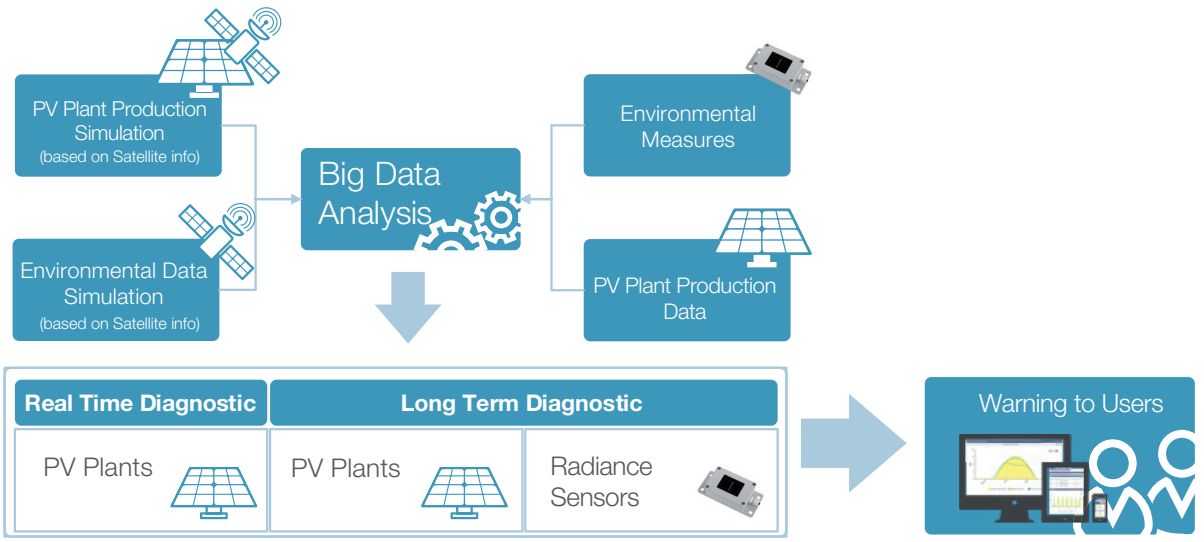
Advanced Diagnostic

Diagnostic service for an advanced management of the malfunctions affecting a plant, a specific sub-field and sensors in-situ.
This service is based on artificial intelligence algorithms analyzing data from devices (sensors, inverters, energy meters) installed on the plant and from satellite-based observations.

Provided information:
- Kind of failure;
- Failure location on the plant;
- Failure description.



Benefits:
› Automatic fault detection from remote
› Maintenance time and cost reduction
› Plant performance improvement

› Real time mode: sub-fields analysis with a time horizon of 2 hours.
Detect covering, soiling, shadows, faulting MPPT on the plant.

› Long term mode: sub-fields analysis with a time horizon of 20 days.
Detect covering, soiling, shadows, faulting MPPT on the plant, , thermal problem of the inverters and malfunctions of the irradiance sensors installed in-situ.

System Features

Real Time Diagnostic	Long Term Diagnostic	
PV Plants	PV Plants	Radiance Sensors
Detectable Failures: • Soiling or shading • Cover • Faulty MPPT • Thermal Problem **Timing:** • 2 hours back performances analysis updated every 1 hour **Outputs:** • Malfunction • Lost Production • Alert to Users	**Detectable Failures:** • Shading • Cover • Thermal Problem **Timing:** • 20 back days performances analysis updated every day **Outputs:** • Malfunction • Lost Production • Alert to Users	**Detectable Failures:** • Shading • Cover • General Malfunction **Timing:** • 20 back days performances analysis updated every day **Outputs:** • Malfunction • Alert to Users