

HORIZON
2020

Hybrid fuel-electric multicopter RPAS with 10 times more flight time than current solutions in the market

Fact Sheet

Project Information

HYBRiX

Grant agreement ID: 823505

[Project website](#)

DOI

[10.3030/823505](https://doi.org/10.3030/823505)

Project closed

EC signature date

25 June 2018

Start date

1 July 2018

End date

31 December 2020

Funded under

INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost

€ 2 142 857,50

EU contribution

€ 1 500 000,00

Coordinated by

QUATERNIUM TECHNOLOGIES
SOCIEDAD LIMITADA



Spain

Objective

Quaternium, current SME Instrument Champion at Phase 1, will create a new global market of long-endurance multirotor drones with over 2,000 Million € value, which the company will lead with 25% market share. This milestone will be achieved thanks to HYBRiX innovation, the first hybrid fuel-electric multirotor drone. HYBRiX has 10 times more flight time than its existing alternatives. This disruptive innovation will provide an highly valuable solution for customers who cannot afford a manned

helicopter, but need more flight time than current multirotor drones can offer.

HYBRiX innovation is currently at TRL6. With this prototype, Quaternium set the World Record of Multirotor Endurance in December 2017, performing a flight of 4hr and 40 minutes and achieving a wide communication impact worldwide.

The expected outcome at the end of this project will be to have HYBRiX multicopter at TRL9, ready for commercialization and production at wide scale with initial traction and product / market / regulation fit. By then Quaternium will have capacity to assemble, storage, distribute and sell >500 HYBRiX UAS / year with a commercial representation and technical support network in Europe and North America and positioning in the global market as a leading European manufacturer of professional drones.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > [robotics](#) > [autonomous robots](#) > **[drones](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > [environmental sciences](#) > **[pollution](#)**

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > [aircraft](#) > **[rotorcraft](#)**

[social sciences](#) > [economics and business](#) > [business and management](#) > **[employment](#)**



Programme(s)

[H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

MAIN PROGRAMME

[H2020-EU.3. - PRIORITY 'Societal challenges](#)

[H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

Topic(s)

[EIC-SMEInst-2018-2020 - SME instrument](#)

Call for proposal

[H2020-EIC-SMEInst-2018-2020](#) 

[See other projects for this call](#)

Sub call

H2020-SMEInst-2018-2020-2

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator



QUATERNIUM TECHNOLOGIES SOCIEDAD LIMITADA

Net EU contribution

€ 1 500 000,00

Total cost

€ 2 142 857,50

Address

C PINTOR CORTINA 3 3

46000 VALENCIA

 **Spain** 

SME 

Yes

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 23 August 2022

Permalink: <https://cordis.europa.eu/project/id/823505>

