

# Mobility Plan and Reorganisation of the UAH External Campus

2009

 **University**  
University of Alcalá (UAH)  
**Country**  
Spain

**Location**   
Urban and Peri-urban

**Size**   
10,000-20,000

**Mobility Organizational Structure**   
*Environment Office, 'Ecocampus'*

## Summary

The University of Alcalá implemented an Integral Reorganisation Plan meeting mobility criteria in 2012.

## Aims

The plan included several general objectives:

- Prevent the negative environmental impact that could be derived from University activity.
- Promote healthy and sustainable habits among members of the University community.
- Promote a growing level of energy efficiency.

These general objectives are then used to define more specific aims:

- Increase bicycle use.
- Rationalisation of traffic and reduction of the private vehicle by simplifying the use of public transport.
- Promote the use of less contaminating energy for transport.
- Create common areas to promote healthy, environmentally friendly habits.

## Stakeholders

BANKIA: co-financing the bicycles and storage containers.

## Background

The University of Alcalá has three different campuses: one in the city of Alcalá de Henares (urban), other faculties in the City of Guadalajara (urban) and a third external campus (suburban).

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### Description

The Plan, drafted transversally by different UAH departments, focused on the concept of “Green Infrastructure” to reduce the impact of activities on their environment.

Sustainable mobility was first implemented in the UAH in 2009 with a study of the condition of campus roadways and a system for bicycle hiring-sharing.

The Reorganisation Plan currently being developed is slowly being implemented and includes awareness campaigns with the participation of the University community and will be completed within the next few years. The activities performed have been:

- Since 2009, installation of the containers and the bicycles.
- Dissemination campaigns are carried out at regular intervals.
- 10 new bicycles were purchased in November 2015.
- The bicycle lane is inspected for correct maintenance at regular intervals.
- An agreement has been signed with an association of disabled people and their family members, and twice a week workshops are organised for repair/maintenance of the bicycles.

Different instruments have been used to achieve each of the specific endpoints:

- Increase bicycle use: the Ecocampus office manages the system for bicycle hire-share. The external campus and the different faculties have been provided with the necessary infrastructures (bicycle storage, bicycle parking racks, bicycle lane) taking advantage of the bicycle paths already

existing in the City of Alcalá and regular maintenance is carried out on the bicycles.

- Rationalisation of traffic and reduction of the private vehicle by simplifying the use of public transport: bus routes on the campus have been adjusted in cooperation with the transport company to enable partial pedestrianisation of the inner campus and the car parks will also be reorganised with this objective in mind. In the same way, use of the suburban railway network, which has a stop at one end of the campus, has been promoted by offering a free student shuttle service from the station to the different faculties. The idea behind this reorganisation plan is to adapt common spaces to encourage healthy habits and integrate external, large impact elements located off-campus, including the Principe de Asturias University Hospital and the technology park.
- Promote the use of less contaminating energy sources: we have the first solar powered charge point constructed in Spain. This charging station for electric vehicles is powered by solar panels. With an energy output of 5,600 kWh a year, the charge point is for the electric vehicles of the University as well as for those of private individuals. The charge point is therefore of mixed use, both internal as well as for the general public. It has 15 solar panels and a total of nine outlets. Of the four outlets for cars as well as motorcycles and other electric vehicles, two are intelligent and enable remote control of the top-up process (from a mobile phone, for example). The other two are conventional. The photovoltaic station is designed for charging electric vehicles, but when not in use the energy is derived directly to the grid to thus reduce its energy bill.



### Indicators

- Use of bicycle loan-sharing.
- Use of public transport among UAH students.
- Use of renewable energy sources for the University’s fleet of electric vehicles.
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## Results

- It has been possible to promote use of the bicycle among members of the University community.
- Social integration of the disabled. Bicycle repair mechanics were available from the outset, but since 2010 the service has counted on the collaboration of various people from the APHISA Association (intellectually disabled) who help with bicycle maintenance and repair every week. The result of this initiative is also considered to be very positive.
- Accessibility to public transport among UAH students.
- Use of less contaminating energy sources for the university's fleet of electric vehicles.
- Health benefits among UAH students and staff through encouraging physical exercise.

## Expense

Not available

## Financing

The purchase of bicycles and the bicycle storage containers were co-financed by the UAH and Bankia. All other actions were financed by the UAH.

## Findings

- The results of the bicycle loan-sharing scheme are positive: the levels of use remain stable (since beginning the program use of the bicycle steadily increased up to more or less stable levels). Therefore it has been possible to determine that if an effort is made to improve these aspects, there is a response. Work is currently being done on improving the security of the connection between the outer campus and the City of Alcalá de Henares.
- In addition, this process has positively influenced the health of UAH students and staff by encouraging physical exercise, another reason to continue advancing with the promotion of a model of sustainable transport.

Pictures

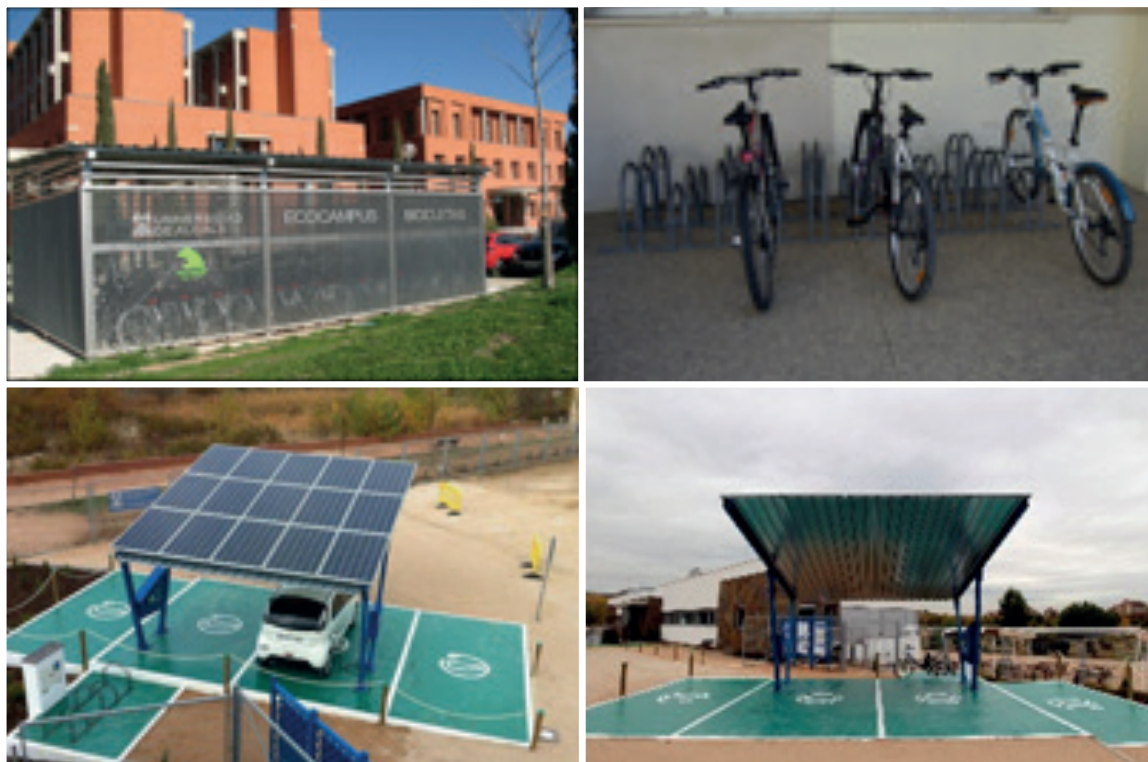


Fig 1. Bicycle facilities and charging stations for electric vehicle

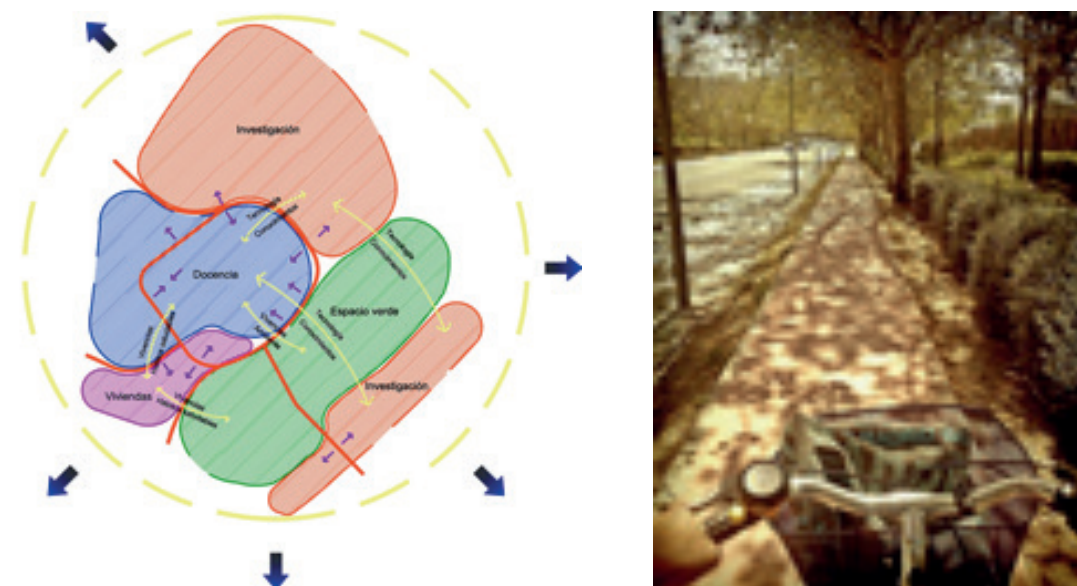


Fig 2. Plan of how the outer campus will be distributed according to the Mobility Plan

Links

<http://www.uab.cat/accessibilitat-transports/>

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