



## E-CORCE

*An innovative system for acquiring and distributing Earth observation images with high spatial and temporal resolution*

### Technological advantages

#### Three interacting cellular technique layers

- A very low-cost satellite constellation providing global coverage
- A distributed telecommunications network based on widely-used, simple and proven technology such as WIFI.
- An IT network of wide area grids (WAG) consisting of computers and stations, enabling integration of data on a global scale and low-cost distribution in peer-to-peer mode.

#### Disruptive innovation

- The reception and redistribution of data are decentralised (thus enabling the transfer of very large volumes of data)
- No onboard recording (seamless buffering)
- The psycho-visual compression of images adapted to the human eye allows the data volume to be reduced by a factor of 50.

### Summary of the invention

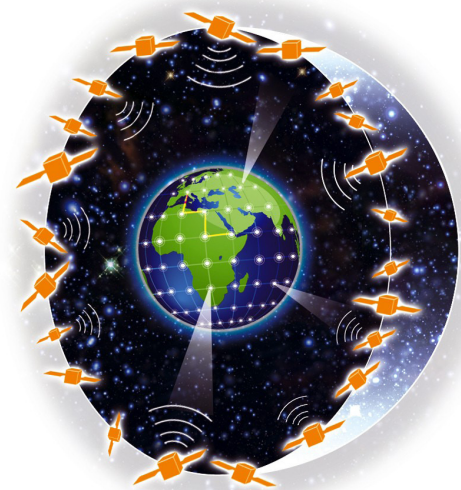
e-Corces (e-Constellation d'observation récurrente cellulaire [Cellular recurrent observation e-constellation]) is a satellite-based Earth imaging system offering resolution to within 1 metre and weekly or even daily revisit capability for the entire planet.

### Potential applications

#### High capacity Internet geoportals

#### Mapping and management

Monitoring of land-use, regional administration and development, anthropic impact, harvest forecasting, precision farming, illegal forest exploitation, water surfaces of lakes and reservoirs, etc.



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A satellite constellation providing internauts with a daily image of the Earth

### Commercial advantages

#### Revolutionary, low-cost technology

- Eliminates the need for centralised storage and processing of data
- Assembly-line production of satellites
- Costs reduced tenfold in comparison with an offer using existing systems

TRL : 3

*Patented invention available under licence*