Canarin-II
a Canarin for
carbon-neutral smart cities

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

The University of Bologna will use a portable sensor, called Canarin-II, with the aim of obtaining data about pollution, making such data available to the University and the urban community.
This project aims to support sustainability and it will be experimented within the AlmaBike project. AlmaBike will make available bikes to the students of the University of Bologna, meeting their needs in terms of sustainable mobility while they move across the city.

Canarin-II is a collaboration among the Asian Institute of Technologies, the Macau Polytechnic Institute and UPMC Sorbonne Universites. It is a portable PM (Particulate Matter) sensor that can measure PM2.5, PM10, PM1, temperature, humidity, pressure, and formaldehyde. It has a GPS on board and it is equipped with Bluetooth and Wifi. Moreover, it can store data for a long time and it can operate in delay-tolerant mode.

The tests conducted thanks to the University of Bologna bikes will let to:

- Crowdsource of road-level pollution data
- Support the development of environmentally friendly applications for cyclists
- Raise the awareness of the university community on environmental issues and raise awareness
- Promote the reduction of the carbon footprint of the University