

# THREOD SYSTEMS HORIZON 2020

## EUROPEAN COMMISSION GRAND

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Grand agreement number: 867809

Acronym: THEIAUAS

Type of the action: SME Instrument Phase 1

Start date of the project: 01.06.2019

Duration of the project: 4 months

The fixed-wing vertical take-off and landing UAV (VTOL UAV) market has boomed with the growth in demand from governmental and commercial aircraft markets. End-users are attracted to VTOL UAV solutions as it offers new options for emergency services, search and rescue, coast guard operations and has longer endurance and less complex maintenance than single-rotor rotary vertical take-off and landing UAV's.

There is a capability gap for a UAV that combines the VTOL UAV capability, long endurance, heavy payloads, and landing on unstable and moving platforms. Threod Systems aims to develop a multi-purpose long endurance vertical take-off and landing capable UAV Theia, in order to support maritime safety and security, search and rescue, critical supply delivery and other tasks.

During the feasibility study, Theia concept was further developed, ideas reviewed and validated. Market potential assessed, production requirements identified, and business plan developed.