European
eic **INNOVATION**
Council *BETA*

EMPOWERING EUROPEAN INNOVATORS

EIC Horizon Prizes

DG Research & Innovation
Unit B.1 Innovation Ecosystems

European Commission

Research and
Innovation

Principles

Prizes are **monetary rewards** offered to whoever can most effectively meet a defined societal or technological challenge.

Commission prizes are **open to anyone** with the right solution. They set an ambitious goal, without saying how that goal should be achieved or who should achieve it.

Prizes are a separate financial instrument (they are not grants, nor loans).

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Aims

Address difficult societal or technological challenges through game-changing innovation.

Accelerate the development of effective solutions and promote market uptake.

Apply out-of-the-box, innovative thinking.

Open participation across sectors and disciplines – innovators, start-ups and scale-ups, entrepreneurs, etc.

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Commission prizes

Horizon Prizes - link
- Launched since in 2015
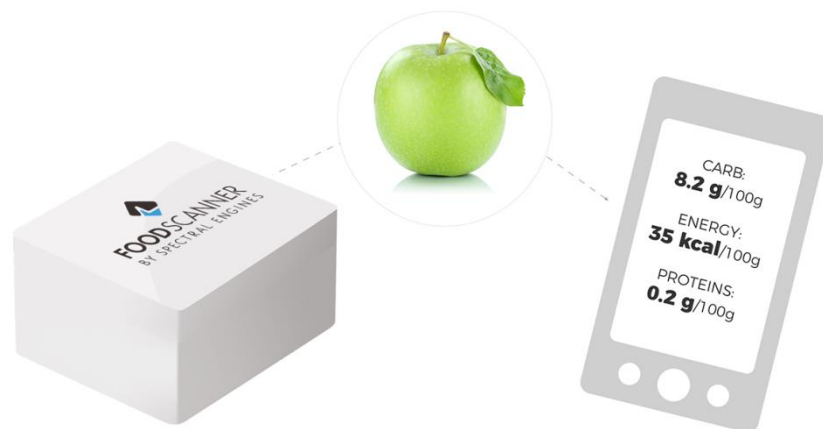- First time H2020 « experiments » with prizes

EIC Horizon Prizes - link
- First launched in late 2017
- Greater visibility, greater rewards
- Lessons learned

European Commission

Awarded Horizon Prizes: Better use of antibiotics

- **Challenge:** Safely reduce the use of antibiotics in patients with upper respiratory tract infections.

- **Solution**: A finger prick test that can diagnose a bacterial infection in less than 10 minutes, correctly assessing if a patient needs antibiotics.

- **Winner**: MINICARE HNL (Dutch-Swedish partnership)

- **Award**: €1 million (2017)

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Awarded Horizon Prizes: Food Scanner

CARB:
8.2 g/100g

ENERGY:
35 kcal/100g

PROTEINS:
0.2 g/100g

- **Challenge:** Improve the quality of citizen's health and well-being by helping them monitor their food intake.

- **Solution**: A food scanner based on Near Infrared Spectroscopy, cloud services and Bluetooth connectivity, providing users with real-time results on their mobile devices.

- **Winner**: Spectral Engines (Finnish start-up)

- **Award**: €800,000 (2017)

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Awarded Horizon Prizes:
Birth Day

- **Challenge:** Demonstrate a novel solution to improve the outcome of facility-based deliveries – clinical, technological or managerial in nature (or a combination).

- **Solutions**: QUARITE, a method of analysing and tracing the causes of maternal deaths in Senegal and Mali; CHAI MNH Nigeria, a managerial intervention ensuring that at risk deliveries are timely and surely referred upwards in the system; the WOMAN Trial, that tested and validated the use of a blood clot stabilising drug as a first line treatment for post-delivery bleeding.

- **Winners**: Teams from the Institut de Recherche pour le Développement (France), Clinton Health Access Initiative (US), London School of Hygiene and Tropical Medicine (UK).

- **Award**: x2 €1,000,000; and x1 € 500,000

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Horizon Prizes (open)

Tactile display

The contest has been launched and you can apply until 27 November 2018

Social Innovation

The contest has been launched and you can apply until 28 February 2019

CO$_2$ reuse prize

The contest has been launched and you can apply until 3 April 2019

Low carbon hospital

The contest has been launched and you can apply until 3 April 2019

Cleanest engine of the future

The contest has been launched and you can apply until 20 August 2019

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EIC Horizon Prizes (2017-2020)

SIX CHALLENGE-DRIVEN PRIZES	VALUE	DEADLINE
AFFORDABLE HIGH-TECH FOR HUMANITARIAN AID	€5 million	2020
BLOCKCHAINS FOR SOCIAL GOOD	€5 million	2019
INNOVATIVE BATTERIES FOR EVEHICLES*	€10 million	2020
FUEL FROM THE SUN: ARTIFICIAL PHOTOSYNTHESIS	€5 million	2021
EARLY WARNING FOR EPIDEMICS	€5 million	2020
LOW-COST SPACE LAUNCH*	€10 million	2021

*Open to legal entities from Member States and Associated Countries only.
 Please verify the Rules of Contest of each prize for additional eligibility criteria.*

European Commission

Affordable High-Tech for Humanitarian Aid

- **Challenge:** Develop innovative solutions for the delivery of humanitarian aid based on frugal application of advanced technologies.

- **Background**: The EU and its Member States are major humanitarian donors. Crises and disasters have increased in number, complexity and severity over the last 25 years, and funding to cover humanitarian needs cannot keep up.

- **Award**: €5 million (x5 winners)

- **Opening**: November 2017

- **Closing**: First quarter of 2020

HIGH-TECH FOR HUMANITARIAN AID

EIC HORIZON **prize**

SOLVE THE CHALLENGE
€5 million
Apply by 15 January 2020

Develop the best proven innovative and cost-effective tech-based solutions supporting humanitarian aid

#EICHorizonprize   europa.eu/!nH96kd

Research and Innovation

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Fuel from the Sun:
Artificial Photosynthesis

- **Challenge:** Build a fully functional, bench-scale prototype of an artificial photosynthesis based system which can produce a useable synthetic fuel. The device to be built needs to integrate the whole process from light capture to fuel production and be capable of powering a small engine, utilising either biomimetic, nanotechnology, synthetic biology or a combination of these systems.

- **Background:** Artificial photosynthesis is widely considered to be among the most promising new technologies to deliver sustainable alternatives to current fuel supplies, due to its ability to use a combination of sunlight, water and carbon from the air to produce energy.

- **Award**: €5 million

- **Opening**: December 2017

- **Closing**: First quarter of 2021

Research and Innovation

European Commission

Blockchains for Social Good

- **Challenge:** Develop scalable, efficient and high-impact decentralised solutions to social innovation challenges leveraging Distributed Ledger Technology (DLTs), such as the one used in blockchains.

- **Background:** DLT in its public, open and permissionless forms is widely considered as a ground-breaking digital technology. In the wake of the widespread public attention for Bitcoin, several financial applications based on blockchains are already under development. However, the potential of DLTs to generate positive social change by decentralising and disintermediating processes related to sustainability challenges is still largely untapped.

- **Award**: €5 million (x5 winners)

- **Closing**: Third quarter of 2019

European Commission

Innovative Batteries for eVehicles

- **Challenge:** Develop a safe and sustainable battery for electric-vehicles through the development of new materials and chemistries making use of abundant, sustainable low cost materials, which are easily available in Europe.

- **Background:** Solutions are required to provide the same or better performance than vehicles with internal combustion engines and to be capable of recharging the electric vehicle within a time equivalent to fill a conventional gasoline/diesel fuel tank. This prize will contribute significantly to the decarbonisation of Europe for the benefit of the EU's economy and its citizens.

- **Award**: €10 million

- **Opening**: February 2018

- **Closing**: Fourth quarter of 2020

INNOVATIVE BATTERIES FOR E-VEHICLES

eic HORIZON **prize**

SOLVE THE CHALLENGE
€10 million
Apply by 17 December 2020

Develop a battery for electric vehicles that provides the same performance and that re-powers as fast as a conventional car

#eicHorizonPrize   http://europa.eu/!tK68Xn

European Commission

Early Warning for Epidemics

- **Challenge:** Develop a scalable, reliable, and cost-effective early-warning system prototype to forecast and monitor vector-borne diseases in order to contribute to the prevention of outbreaks, mitigating their impact on local, regional and global scales, and providing support to existing elimination efforts.

- **Background:** According to the World Health Organisation (WHO), vector-borne diseases such as malaria, Zika, dengue or yellow fever cause more than 1 million deaths globally each year. The 2030 Agenda for Sustainable Development aims to end the epidemics of malaria and neglected tropical diseases (amongst others) by 2030.

- **Award**: €5 million

- **Opening**: First quarter of 2018

- **Closing**: Third quarter of 2020

European Commission

Low-Cost Space Launch

- **Challenge:** Develop a European technologically non-dependent solution for launching light satellites into Low-Earth Orbit (LEO), which will enable dedicated low-cost launches with committed schedule and orbit. The solution needs to be innovative, implementable, affordable in development and exploitation phases, and commercially viable.

- **Background:** Space technologies, data and services have become indispensable to the daily lives of European citizens. Moreover, space technology boosts jobs, growth and investments, and can help Europe to respond better to new societal challenges: climate change, disaster management, security threats, migration, farming, transport, energy and many more.

- **Award**: €10 million

- **Opening**: Second quarter of 2018

- **Closing**: Second quarter of 2021

More information

EIC Prizes webpage:
http://ec.europa.eu/research/eic/index.cfm?pg=prizes

EIC Prizes video:
https://youtu.be/6_MZz9Owwd4

EIC webpage:
https://ec.europa.eu/research/eic/index.cfm

Twitter: #eicHorizonPrize

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ec.europa.eu/research/eic

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