Following the management review No. 11 of Meteorological Moroccan Quality management system, that decided to “implement the replacement strategy of mercury sensors: compliance with the Minamata Convention which prohibits the transportation and manufactory of mercury based products, the RIC-Casablanca has maintained an approach consultation with a different meteorological manufacturers and suppliers to evaluate the technical opportunities that can provide an alternative to obsolete instruments still in use in our observation network like many other countries in Africa. To this end, an improvement sheet was opened by the RIC-Casablanca, to formalize the replacement process that will be spread over 3 years [2016-2017-2018] to reform outdated instruments. Thus, before the launch of the first project to install new parks, the RIC-Casablanca invited the main actors in the downstream processes of this action, including OBSERVERS and CLIMATOLOGY process, representatives of MAINTENANCE and CALIBRATION process.