OECON

OECON URBAN AIR MOBILITY SERVICES

UNLOCKING THE FULL POTENTIAL OF DRONES

OECON Urban Air Mobility Services

OECON Urban Air Mobility Services is a Unmanned Air Traffic Management (UTM) platform to connect all parties of the drone market with the whole UTM ecosystem and provide all relevant information specifically to each party.

Drone users, drone operators and drone service providers can easily and safely integrate their drones into the urban airspace including the planning of Beyond Visual Line of Sight (BVLOS) and Visual Line of Sight (VLOS) flights as well as the reception of flight approvals in line with international and local regulation.

Governmental authorities can visualize and approve drone flights and manage no-fly zones in real-time. Our services are aligned with the major SESAR[1] research programs to define, develop and test the U-Space[2] concept.

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[1] SESAR: Single European Sky ATM Research Programme"- A collaborative project to completely overhaul European airspace and its air traffic management (ATM)

[2] U-Space: European drone management system (https://www.sesarju.eu/U-space)

OECON URBAN AIR MOBILITY SERVICES

Integration in Air Traffic Management	INTEGRATED UTM	i-UTM
Capacity Management, detect & avoid	ADVANCED UTM	a-UTM
Flight Planning & Approval	URBAN UTM	u-UTM
Registration & Identification	BASIC UTM	b-UTM

Four Main Services - Tailored for your needs

Registration & Identification

OECON BASIC UTM

The OECON BASIC UTM (b-UTM) platform provides registration and identification services for professional drone users, drone operators or drone-as-a-service providers. With b-UTM you can safely register your consumer and industrial drone, make it a part of urban air space and visible to other parties and relevant governmental authorities.

Your Benefits

Register and identify your drones easily

Make your drone visible to relevant parties and governmental authorities

Flight Planning & Approval

OECON URBAN UTM

The OECON URBAN UTM (u-UTM) platform includes flight planning & approval services for professional drone users, drone operators or drone service providers. With u-UTM you can plan missions and flights, get them approved from authorities through standardized and certified processes and receive live information of each of your drones. Upon approval you'll be able to execute your mission safely and securely while tracking your drone in real-time.

Your Benefits

Plan your missions instantly by drawing on a map

Generate flight requests and receive approvals from authorities

Fly by using video or map views and monitor your flight in real time

Generate instant aerial insights in seconds; sync your data to the cloud and achieve rapid ROI
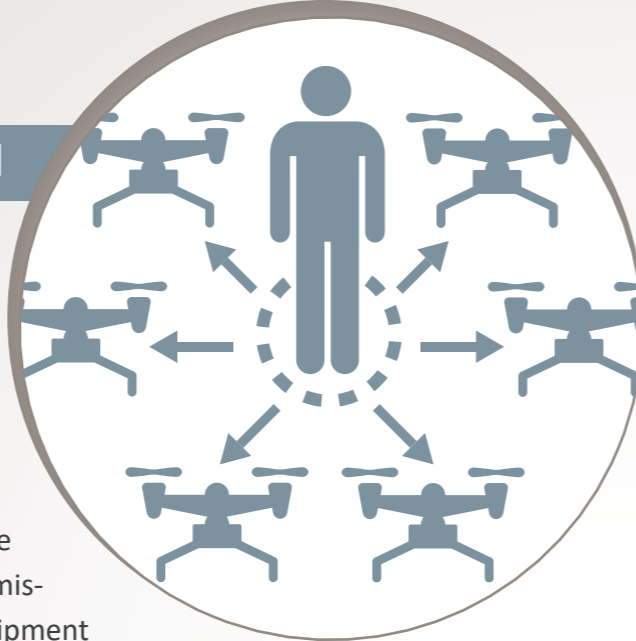
Monitor all relevant flight parameters and receive automatic warnings (e.g. for low battery voltage)

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Capacity Management, detect & avoid

OECON ADVANCED UTM

The OECON ADVANCED UTM (a-UTM) platform provides capacity management for drone operators, drone service providers and control centre operators. a-UTM lets you easily manage a drone fleet in the air and on the ground. Plan and manage missions based on performance estimations, need of specific equipment and availability of your fleet. Our self-learning algorithm provides alternative flight-plans to operators considering mission requirements, actual air traffic, weather conditions and drone availability. Online health status of the entire drone fleet will be available as an integrated feature of the management system. Once the drone is flying, mission execution will be supported by integrated detect & avoid functionalities. (Available early 2019)

Your Benefits

Plan and deploy sophisticated missions with emergency manoeuvres

Adjust active or planned flights based on changes in airspace conditions, and availability of drones for the highest performance.

Maximize situational awareness with real-time notifications of nearby traffic, based on the flight plan and live telemetry.

Manage your equipment and operations in one integrated place

OECON INTEGRATED UTM

The OECON INTEGRATED UTM (i-UTM) platform is a full-service UTM system for integration into a manned air traffic management system. Drone service providers and control centre operators can monitor all air-traffic at once in real time. i-UTM fully integrates UTM with air traffic management systems and digitizes all processes. Drones and other air vehicles – like helicopters or planes – can interact with each other and air traffic as a whole can be controlled by just one central control centre. Drones as well as the entire UTM system will operate based on their own embedded artificial intelligence components ensuring a safe, secure, successful and reliable mission operation. (Available late 2019)

Your Benefits

Fast access to real-time airspace data

Use the interactive ever-changing airspace map to collaborate, plan and manage authorized flights in controlled airspace

Integration in Air Traffic Management

Extensions - Upgrade for additional functionality

HEALTH SERVICES

HEALTH SERVICES (HS+) enable operations that require specific levels of assurance, integrity, and robustness of a platform and mission. It supports a risk-based approach and regulatory requirements. HS+ enables technical fleet management and standardized maintenance processes and, hence, supports scalable and sustainable commercial operations by avoiding downtime and loss of revenues. Pre-installed sensors, distributed over a complex technical system or platform (e.g. turbine, engine, UAV), are used to collect data of several sub-systems and elements. HS+ is a diagnostic process that analyses these samples to determine the system-status.

HS+

TSS+

TEST & SIMULATION SERVICES

TEST & SIMULATION SERVICES (TSS+) allow drone operators to test their system with simulated air traffic. Drones can easily be integrated safely into simulated airspace without risking damages to expensive infrastructure. TSS+ analyse the limitations of your drones, their capabilities and their interaction with sensors and payload. Moreover, different weather conditions, such as temperature or wind can affect your ability to conduct operations. It is easy to simulate different security scenarios such as immediate helicopter missions or other unplanned actions affecting the airspace.

PORTAL SERVICES

PS+

PORTAL SERVICES (PS+) connect users with a UAS demand to drone operators. Drones are becoming more and more powerful and can be used in different business areas to support or optimize processes – from field observations in agriculture to rotor blade inspection of wind turbines. But how to find a capable drone and operator to perform the mission? PS+ provides intelligent matching, so users of UAV services only receive offers from suitable and certified drone operators in order to compare and select the most suitable one for their specific needs. The drone operator takes care of all regulatory applications and ensures that the drone is performing the mission safely. After successful completion of mission execution, the billing process is initiated automatically.

BUSINESS CONSULTING SERVICES

BUSINESS CONSULTING SERVICES (BCS+) help enterprises to evaluate various business opportunities within the UAV eco-system. Based on the best-practice industry standards we support our clients with an end-to-end consulting approach, starting with market evaluation and positioning, through developing a product portfolio and set-up of business processes. BCS+ will design the needed organizational structure along with skill requirements and headcount. Finally, you'll get concepts and architectural plans for business- and operations-support-systems alongside a financial plan detailing cost and revenue streams as well as expected break-even- and amortization-points. This will help you to determine whether your business case is feasible and how to start and build the project.

BCS+

About Us

We are one of the world's leading providers of cutting-edge testing and location-based smart mobility solutions that support manufacturers and suppliers of the automotive industry and associated industries. Driven by our passion for innovation, we develop solutions enabling the cost and time effective high quality testing processes, and applications of information communication technologies to accelerate the transition to intelligent transport systems.
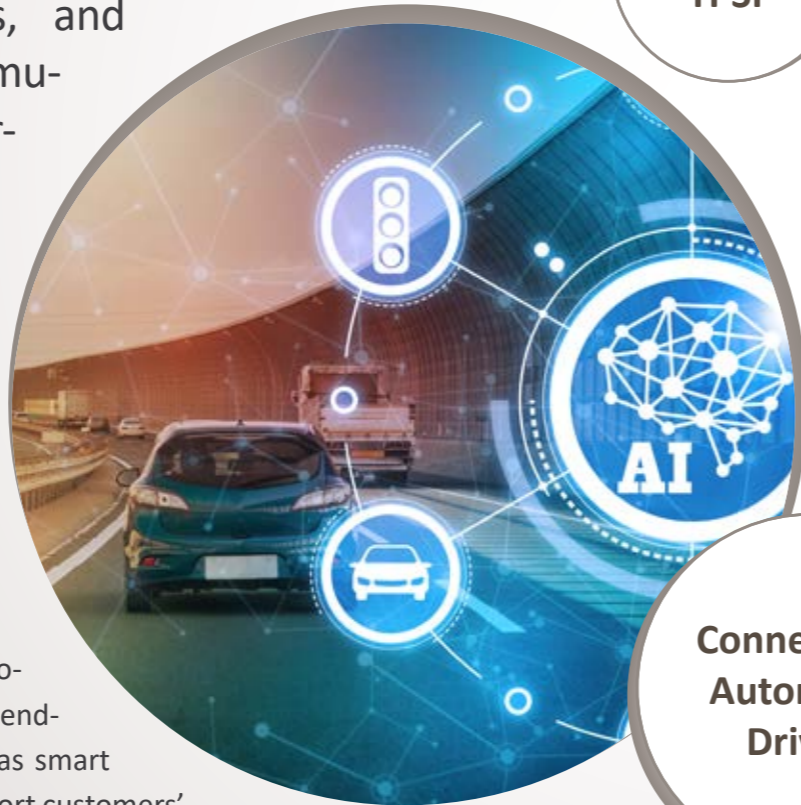
Our Business

Our broad portfolio of innovative products and services is organized into four main segments. OECON´s market-leading eCall products; smart solutions and test systems for connected and automated driving including innovative applications and "V2X sim4real software"; end-to-end solutions for UAV management as well as smart parking systems. Our products and services support customers' needs across the entire technology life cycle from proof of concept to the actual implementation.

eCall & TPSP

UAV Management

Connected & Automated Driving

Smart Parking

Our Customers

Numerous customers in EMEA, East Asia and North America take advantage of our cutting-edge testing and smart mobility solutions. Additionally, PSAPs all over Europe trust our eCall Router technology. We thrive on and strive for delivering outstanding customer service, while meeting business objectives of increasing profitability, productivity and growth.

Industry Experts

We are experts in PSAP services, information communication and mobile positioning technologies. With our team of dedicated and specialized professionals who are connected with opinion leaders and important decision makers as well as our experiences gained from various projects for the last 15 years, we are equipped provide products and services to meet your specific requirements.

Contact

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