





Figure 2: Map of air quality index as provided for Paris in the Ambiciti platform.

Ambiciti merges observational data and simulations. Automatic download of new observation sources will allow the application to provide even better information. The merging between the different information sources, called data assimilation, is written in C++ and needs to better scale, especially with a more efficient parallelization and a new algorithm for uncertainty quantification.

## Hosting team

The hosting Inria team, Clime, works on uncertainty quantification and data assimilation for environmental applications. It leads the development of the data assimilation library [Verdandi](#). It takes part to various projects connected to smart cities, in particular the [CityLab initiative](#).

The work will be conducted in the framework of the European project Env&You (funded by EIT Digital), lead by Inria, and in close collaboration with the emerging startup Ambiciti. The other involved partners are the SME Numtech (urban air quality), Forum Virium (Helsinki), Inria@SiliconValley and The Civic Engine (Bay Area).

## Conditions and contacts

### Expected profile:

- Engineer (with master degree or equivalent) interested in computer science, especially for environmental applications involving big data and numerical simulation
- With or without professional experience
- Ability to adapt in a fast moving project, in connection with a startup

**Starting date:** as soon as possible in 2016

**Duration:** 12 to 15 months

**Salary:** depending on experience (if any)

**Localization:** [Inria Paris](#)

- Address: 41 rue du Charolais, Paris (12e arrondissement)
- Within walking distance of gare de Lyon (RER A and D, subway 1 and 14), Montgallet (subway 8) et Dugommier (subway 6)

**Contact:** Vivien Mallet, [vivien.mallet@inria.fr](mailto:vivien.mallet@inria.fr), 01 80 49 41 24 (from abroad: +33 1 80 49 41 24)