

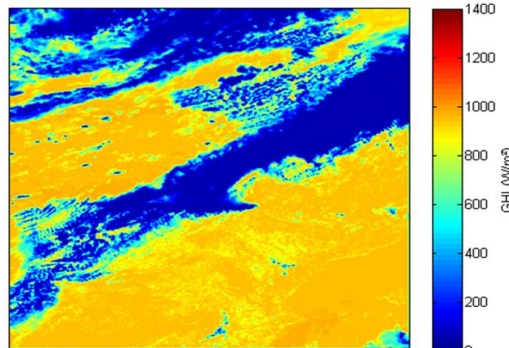
# Reuniwatt's solar power forecasting solution

## A technology mix

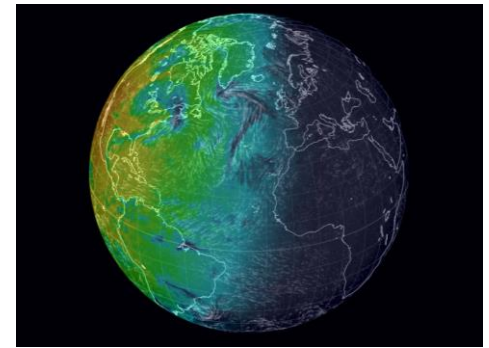
To guarantee the **best accuracy** on every temporal horizon (from one minute to several days ahead) and on every spatial scale (from one production site to a whole region), Reuniwatt hybridizes and analyses different data



*Cloud detection from ground images, shadow projection*



*Satellite image treatment to measure cloud motions*

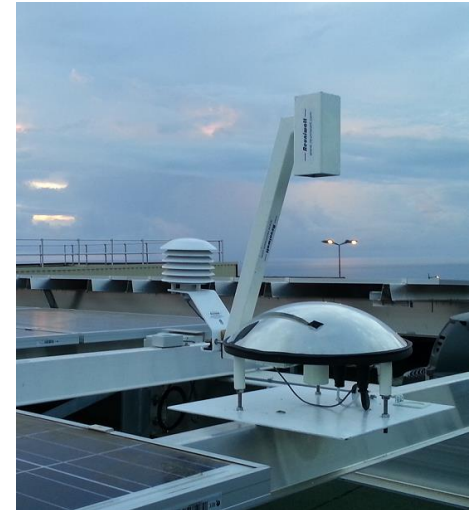


*Solar irradiance and wind forecasts on a global scale*

# SIONS: Sky Imager for the Observation of cloudiNess

## Hardware presentation

- Images of the **entire cloud cover** thanks to a hemispherical mirror
- Data acquisition (transmission through GPRS, Wi-Fi, ...)
- Temperature and humidity sensors



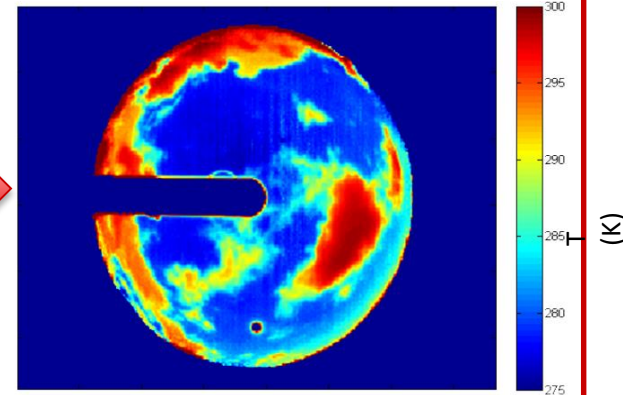
*SIONS prototype settled in Reunion Island (St-Leu).*

## An operational method

The patented algorithms detection enabled by the SIONS gives a **thorough estimation of the cloud cover**, including **altitude** and **cloud optical thickness**, on the **entire cloud ceiling** with a perfect non-dazzling **circumsolar radiation**.



*State of the art sky imager information with dazzling circumsolar radiation*



*SIONS high performance segmentation*