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**AlphaLink**

The next-generation High-Altitude Platform
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Aerospace Engineer, Private Pilot
Ph.D. in Flight Mechanics and Flight Control

Inventor of AlphaLink

Dr. Daniel Cracau
Former UN Staffer
Ph.D. in Strategic Market Interaction

Project Management
AlphaLink has developed an unmanned Multibody Aircraft and Method for operation thereof (*patent pending, January 2018)

Mechanical joints at the wingtips yield a High-Aspect-Ratio Wing with Increased Payload Capacity
Model AlphaLink X

Number of Aircraft: 10
Total Wingspan: 215 m
Payload Capacity: 450 kg
Operational Latitude: 40° N/S
Continuous Operation: 365 Days

AlphaLink X is powered by solar energy and allows flexible mission rescheduling and maintenance work during flight.

Operating at altitudes of 20 to 30 km, AlphaLink X will provide

Broadband Communication & Long-Term Aerial Monitoring
The wingtip-coupling is achieved through a Mechanical Joint with 2 degrees of freedom. The flight controller has been integrated in the Smart FC® Box.
TEST CAMPAIGNS

On June 21, 2017, AlphaLink conducted a Closed-Loop Flight Test with three connected aircraft at Strausberg Airport in Berlin (GER).

The flight control laws have been validated in Fully Non-linear Simulations.
SMALL-SCALE APPLICATIONS

AlphaLink is planning to cooperate with photogrammetric companies that currently use manned aircraft for their data collection.

Practical demonstration is planned to follow the prototype development (25 kg): 18 – 24 months
On April 11, 2018, AlphaLink was awarded Innovative Drone Hero Europe out of participants from 13 European countries at Commercial Expo UAV Europe in Amsterdam (NL).
With the new HAPS approach we want to

**Bring back Europe’s Lead**
AlphaLink thanks
Dr. Daniel Cracau

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Get connected!

www.AlphaLink.space