

PROJECT

## FlyNano

### FLYNANO - ELECTRIC AIRCRAFT FEASIBILITY VERIFICATION

**Funding:** European (Horizon 2020)

**Duration:** Feb 2018 - Apr 2018

**Status:** Complete

**Total project cost:** €71,429

**EU contribution:** €50,000



[CORDIS RCN : 213676](#)

#### Objectives:

The innovation supports the EU's efforts for sustainable aviation. High-tech eco-innovative electric airplane FlyNano is at TRL 7 and soon to be finished to mass-production. The solution is patented. FlyNano is environmentally and noise friendly plane which uses watercourses as runway. The plane has standard controls and normal airplane's flying characteristics. The exceptional design of FlyNano includes advanced carbon fibre structure; patented detachable, one-piece box wing invention, and a unique lightweight electrical powertrain has the world's best power to weight ratio.

The impacts are emissions reduction, safety, noise reduction, workplaces and new business. The solution is unique. Clear business opportunity and customer demand have been detected market tests. The first 10 FlyNanos have been presold and the concept launch lead to 50 M viewers in various media.

Fly Nano Ltd (established at 2010) has highly talented team of 12 professionals with the key knowledge for the development and commercialisation of the innovation. The expected growth potential for the next five years is 100 M€ yearly revenue, 50 new workplaces, 5 new patents, 1500 FlyNanos sold and 500 powerlines sold.

This feasibility study aims to verify the practical and economic viability of the innovation. The expected outcome of this project is a plan for global commercialisation of FlyNano.

#### Parent Programmes:

[H2020-EU.2.1. - Horizon 2020: INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

[H2020-EU.2.3. - Horizon 2020: INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

**Institute type:** Public institution

**Funding type:** Public (EU)

**Other programmes:** SMEInst-10-2016-2017 Small business innovation research for Transport and Smart Cities Mobility

#### Lead Organisation:

**Fly Nano Oy**

**Address:**

MIKONKATU 19 B  
00100 HELSINKI  
Finland

**EU Contribution:** €50,000

#### Technologies:

Aircraft design and manufacturing  
Electric aircraft

**Development phase:** Demonstration/prototyping/Pilot Production

**STRIA Roadmaps:** Transport electrification, Vehicle design and manufacturing

**Transport mode:** Air transport

**Transport sectors:** Passenger transport

**Transport policies:**

Environmental/Emissions aspects, Decarbonisation, Deployment planning/Financing/Market roll-out

**Geo-spatial type:** Other