POPSATER
Potential use of remote sensing for population estimate

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The project intends to develop innovative improved methods for population survey and assessment, targeting many development projects and relief programs mainly related to urban growth and population displacement.
More specifically, we aim at developing methods to answer four questions:

- In the absence of census or between two censuses, what is the number of persons in an urban or a rural district?

- How to distribute population inside an urban or rural district or a geographical area without any correspondence with administrative boundaries?

- In the absence of census, what are the main characteristics of a rural or urban population?

- Can we extract socio-environmental information (on roads, water, infrastructures, existing settlements, cultivated areas ...) to help the relocation of displaced people (e.g. for large infrastructure projects)?
The methodologies developed in the POPSATER project intend to sketch standard procedures making it easier to design tailored sample surveys meant to answer specific questions from customers using remote sensing images.

The specific objective of the project is to identify, to test and to adapt methods of population estimates and its main characteristics (age, sex...) based on the remote sensing data; these methods will be transferred to the industrial partner in several geographical situations (urban or rural, concentrated or scattered) after validation on test sites.