Space Tools and Solutions for Monitoring the Atmosphere in the Sustainable Development
Plan

- Monitoring the atmosphere at national level
- Monitoring the atmosphere in the National Space Program
- Projects
Monitoring the atmosphere at national level

National Meteorological Office

The Institute of Hydrometeorology of research and training (IHFR)

The Global Atmosphere Vigilance Centre (VAG)
Monitoring the atmosphere at national level

Site of Tamanrasset city:
- Atmospheric disorder (October 1987)
- Total Ozone (April 1994)
- Solar and atmospheric radiation: Continuous measurement of Direct, Global, Diffuse (September 1994)
- UV-B radiation (January 1997)

Site of Assekrem:
- Surface Ozone Concentration (March 1997)
- Greenhouse gas Concentration
- Aerosols Concentrations
Monitoring the atmosphere at national level

An inspection network of air quality (SAMASAFIA) was set up by the Ministry of environment

Air quality rating:

- Caracterise the global quality of air of Algiers city

- Pollution levels measured during the day are obtained from different stations installed around the city

- This rating shows the pollution discharged from different emission sources (cars traffic, industries, construction sites...etc.).
Monitoring the atmosphere at national level

• National agency of climatic change (ANCC) (created on September 2005) which is under the supervision of the ministry of environment.

• This agency aims to insert the climatic change issue in the development plans and to contribute on the protection of the environment.

In addition, the ANCC is in charge to lead information actions, awareness campaign, study and synthesis related to greenhouse gas emission, climatic change adaptation, mitigation of their effects and socioeconomical impacts.
The objectives to be achieve of this program are to put the space tools in the service of the economic, social, cultural development, which is an aid instrument for a sustainable development and reinforcing of the national sovereignty.

This program depend on:
- Human competence to be identified and strengthen,
- Logistics and infrastructures to be set up and exploited,
- Space systems to be realized and exploited,
- Competent specialized institutions in the space technology field and their applications
- National industry.

Algerian Space Agency (ASAL) has implemented a national space program covering the horizon 2020.
02 projects related to the atmosphere measurement carried out by researchers team from the Space Techniques Center (CTS)

CTS Researchers Team:
- ABOURA Radia
- MEGA Nabil
- ALLAM Abdelfathi
- Guen Karim
Project 1: “the contribution of the remote sensing for the detection and the quantification of the environmental changes”.

Project 2: “Synergy of ground radiometry and satellite imagery for the quantification of the aerosols and the physical characterization of the hydrique assessment of an experimental area”
Project related to the development of renewable energies `solar energy`, is carried out by ASAL, CDER (renewable energies development center), Ministry of energy and other national institutions concerned by this topic.
The main objective of this project is to implement a solar information system at national level.

This system will allow the access to the dynamic values of the various components of the solar radiation (global, direct and diffuse).

The results will be obtained from models established and validated on existing reference stations or stations to be installed;
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Space technologies role -
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Association of research on Climat and Environment (ARCE, Algérie)
Le GIP MEDIAS France (Toulouse, France)