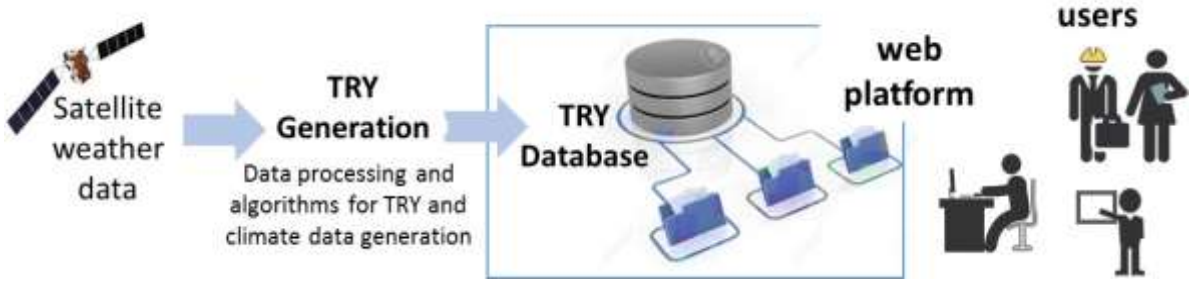
SatTRY

Satellite based Test Reference Year

Among the rising demand for sustainable and energy efficient buildings and services to contrast emissions and subsequently climate changes, weather data has become essential for potentially every new building design, major renovations and energy production plants.
Dynamic simulation, which requires hourly climate data processing, is increasingly being adopted for a smart and energy-efficient design, for environmental analyses and to predict the energy performance of buildings and industrial plants. This has turned into an **increasing need of hourly meteorological data** and typical meteorological year computations. Traditional TRYs (Test Reference Years) are often inadequate: low spatial resolution, lack of standardization, expensive updating process.
To overcome the weaknesses of current climate data for dynamic simulation, **SatTRY** project has been launched, with the aim of developing a revolutionary platform using satellite meteorological data for the calculation of TRYs and all relevant climate data for simulation and planning.

The new technology will create relevant benefit compared to the state-of-the-art platforms: easier generation of accurate meteorological information with incredibly higher spatial resolution, immediate worldwide scalability, inclusion of reliable data, with a standardized and homogeneous format to assess climate trends through statistically consolidated analysis. The information will be delivered to users by a web interface.
The steps necessary to develop the satTRY platform are represented below:



Among the main users and potential clients of the platform: engineering and architecture firms, public institutions and urban planner, software developer and providers and electric energy market operators.

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