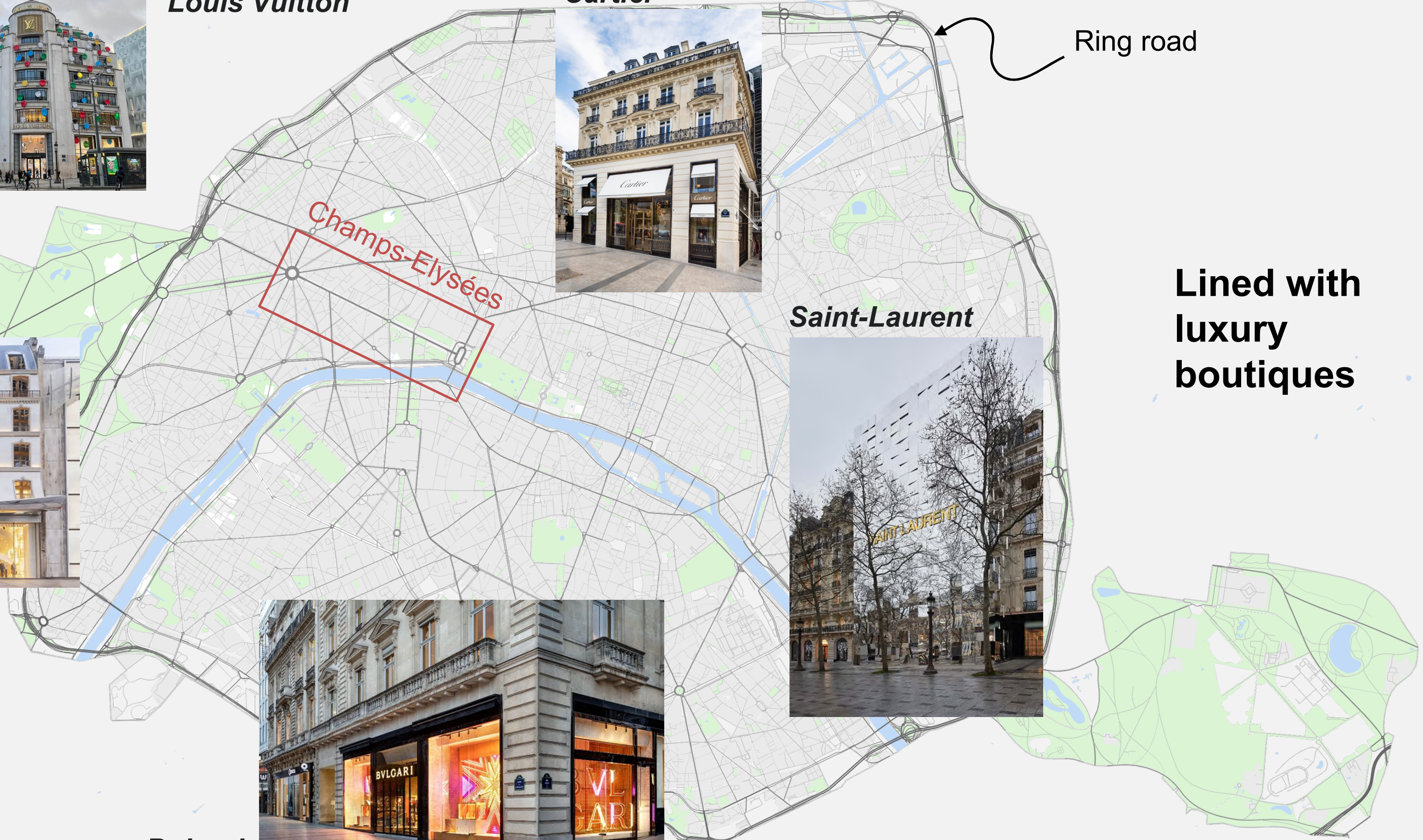
Saint-Laurent



Dior

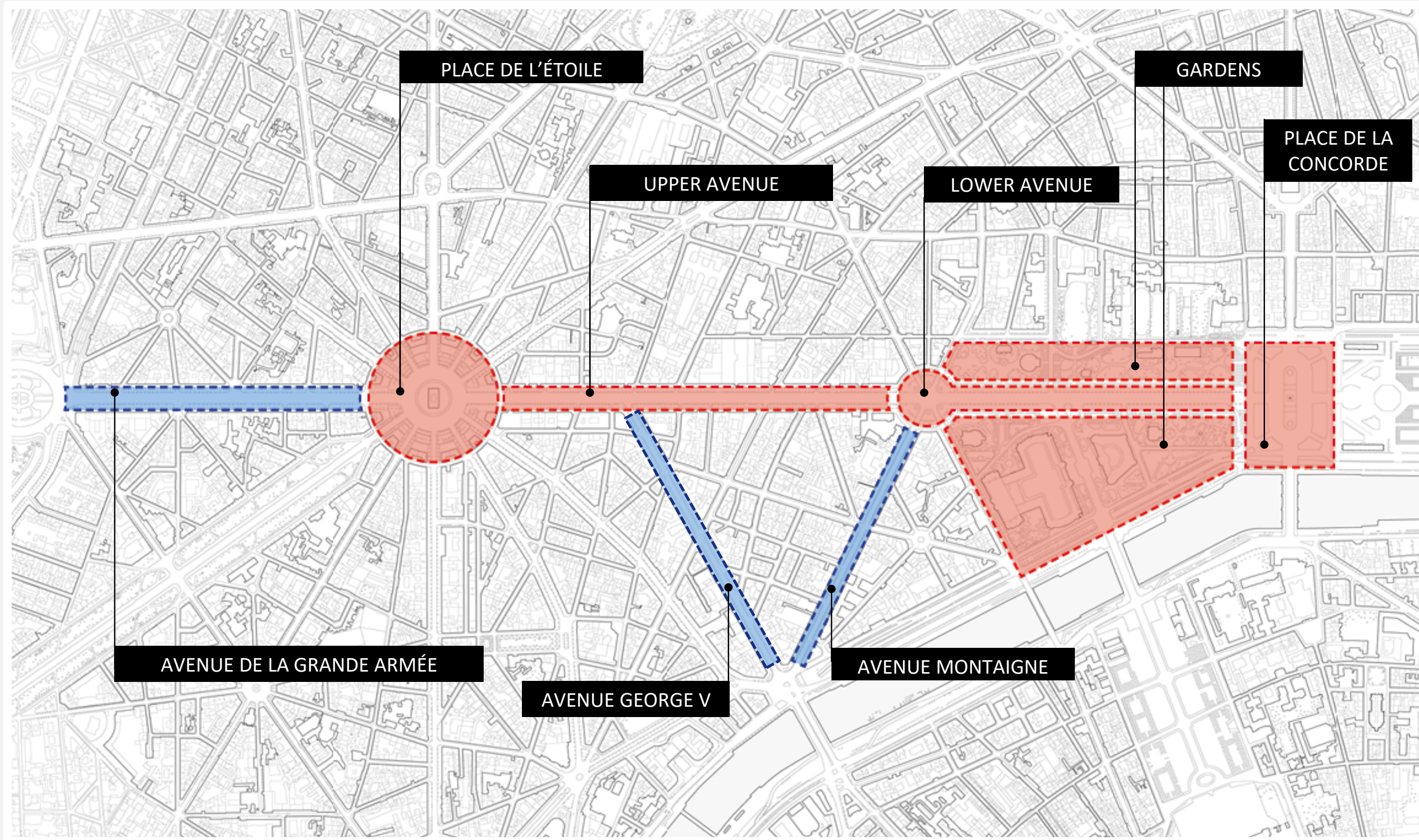


Bulgari



Ring road

Lined with luxury boutiques



OPERATING PERIMETER
56,2 ha

Project by zone (main perimeter)

- Place de l'Étoile
- Upper avenue / Lower avenue
- Gardens between the avenue Gabriel and Cours la Reine
- Place de la Concorde

EXPANDED PERIMETER
4,4 ha

Vision by zone (enlarged perimeter)

- Avenue Montaigne
- Avenue George V
- Avenue de la Grande Armée

MAKE CHAMPS-ELYSEES A DESTINATION FOR ALL

- Comfort
- Accessibility
- Promenade
- Bring Parisians back



REMAKE CHAMPS-ELYSEES AS A PLACE OF INNOVATION

- Showcase for excellence in urban engineering
- Augmented experience for walkers



MEETING ENVIRONMENTAL CHALLENGES

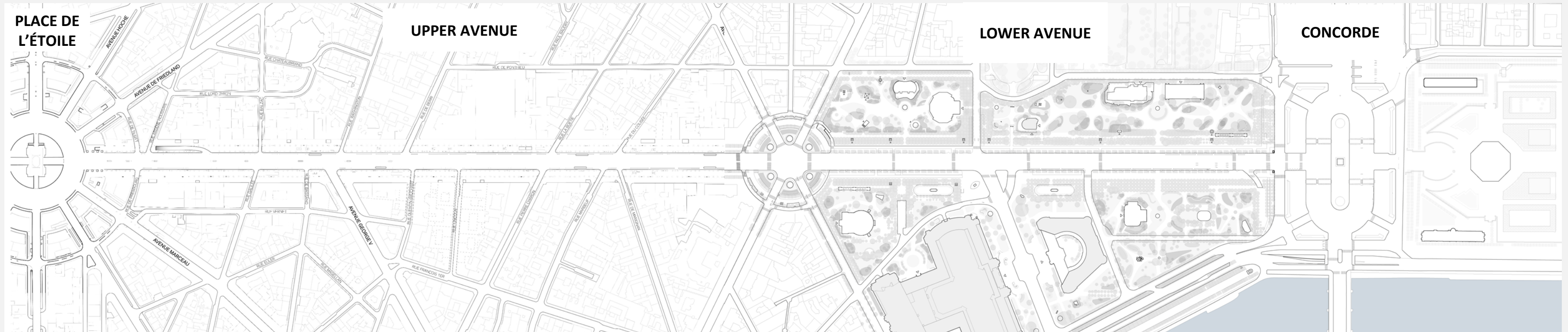
- Adapt to and mitigate global warming
- Reinforce green and blue belts
- Greenery



RESTORE OVERALL AESTHETIC QUALITY

- Enhance perspectives and heritage qualities





PHASE 1: ANALYSIS OF THE CURRENT SITUATION

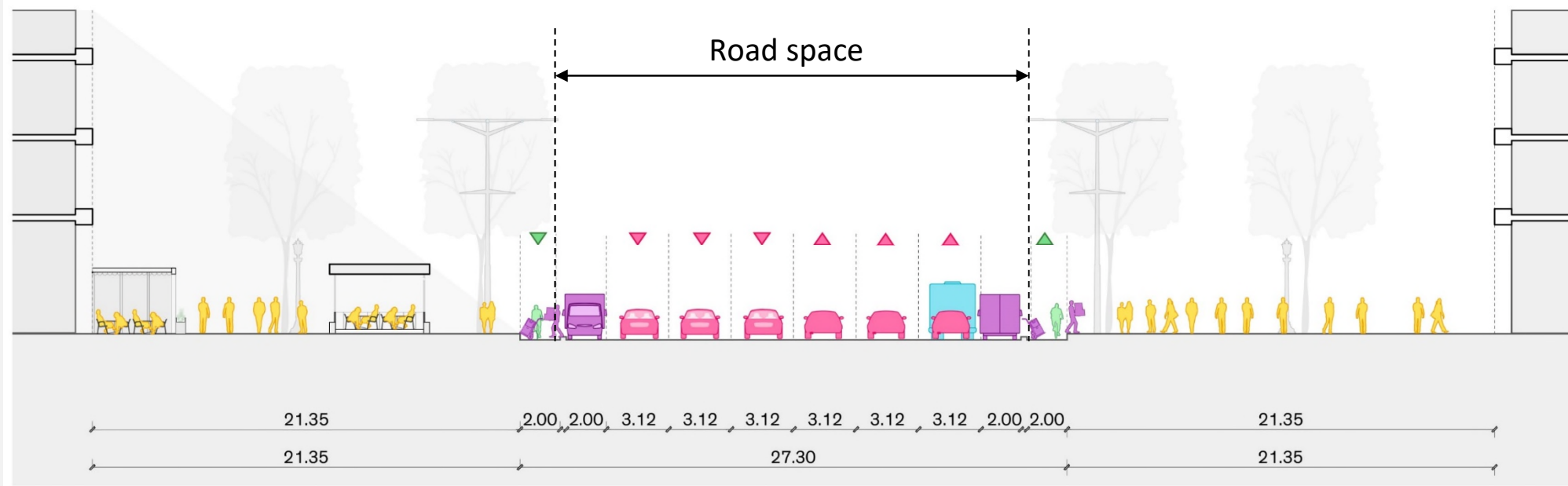
Objective:

- Analyse the current situation
- Understand the urban functions
- Define user needs

PHASE 2 : TESTING DIFFERENT SCENARIOS

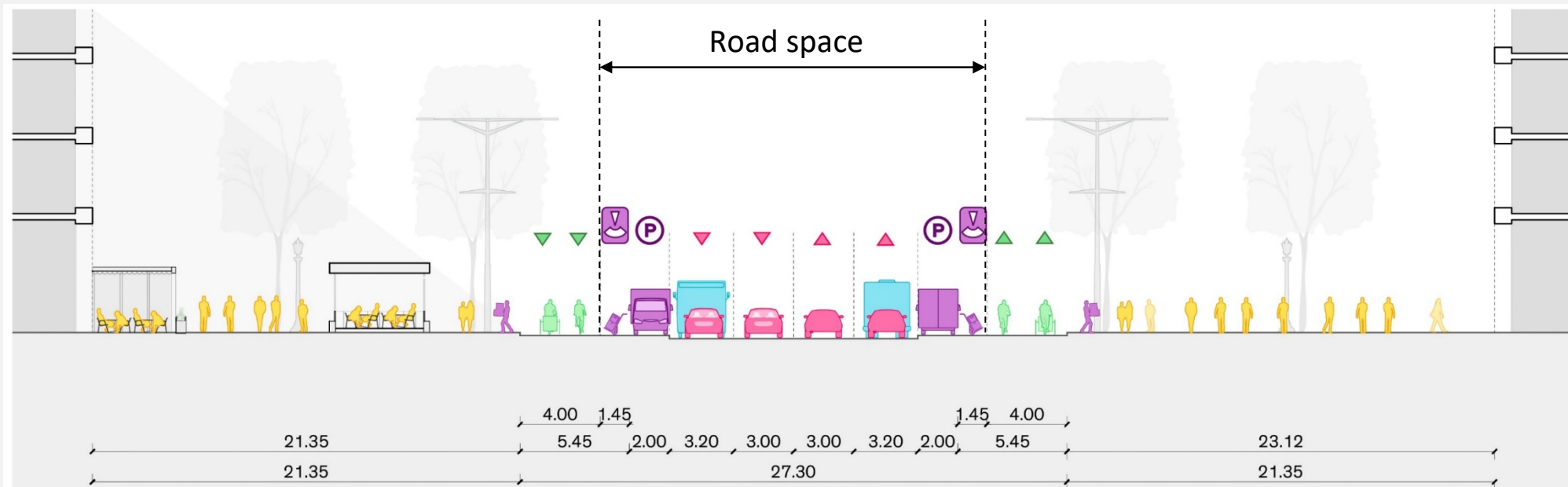
Objective :

- Diagnose existing “hard spots”
- Simulate traffic conditions



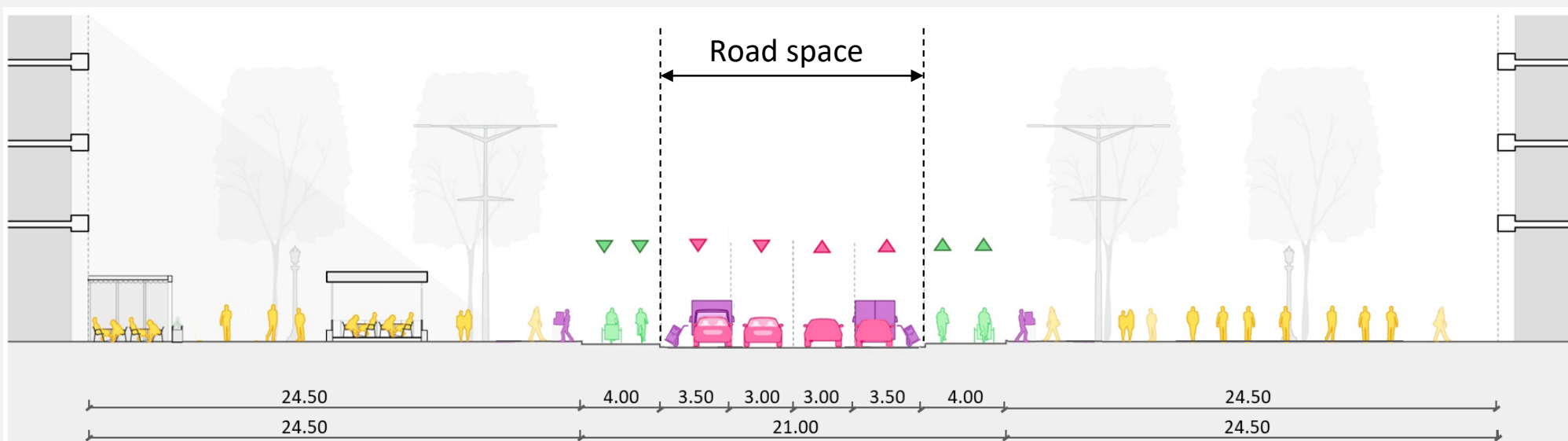
The avenue today

- 2m bike path width
- Logistics deliveries unloading on the bike paths



Project scenario at the beginning of the mission

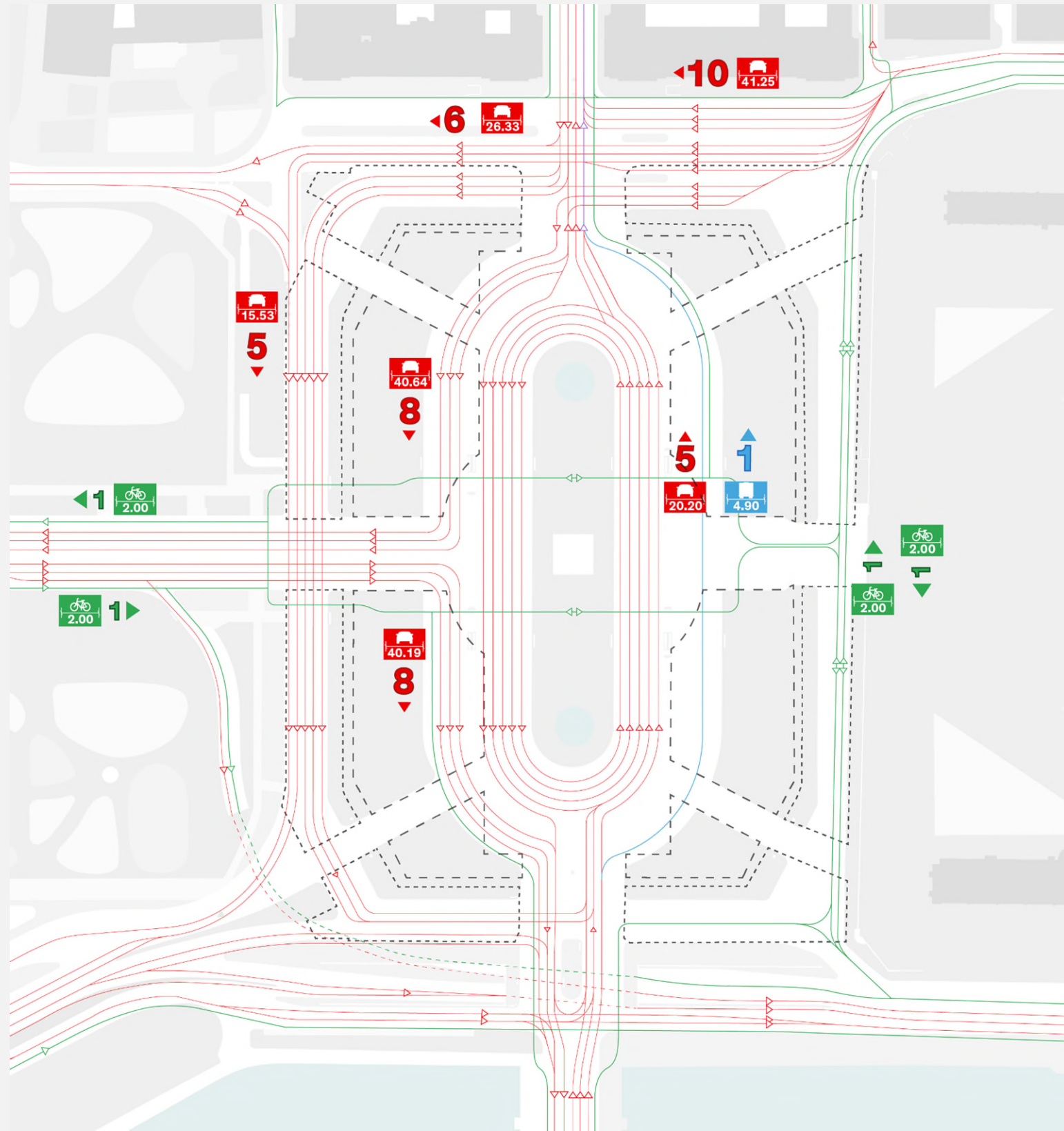
- - 1 car traffic lane in each direction
- + 2 m for bike paths
- + 1 lane for deliveries on each side of the street



Project scenario 2x2 lanes

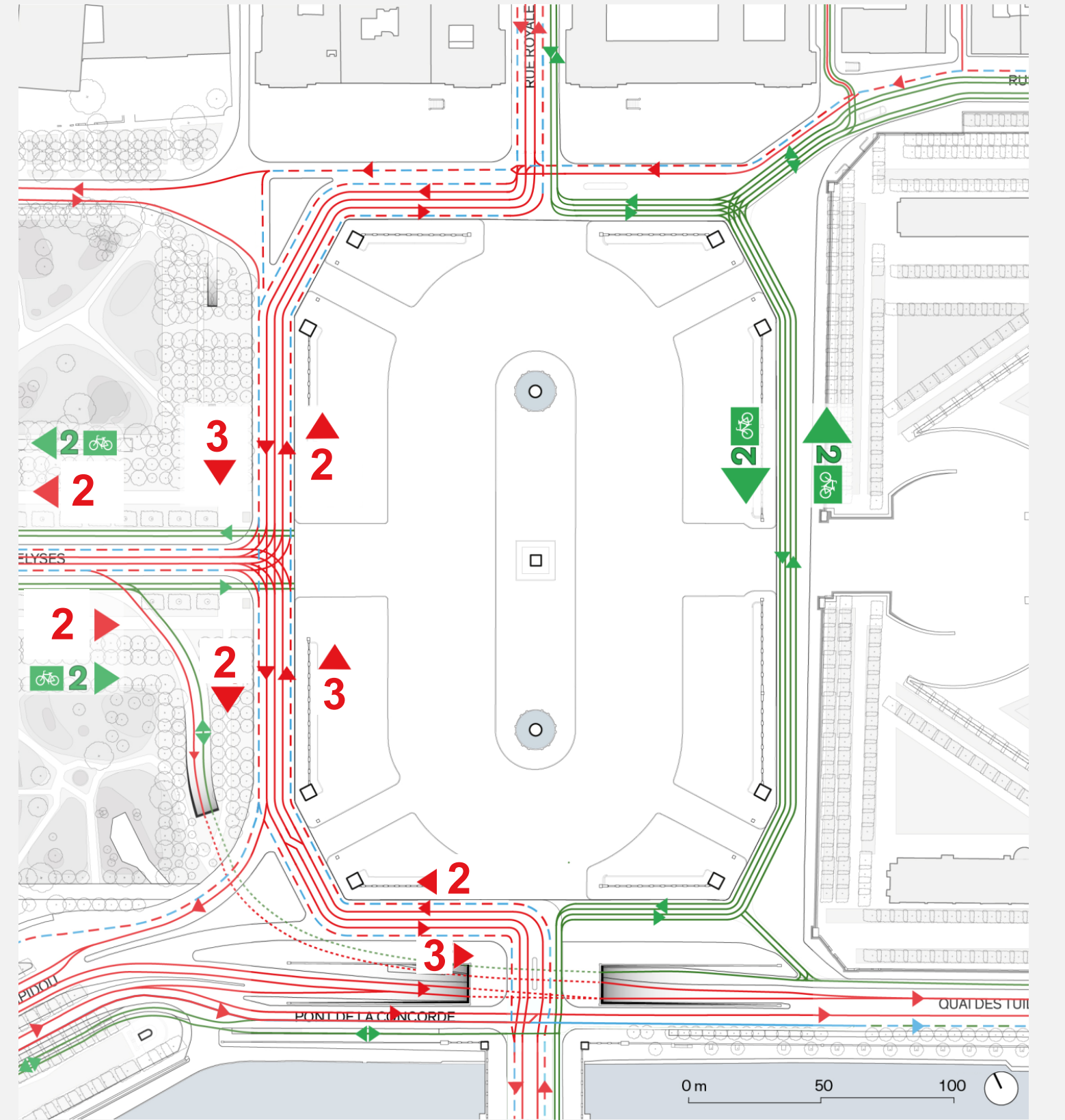
- + 3,15 m for sidewalks

Today



- Large space left for cars
- Unattractive place for active modes

Project scenario



- Cars only one side of the square
- Almost all the space for active modes of transport

Champs-Élysées

62%
proportion of
pedestrians



No refuge islands
→ tourists at risk in the
middle of the street

Street furniture
obstructing crosswalks



Space constrained by restaurant terraces

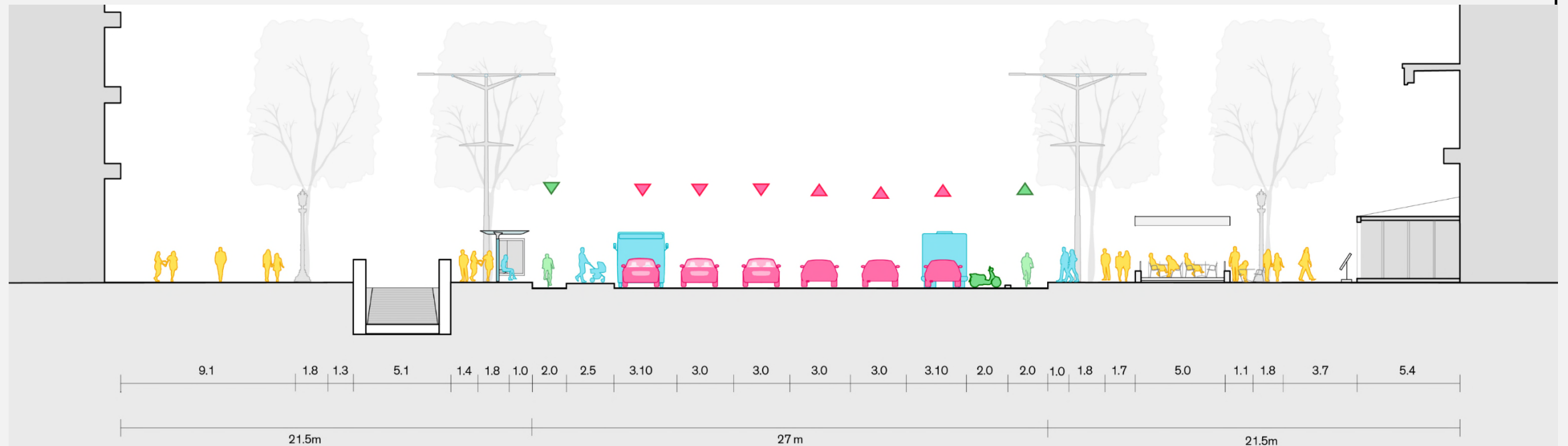
Very long and unsafe crossings

Flow problems

→ Reduce road
width

Reduce the length of the
crossing

Increase sidewalks



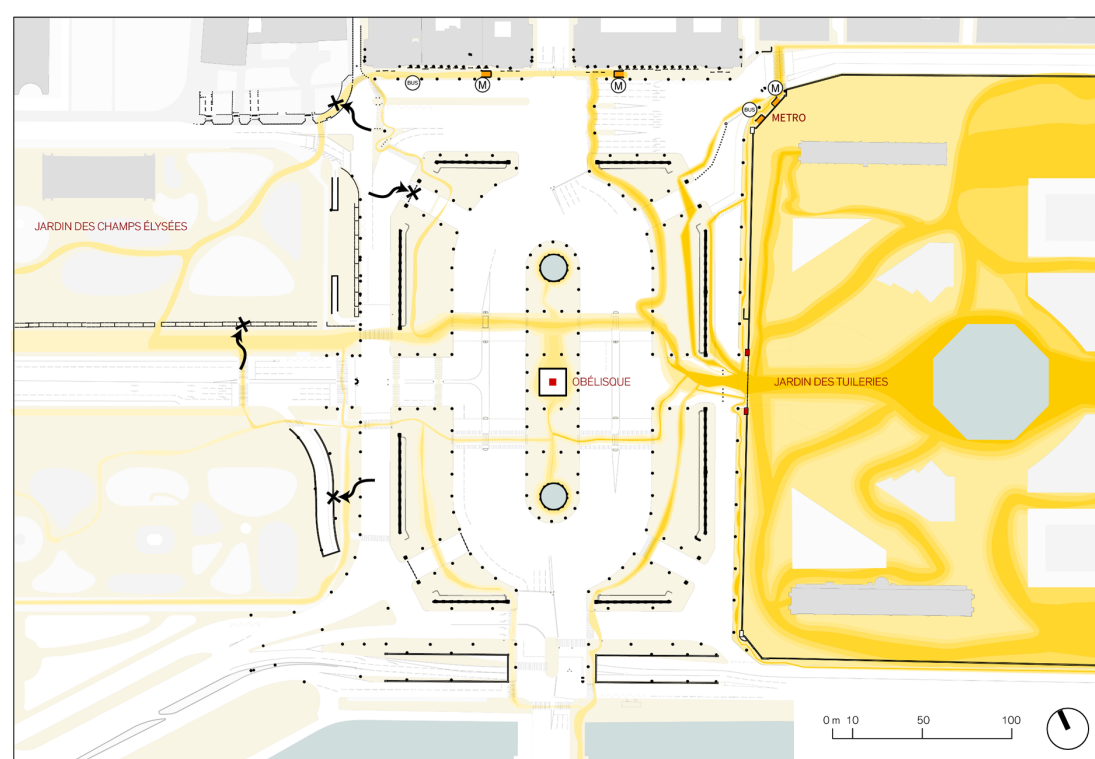
Place de la Concorde



Problems of comfort, space and legibility

Recommendation:
→ Refuge island for crossings over 12 metres

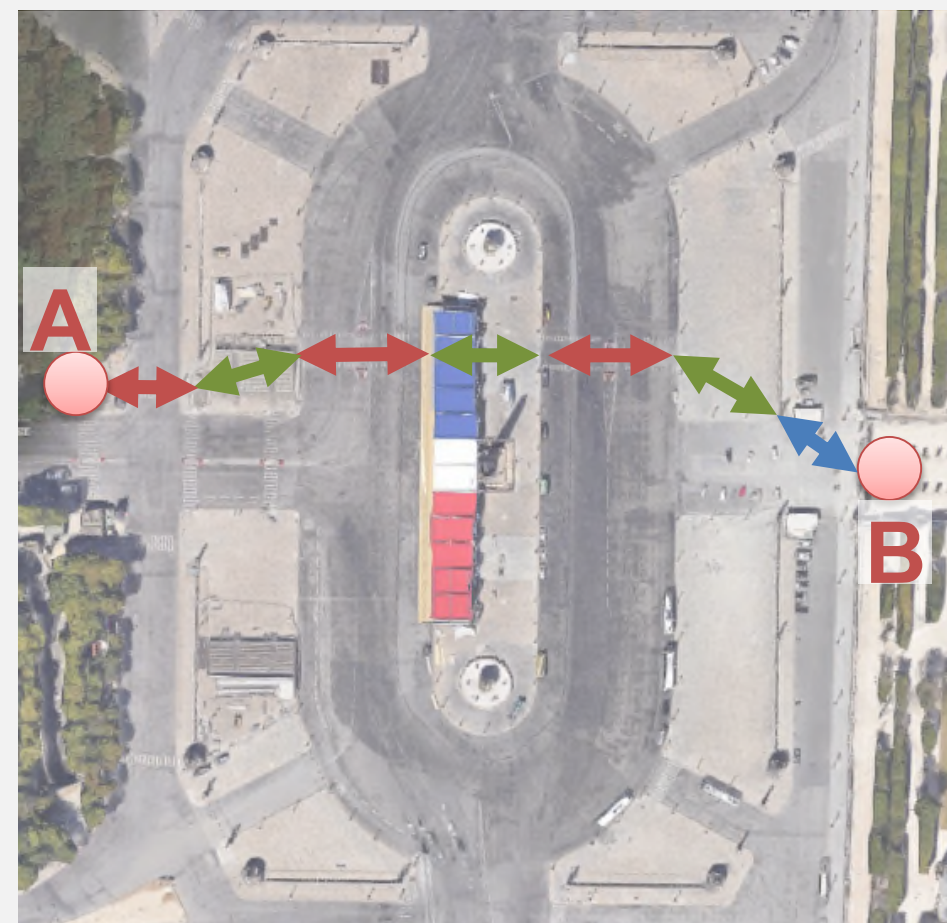
The Place de la Concorde acts as an urban barrier.



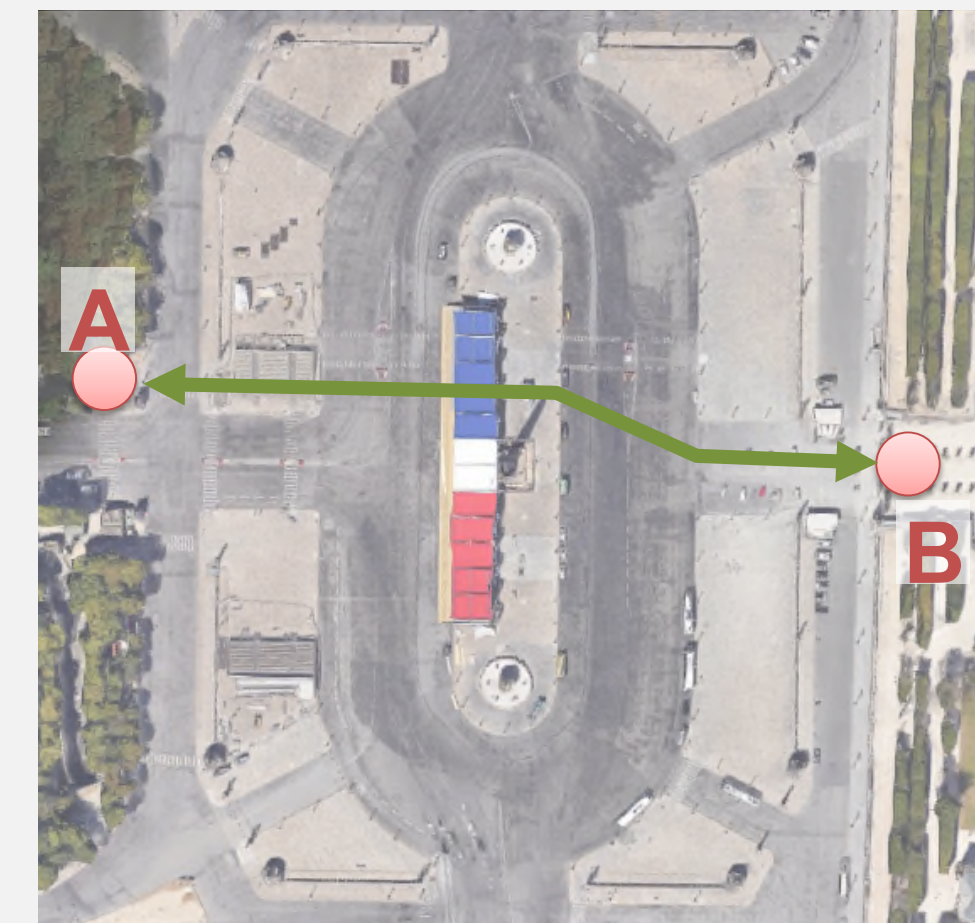
JOURNEY TIME BETWEEN A AND B

Today

From A to B without mode conflicts



5 minutes and 42 seconds



3 minutes and 33 seconds

→ Improve markings on crossings

→ Reduce the length of crossings

→ Improve pedestrian continuity between the Jardin des Tuileries and the Avenue des Champs-Élysées.

→ Improve the crossing of the area by reducing pedestrian travel time

↔ Crossing in conflict with motorised vehicles

↔ Sidewalk

↔ Crossing in conflict with bicycles

Pedestrian speed used: 1m/s

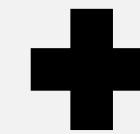
Champs-Élysées

Widening pavements to improve pedestrian flow



Place de la Concorde

Reducing conflicts between pedestrians and other modes of transport

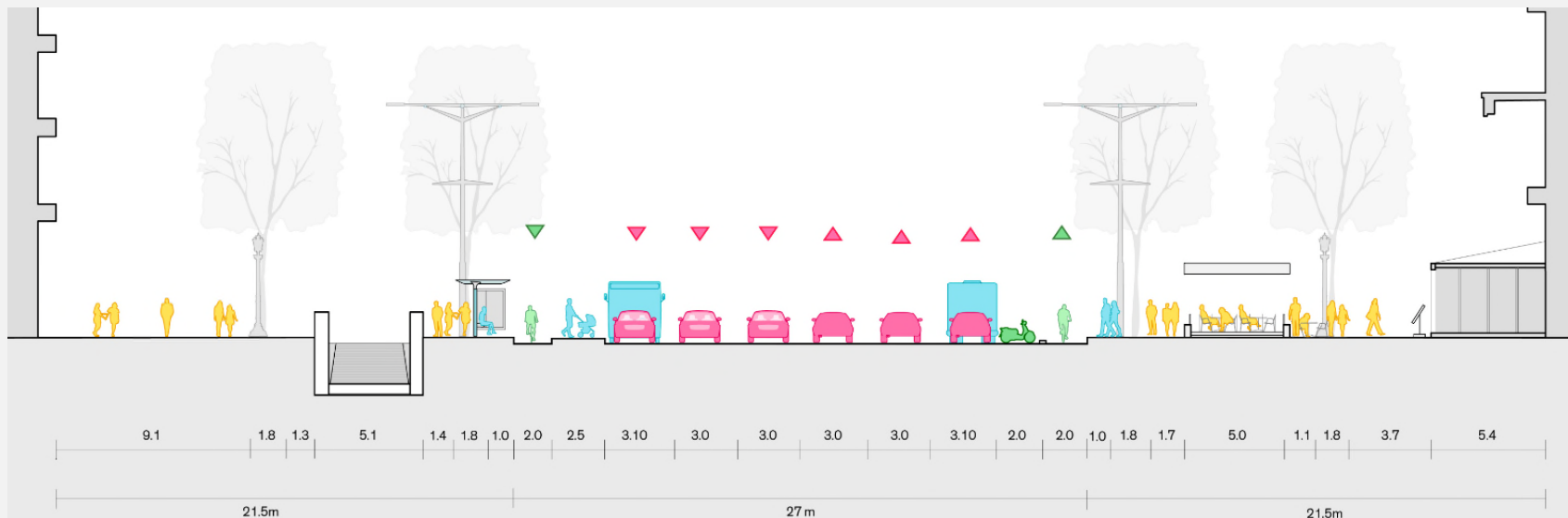


Reducing road crossing widths

Champs-Elysées

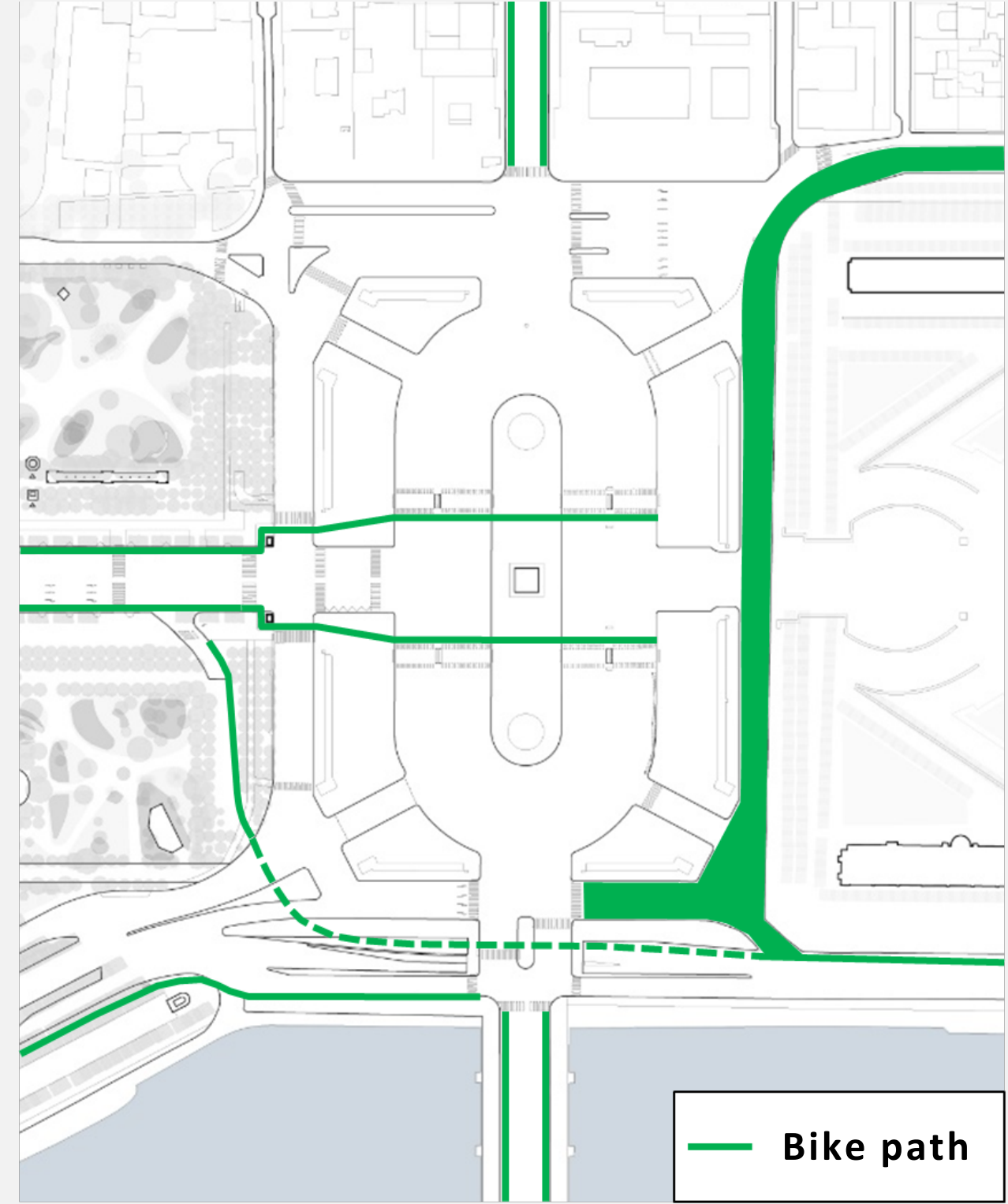
5%
proportion of
cyclists

Narrow bike path near parking lane



Place de la Concorde

Lack of legibility and continuity of facilities



Champs-Elysées

Place de la Concorde

Widening bike paths to improve bicycle traffic comfort



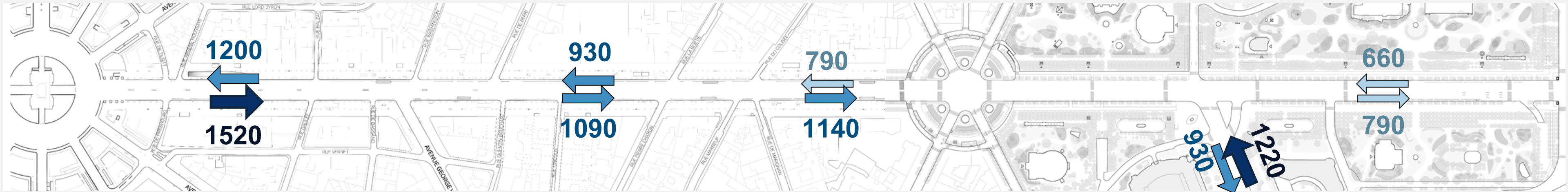
Provide continuous bike paths

Champs-Élysées

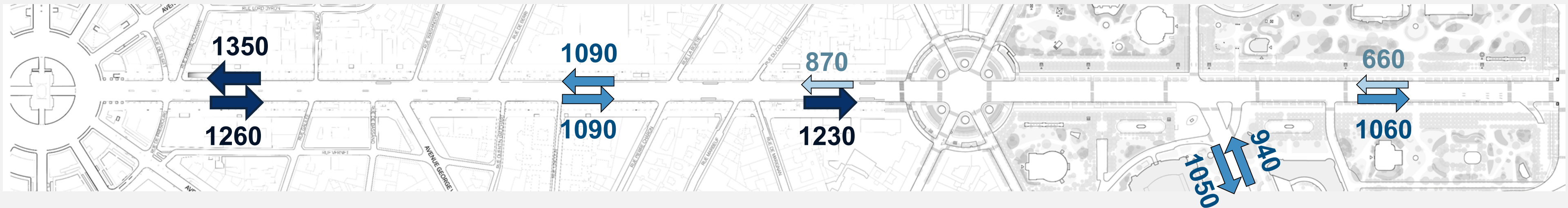
33%
proportion of
vehicles

15 500 vehicles/day
(17 200 travellers)

Paris city counts from 02/11/21 to 01/12/21
Average hourly working day between 8 and 10 a.m.



Average hourly working day between 5 and 7 p.m.



→ 2 traffic lanes in each direction

Importance of shops on the avenue → need to manage logistics and deliveries

Changing the use of a street to accommodate deliveries: example of rue Grenette, Lyon

BEFORE



AFTER



Rue Grenette, Lyon
2 lanes lined with shops

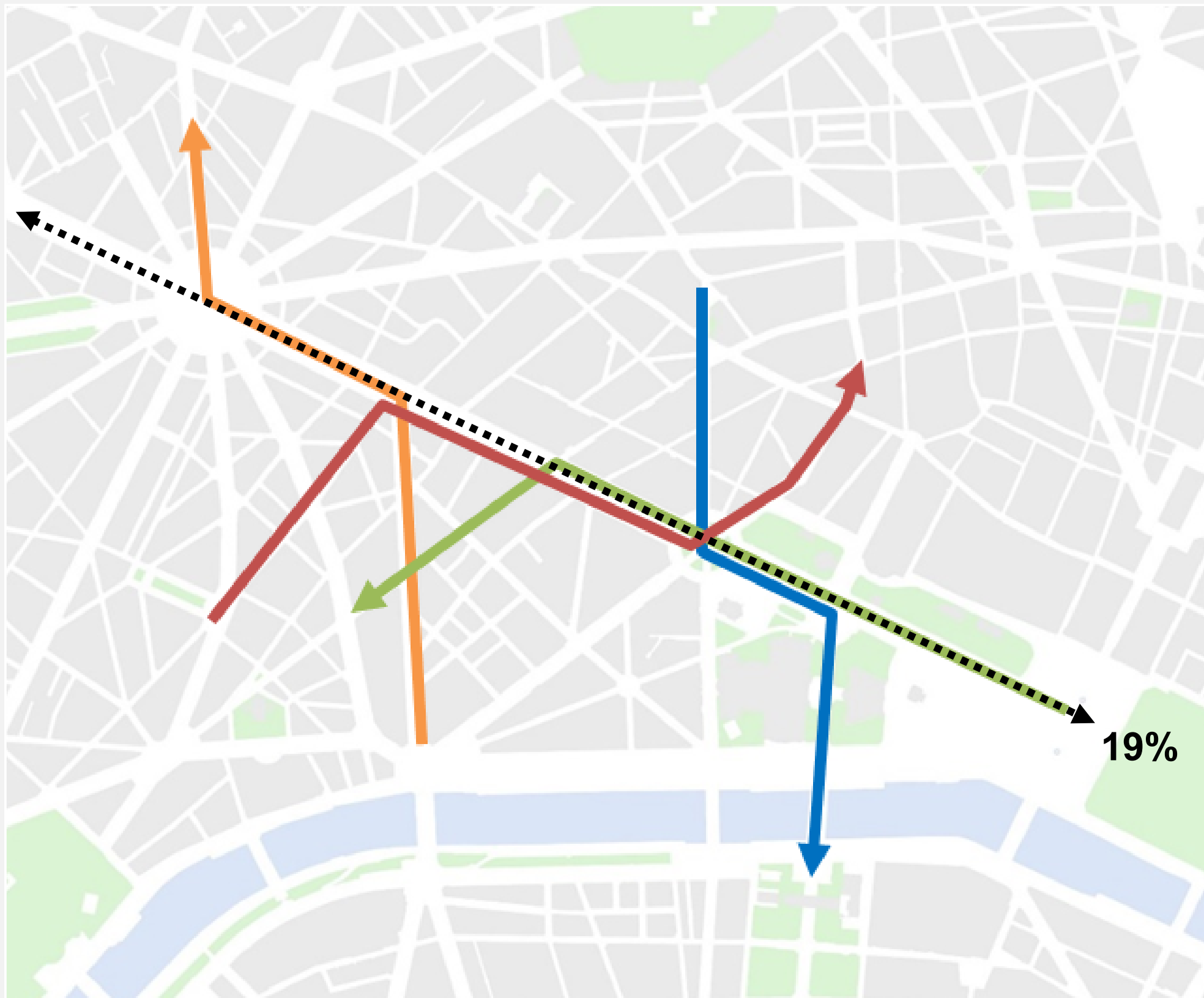
Since 2015
→ Right lane only for deliveries between 9:30am and 4pm

→ Manage logistics on the Champs-Élysées depending on the time of the day

- Day time: 2x2 lanes for all vehicles
- Night time: 2x1 lane + 1 lane for logistics

Champs-Élysées

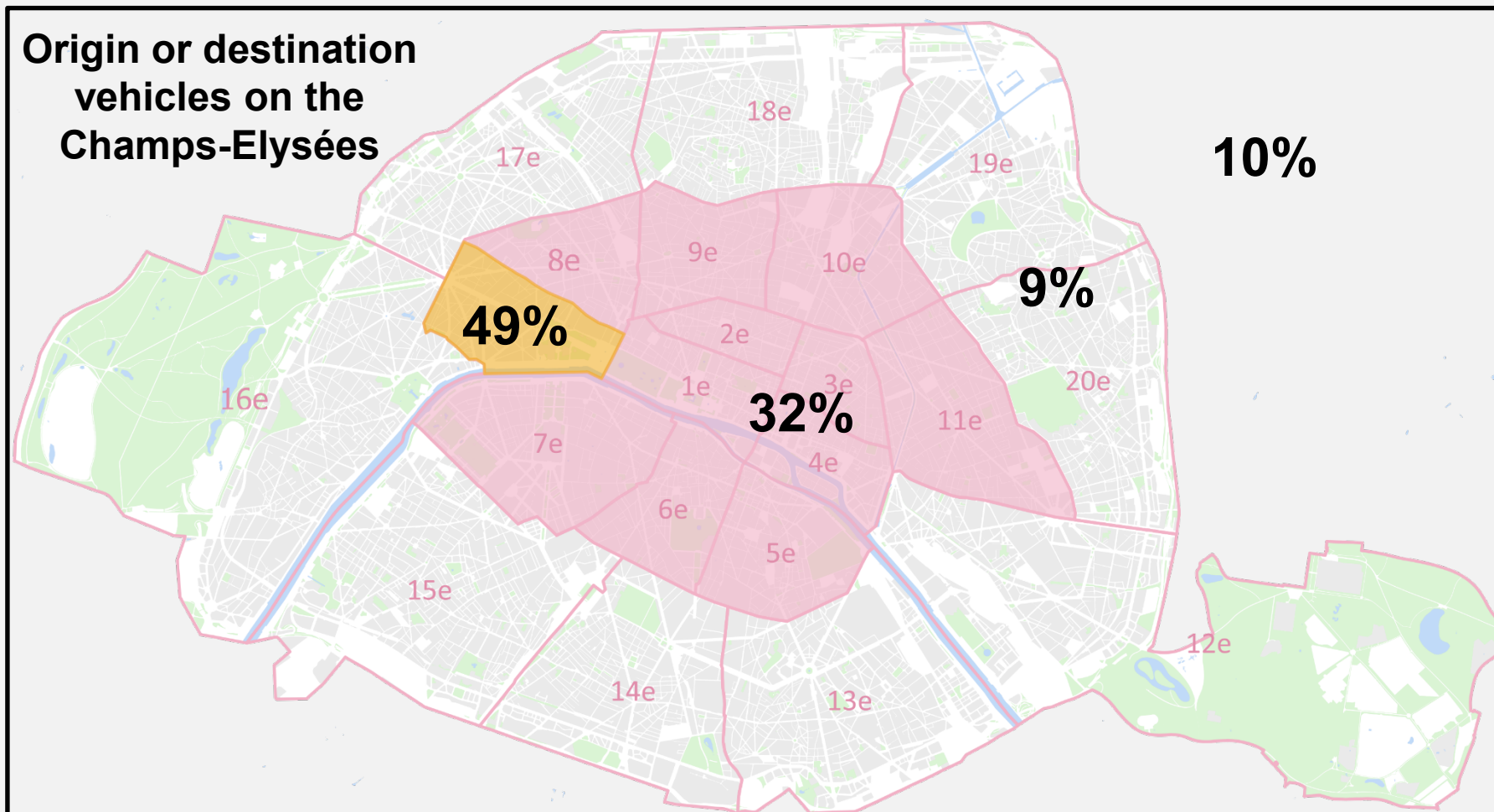
Examples of routes via the Champs-Élysées



Little car traffic on the entire Avenue des Champs-Élysées (19%)
 → This route is not recommended by GPS.

Majority of vehicles exchanging with Champs-Élysées → Bayonet traffic

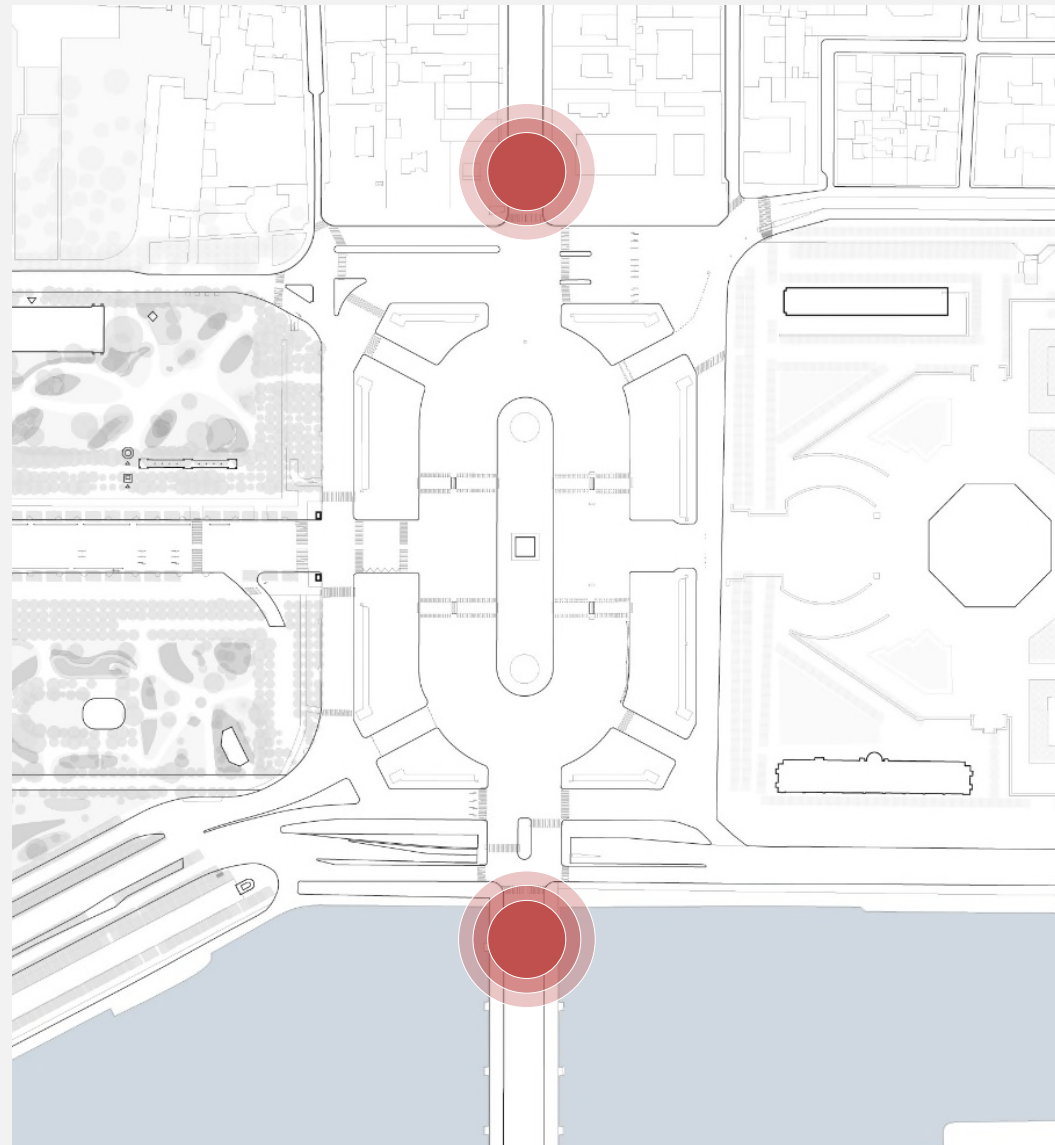
In the 49% linked to the area of the Champs-Élysées: 55% of trips < 3km



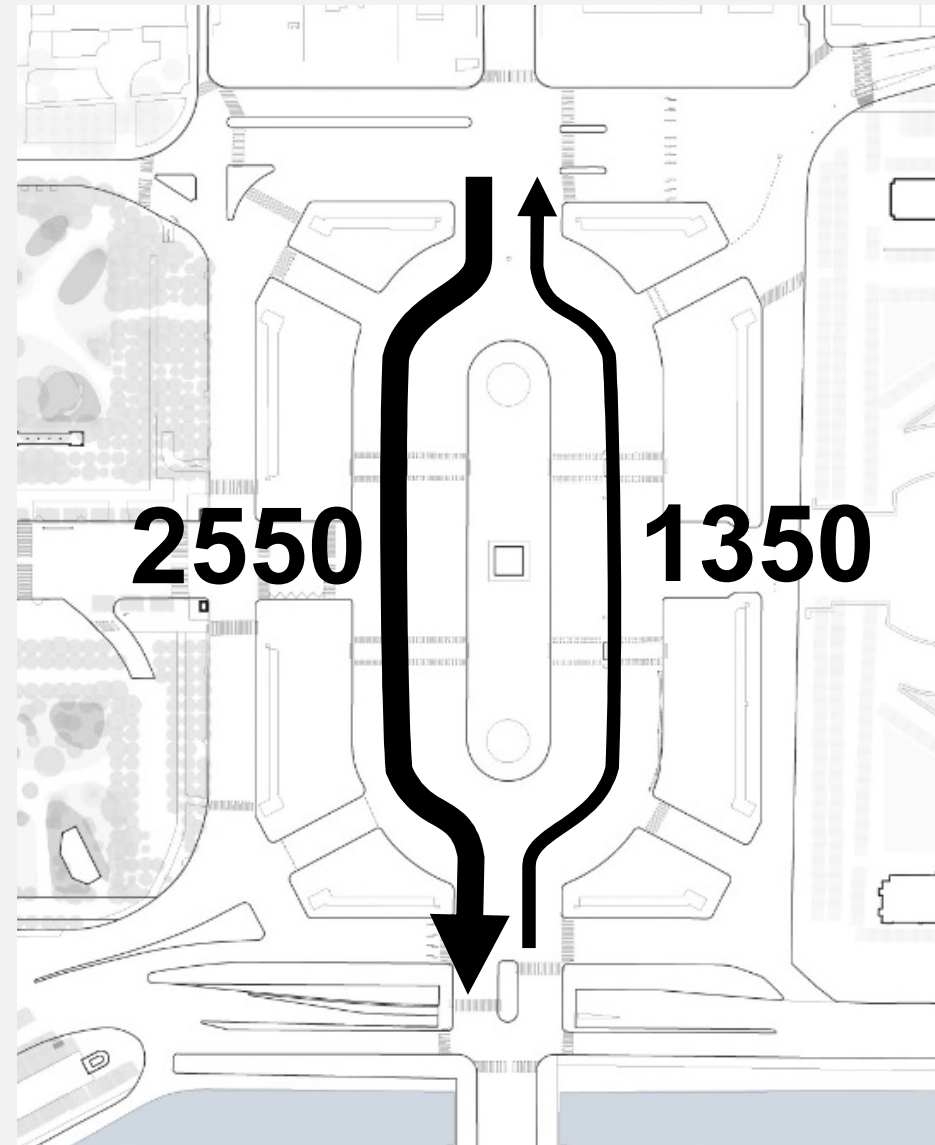
→ Maintain turning movements
 → Reduce transit flows through shifting traffic to the quays of the Seine, the ring road and public transport

Place de la Concorde

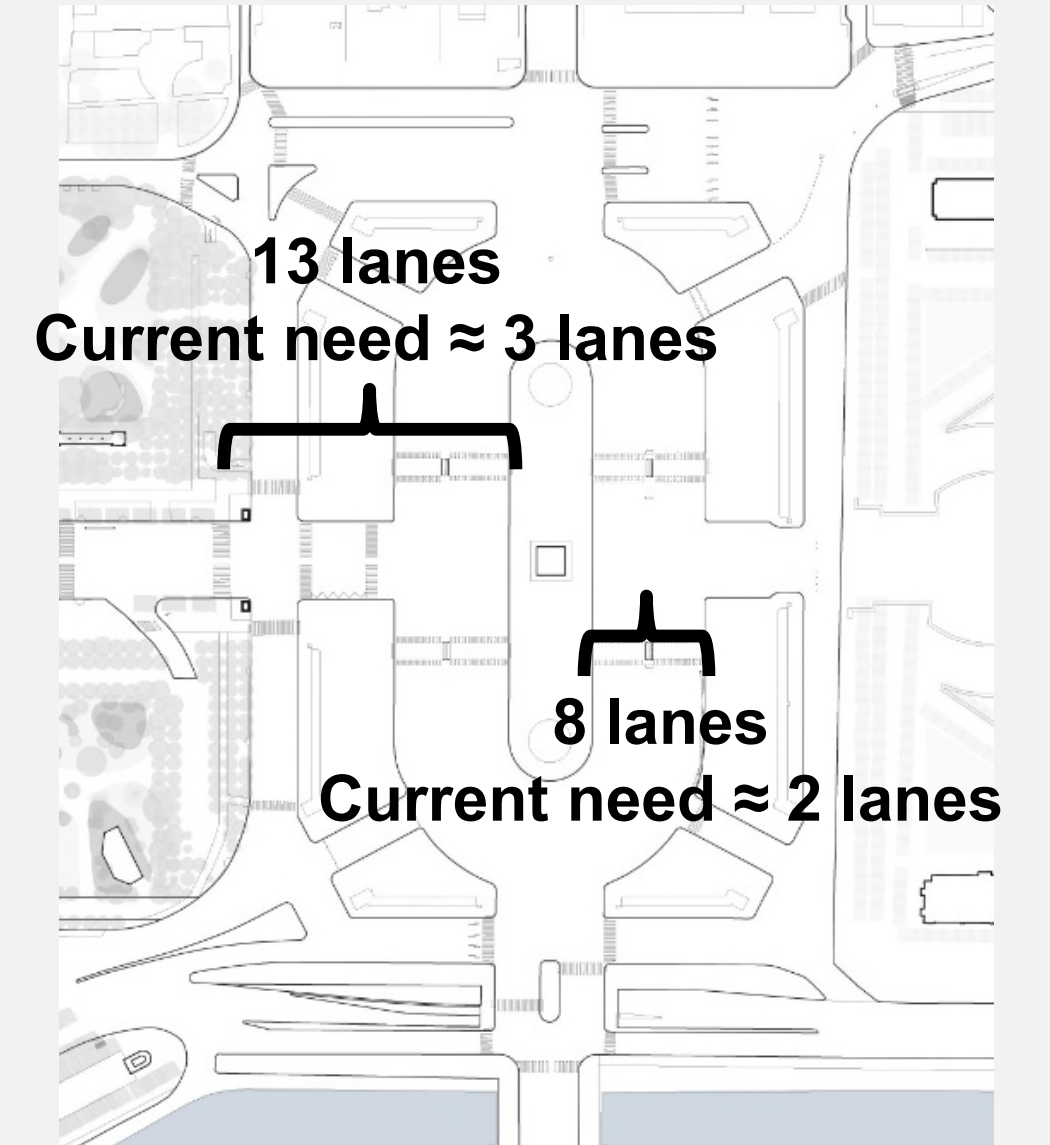
High demand from the south on the bridge and the north



Dissymmetry of upward and downward flows



Oversized space dedicated to cars in relation to current traffic levels

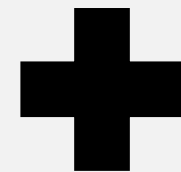


Champs-Élysées

Take into account delivery services to businesses

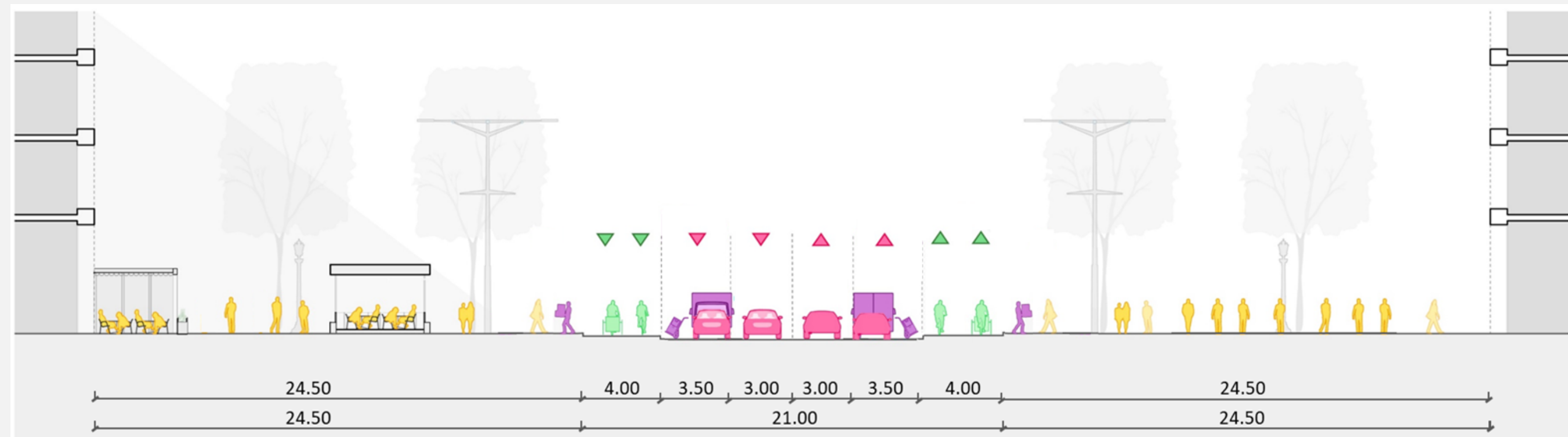


Importance of managing turning movements



Place de la Concorde

Managing traffic bottlenecks: bridge and north access



Needs

Actions

Widening pavements to improve pedestrian flow



+ 3.15 meters of sidewalks

Widening bike paths to improve bicycle traffic comfort



4-metres wide cycle path

Take into account delivery services to businesses



A delivery lane for use at night

Importance of managing turning movements



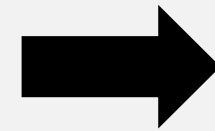
Two traffic lanes to manage turning flows during daylight hours

Vehicles on the west side
Bicycles on the east side
Most of the space for pedestrians

Needs

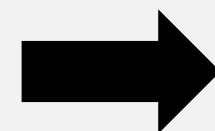
Actions

Reduce the space dedicated to vehicles

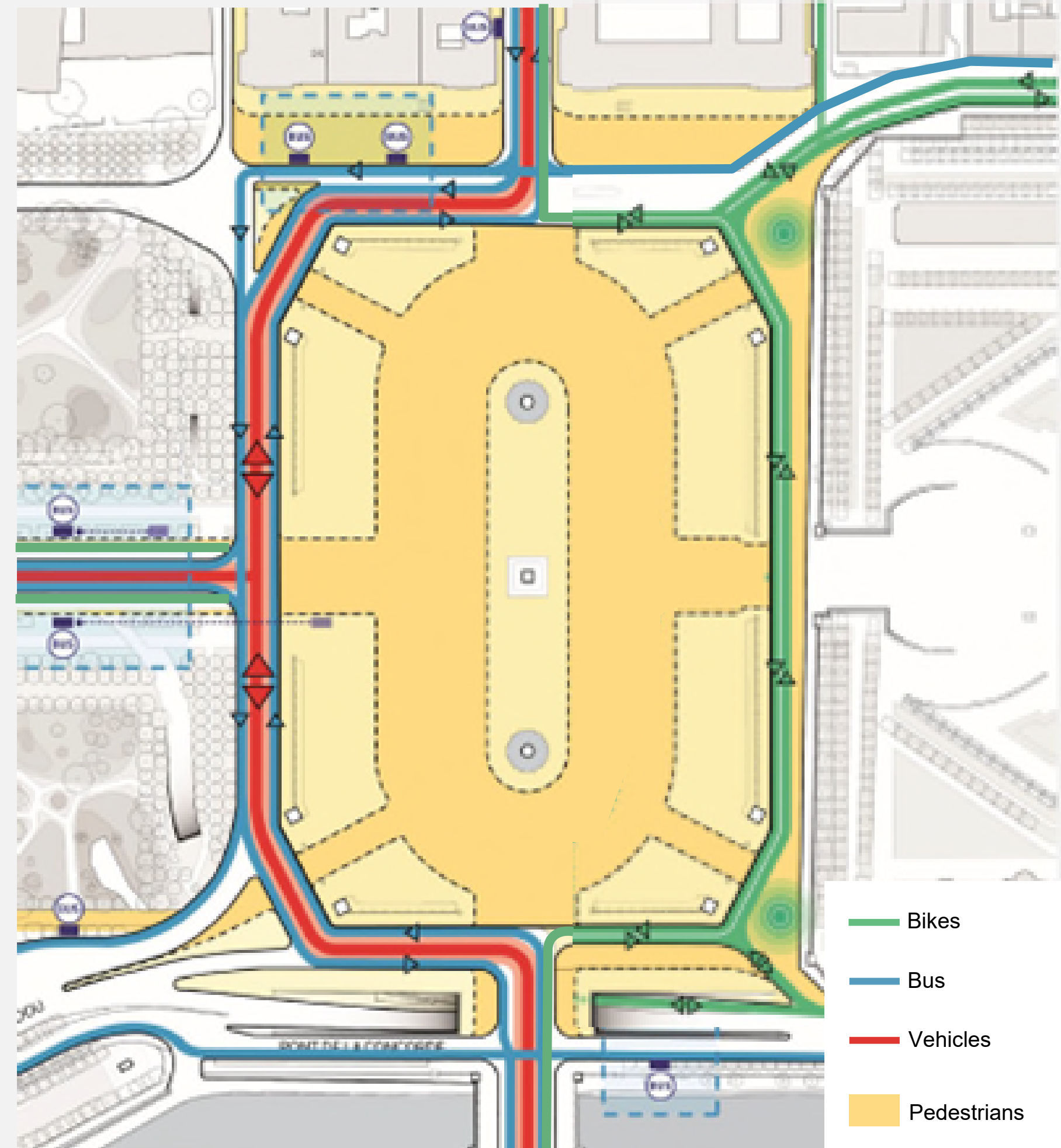


Car traffic on one side

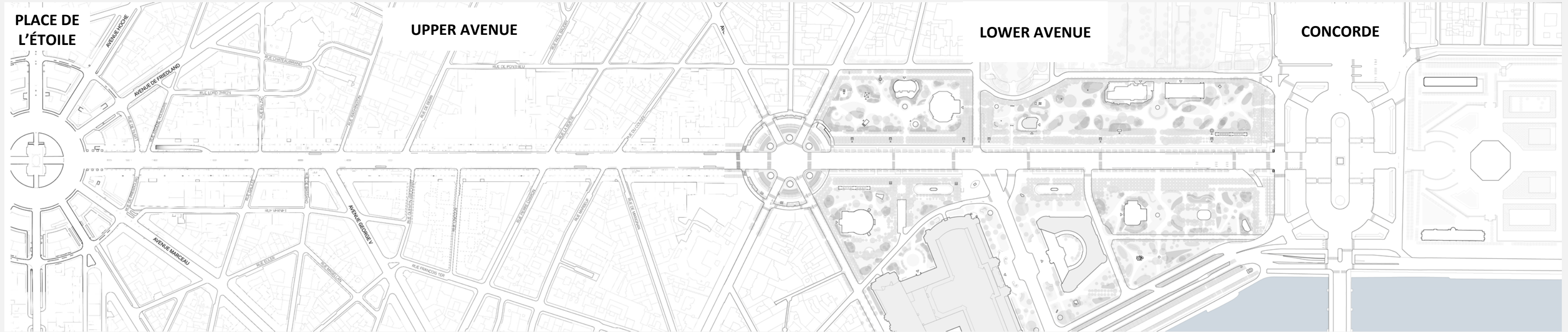
Provide continuous bike paths



Continuous bike path around the square



- Bikes
- Bus
- Vehicles
- Pedestrians



PHASE 1: ANALYSIS OF THE CURRENT SITUATION

Objective:

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- Define user needs

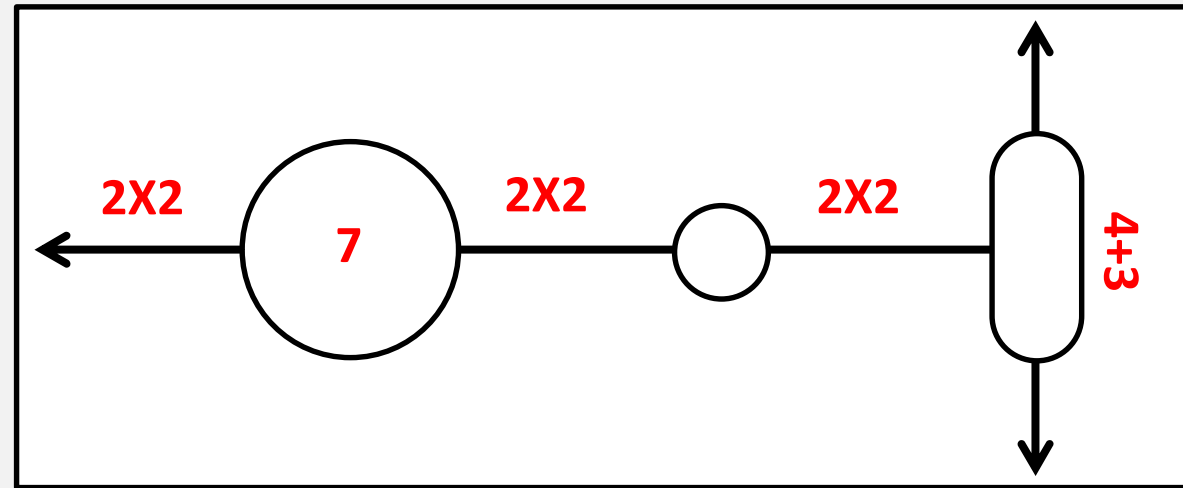
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Objective :

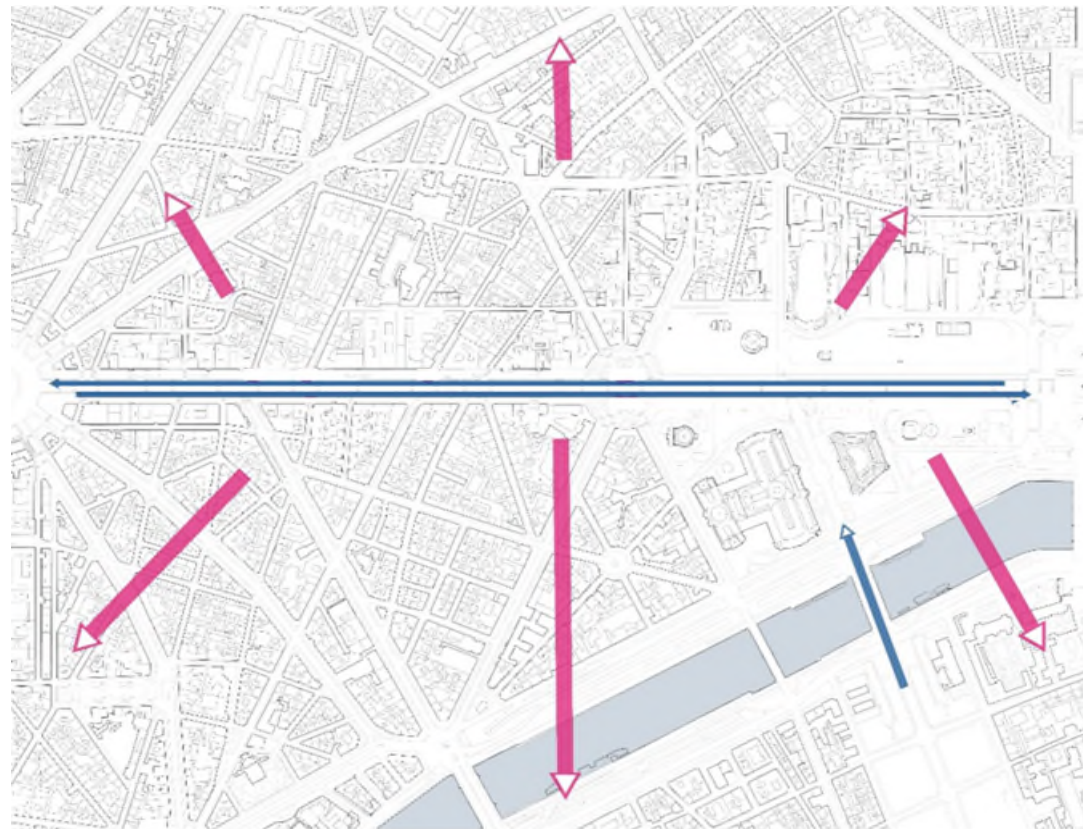
- Diagnose existing “hard spots”
- Simulate traffic conditions

SCENARIO 1

Scenario proposed at the beginning of the study

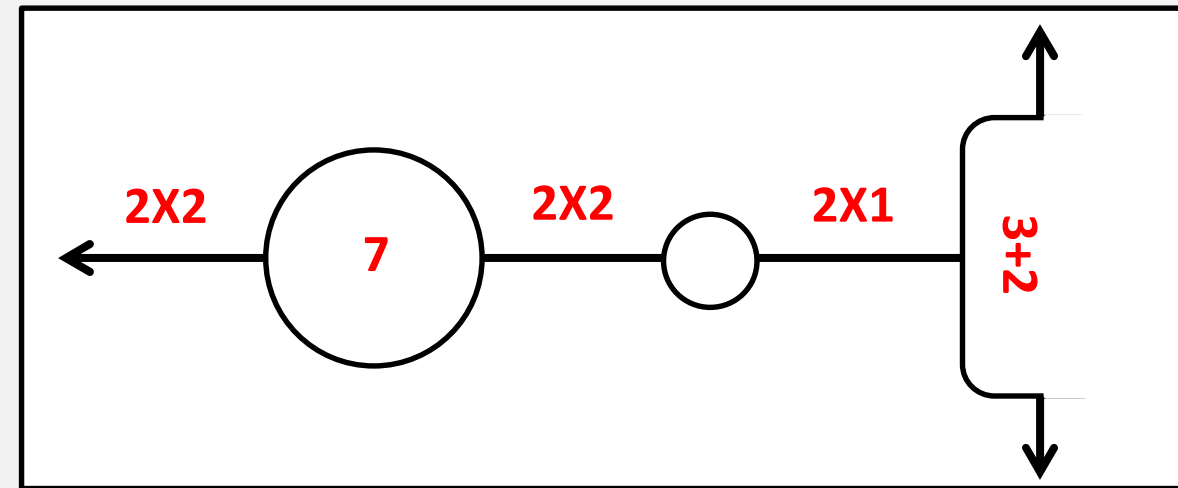


19% reduction in traffic

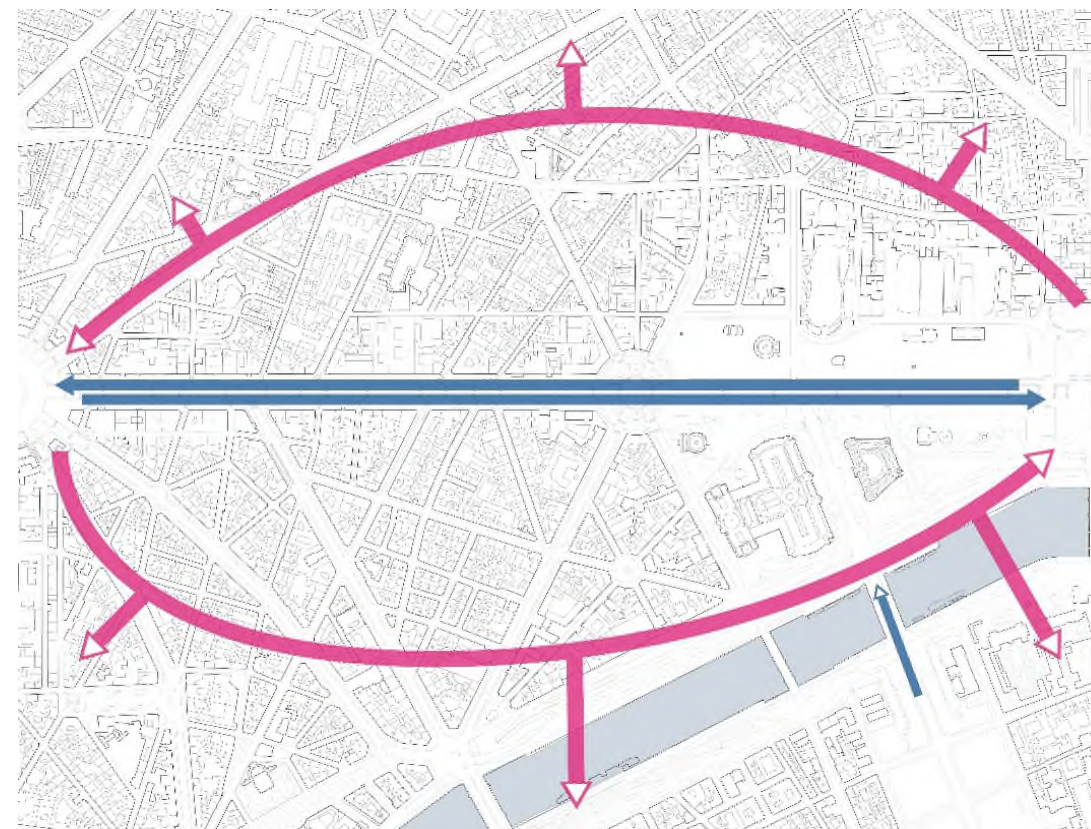


SCENARIO 2

Scenario consistent with identified needs for both the avenue and the square

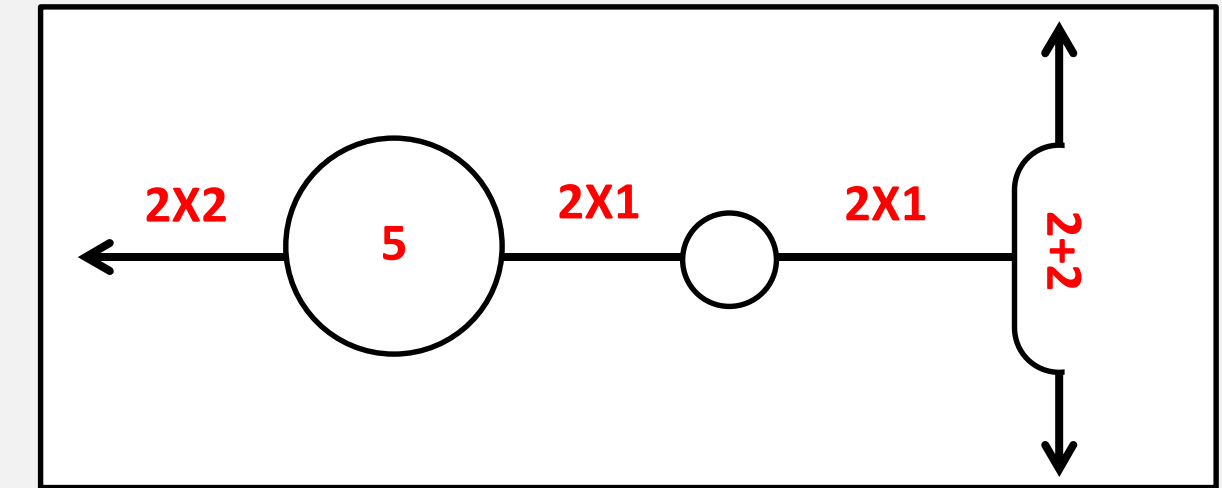


23% reduction in traffic

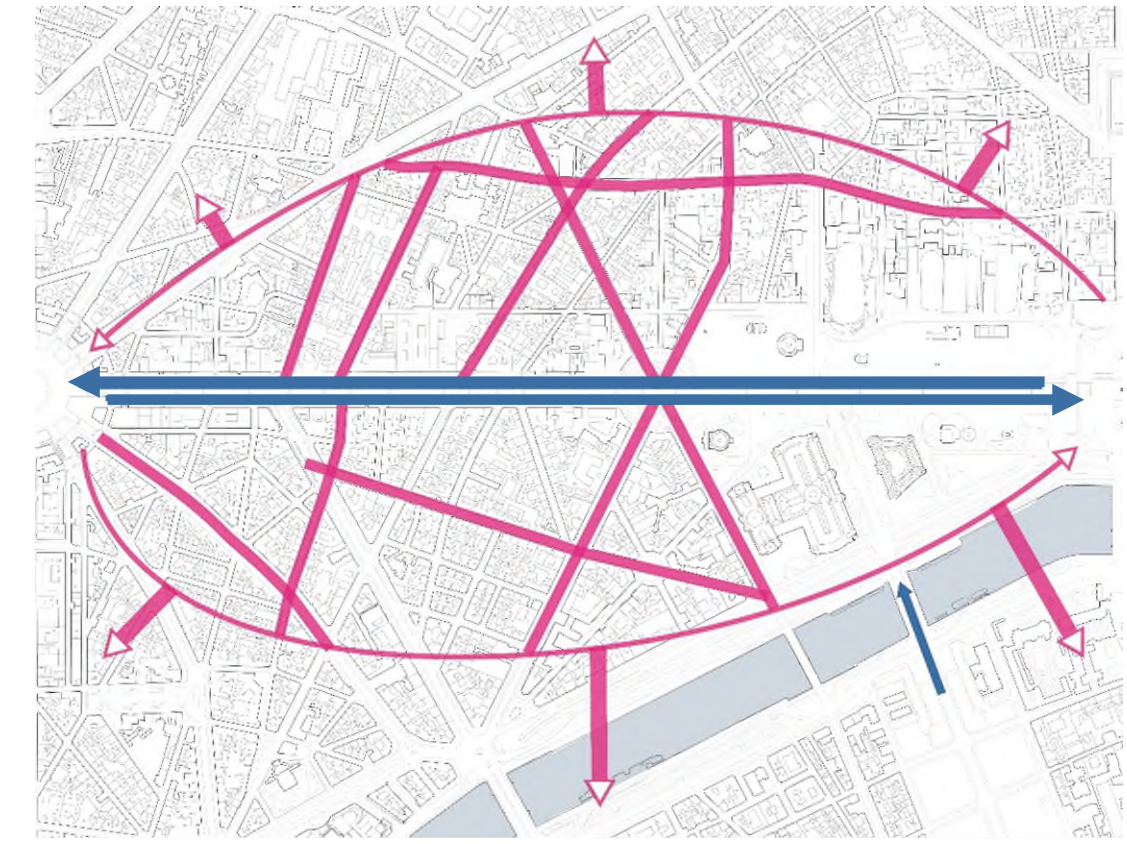


SCENARIO 3

Optimistic scenario with a sharp reduction in the space dedicated for vehicles on the avenue

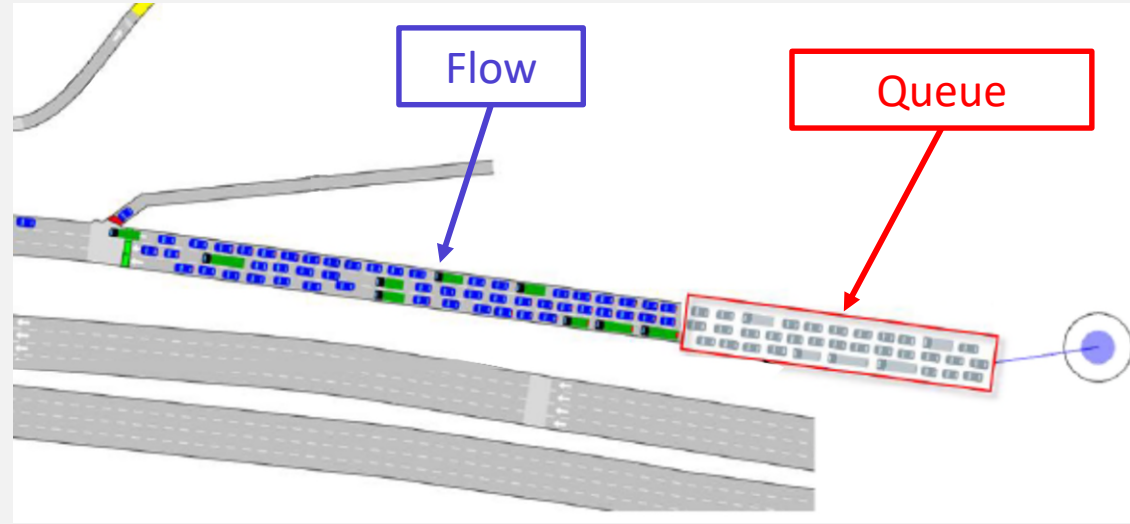


37% reduction in traffic



Microscopic simulation only on the Place de la Concorde

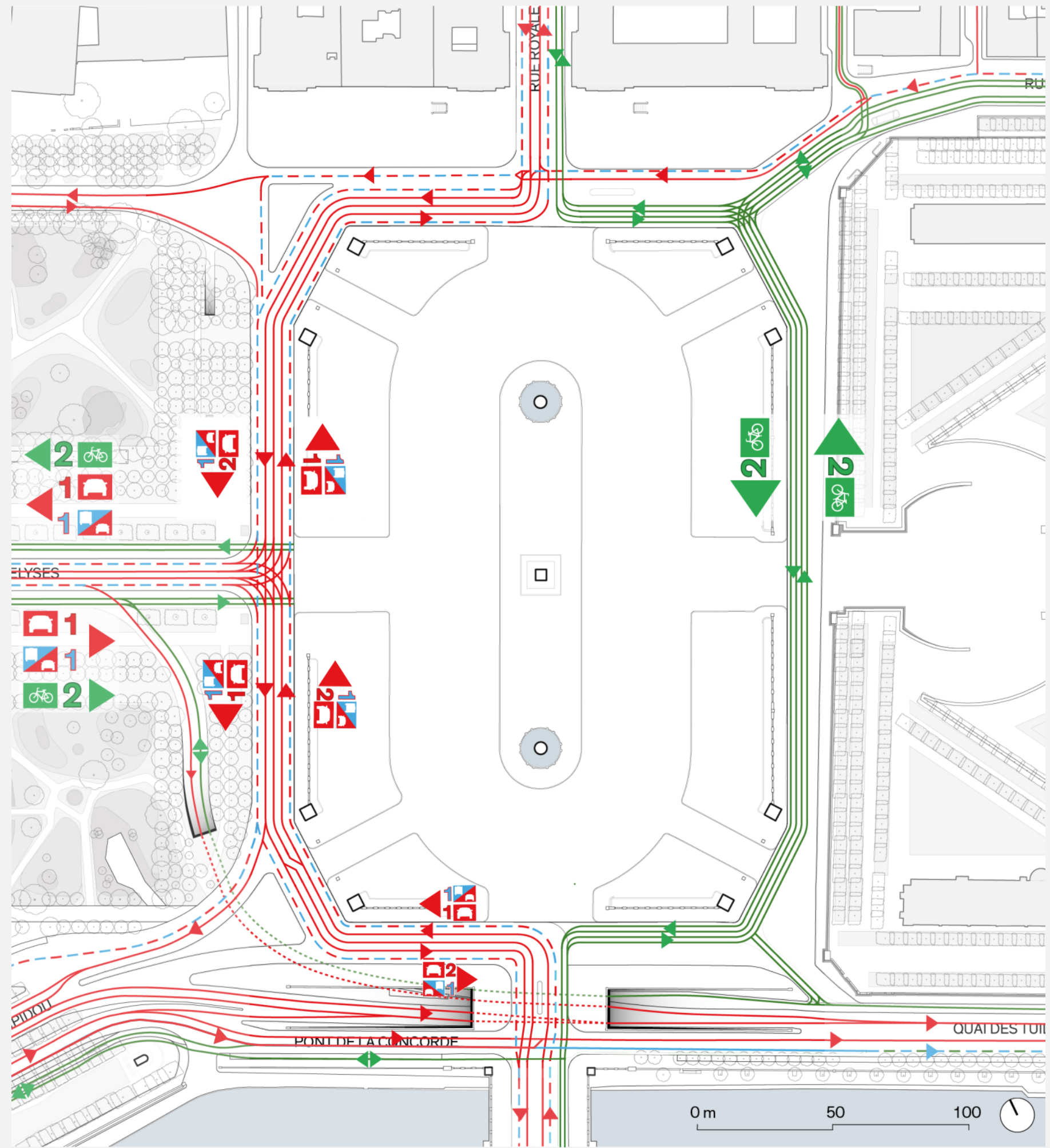
Morning Peak Hour			Evening Peak Hour		
Demand	Queue	% of vehicles unable to enter the model	Demand	Queue	% of vehicles unable to enter the model
20 417	3 019	14,8%	22 378	7 185	32,1%



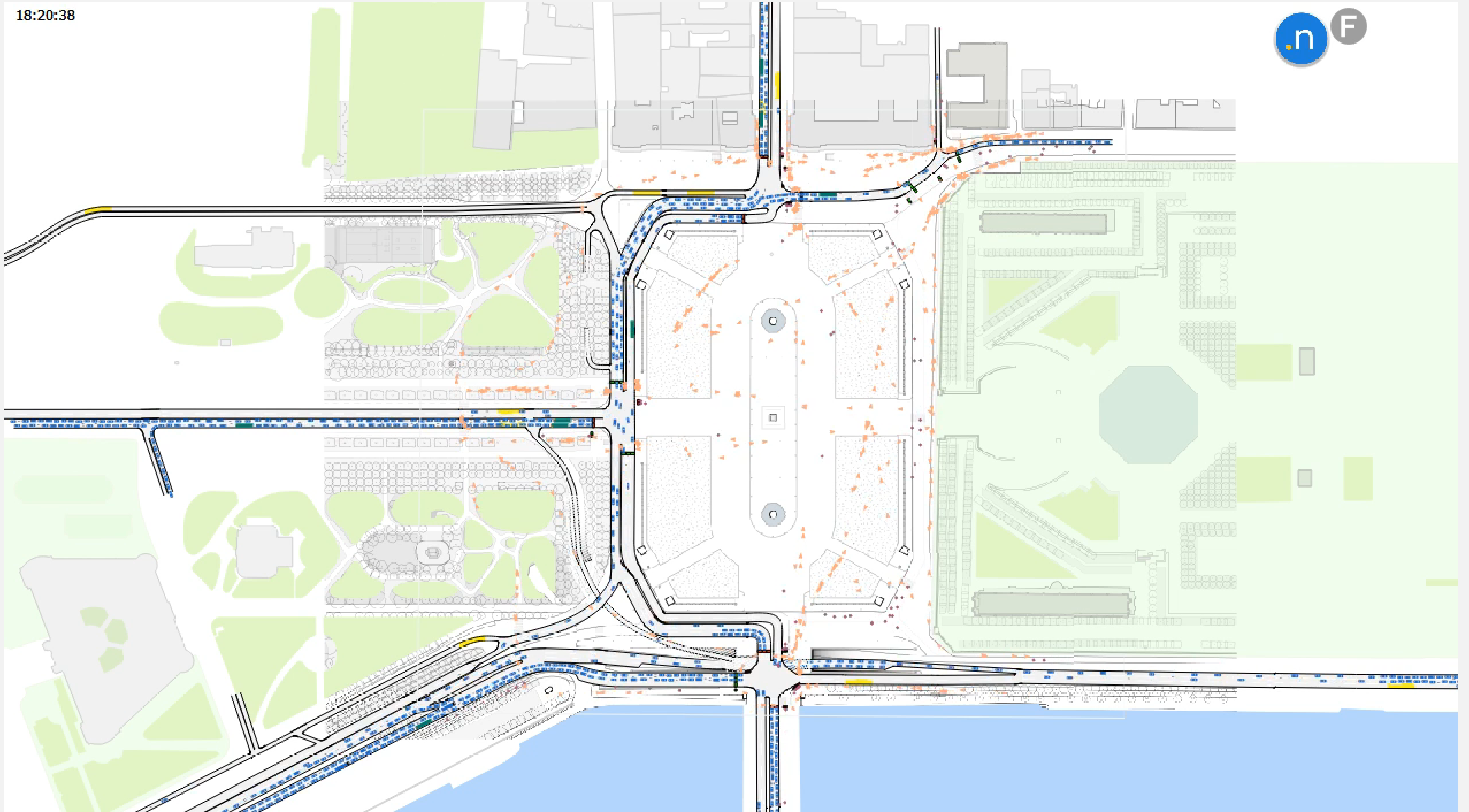
With the traffic forecasts, the configuration does not allow traffic to flow.

↓

Need to think about related projects and their impacts



18:20:38



UPPER AVENUE

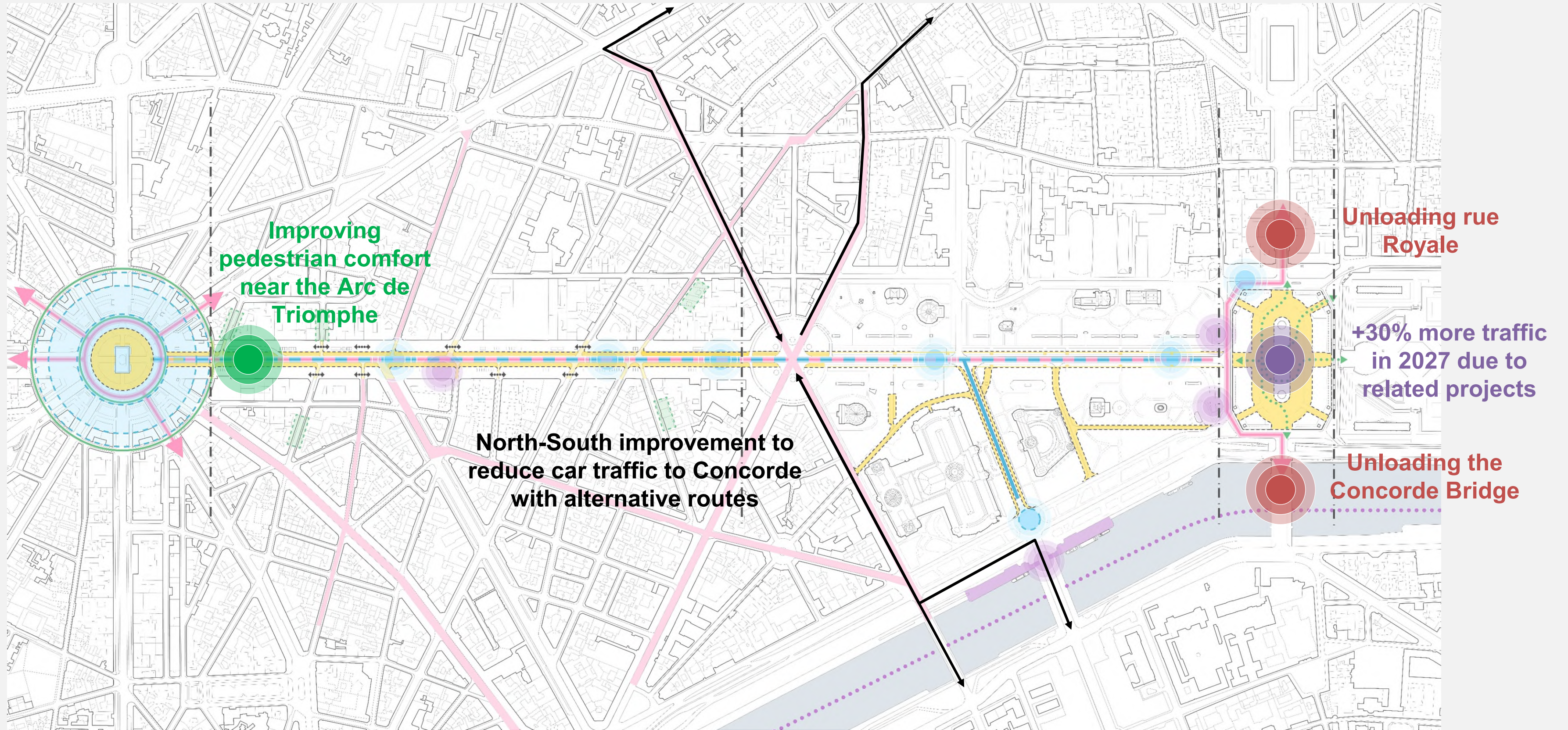
2x2 lanes to manage turning flows
Temporal management of logistics
Widening of sidewalks

LOWER AVENUE

2x2 lanes to reduce car traffic to
Concorde
Widening of sidewalks

CONCORDE

Respecting the
objective of improving
soft mobility





Source : Ville de Paris

Test in reality of Place de la Concorde configuration with the rugby world cup fan zone 2023



Source : Ville de Paris



Source : PCA - STREAM



Thank you for your attention



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