



Rainfall measurements and forecasts at high resolution based on a low-cost novel technology

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Presentation

HD Rain offers AI and machine-learning based **rainfall measurements and forecasts at high resolution and low-infrastructure costs**

It proposes subscription to its services for economic activities subject to **weather risks** (typically agriculture and insurance companies), in particular in the 80% of the countries over the world which have currently no means of measuring rainfall.

Several prototypes are deployed around the world :

- Toulouse (France)
- Manaus (Brazil)
- Peyragudes (French Pyrenees)

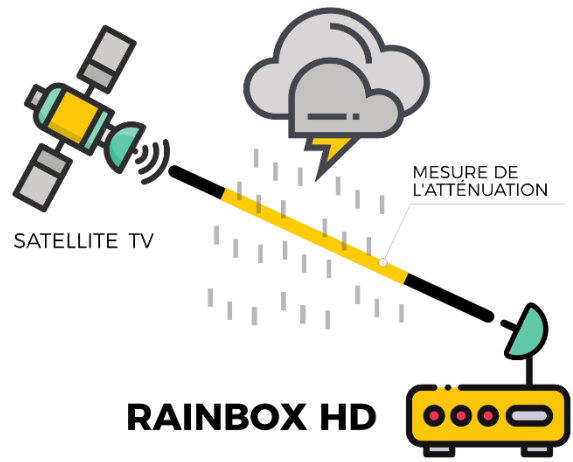
Potential applications considered

Today, the solution can provide information and **three services have been identified:**

- **Early Warning Service:** Weather Alerts in case of heavy rain or flash flood events.
- **Water Resource Management** especially for the agriculture sector.
- **Rainfall Monitoring** especially for climate change studies or insurance market.

At this time, potential applications considered are: agriculture and insurance market.

How it works



This technology is based on the fact that rainfall attenuates the signal (electromagnetic waves) coming from TV broadcast geosynchronous satellites.

Benefits of the HD Rain Technology

- Rainfall measurements (500m, 1min)
- Able to anticipate up to 2 hours in advance the arrival of rainfall
- Accurate monitoring of rainfall
- No waves emission
- Low installation costs in regard to technology with same performances (Weather radar)
- Easy to install (<2 months)

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WHY ARE YOU RECEIVING THIS DOCUMENT?

This document is following the diffusion of Foundation season 2' on April 2019. HD Rain was one of the three startups interviewed during the documentary.