

## EXAMPLES OF INNOVATION CHALLENGE

### CLIMATE CHANGE CHALLENGE – C3Challenge

<http://c3challenge.com/>

The C3 (Climate Change Challenge) is an initiative developed by Météo-France, IGN, and the Ministry of Ecology, Sustainable Development and Energy. , CNES, Etalab and the MNHN, and supported by EDF, IRSTEA and ERDF. In 2015, the C3 became one of the French government's commitments to open government. Winners were chosen in 4 cities in France: Paris, Mantes. Lyon and Toulouse.

**This is primary an awareness and engagement-type of challenge by French government, on the occasion of COP21 in Paris, covering a wide range of topics.** C3, the turn of France for open innovation in the face of climate challenges, is a responsible challenge that mobilizes citizens, public actors, private actors, experts, students to take action on climate change and build the society of tomorrow. Areas addressed through the challenge are: Education / Awareness; Territory Development; Energetic transition; Resource Management; Impact on the economy; Health; Access to Knowledge and Information; Biodiversity.

This nationwide challenge has proven to be a great case study of how to drive innovation and sustainable development through crowdsourcing and engaging the community by setting clear problems to be addressed.

List of winners please find here <http://c3challenge.com/laureats-c3challenge2015/>.

### THE BIG GREEN CHALLENGE

<http://www.nesta.org.uk/project/big-green-challenge>

The Big Green Challenge, launched in October 2007, is NESTA's £1million challenge prize designed to stimulate and support community-led responses to climate change. Through the Big Green Challenge, it has been our aim to unlock the potential power of community-led innovation.

The Big Green Challenge was open to formal and informal not-for-profit organisations and groups. More than 350 groups came forward with a wide range of imaginative and practical ideas. The Finalists have been putting their ideas into practice throughout the course of the Big Green Challenge Year, and the Challenge team and partners have continued to provide support to the projects and to capture learning to share with others.

Ten finalists were presented in the publication available on [http://www.nesta.org.uk/sites/default/files/big\\_green\\_challenge.pdf](http://www.nesta.org.uk/sites/default/files/big_green_challenge.pdf).

### **OPEN INNOVATION DAY-Gothenburg**

<http://www.climate-kic.org/events/open-innovation-day-gothenburg/>

Open Innovation day was organized by Climate KIC, City of Gothenburg and Johanneberg Science Park. The aim to the challenge was seeking innovative green-tech solutions that contribute to sustainable consumption. These must have a positive climate impact and be able to reach a wide market faster and more efficiently than has previously been possible.

The aim of the Open Innovation Day is to identify tools that can help the inhabitants of Gothenburg make better and more informed climate friendly choices in their everyday life.

Following are the areas that applicant solutions need to address:

- Easy and attractive ways to make low carbon choices

(How do we make it easy and obvious to make climate smart decisions when choosing goods and services both online and in stores? What additional services are available which can create a circular and sharing economy? Can we make it more attractive to choose or co-own long term sustainable products and thereby get better quality and better economy? The challenge could for example be solved by services that incorporate lending, sharing, reuse, repairing, remaking and recycling).

- Efficient and sustainable use of transport

(How can transport needs and resource consumption be reduced without limiting the citizens' choice? Climate impact from transport can be replaced by digital solutions to avoid physical meetings and gadgets. Flexible travelling gives more options and can stimulate sustainable transport solutions. The journey has just begun for streaming services, showrooms, digital communication, 3D printers and social media, to name a few.)

- Circular and sharing economy
- Sustainable and active leisure hours

(How can we make it easier for more people to have an adventurous and attractive leisure time with a low carbon footprint? Local offers and public involvement can replace and reduce the impact from

weekend and holiday travel. The challenge can for example be solved by sustainable events, social innovation, increased codetermination and co-creation, urban farming, shared services for tourists, improved public transport outside of commuting times, cycle tourism, electric vehicles and intermodal travelling).

### THE SMART ZERO CARBON CITY CHALLENGE

<https://climatecolab.org/resources/2016/the-smart-zero-carbon-cities-challenge>

The Climate CoLab is a project of the MIT Center for Collective Intelligence. Funding has come from the National Science Foundation, corporate sponsors of the MIT Center for Collective Intelligence, the Argosy Foundation, the MIT Energy Initiative, and the MIT Sloan Sustainability Initiative. The last two of these organizations, along with the MIT Joint Program on the Science and Policy of Global Change, helped organize the Climate CoLab Conferences.

**“The Smart Zero Carbon City Challenge” is intentionally broad, to enable a wide range of participants and to take the pulse of current “smart” approaches to zero-carbon city making.** Projects do not need to be stand-alone technical solutions that directly reduce emissions (such as building automation systems). Organizers were interested in projects that effectively use the information sharing, social networking, and collaborative functions of new technologies as part of larger campaigns to facilitate complex actions such as community energy transitions, to influence individual and collective behaviour, or to facilitate new approaches to planning or implementation of low-carbon strategies.

Winner is Climate Smart Dashborad. [ClimateSmart](#) Interactive Business Energy and Emissions Dashboard for Cities Create a dashboard that allows cities to understand their business emissions by sector, business size, emissions source, and track progress.

### **CEC Youth Innovation Challenge**

<http://www.cec.org/how-green-is-your-dream>

North American youth aged 18 to 26 were invited to enter the Commission for Environmental Cooperation's (CEC) innovation challenge to compete for C\$5,000 in seed funding. Over 160 ideas were ultimately evaluated by the CEC Joint Public Advisory Committee and nine semifinalists were invited to develop their innovative ideas into full proposals and three winning projects were selected.

One of the winning projects is "Restaurant waste to super food powder". Main idea of the project is to bridge the gap between the food waste from restaurants and the food insecure, by focusing on using the whole grains (such as brown rice and quinoa) and the juice pulp remaining from juicing fruits and veggies. Team will do this by taking that left over food, dehydrating it, grinding it up, and packing it into a superfood nutritious powder that is lightweight and easy to add to shakes, smoothies, oatmeal, or used in sauces. Team have signed with four restaurants in the San Diego area who have agreed to donate their grains and greens to their project. With low cost of produce, project team proposed a 1:1 model in which for every one bottle that is purchased, one is donated to a food relief organization such as the local food bank. Through the project, team managed to provide 40,000 meals to the food insecure population, reduce 127,000 lbs of food waste, and prevent 1.3 million lbs of CO2 into the atmosphere that would have otherwise come from the food waste from landfills annually.

### **OpenIdeo – Food Waste challenge**

<https://challenges.openideo.com/challenge/food-waste/top-ideas>

In partnership with The Rockefeller Foundation, ReFED, The Fink Family Foundation, and The San Francisco Department of the Environment, OpenIDEO called on a global community to develop innovative solutions for dramatically reducing food waste. After an iterative Refinement phase 12 Top Ideas from the challenge were chosen - a diverse set of solutions that represented innovative and impactful approaches to reducing food waste (<https://challenges.openideo.com/challenge/food-waste/top-ideas>).