

Energy planning with use of energy, infrastructure, environmental and population datasets

Energy supply:

- Power plants
- Decentralized

Datasets:

- Energy potentials
- Infrastructure
- Demand
- Land use

Methods:

- Restrictive criteria
- Weighted factors

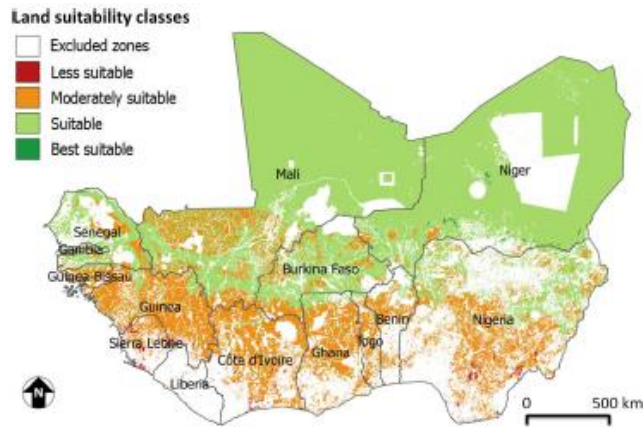


Fig. 1. Map of land suitability classes for large-scale grid-connected CSP systems according to Scenario 1.

Solar irradiation

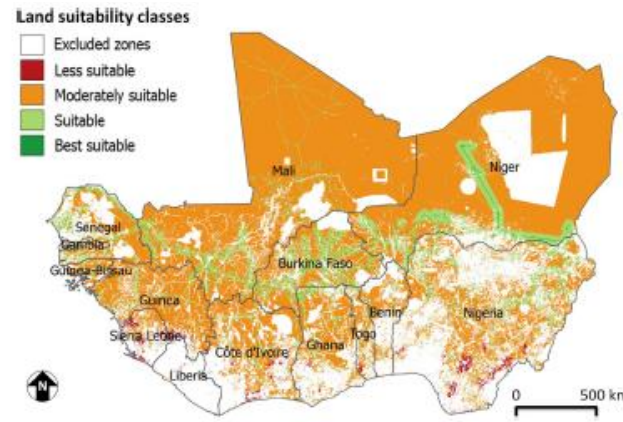


Fig. 2. Map of land suitability classes for large-scale grid-connected CSP systems according to Scenario 2.

Electricity grid

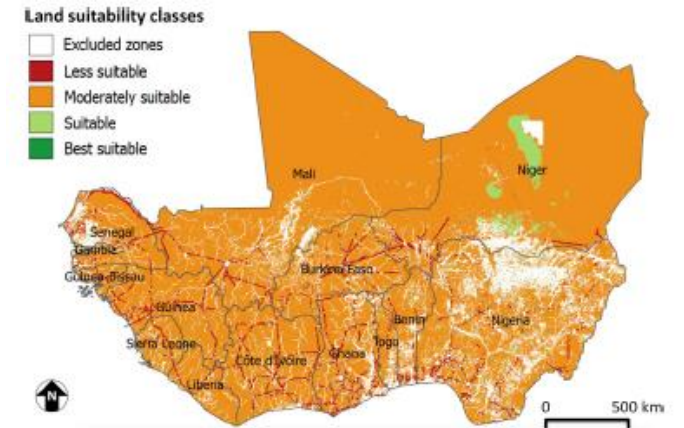


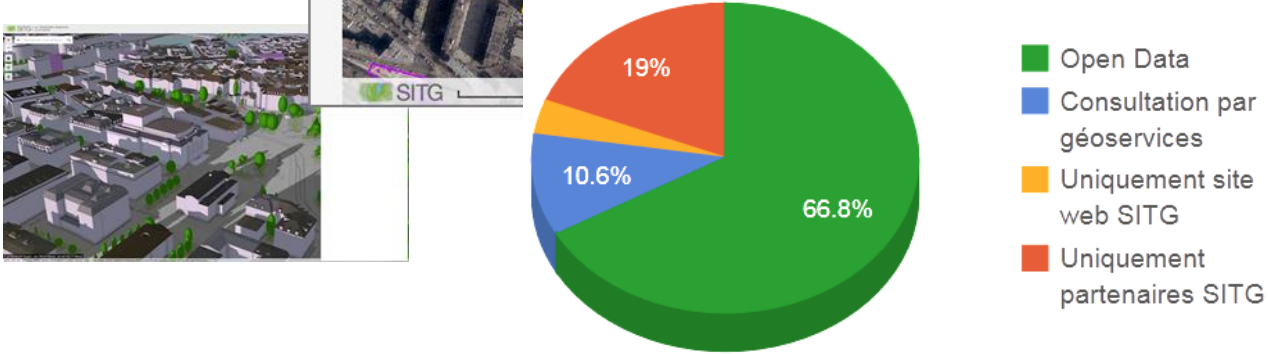
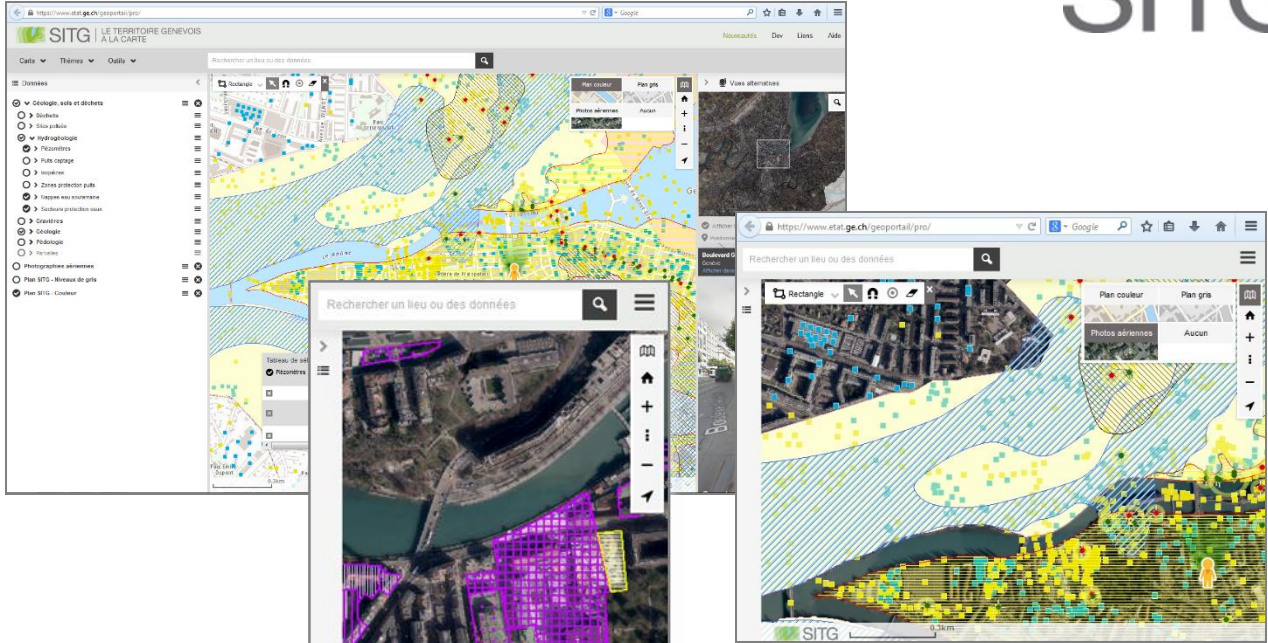
Fig. 3. Map of land suitability classes for off-grid PV systems.

Protected areas

Example of territorial information system in Geneva



- Conceptual framework
- Legal base
- Standardized datasets and meta data
- Efficient infrastructure
- Actors involvements



Challenges on scaling-up to Swiss level

