



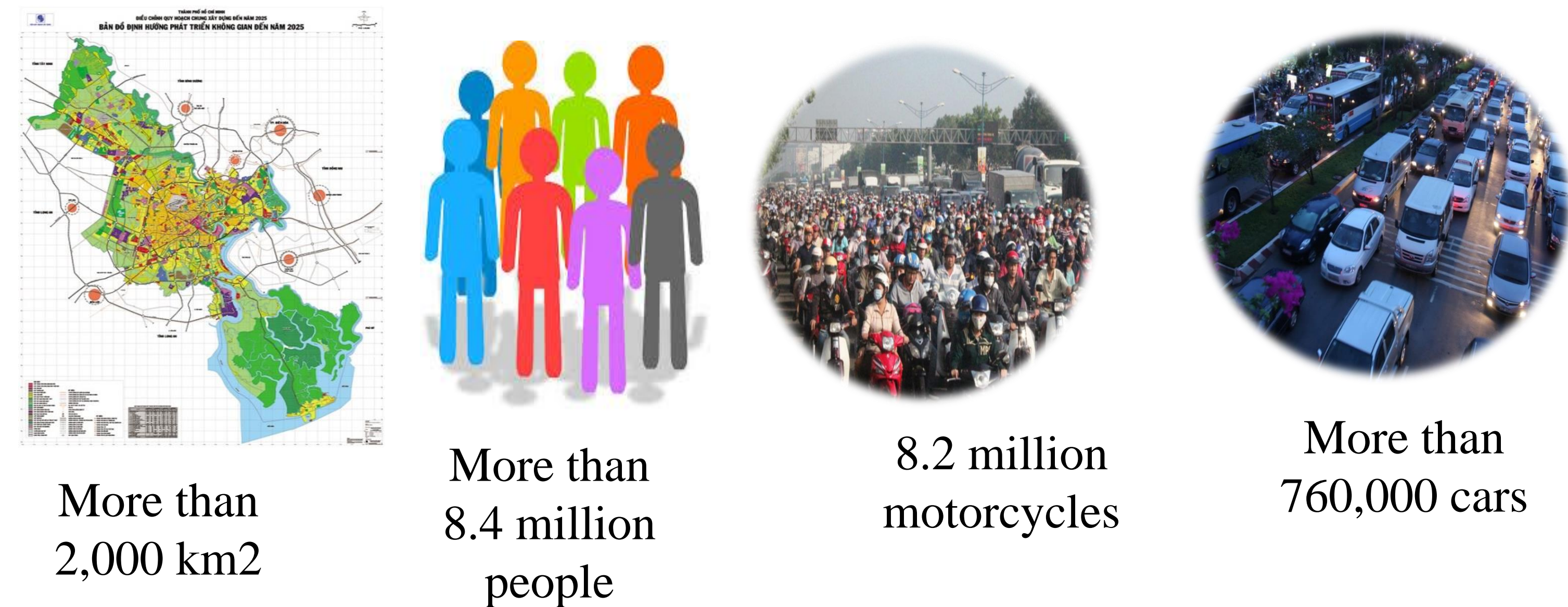
SHARING YOUR BYKE TO SCHOOL OF HCMUNRE'S STUDENTS

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ABSTRACT

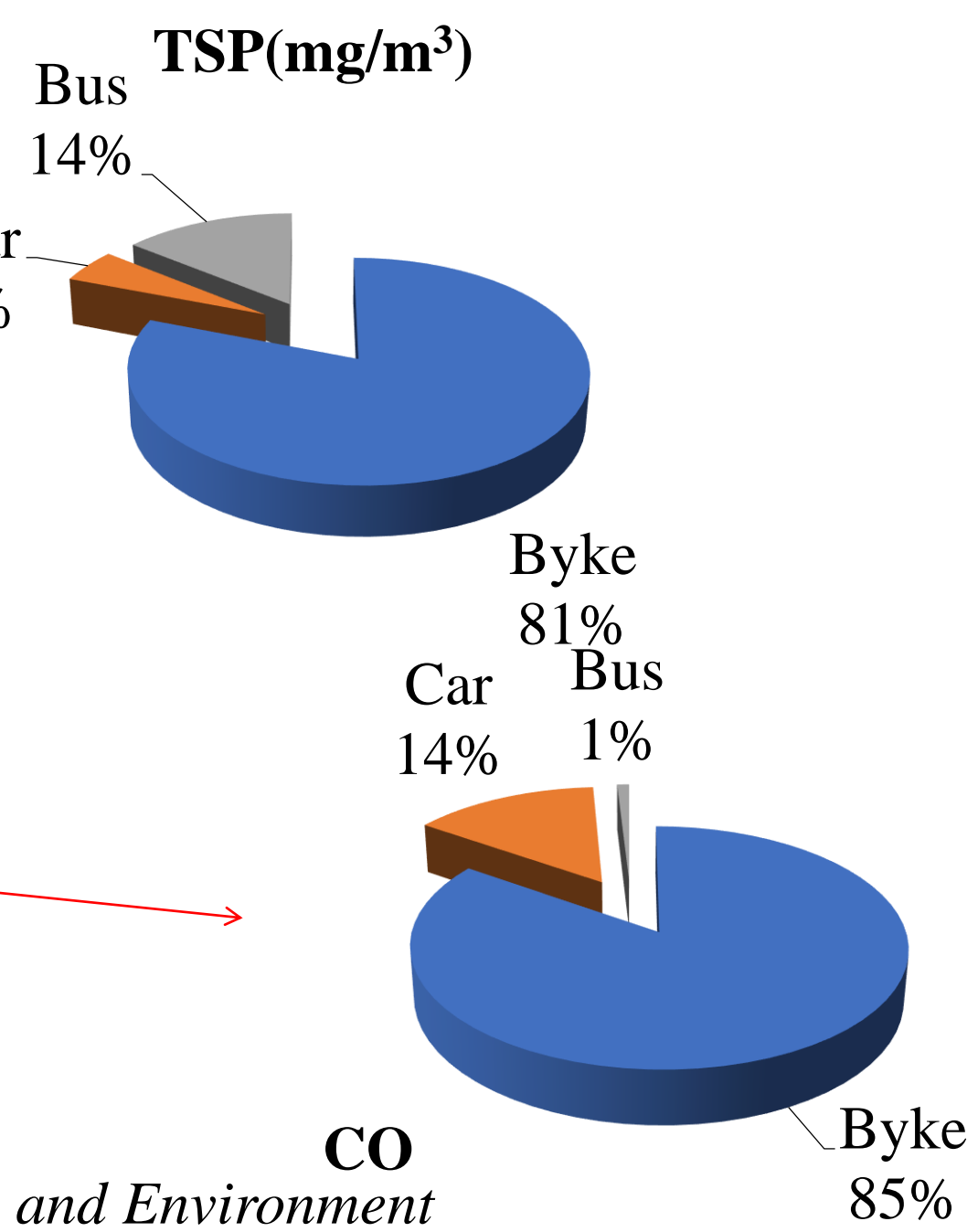
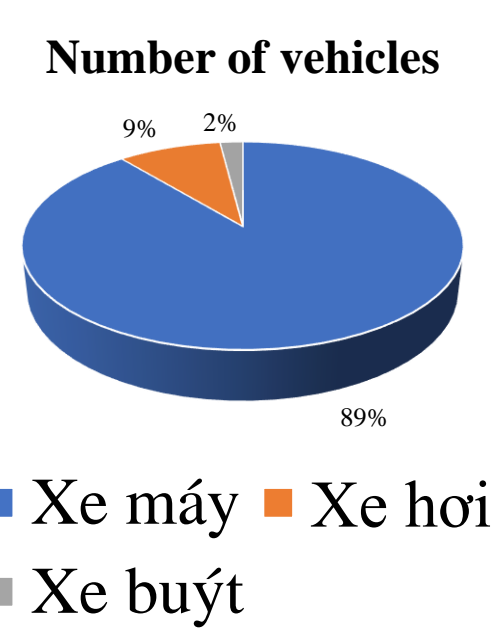
In parallel with the development of society and economy in Vietnam, the rapid increase in population over the years has contributed to increasing the number of means of transport which makes transport infrastructure difficult to meet the people's travel needs. There are many problems such as environmental pollution, traffic accidents and most importantly, traffic congestion, especially in big cities like Hanoi and Ho Chi Minh City.

From the current situation and actual needs, the "Bike share" model for students is studied and proposed application. The model will support search and trip sharing associated with user location, which will help users with the need to come together can connect with each other in the most convenient and effective way. Users can update their route information, from which the system will respond as a result of the list of people with the appropriate route.



Source: General Statistic Department – 07/2017

	Emission factors (g/km/vehicle)	
	TSP	CO
Motobyke	0,12	21,8
Car	0,07	34,8
Bus	0,98	11,1



Source: Hồ Minh Dũng – Institute of Natural Resources and Environment

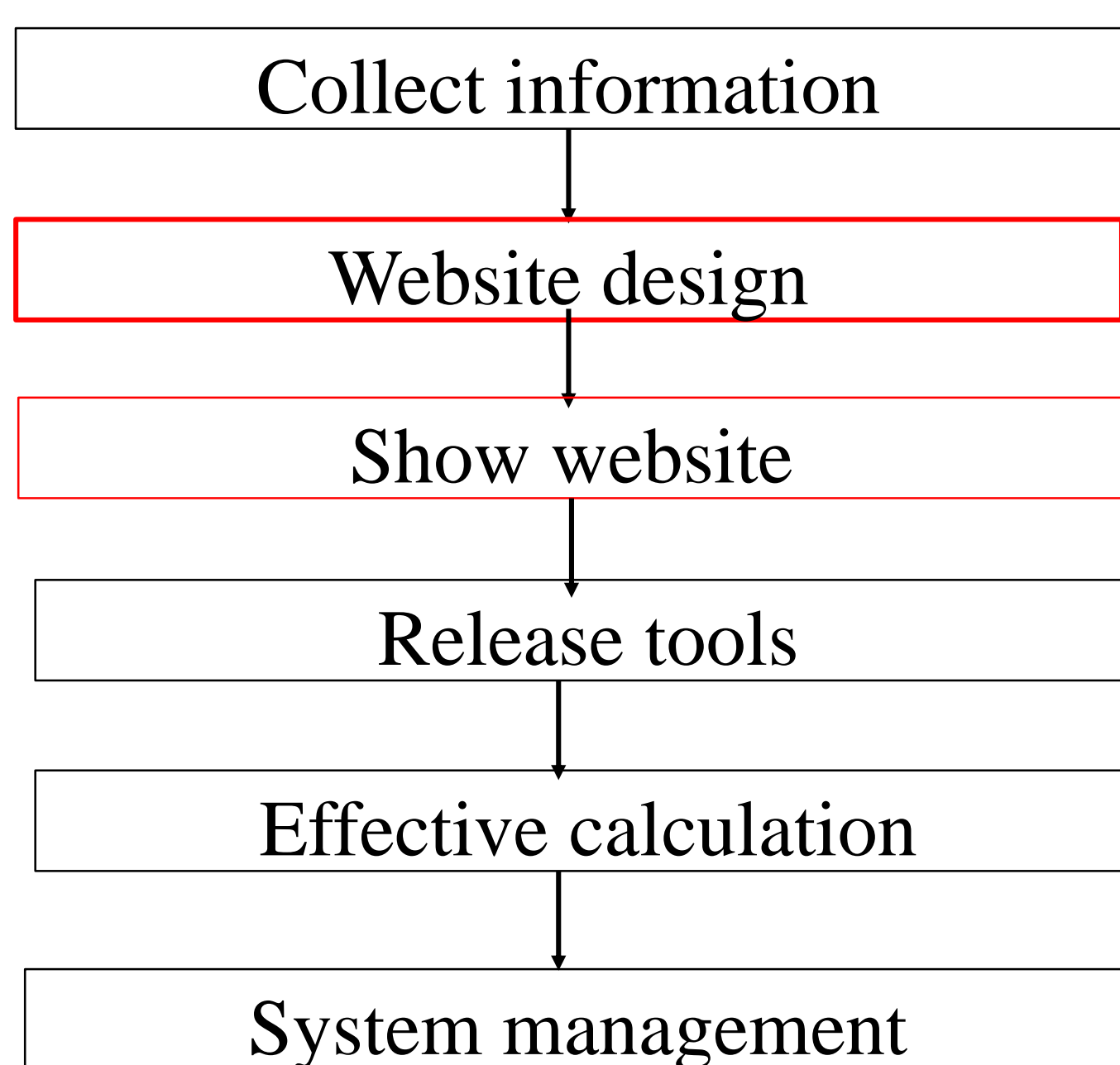
METHODOLOGY

- Collect information**
 - Get ideas and encourage users with live surveys at HCMUNRE or by Google form
 - Register directly via the website with the same necessary information.
- Website design**
 - Using technology, software, with the support of FPT company
- Show website**
 - Dynamic web design, easy to interact with users
- Release tools**
 - Coordinate with the Office of Student Affairs of HCMUNRE to issue a decision/notice on the encouragement of application use.
 - Next is to use public communication channels: such as Facebook, Zalo, ... to increase the amount of interaction.
- Effective calculation**
 - Use available IPCC formulas
 - CO₂ emissions = Distance traveled (km) * CO₂ emission rate
- System management**
 - Use server system to manage components

INTRODUCTION

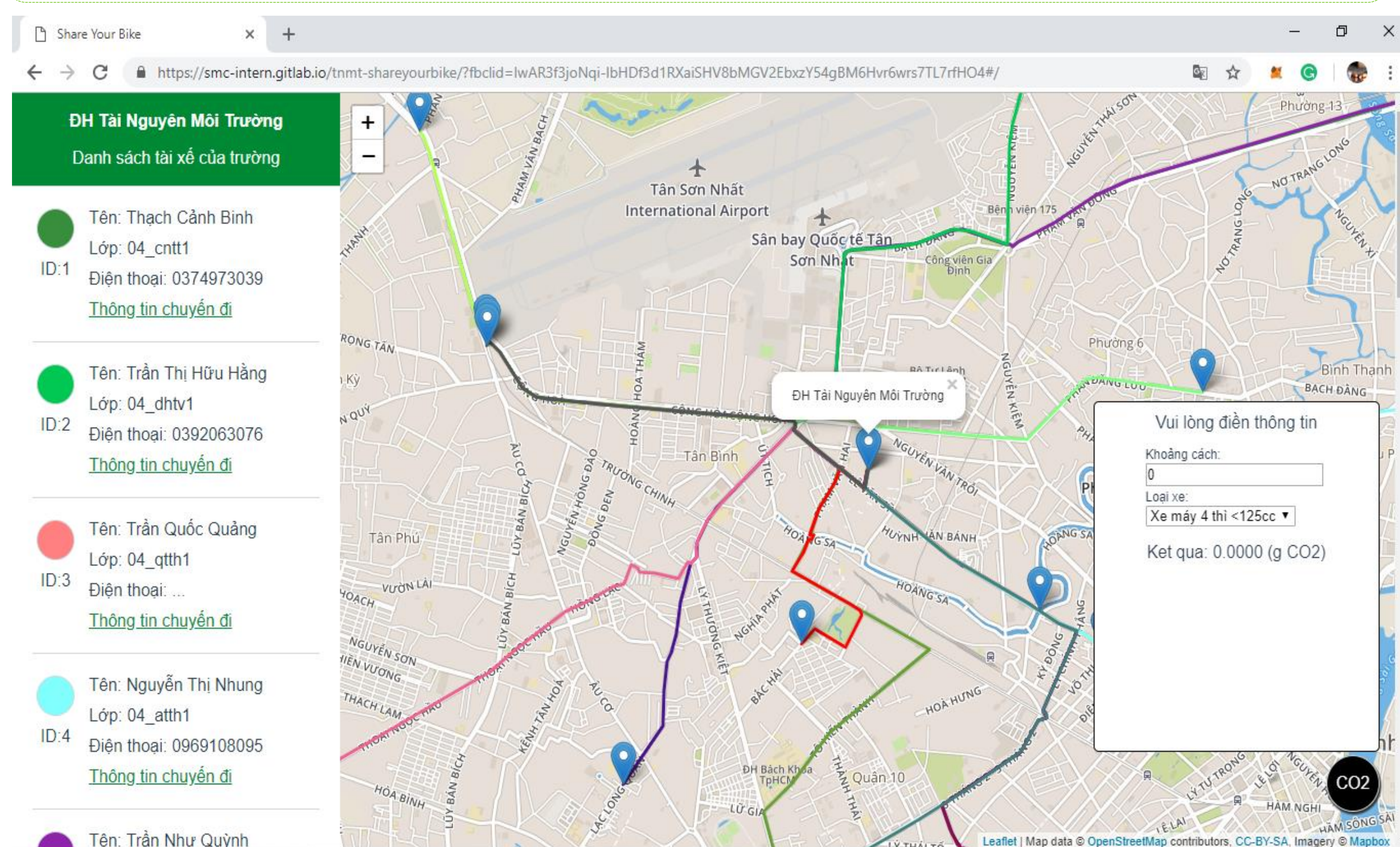
Carpooling is a model that helps to optimize the efficiency of vehicle use, reduce the amount of traffic, significantly contributing to the reduction of urban traffic load, reducing polluting gas emissions, especially in the frameworks peak. This model also helps users to save costs, have the opportunity to make new friends.

PROPOSAL SOLUTION



RESULTS

<https://smc-intern.gitlab.io/tmnt-shareyourbike/?fbclid=IwAR3f3joNqi-lbHdF3d1RXaiSHV8bMGV2EbxzY54gBM6Hvr6wrs7TL7rfHO4#/>



Initially creating a Bike-sharing tool, exclusively for students of University of Natural Resources and Environment to use.

Through the actual survey, the demand for going together of students is high (90%), thereby showing the level of interest and awareness about the environment.

We would like to express our deepest gratitude to the SAUNAC project for providing us opportunity to approach smart city and information technology knowledge and thanks to FPT for supporting us use equipment and software for this project.