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CES4KIDS

# Sustainable Urban Mobility Plan

## 1st Experimental Elementary School of Thessaloniki

Πειραματικό Δημοτικό Σχολείο Θεσσαλονίκης [Α.Π.Θ.]

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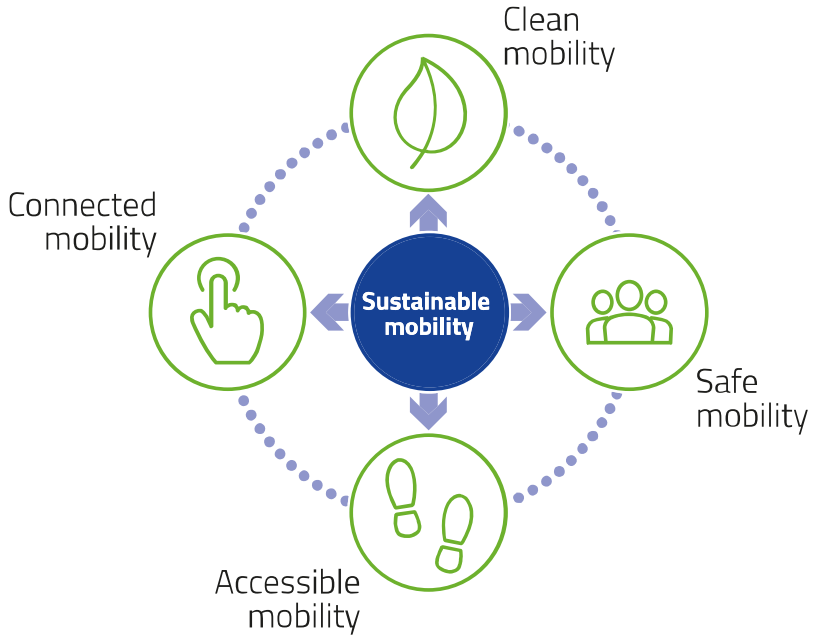
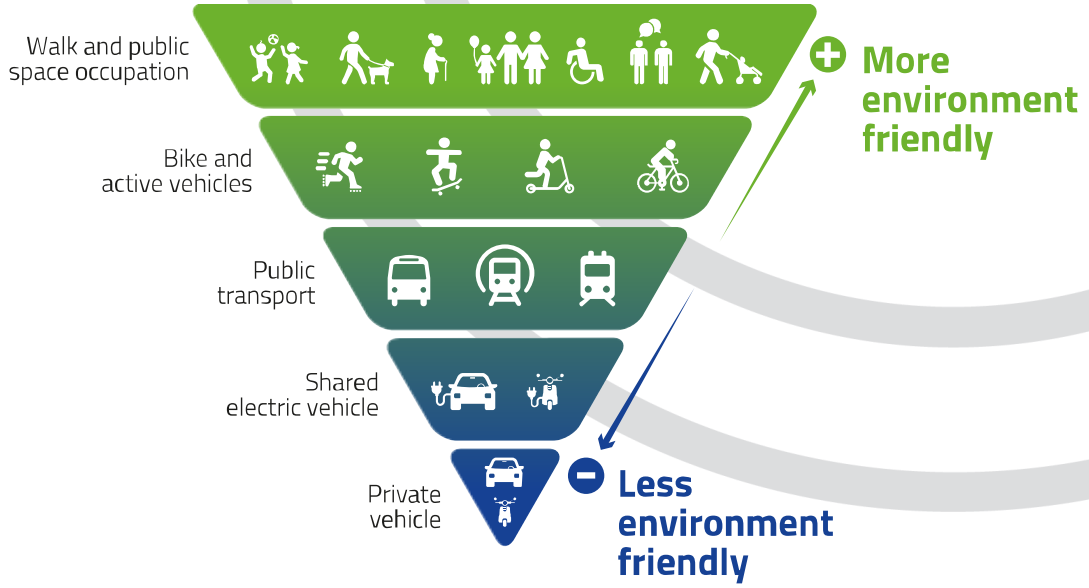
# 1. Vision

"Our school wants to improve the modal shift towards more sustainable modes such as active mobility (walking and bicycle) and public transport, which in turn seeks to minimize energy consumption and the negative effects on the environment and people's quality of life"




These four pillars consider the whole mobility ecosystem, having an impact on the people, the environment, the infrastructure and the technology.




The preference in public spaces and roads will be higher for the more environmentally friendly transport modes, while the most polluting forms will be a lower priority.

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# 2. CES4KIDS Mission

**CES4Kids' main objective is to deliver a complete and direct participation experience to children and youth in the co-creation of mobility planning, while at the same time enabling the design of solutions aimed at improving mobility around schools which will suit better the needs and preferences of school pupils.**

## CES4Kids objectives

- Empower children and youth with the acquisition of knowledge and technical capabilities to address mobility challenges in order to make them actors of change
- Raise wider awareness of the sustainable mobility cause and influence school pupils' mobility behaviour to speed up change towards more sustainable mobility habits
- Give voice and prominence to school pupils in mobility strategic planning and decision-making processes
- Understand better pupils' mobility behaviour and preferences.
- Develop school pupils' capabilities in critical thinking, communication, networking, negotiation, problem resolution, leadership, entrepreneurship, civic engagement and social justice

# 2. School's Mission

**Specific mission of each school: to choose from the list depending on prioritized actions**

## Sustainable Mobility Plan objectives

- Promote active mobility and public transport modes for daily trips to school
- Reduce air and noise pollution and traffic congestion levels in the school surroundings
- Achieve a safer environment for children and youth in the school environment
- Ensure public space and transport accessibility for everyone
- Improve the quality of urban space around schools
- Incorporate digital services and new technologies in daily trips to schools
- Avoid the negative health and environmental impacts of urban mobility
- Lower the negative externalities associated to the current mobility system

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# 3. Methodology

## Information

**Teaching of educational content with children**
Pupils learn the main principles and concepts of sustainable mobility

**Celebration of knowledge transfer and raise awareness events**
Pupils visit public and private entities that work on the sustainable mobility field

## Diagnosis

**Hands-on learning in the urban environment**
Pupils assess the urban environment of their school to identify barriers to a more sustainable mobility

**Collection of data from children and families**
Pupils and families answer a survey regarding their mobility habits and their preferences

## Proposals

**Participation process: Session 1**
Pupils put in common the diagnosis and elaborate their own improvement proposals

## Prioritisation

**Participation process: Session 2**
Pupils debate, vote and prioritise the improvement proposals playing a role game which involves different stakeholders

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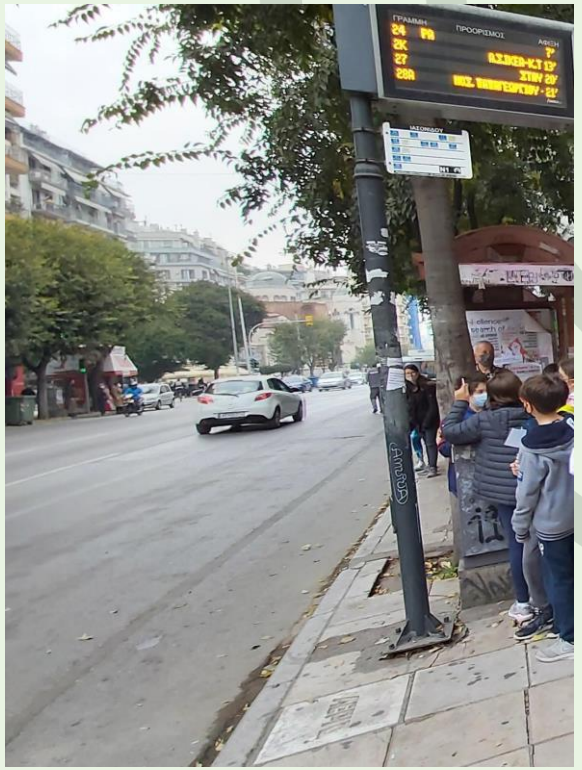
# 4. Diagnosis

## Description of the identified problems in your school's surrounding

- Lack of bicycle lanes arount the school
- High danger for pedestrians due to lack of protective measures between the road and the sidewalks
- Inexistance of school signing

## Graphic documentation of the problems

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# 5. Action Plan

**List of all Actions**
(Number and Name)

| | Clean | Safe | Accessible | Connected |
|---|---|---|---|---|
| 1. Creation of bicycle lanes | ✓ | ✓ | | |
| 2. Placement of signs indicating school existence | | ✓ | | |
| 3. Protective measures separating traffic from pedestrians space | | ✓ | | |

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# 5. Action Plan

## 1. Creation of bicycle lanes

### Description of the problem

There are no bike lanes around the school. Due to this fact the majority of the students reach the school by cars which stop temporally in front of the school creating congestion during rush hour (morning-evening) at the school entrance.

### Goal (s)

- Increase the use of bicycles to get to school and consequently reduce the use of cars
- Safer access to school for those that use bicycles

### Description of the action

The bicycle lanes to be created around the school should be properly designed (different color, signing, road dividers  etc) to ensure the safety of the bicyclists and should be surveilled in order to avoid illegal parking on them.

### Choose which of the 4 pillars of mobility your action influences

(leave the title of all that apply and delete the rest)

Clean Mobility

Safe Mobility

### Link to video or solution map

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# 5. Action Plan

## 2. Placement of signs indicating school existence

### Description of the problem

The road in front of the school is quite congested as it is one of the main arteria crossing the centre of Thessaloniki. Since there is no signs indicating the school's existence the cars don't reduce their speed and thus, the risk for the parents-students that cross the road is quite high.

### Goal (s)

- Reduce the risk of accidents due to high speeds of the cars

### Description of the action

Signs indicating the school existence should be placed in visible for the car drivers points of the road. The signs shouldn't be hidden from the trees or the bus stops that already exist on the sidewalks.

### Choose which of the 4 pillars of mobility your action influences

(leave the title of all that apply and delete the rest)

Safe Mobility

### Link to video or solution map

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# 5. Action Plan

## 3. Protective measures separating traffic from pedestrians space

### Description of the problem

There are no obstacles such as enough trees separating pedestrians walking on the sidewalks and the cars running on the road.

### Goal (s)

- Increase the safety of the pedestrians and consequently the percentage of the students who reach school on foot

### Description of the action

Planting of more trees/ vegetation on the edge of the sidewalks to protect the pedestrian. This action will be complementary to the first action (road dividers for bicycle lanes) that can be also serves as an ‘’obstacle’’ between pedestrian/bicyclist enhancing their safety.

### Choose which of the 4 pillars of mobility your action influences

(leave the title of all that apply and delete the rest)

Safe Mobility

### Link to video or solution map

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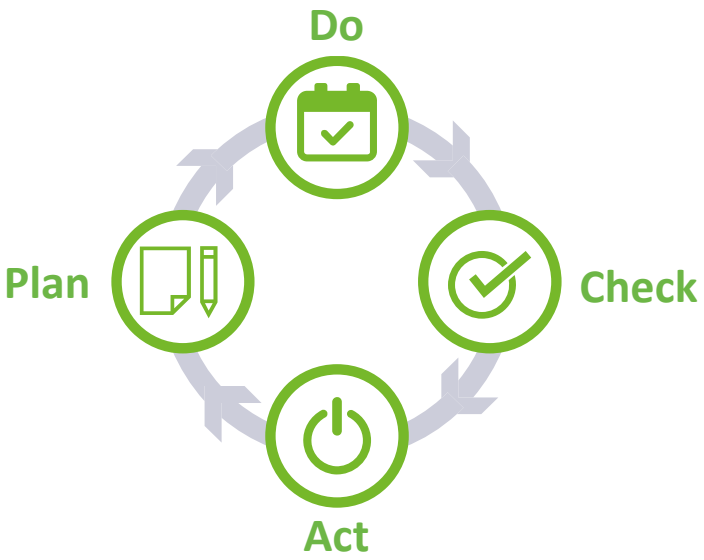
# 6. Monitoring

## PDCA Cycle

For achieving continuous improvement




Recognise an opportunity and **plan a change**

Implement the change, the **proposal**

**Review, evaluate, and identify lessons learned**

Take **actions** to continuous improvement

## Primary objective

Check

To evaluate any impacts on pupils caused by the actions implemented.

- **Evaluate data and results** collected from previous phases.
- Compare with expected results to **identify similarities or differences**.
- Identify if there were **changes from the original state** of the context.
- Identify changes in a) students' **mobility patterns**, b) **knowledge on sustainable mobility**, and c) **perception of schools' environments**.

## How to carry out the monitoring (check)?

Develop every 2 years

- Based on the one carried out within CES4Kids.
- Questions selected according to the information needed by each school.

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# 6. Monitoring

**Small survey**
develop every
2 years

## Suggested survey structure and content*

### 1
Sociodemographic Information

- **Age**
- **Gender**
- **School**
- **Academic year**

### 2
Information on Mobility Patterns

- **Main mode of transport to get to and from school**
- **Length of the journey (round-trip)**
- **Level of mobility independency**

### 3
Perceptions on Schools' Surroundings

- **Do they like their schools' surroundings?**
- **Do they feel safe?**
- **What changes would they make?**
- **FAQ, suggestions ands comments**

### 4
Knowledge on Sustainable Mobility

- **What is Sustainable Mobility (SM) for them?**
- **Which are the 4 pillars of SM?**
- **Students' and families' mobility habits**

*Each school can include or remove questions according to their needs.

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# 6. Monitoring

## Diagnosis Matrix

1. Before the process

| Action | Sustainable Mobility Pillars | | | |
|---|---|---|---|---|
| | Clean | Safe | Accessible | Connected |
| Action 1<br>Creation of bicycle lanes |  |  | | |
| Action 2<br>Placement of signs indicating school existence | |  | | |
| Action 3<br>Protective measures separating traffic from pedestrians space | |  | | |

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# Thank you!

For more information, please contact:

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