

## Environment

CO2 emissions / Impacts and resources / **IT for green** / Systemic approach

# Making digital technology a driver in the energy and environmental transition

## Challenges / vision / beliefs

To address the limited nature of natural resources and climate change, Orange believes that digital technology makes a positive contribution to the ecological and energy transition.

Orange designs and develops services and solutions to encourage sustainable alternatives, in areas such as smart cities, M2M, IoT, energy optimisation, carbon footprint reduction, and eco-friendly transport.

- Digital technologies contribute to reducing the carbon footprint by encouraging more efficient usages. A wide range of solutions (smart grid, smart metering, etc.) already exists for corporate clients, which improve their operational performance as well as their environmental balance.
- Orange also designs solutions in response to the challenges of smart cities.
- With Big Data, Orange aims to support organisations, public bodies, local authorities, etc. which could benefit from powerful tools to better manage rapid urbanisation and address certain environmental issues.

## Roadmap

- Helping our customers reduce their footprint
  - Reducing impacts related to our customers' use of our products and services by developing eco-design, environment labelling and collection of used devices - See the "Limiting our impact on natural resources" data sheet.
  - Supporting our business customers to simultaneously improve their operational performance and reduce their carbon footprint by encouraging more cost-effective uses: remote working, paperless procedures and smart building, network and city management.  
Orange is also developing vehicle fleet management tools, videoconferencing services, and new workspace concepts such as "stop & work".  
Orange is helping to reduce the amount of energy used by information systems using cloud computing solutions, which pool infrastructures and optimise power consumption.
  - Creating solutions designed to address the challenges of smart cities through the Smart Cities & Territories programme with tools for modelling mobility in real time.
- Protecting biodiversity



## Thematic data sheets

# Corporate Social Responsibility

- Evaluating and controlling the impacts of the activities of Orange Marine, our ISO 14001-certified subsidiary tasked with installing undersea cables, on the environment and biodiversity (launch of a partnership with the ARGO company to monitor the impact of climate change on marine biodiversity in the oceans).
- Partnerships with NGOs and organisations like the Research Centre for Alpine Ecosystems (CREA) by collecting, processing and using data to model the evolution of exceptional ecosystems.

### Actions / achievements

- The C-Life Innovation collective was set up following COP21. In a spirit of collaboration, the innovative idea to collectively generate digital solutions to issues connected to climate change was suggested. These solutions would target the everyday lives of people in different contexts - at home, at work, travelling, etc. Alongside Orange, the original founders were EDF, Météo France, BRGM, IGN and ENEDIS. In 2017, this collective, which will become an association in 2018, first organised an initial barcamp, and then brainstorming sessions which led to the emergence of four new types of digital service:
  - an early warning system on a national level, in the shape of the C-Life GUARD project to support local authorities and local populations. This project to plan for future risks is contributing to the development of a national platform for environmental risks and warnings for local populations.
  - assessing the potential of local resources and putting them to use, as illustrated by the C-Life HOME project, the objective of which is to provide individuals with a means of assessing and using the natural resources to which they have access in their environment/habitat;
  - the circular economy, starting with the C-Cycle project, which encourages large companies to recycle equipment when they move premises;
  - quantifying risks and uncertainties in economic terms.
- the VALORISK project, which involves helping companies and local authorities to better assess and quantify impacts related to climate risks and to define appropriate measures, is being developed in 2018.

### Going further

- [The environmental score](#) (french)
- [Orange Business Services and the services dedicated to companies](#)
- [Come and visit Smart Cities](#)
- [Nice adopts Environmental Urban Monitoring with Orange](#)
- [Smart cities: digital technology makes cities smarter](#)
- [Big Data: a tool to support development and the environment](#)