



UNITED SYSTEMS EUROPE

A MAA Community Action

Cooperation, Coordination,
Education & Harmonization
To Create & Grow A Safe,
Sustainable & Societally
Acceptable Market

FOCUS

- Manually operated, automated, and autonomous vehicle (MAA) systems in the aerial, terrestrial, nautical & space domains
- Current & future operators & operations

SCOPE THE FUTURE

Together with
national, European &
international colleagues

Interest To Join

General Enquiry

Participant Application



United Systems Europe



FACT SHEETS

<https://united-systems-europe.eu/>

Comments & Questions: Contact@United-Systems-Europe.eu



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CONTEXT

- ◆ MAA systems embody the technological progress made in several key areas (i.a. IT, electronics, telecommunications, artificial intelligence) & supply substantial societal benefits for an evergrowing market.
- ◆ The design, production & use of these systems create a wide variety of jobs within a very large ecosystem.
- ◆ The dispersion of organisations, initiatives addressing this new industry, and the multiple information sources, are an obstacle to development.
- ◆ Several European countries have created platforms for exchanges between public authorities & industry, but the harmonized implementation of the new EU regulation shows a strong need for concerted consultation between the market stake-holders at European level.
- ◆ Several regulatory changes are necessary to frame the operations expected in the short- to medium-term (e.g. autonomous drones, BVLOS flights, flights in populated areas), which requires a consolidation of exchanges between MAA operators and EU regulatory authorities.
- ◆ This consultation must be accompanied by actions to support the development of the MAA market sectors, both financially and societally, as the acceptance of these systems will come at the cost of a wide educational & awareness creation effort.

What USE Brings

In view of the aforementioned, as well as the strong international competition, USE proposes to:

- ◆ Unite the energies contributing to the development the European market for MAA systems in the aerial, terrestrial, nautical & space domains.
- ◆ Facilitate the de-compartmentalization between public & private actors in the emerging MAA system market through the establishment of collaborative work, proposals based on written contributions, a platform for consolidated information dissemination & digital exchanges, and events covering all relevant issues.

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VISION

USE, a European public/private partnership, aims to unite the stakeholder communities in the fields of non-military **manually operated, automated** and **autonomous** vehicle (MAA) **systems** deployed in the **aerial, terrestrial, nautical** and **space** environments.

Operators

A special focus is placed on **corporate entities** (start-ups, micro companies, SMEs, large companies), **non-corporate organisations**, and **public bodies** conducting, or planning to conduct, **professional operations** [commercial and non-commercial (including corporate operations)] **with MAA systems**.

Coordination & Cooperation & Harmonization

The intent of USE is to produce, in total transparency and in coordination with all relevant regulatory authorities and stakeholders, without duplicating existing efforts, documents & services that are relevant for the creation and growth of a harmonized, sustainable and socially acceptable market for the safe operation of MAA systems for all possible current and future purposes at national, European and international levels. The documents produced will include concept papers, position papers, recommendations, reports, reviews and comments.

Awareness & Access to Information

With the objective of increasing awareness and simplifying & improving access to all relevant information, USE aims to create an extensive online repository for the entire MAA systems community.

New Technologies

Furthermore, USE aims at identifying and connecting with the producers of all existing and developing technologies and technological concepts of interest to further the development & growth MAA systems market.

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GUIDELINES

- ◆ In view of the potential of technology and services cross-over between the application sectors, transversally address MAA systems deployed in the air, terrestrial, nautical and space environments;
- ◆ Take an incremental approach to tackling these four participant application sectors, based on the relevant expertise available amongst the USE participants;
- ◆ Initially address MAA system activities in the aerial sector;
- ◆ Deploy its activities with and for Europe, but in contact & coordination with the rest of the world;
- ◆ Create a sustainable organisational business structure;
- ◆ Act in total transparency with all institutions and its members;
- ◆ Create a forum for all players in the European MAA system ecosystem;
- ◆ Promote sectorial and inter-sectorial dialogue & understanding;
- ◆ Actively undertake steps to promote coordination and cooperation with all involved stakeholders;
- ◆ Taking into account the applicable safety, security, privacy & environmental requirements, produce community-based deliverables that will promote the development of a safe & sustainable market;
- ◆ Avoid duplication of effort with other initiatives;
- ◆ Act as a sounding board for the European Commission and European Union agencies;
- ◆ Contribute to creating a safe & sustainable market for beyond visual line of sight (BVLOS) programmed & autonomous operations in all economic application sectors;
- ◆ Highlight the societal and economic benefits of MAA systems;
- ◆ Position & promote European R&D and concepts internationally.

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HIGH LEVEL GOALS

Connect

- ◆ Current & future MAA system operator communities and authorities
- ◆ National, European and international interest groups

Identify

- ◆ Existing knowledge and expertise
- ◆ Gaps in the EU regulations & implementing rules, and submit proposals for solutions
- ◆ Regulatory issues in the individual EU Member States, and submit proposals for solutions

Promote

- ◆ EU harmonization of national approaches on topics of common interest
- ◆ Awareness of MAA systems at all levels (incl. general public)
- ◆ Interaction between aviation, ground transport, shipping & space sectors already and not yet involved in MAA systems
- ◆ Awareness of national & EU best practices and experimentation

Contribute To

- ◆ Harmonization of national approaches
- ◆ Accelerating the harmonization process in the EU
- ◆ Adapting or creating new rules & regulations in the EU
- ◆ Supplying inputs to standard producing efforts
- ◆ Speeding up the implementation of solutions
- ◆ Obtaining societal acceptance of MAA systems

Mentor

- ◆ Newcomers to the MAA system ecosystem

Create

- ◆ A central database containing all MAA system-related information

Constitute

- ◆ A forum for national MAA initiatives (incl. civil drone councils)
- ◆ A federated voice of the MAA systems community at European & international levels

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WORK PRINCIPALS

- ◆ Act with and for European stakeholders, but in contact and coordination with non-European stakeholders.
- ◆ Focus on transparent collaboration between all stakeholders.
- ◆ Simplify and increase access to relevant information for all stakeholders.
- ◆ Promote awareness & relevant required education.
- ◆ Pool joint resources.
- ◆ Bridge gaps in the community.
- ◆ Establish coordination links between national Civil Drone Councils (and similar organisations) established in Europe.
- ◆ By means of written and oral contributions exercise influence on the development of a safe and sustainable market for unmanned systems (in terms of safety, security, privacy and environment).
- ◆ Contribute to creating a sustainable market for safe (programmed & autonomous) operations of tomorrow for MAA systems in the aerial, terrestrial nautical and space sectors.
- ◆ Promote European harmonization.
- ◆ Take existing regulations, rules, and best practices into account.
- ◆ Not undertake any duplication of efforts deployed by other stakeholders [no conflicts with activities undertaken by existing EU initiatives (e.g.: European Commission, EU Agencies and Joint Undertakings, “European UAS Standards Coordination Group”), EUROCONTROL, standardization organizations, EU-funded consortia].
- ◆ Act as a sounding board for the European Commission & EU agencies.
- ◆ Promote economic development and job creation in the EU.
- ◆ Position and promote European concepts, products, services, and research & development.

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COMPREHENSION & ACCESS TO INFORMATION

USE strives to be a recognized forum where interaction between all the stakeholders and members of the wider ecosystem of MAA system can be established or improved. In this context, USE intends to:

- ◆ Fulfil the role of mentor for new entrants in the MAA system ecosystem.
- ◆ Promote mutual understanding and cooperation regarding MAA system operators between:
 - Large operators (>250 employees; turnover >€50 million)
 - SMEs (11-250 employees; turnover <€50 million)
 - Micro companies (2-10 employees; turnover <€2 million)
 - Sole proprietorships
 - Research institutions & knowledge institutes
- ◆ Promote mutual understanding & cooperation regarding MAA systems manufacturers between:
 - Large producers (> 250 employees; turnover >€50 million)
 - SMEs (11-250 employees; turnover <€50 million)
 - Micro companies (2-10 employees; turnover <€2 million)
 - Sole proprietorships
 - Research institutions & knowledge institutes
- ◆ Promote mutual understanding, information exchange, and where possible cooperation, between MAA stakeholders in the 4 application sectors: Air, Terrestrial, Nautical, Spatial
- ◆ Promote understanding & relationships between the MAA systems community and potential new stakeholder groups, such as e.g.:
 - Regional authorities (départements, municipalities, Länder, provinces, regions)
 - Freight & passenger transport companies, and logistics companies
 - Designers & operators of airports, heliports and vertiports
- ◆ Make sector-specific information more readily available to the MAA systems community (especially for SMEs, micro-enterprises, sole proprietorships).

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COMMUNITY PROMOTION

- ◆ Promote the development, production and safe use of MAA systems of all sizes and in all classes (and related products and services) for professional applications.
- ◆ Promote the future commercial & non-commercial safe use of MAA systems (including corporate operations, police, customs, coastguard, firefighting, and search & rescue operations).
- ◆ Facilitate information exchange and cooperation in the field of MAA systems between industry (manufacturers & operators, service providers), national & regional governments (civil & military), national aviation authorities, air navigation service providers, aeronautical information service providers, ground transportation service providers, maritime service providers, space service providers, training organisations, R&D centres, universities, international organisations.
- ◆ Promote establishment, acceptance & updating of EU, national, regional & international regulations, standards and legislation.
- ◆ Promote development & introduction of commonly agreed classifications & terminology at all levels (national, EU, international).
- ◆ Promote creation & updating of MAA systems related operational, certification & traffic management standards at all levels.
- ◆ Promote development & implementation of acceptable insurance standards at all levels.
- ◆ Promote a level playing field for MAA system deployment in the EU.
- ◆ Give the MAA systems community a voice at European & global level.
- ◆ Facilitate the coordination of national regulatory (implementation) efforts at EU & global level and promote operational harmonisation.
- ◆ Incite & promote European & inter-national cooperation.
- ◆ Study & investigate solutions to relevant problems (scientific, technical, operational, infrastructural, socio-economic, documentary, legal).
- ◆ Initiate & coordinate national, European & international promotion.

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DOMAINS OF INTEREST

The USE domains of interest in each of the four application sectors (air, terrestrial, nautical, space) fall into the following categories:

- ◆ Regulations, rules, best practices & standards (technical & operational) relevant to the professional (non-military) use of MAA systems [including, inter alia: police, customs, coast guard, firefighting, search & rescue, medical assistance, logistics, urban air mobility (UAM), Smart & Connected Cities];
- ◆ Systems, products and services necessary to support the execution of safe operations with MAA systems;
- ◆ All management and information services required to integrate MAA systems into the existing operational environment;
- ◆ Support to EU entities (European Commission, European Parliament, European Agencies, Joint Undertakings);
- ◆ Create & adapt existing infrastructure (incl. in the field of “Urban Air Mobility”) required to accommodate MAA systems.
- ◆ Technical, Operational and Personnel Qualification Requirements.
- ◆ Professional education/training & examination of MAA system operators/pilots with the aim of achieving a uniform set of training standards in the EU & obtaining pan-European mutual remote pilot licence recognition.
- ◆ Create awareness among operators of MAA systems of the ecosystem in which they are located, on the applicable rules and terminology, existing best practices, and the relevant publications.
- ◆ Simplify access to the necessary regulatory documents and/or the web sites where these documents can be found.
- ◆ Create awareness of the societal and financial benefits of the use of MAA systems (incl. with the general public).
- ◆ Research in the above fields with the objective to contribute to future developments & requirements (technical, regulatory, societal).

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WORKING GROUPS

The activities of USE address 4 operational sectors:

- ◆ **Aerial Operations**
- ◆ **Terrestrial Operations**
- ◆ **Nautical Operations**
- ◆ **Space Operations**

Each of these 4 operational sectors have the following working groups:

- ◆ **Regulations, rules, best practices & standards** (technical & operational) relevant to the professional (non-military) use of MAA systems [including, inter alia: police, customs, coast guard, firefighting, search & rescue, medical assistance, logistics, urban air mobility (UAM), Smart & Connected Cities];
- ◆ **Training & Qualification**
- ◆ **Insurance & Legal Framing** (incl. Data Protection & Privacy)
- ◆ **Operations**
- ◆ **Regulations, Standards & Use**
- ◆ **Support, Promotion & Awareness Creation**
- ◆ **Technology**
- ◆ **Security** (incl.: C3, Cybersecurity/Resilience, & Counter-MAA Systems)
- ◆ **Education**

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AERIAL OPERATIONS - WORKING GROUPS

WG1 - Education, Training, Examination

- ◆ Qualification of flight schools
- ◆ Harmonization of the learning objectives, the measurement criteria and the examination process across Europe, with the aim of mutual recognition of pilot qualifications within Europe.
- ◆ Harmonization of terminology
- ◆ Creation of operator training, qualification & related standards for the “specific” operational category (to achieve a pan-European recognition)
- ◆ Professional training of pilots in the “specific” operational category, as well as additional qualification, examination & related standards (to achieve pan-European recognition)
- ◆ Harmonization of safety rules for test, demonstration & training sites in the EU and, if desired, the creation of a European label for these sites.
- ◆ Development of pilot training simulators & the related software.
- ◆ Development of the possible use of virtual reality, extended reality, assisted reality, and mixed reality.

WG2 - Operational Matters

- ◆ Advanced Air Mobility (AUM)
[Transport: Automation of freight transport (incl. medical & emergency flights) & Automation of transport of persons, Urban Air Mobility (UAM), Urban logistics]
- ◆ Data protection & privacy
- ◆ Harmonization of topics not covered by EU regulations (e.g. flight schools; pilot training, qualification, exams; test, demo & training sites)
- ◆ Flight operations [$<$ & $>$ 400 ft above ground level (AGL)]; in UAS Geographical Zones; over sparsely & densely populated areas; in atypical airspace; over controlled territories (Controlled Ground Areas); over urban areas; in Controlled Traffic Regions (CTRs)
- ◆ UAS Geographical Zones (Geo-zones)
- ◆ U-space/unmanned traffic management (UTM)

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AERIAL OPERATIONS - WORKING GROUPS

WG3 - Regulations, Standards & Usage

This Working Group (WG) will address:

- ◆ Aviation Information Services
- ◆ Security Risk Analysis & Risk Mitigation Tools
- ◆ Play a cautionary role regarding the harmonization of national approaches to the implementation of the EU Regulation.
- ◆ Predefined risk assessments (PDRA) for specific user groups of unmanned aircraft systems in the EU.
- ◆ Standard scenarios for specific user groups of unmanned aircraft systems in the EU.
- ◆ Notified Bodies.

WG4 - Security

This Working Group (WG) will address:

- ◆ Counter UAS Systems (in the aviation, terrestrial, nautical & space environments)
- ◆ Cybersecurity & cyber resilience (incl. safeguarding against fraudulent takeover of the command & control function by criminals and terrorists; the qualified takeover of the command & control function by authorities for security reasons; the protection of data collection, data storage, processing & transmission; protection against the use of unmanned aircraft systems as a hacking tool)

WG5 - Support, Promotion & Awareness

This Working Group (WG) will produce various types of documents that explain and highlight the societal & economic benefits of MAA systems. These documents will not only have educational value, but will contribute to creating and improving general awareness, and will contribute to positively influence acceptance of MAA systems by the general public.

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AERIAL OPERATIONS - WORKING GROUPS

WG6 - Technical Matters

The following topics have been identified as being of interest to be addressed by this working group (WG):

- ◆ Airports, heliports & vertiports, and related infrastructure, standards & services
- ◆ Autonomy & Artificial Intelligence (AI)
- ◆ Geographical coverage and connectivity of mobile phone networks
- ◆ Frequency spectrum & communication (incl. connections via satellite)
- ◆ Detect & Avoid systems
- ◆ E-identification
- ◆ Solar cells, fuel cells (hydrogen) & energy storage
- ◆ Hybrid/electric drive
- ◆ Remote identification of the pilot
- ◆ Design of MAA systems with technical specifications corresponding to operator-defined requirements for specific operations (demand-centric development).

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ACCESS TO INFORMATION

USE facilitates the access to information from multiple sources by:

- ◆ **Creating an online library and making all relevant information easily accessible to all.**
- ◆ **Monitoring the EU-funded research projects and maintaining a library of their results, or supplying links to them.**
- ◆ **Monitoring new EU-funded research projects & informing the participants on the opportunities.**
- ◆ **Monitoring research projects (not EU-funded) & informing the participants on the opportunities.**
- ◆ **Monitoring the web sites of national, EU and international regulatory authorities, and maintaining an online library of relevant regulatory documents, or supplying links to them.**
- ◆ **Monitoring the web sites of national, EU & international standard producing organisations (SPOs), and maintaining an online listing of relevant published standards.**
- ◆ **Monitoring the web sites of inter-gouvernemental (JARUS, NAARIC) & international (ICAO) organisations and maintaining an online listing of relevant published documents.**
- ◆ **Producing and posting newsletters & news flashes, and sending out automated notifications of new postings to the participants.**

USE also informs participants on:

- ◆ **Calls for participation in new standards producing working groups**
- ◆ **Calls for comments on draft standards issued by standard producing organisations (SPOs)**
- ◆ **Calls for review of draft documents (e.g. recommendations) issued by various types of organisations.**

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COORDINATION

USE strives to coordinate its activities with, i.a.:

◆ European Organisations

- All relevant services of the European Commission
- All relevant EU Agencies & Joint Undertakings
- EC Informal Drone Expert Group
- European Development Bank
- National accident investigation authorities
- ENCASIA - European Network of Civil Aviation Safety Investigation Authorities
- EUROCONTROL
- ECAC - European Civil Aviation Conference
- NAARIC - National Aviation Authority Regulation Implementation Coordination Group
- National Aviation Authorities (NAAs) of EU Member States
- European Committee of the Regions (CoR)
- The European Parliament

◆ International Organisations

- ICAO - International Civil Aviation Organization
- IMO - International Maritime Organization
- JARUS - Joint Authorities for Rulemaking on Unmanned Systems
- OECD - Organization for Economic Cooperation and Development
- UN - United Nations Food & Agriculture Organization
- UN - United Nations Aviation
- World Bank
- World Economic Forum

◆ **Interest Groups** - Existing non-military organisations [European level (pan-European associations & federated technology clusters), national level (associations, federations), and international level]

◆ **Military & Dual-purpose Organisations** (national, EU, international level)

◆ Standardization Organisations & Coordinating Groups

- ESCG - European Standards Coordination Group
- EU standard producing organisations (at European & national level)
- Other standardisation producing organisations (at international level)

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SERVICES

USE aims to provide, i.a. the following services:

◆ Create & maintain online registers of:

- UAS operators (commercial) in the “specific” & “certified” categories that are registered with the relevant national aviation authority, or provide links to the relevant lists on websites of the relevant NAA.
- Manufacturers (of systems, subsystems, software, critical components)
- Service suppliers [incl. air navigation service providers (ANSPs), aeronautical information service providers, U-space service providers (USSP), urban air mobility service providers (UAM), common information service providers (CIS), communication service providers, conformity assessment bodies, flight schools, insurance, legal offices, Qualified Entities, Notified Bodies, or provide links to the appropriate lists on the relevant websites].
- Technology clusters
- Flight training schools
- Test, demonstration & training locations
- All EU-funded, as well as regionally and nationally funded, MAA system related research projects, and supply links to their websites, and/or to the relevant sections on the CORDIS website.
- Research organisations with MAA-related activities.
- Academic institutions with MAA-related curricula and/or research.

◆ Create & conduct webinars

◆ Create & conduct online courses

◆ Organize & conduct surveys

◆ Conduct studies (including studies commissioned by third parties)

◆ Create, administer & maintain a website with links to all relevant organisations

◆ Propose standards for the harmonization of qualification/safety requirements for Flight training schools, Remote Pilot Licenses, Test, demonstration and training locations

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Cooperation, Coordination,
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To Create & Grow A Safe,
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Acceptable Market

FOCUS

- Manually operated, automated, and autonomous vehicle (MAA) systems in the aerial, terrestrial, nautical & space domains
- Current & future operators & operations

SCOPE THE FUTURE
Together with
national, European &
international colleagues

Interest To Join

General Enquiry

Participant Application

CROSS POLLINATION

USE strives to:

- ◆ **Foster understanding & relations** between the various stakeholder groups in the ecosystem of each the activity sectors (aerial, terrestrial, nautical, and space).
- ◆ In each activity sector, **foster under-standing & promote cooperation** between:
 - MAA System **operators** in the following categories:
 - Large corporate entities
 - SMEs + micro companies + start-ups
 - Research organisations
 - Academia
 - MAA Systems **producers & developers** in the following categories:
 - Large corporate entities
 - SMEs + micro companies + start-ups
 - Research organisations
 - Academia
 - MAA Systems **operators & producers** in the following categories:
 - Large corporate entities
 - SMEs + micro companies + start-ups
 - Research organisations
- ◆ In each activity sector, **foster under-standing & relations** between the **MAA System ecosystem** and **potential new entrants, potential end-customers** and **stakeholder groups**, e.g.:
 - Regional authorities (départements, Länder, municipalities, provinces, regions)
 - Transport & logistic companies
 - Aerodrome, heliport & vertiport operators
- ◆ **Foster understanding & relations** between the various **participants** in each activity sector.

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EUROPEAN MAA SYSTEMS MUSEUM

For **historical, educational** and **public awareness creation** reasons, USE aims to initiate, promote and coordinate the establishment of an European museum **network** exhibiting MAA systems (civil & military).

The network would have a **central & publicly accessible** online knowledge centre, where related documents, photos and videos (donated by entities in all participating countries) are available.

USE aims to promote the establishment of a museum for MAA systems in every country in the European Union.

These national museums will house their national military, civilian and nationally produced MAA systems, obtained as donations.

The national MAA museums could be federated or otherwise interconnected.

The national museums could enter their national documents and videos into the knowledge centre's central database, which would be managed by an umbrella organisation.

Defined sections of the central database would be publically accessible, other sections would only be accessible to qualified and registered entities (e.g. schools, universities and research organisations).

Temporary exhibitions organised by a museum, member of the museum network, could be exchanged within the museum network.

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PARTICIPATION - SECTORS

Paying Participants

- MAA system operators
- Designer / Producer / Integrator
- Software & Artificial Intelligence
- Service Supplier
- Service Provider
- Current & future data customers
- Consultant/Specialist/Think-Tank
- Test & Demonstration Centre
- Education (*for profit*)
- Research (*for profit / not-for-profit*)
- Technology / Industrial Cluster

- Association, Federation, Foundation, Union
- Centre of Learning (academy, school, university) (*not-for-profit*)

Non-Paying Participants

Public Entity

- EU / National / International
- Inter-governmental Organisation
- MAA System Operator
- End Customer of Data

Standard Developing Organisation

PARTICIPATION - COUNTRIES

Europe

EU Member States (MS)

Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Germany, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Croatia, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden

Outer Regions of EU MS

Azores, Canary Islands, French Guiana, Guadeloupe, Madeira, Martinique; Mayotte; Reunion, Saint-Martin

Overseas Countries & Territories

Aruba, Bonaire, Curaçao, French Polynesia, French Southern & Antarctic Lands, Greenland, New Caledonia, Saba, Sint Eustatius, Sint Maarten, St. Barthélemy, St. Pierre & Miquelon, Wallis & Futuna

European Microstates

Andorra, Liechtenstein, Monaco, San Marino, Vatican City

EU Associated Countries

Albania, Armenia, Bosnia & Herzegovina, Faroe Islands, Georgia, Iceland, Israel, Moldova, Montenegro, North Macedonia, Norway, Serbia, Tunisia, Turkey, Ukraine - Canada (under evaluation by the EU)

Switzerland & United Kingdom

Non-European - Having their principal place of business and/or production in a country that does not fall under Europe (as defined above).

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PARTICIPATION - OPERATORS

◆ Industry Representatives:

- **MAA system operators:**
 - Commercial (*incl. cargo, passenger & mail transport*)
 - Non-commercial
 - Corporate operations (*incl. cargo, passenger & mail transport*)
 - Private or public
- Producers
- Service Suppliers
- Current & future customers (of operators)
- Technology & industrial clusters
- National, European & international interest groups

◆ Universities, Research Institutions & Knowledge Centres

◆ Public Entities (*economic and/or industrial development organisations*)

◆ International Organisations

◆ Consortia Subsidized by the EU

◆ Other Stakeholders

Note: **Corporate operators** use their own MAA systems to contribute to their company activities (*without payment by customers from outside the company/organisation*). Corporate operators can include companies & organisations managing, maintaining, exploiting, e.g.:

- | | | |
|--------------------|--------------------------|----------------------|
| • Airports | • Bridges | • Canals & waterways |
| • Dams & dikes | • Electricity grids | • Farms |
| • Fish farms | • Forests | • Garbage dumps |
| • Greenhouses | • Harbours | • Highways & roads |
| • Industrial sites | • Landfills | • Mines |
| • Mobile networks | • Offshore installations | • Pipeline networks |
| • Rail networks | • Solar panel farms | • Storage sites |
| • Tunnels | • Wild life reserves | • Wind turbine farms |

Corporate operators can also include:

- | | | |
|---|-------------------------|---------------------|
| • Flight schools | • Geophysical surveyors | • Mapping companies |
| • NGOs | • Research orgs | • Survey companies |
| • Transport of personnel, cargo or mail for internal company purposes | | |

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PARTICIPATION - PRODUCERS

◆ Industry Representatives:

- MAA system operators (*commercial & non-commercial; private & public*)
- **Producers** (*incl. designers & integrators*)
- Service Suppliers
- Current & future customers (*of operators*)
- Technology & industrial clusters
- National, European & international interest groups

◆ Universities, Research Institutions & Knowledge Centres

◆ Public Entities (*economic and/or industrial development organisations*)

◆ International Organisations

◆ Consortia Subsidized by the EU

◆ Other Stakeholders

Producers of i.a.:

- **MAA systems**
- **System elements** (*i.a. remote pilot station, homing / docking / self-charging station, automated cargo loading & unloading system, tethering system, launch & recovery system, airport & and vertiport*)
- **Communication systems** (*i.a. command, control & communication, telemetry system, antenna, tracking system, transponder*)
- **Sub-systems** [*i.a. imaging & non-imaging payload, engine (thermal, electric & hybrid), landing gear, autopilot, flight control, navigation, positioning, servo, Detect & Avoid, obstacle avoidance, E-identification, flight sensor, gyro-stabilized platform, energy-related product (i.a. solar cell, hydrogen cell, energy storage)*]
- **Software** [*i.a. mission control, geo-caging, safety risk assessment, training & examination, data & image processing, ATM, UTM & U-space, artificial intelligence (AI), virtual, augmented & mixed reality*]
- **Critical components**
- **Training simulators & other training tools**
- **Counter-MAA systems** (*aerial, terrestrial, nautical, space*)

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PARTICIPATION - SERVICE SUPPLIERS

◆ Industry Representatives:

- MAA system operators (*commercial & non-commercial; private & public*)
- Producers
- **Service Suppliers**
- Current & future customers (*of operators*)
- Technology & industrial clusters
- National, European & international interest groups

◆ Universities, Research Institutions & Knowledge Centres

◆ Public Entities (*economic and/or industrial development organisations*)

◆ International Organisations

◆ Consortia Subsidized by the EU

◆ Other Stakeholders

Service Suppliers, include i.a.:

- **Aeronautical information** service provider
- **ANSP** - Air navigation service provider
- **Airport & vertiport operator**
- **CIS** - Common information service provider
- **Clusters** (*technology & industry*)
- **Communication service** provider (*incl. mobile telephone network & satellite service provider*)
- **Compliance attesting** company
- **Consultancy & think tank**
- **Data protection & privacy** specialist
- **Designated Entity**
- **Examination** specialist
- **Frequency** specialist
- **Image & data processing**
- **Insurance** companies/specialist
- **Law firms** **legal** expert
- **Manuals & tutorials** (*i.a. operational; user; MRO; spare parts; exploded views*)
- **MRO**-Maintenance, repair & overhaul
- **Notified Body**
- **QEs** - Qualified Entity
- **Remote pilot training**
- **Safety Risk Assessment & Mitigation**
- **Test, demo & training site**
- **Training centre**
- **UAM** - Urban air mobility service provider
- **USSP** - U-space service provider

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PARTICIPANT GROUPS & PRIVILEGES

Group	Sector		Activity
Paying	Industry	Corporate	MAA System Operator Designer / Producer / Integrator Software & Artificial Intelligence Producer Service Supplier Service Provider End Customer of Data Consultant, Specialist & Think Tank Test, Demonstration, Training Centre Education - For Profit Research - For Profit
		Cluster	Technology Cluster - Industry Cluster
	Not-For-Profit		Interest Group / Association / Federation / Foundation Education - Not-For-Profit Research - Not-For-Profit
	Privileges		Have Voting Rights at Participant Assembly Eligible to Board of Directors & Oversight Committee Access to all web site sections Receive all notifications & newsletters Can participate in all Working Groups Can participate in all foundation activities
Non-Paying	Public Entity		European Union Inter-Governmental National Regional MAA System Operator End Customer of Data
	Other Organisations		Standards Development Organisation (National, European, international)
	Privileges		No Voting Rights at Participant Assembly Eligible to Advisory Board Access to all web site sections Receive all notifications & newsletters Can participate in all Working Groups Can participate in all foundation activities

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PARTICIPANT FEES

Paying Participants		
Corporate	Cluster	Not-for-Profit
MAA System Operator Designer / Producer / Integrator Software & AI & Virtual Reality Service Supplier Service Provider End Customer of Data Consultant, Specialist & Think Tank Test, Demonstration, Training Centre Education - For Profit Research - For Profit	Technology Cluster Industry Cluster	Interest Group Association Federation Foundation Education - Not-For-Profit Research - Not-For-Profit Sport & Modelism
Non-Paying - Public Entity		Non-Paying - Other Organisations
European Union Inter-Governmental National Regional MAA System Operator End Customer of Data		Standards Development Organisation - National - European - International

Categories	I	II	III	IV	V	VI	VII	VIII	IX	X	
Corporate <i>(incl. Start-Ups & Scale-Ups)</i>	Limits Annual Turnover or VC Raised & Received in Million €										
Lower	> 0,5	> 1,0	> 2,0	> 3,0	> 5,0	> 10	> 25	> 50	> 100		
Upper	< 0,5	< 1,0	< 2,0	< 3,0	< 5,0	< 10	< 25	< 50	< 100		
Cluster	Category = Combination of Annual Turnover & Venture Capital (VC) Raised & Received by Cluster Members										
Classes	Annual Fees in € - According to Category										
Corporate <i>(incl. Start-Ups & Scale-Ups)</i>	Bronze	300	600	900	1 200	1 250	2 000	2 750	3 700	6 000	8 000
	Silver	400	700	1 000	1 300	1 500	2 250	3 000	4 350	6 800	10 000
	Gold	500	800	1 100	1 400	1 750	2 500	3 500	5 000	7 500	12 000
Cluster	Bronze	300	Silver	400	Gold	500	Participant selects its Class				
Not-For-Profit	Bronze	300	Silver	400	Gold	500	Participant will be identified by its Class (Gold, Silver, Bronze)				

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