

### **Manifesto of Intent**

### **Urban Air Mobility**

SMART MOBILITY in SMART CITIES: WALK. RIDE. DRIVE. FLY. 'How do you want to commute today?'

Demonstrator Project in "Ingolstadt Region"

(City of Ingolstadt in the centre of the metropolitan area of Munich, Nuremberg, Augsburg and Regensburg)

#### 1. CONTEXT

- Enabling efficient and effective mobility in urban areas is a key challenge in a context where traffic
  congestion currently costs more than €100 billion a year in EU and it is expected to be closer to €300
  billion per year by 2030. In addition, expectations from citizens when it comes to mobility are increasing
  and more attention is paid to sustainability, reliability, affordability and efficiency.
- At the same time, technological innovations and new business models offer great potential for new approaches to urban mobility, including Urban Air Mobility.
- The reason behind the Urban Air Mobility (UAM) Initiative is to contribute to bringing urban mobility into the third dimension in Europe the airspace (flying vehicles).
- The UAM Initiative is part of the Marketplace of the EIP-SCC Action Cluster of Sustainable Urban Mobility (SUM).
- The Marketplace brings together cities and regions (incl. Governmental Authorities) with companies, academia and other stakeholders to showcase innovative urban mobility solutions and support their replication at scale in key market segments. The 2017 Helsinki Declaration confirmed the commitment to safe, secure, green drone operations that also respect privacy; and open the EU drones services market by 2019; by working on: (1) Legal requirements for operations, airspace and U-Space services; (2) An effective standard setting process and (3) Further investment in demonstrators and the establishment of a European U-Space Demonstrator Network. The UAM Initiative could contribute to all 3 aspects outlined above, and particularly on developing demonstration projects that are developed in close collaboration with local and/or regional authorities.
- The UAM Initiative will be part of and further mobilise the regional and cross-regional innovation and mobility ecosystems.

#### 2. GOALS ("PROJECT")

The demonstrator project in the "Ingolstadt Region" will be defined and run in the frame of the European Innovation Partnership (EIP) on Smart Cities and Communities (SCC). To this end, the UAM Initiative of the EIP-SCC-SUM:

- Allows pioneering smart cities, regions and companies, particularly SMEs, to join forces in order to
  minimize the timeframe, to optimize the costs and to increase the collaboration between and with cities
  and regions.
- Aims to bring together relevant communities to jointly work on accelerating Urban Air Mobility market uptake, increasing public acceptance, and sharing innovative ideas.



- Aims to match cities across Europe with stakeholders interested in launching practical demonstration studies and activities in committed cities.
- Encourages investors to join and finance this new form of mobility (including inter alia real estate and infrastructure investors).
- Envisages enabling the development of strong interfaces between air mobility and urban planning communities (e.g. for flying vehicles to transport people, drone medical services etc.).
- Anticipates fostering cross-fertilisation of best practice among cities for addressing UAM integration challenges and issues in urban environments. To this end, collaborative schemes and complementarity among cities will be sought after.
- Anticipates reinforcing the regional and cross-regional innovation and mobility ecosystem by pioneering
  mobility solutions featuring air mobility through new innovative technologies, business models,
  infrastructure and innovation culture.
- Anticipates increased focus on standardisation as driver for mobility innovation -by building on the EC
  joint initiative for standardisation (JIS) to contribute towards formalised interoperability and sharing of
  new knowledge, practices across mobility sectors.

#### 3. STAKEHOLDERS

- Airbus, as a global leader in aeronautics, defence, space and related services is the lead of the UAM
  Initiative within the EIP-SCC Action Cluster of Sustainable Urban Mobility. Its main tasks are to coordinate
  the consortium, liaise with the European Commission, organisations like EASA, Eurocontrol and SESAR JU,
  as well as with the managers of the European Innovation Partnership on Smart Cities and Communities
  (e.g. events, progress reporting, networking). In addition, it can make the liaison among cities and
  partners (including in-house Airbus resources) for them to explore partnership opportunities.
- The City of Ingolstadt, has expressed its willingness to set up a demonstration project to address the
  mobility needs of urban and inter-urban mobility in its region. Located in the centre of Bavaria, Ingolstadt
  is Germany's fastest growing city with a population of 140.000 inhabitants. Due to its geographic position
  Ingolstadt covers within an 80-kilometre radius a population of six (6) million people including Munich,
  Nuremberg, Augsburg and Regensburg. Munich Airport is located 50 kilometres south-east of Ingolstadt.
- Ingolstadt and its region are economically prosperous (GDP > 320 billion Eur) and dedicated to mobility with prominent industrial leaders established in the city and its outskirts. Audi has its headquarters in Ingolstadt and is currently expanding in an area of innovative mobility services. Airbus (Defence & Space), located five 5 kilometres south of Ingolstadt, features a testing area for unmanned flight vehicles (UAV). Other leading entities include Bauhaus Luftfahrt (south of Munich) as an internationally renowned aviation think tank, the Technische Hochschule that focuses on study programs and research in mobility as well as the Ingolstadt Start Up Center "Brigk" that is dedicated to digitalisation in mobility applications.
- As an innovation and technology hub Ingolstadt advances its focus on smart mobility services by approaching partnerships with industry, businesses and research institutions. Ingolstadt, the "City of Digital Transfer", is on the way to get Bavaria's Centre in Smart Mobility Services. The City Council of Ingolstadt has announced its decision since February 2018 to position Ingolstadt as a pilot region for new technologies in autonomous and digital mobility and to provide testing areas for testing and exploring those technologies.
- The prosperous growth of Ingolstadt and its metropolitan area is causing massive traffic problems.
   Especially the motorway passing Ingolstadt in the direction to Munich and Nuremberg counts more than 105.000 vehicles per day. The traffic jam in the cities of Ingolstadt, Munich and Nuremberg counts more than 500.000 vehicles per day. Emergency services are often caught up in this situation. It is envisaged



that using the third dimension for urban and inter-urban mobility should contribute to address these ever-increasing problems to the benefit of the population in this regional area. To this end, Ingolstadt intends to explore urban air mobility because of the following three motives: (1) the increased use of new mobility services integrated in public transport; (2) the effective use for ambulance services and the use for public safety.

- To meet the above 'Goals' (Section 2) and related mobility challenges and opportunities in the 'Ingolstadt Region', this Manifesto will be signed by an initial set of organisations (Step 1 of the UAM Initiative; see Section 5, 'Roadmap'), who agree to support the work of the UAM Initiative, initially, during Step 2; this step will require principally allocation of necessary human resources (time & expertise) to participate regularly in project definition and planning meetings and carry out jointly agreed tasks towards the completion of the project proposal. Their names and signatures are listed in the Annex; additional partners such as: public entities, manufacturers, operators, investors, infrastructure providers, insurance companies, realtors, organisations involved in relevant SESAR JU¹ and other projects, are welcome to join.
- When other partners join, this Manifesto will be updated accordingly.

#### 4. PROCESS

The UAM Initiative will steer its activities on smart mobility initiatives by ensuring input from and to, as well as, stimulating the regional and cross-regional innovation ecosystems. Ultimately, the UAM Initiative will fertilise and initiate the development of either local, or regional, or national or international UAM business ecosystems by addressing topics around the following four main, parallel thematic pillars:

- UAM interfaces with public transport → ensure optimized synergies between the available ground transport systems and the Urban Air Mobility solution. For example, this involves evaluating the feasibility to integrate air mobility into existing urban transport systems (service aspects)
- Mobility as a Service → ensure that all modes of transport feature equivalent standards of service quality in terms of, for example, availability, travel comfort and safety as well as insurance and legal coverage.
- Ground infrastructure for UAM → build the necessary infrastructure (physical -e.g. real estate- and digital -e.g. IoT, Comms-) to welcome UAM in public transport networks (dedicated or shared infrastructure with other modes of transportation e.g. charging infrastructure).
- Integration in a single sky operation ⇒ align, at early stage, the technology innovation efforts to ensure
  that the European vision for integrated, single sky operations is realised; at the same time, develop inputs
  for the shaping of new regulatory frameworks, standards and associated economic approaches for
  ATM/UTM (U-Space) in the frame of sustainable urban mobility.

#### 5. ROADMAP

The timeline for the development of demonstration project proposals with cities/regions (incl. 'Ingolstadt Region') as well as for running approved proposals is as follows:

#### Step 1: now up to June 2018:

- 1.1. Reaching out to candidate cities to discuss their mobility needs and willingness to commit in line with the EIP-UAM Initiative objectives.
- 1.2. Signing the *Manifesto of Intent* with a number of Smart Cities and Regions in Europe; selection of cities is based on criteria related to a city's mobility needs and vision as well as its commitment to work for the definition of a demonstration project.

<sup>1</sup> Notably, city and regions that are part of SESAR JU funded project in the 2018 call on demonstrators http://www.sesarju.eu/node/2952



#### Step 2: June-November 2018:

- 2.1. Developing the detailed demonstration project proposals (including deliverables, work packages, partners, advanced methods for mapping and aligning complex stakeholder setups, budget and financing/investment attraction leads,) jointly with each city/region.
- 2.2. Establishing the corresponding business and technical ecosystem by linking local and international stakeholders (e.g. SMEs, Start-ups, DFS (German Aviation Safety Authority), Hamburg Airport etc.).

#### Step 3: June 2018-February 2019:

- 3.1. Involving early in the demonstration project definition, potential funding and investing stakeholders and mechanisms (e.g. EIB, H2020, Juncker Plan).
- 3.2. Seeking the appropriate fast-track access to public and private funding, depending on the resource characteristics and requirements of each city project (e.g. scope and ambition; budget level, stakeholders engaged).
- 3.3. Deciding on the GO-NoGO decision for launching a demonstration project; a city/region-driven decision based on partners' commitment, project attractiveness and financing secured/raised. Two main options for launching a demonstration project:
  - 3.3.1. Option 1: With own resources of the consortium formed.
  - 3.3.2. Option 2: With a mix of own resources and investment/funding secured and raised.
- 3.4. Based on a GO decision, proceed with the framing and signature of a Memorandum of Understanding (MoU) for the demonstration project consortium declaring the commitment from each city, region and partners.

#### Step 4: Q1 2019 (if GO decision):

- 4.1. Launching the realisation of the city/region demonstration project.
- 4.2. Involving and integrating new coming partners.

#### Step 5: Q2-Q4 2019 + Q1 2020:

- 5.1. Organising and executing the actual demonstration projects across cities/regions according to their specific project planning.
- 5.2. Concluding demonstrations by deriving lessons learnt from each city demonstration project and making recommendations for a UAM deployment strategy and roadmap.
- 5.3. Providing a mapping of relevant existing, in-development and needed for the future UAM standards.
- 5.4. Disseminating the achievements of the UAM Initiative and preparing the way forward.

#### 6. MANAGEMENT TEAM FOR 'INGOLSTADT REGION' (EIP-UAM INITIATIVE DEMONSTRATION)

Name	Surname	Organisation	
Renate	PREBLEIN-LEHLE	City of Ingolstadt, Town Councillor	
Robert	FRANK, Dr.	Ingolstadt Municipal Transport Organisation	
Ulrich	REINFRIED	Federal Ministry of Transport and Digital Infrastructure	
Dietmar	SCHNEYER	Bavarian Ministry of Economic Affairs, Energy and Technology	
		Bavarian Ministry of Internal Affairs and Integration	
Ute	SCHINNER-STÖR, Dr.	Bavarian Ministry of Housing, Construction and Transport	
Alexandra	WONISCH	Bavarian Ministry of Science and Art	
Andreas	FREY, Prof. Dr.	Technische Hochschule Ingolstadt	
Gabriele	GIEN, Prof. Dr.	Catholic University of Eichstätt Ingolstadt	
Vassilis	AGOURIDAS	EIP-UAM Initiative Lead (AIRBUS)	



### Manifesto of Intent - 'Ingolstadt Region'

City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

By signing this Manifesto of Intent, we are committed to support the objectives of the UAM Initiative as part of the European Innovation Partnership on Smart Cities and Communities, by engaging in the definition of a UAM demonstration project proposal in 'Ingolstadt Region'. It is acknowledged that there is no binding commitment and consequently no liability for parties in case of failure to define a feasible demonstration project proposal.

It is noted that the execution of the demonstration project will be subject to approval of the submitted project proposal by the formed consortium led by the City of Ingolstadt; the execution agreement among all partners will be part of future framing and signatures through a Memorandum of Understanding (MoU).

Signatories of this Manifesto of Intent are aware that this is a publicly available document in the context for the EIP-SCC-SUM UAM Initiative outreach and dissemination activities.

#### List of initial core supporting authorities and EIP-SCC stakeholders

Munich, Ministry of Economic Affairs, Energy and Technology, 19 <sup>th</sup> June 2018	Signature <sup>2</sup>
Bavarian Ministry of Economic Affairs, Energy and Technology	
Franz PSCHIERER, MdL, Bavarian State Minister	
Bavarian Ministry of Science and Art	
Marion KIECHLE, Prof. Dr. med., Bavarian State Minister	
Bavarian Ministry of Internal Affairs and Integration	
Gerhard ECK, MdL, Bavarian State Secretary	
Bavarian Ministry of Living, Construction and Traffic	
Josef ZELLMEIER, MdL, Bavarian State Secretary	
City of Ingolstadt	
Christian LÖSEL, Dr., Lord Mayor of the City of Ingolstadt	
Landkreis Eichstätt	
Anton KNAPP, District Administrator of the Landkreis Eichstätt	
Landkreis Neuburg-Schrobenhausen	
Roland WEIGERT, District Administrator of the Landkreis Neuburg-Schrobenhausen	
Landkreis Pfaffenhofen an der Ilm	
Martin WOLF, District Administrator of the Landkreis Pfaffenhofen an der Ilm	
Bayerischer Städtetag	
Bernd BUCKENHOFER, Executive Council	

<sup>2.</sup> The digital publicly available version of this Manifesto of Intent does not show the actual signatures which are available only in the original hard copies. This is in accordance with the local personal data protection regulations and the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regards to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (GDPR). Signatories have the rights of access to rectify their data. Please, send your request to the email addresses mentioned below, enclosing a document evidencing your identity, and expressly indicating the right you want to exercise. You may also, for justified reasons, be opposed to the data processing concerning your personal data. Email addresses: <a href="stationablemobility@eu-smartctites.eu">stationablemobility@eu-smartctites.eu</a> and <a href="mailto:vasaultis.agouridas@airbus.com">vasaultis.agouridas@airbus.com</a>



Bundeswehr Technical Centre for Aircraft and Aeronautical Equipment (WTD 61)  Dieter KRÄHER, <i>Director</i>	
Bauhaus Luftfahrt Mirko HORNUNG, Prof. Dr., Executive Director Research and Technology	
German Aerospace Center (DLR)  Pascale Ehrenfreund, Prof. Dr. Chair of the Executive Board	
European Aviation Safety Agency - EASA Patrick KY, Executive Director	
Eurocontrol Phillipe MERLO, Director of Pan-European Civil – Military ATM & Performance	
The Urban Software Institute  Lutz HEUSER, EIP-SCC-SUM Action Cluster Leader	
AIRBUS Vassilis AGOURIDAS, EIP-UAM Initiative Leader	



Berlin, Chancellery 20 <sup>th</sup> June 2018	Signature <sup>3</sup>
Federal Ministry of Transport and Digital Infrastructure Andreas SCHEUER, MdB <i>Minister</i>	
Federal State Minister of Digitalisation Dorothee BAER, MdB	
City of Ingolstadt Christian LOESEL, Dr. Lord Major of the City of Ingolstadt	
AIRBUS Grazia VITTADINI Chief Technology Officer	
AUDI AG Abraham SCHOT Interim Chairman of the Board of Management, Board Member for Sales and Marketing	

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No.	Organisation	Name and Role of the signee	Signature <sup>4</sup>
1	AIRBUS	Eduardo DOMINGUEZ-PUERTA Head of Urban Air Mobility	B-12-10-10-10-10-10-10-10-10-10-10-10-10-10-
2	AirMap	Sebastian BABIARZ  Head of Strategic Business Development	
3	AUDI AG	Bernd MARTENS, Dr.  Member of the Board of Management Procurement	
4	B2M (Urban Software Institute)	Bernhard KEMPEN CEO	
5	Bauhaus Luftfahrt	Kay PLÖTNER, Dr.  Head of Economics and Transport	
6	Bavarian Red Cross	Theo ZELLNER President	
7	Brigk (Digital Start-up Centre)	Franz GLATZ, Dr. CEO	
8	Catholic University of Eichstätt-Ingolstadt	Gabriele GIEN, Prof. Dr.  President	
9	Chamber of Crafts (HWK)	Hartwig von BÜLOW, Dr. Department Manager	
10	Chamber of Industry and Commerce (IHK)	Manfred GÖßL, Dr. Deputy CEO	
11	Eurocontrol	Munish KHURANA Senior Manager, Business Development	
12	European Aviation Safety Agency - EASA	Maria ALGAR RUIZ UTM-SESAR Coordinator, Innovation Cell, Executive Directorate	
13	Fraunhofer Institute for Transportation and Infrastructure Systems IVI, Dresden	Matthias KLINGNER, Prof. Dr. Director	
14	German Aerospace Center (DLR)	Rolf HENKE, Prof.,  Executive Board Member for Aeronautics	
15	House of Knowledge	Magnus HAKVAG CEO	
16	Ingolstadt Municipal Transport Organization	Robert FRANK, Dr. CEO	
<b>17</b> .	involi ·	Mélanie GUITTET Co-Founder, Business Development	
18	Klinikum Ingolstadt	Monika RÖTHER CEO	

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No.	Organisation	Name and Role of the signee	Signature <sup>4</sup>
19	Media-Saturn-Holding GmbH	Martin WILD Chief Digital Officer	
20	Munich Airport	Frank NEUMANN Head of Planning and Masterplan	
21	Quantum Systems	Florian Seibel CEO	
22	Technische Hochschule Ingolstadt	Walter SCHOBER, Prof. Dr. President	
23	Unifly	Jürgen VERSTAEN Chief Business Development Officer, Co-founder	



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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

## **List of Initial Interested Partner signatories**

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	IMA GmbH	Peter BAUSTETTER CEO	
2	BFFT aeromotive GmbH	Ralf RUDOLF CEO	
	more partners to be added	during Step 2 (Section 5, Roadmap, demonstration	project definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	IRMA e.V.	Erust vou der Heide Chairman of Association	
2	IRMA e.V. BEE appliance Gubtl	Felix Aruold CEO	
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mentioner and the last the last	more partners to be added during	g Step 2 (Section 5, Roadmap, demonstration project defi	nition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	DGB Stadtverband Ingolstadt	Bernhard STIEDL Chairman of the Trade Unions DGB Ingolstadt	
2	AIRBUS	Thomas PRETZL  Chairman of the Works Council Airbus Defence and Space Manching  Chairman of the Central Works Council Airbus Defence and Space GmbH	
3	AUDI AG	Peter MOSCH  Chairman of the Works Council AUDI AG Ingolstadt  Chairman of the Central Works AUDI AG	

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Globe UAV GmbH	Jörg BRINKMEYER CEO	
	more partners to be added du	ring Step 2 (Section 5, Roadmap, demonstration	project definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Indra Navia AS	Ingolv BRU  Business Development Manager	
	more partners to be a	dded during Step 2 (Section 5, Roadmap, demonstration	project definition phase)

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## **List of Initial Interested Partner signatories**

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1	Deutsche Bahn AG	Prof. Dr. Sabina JESCHKE  Member of the Management Board for Digitalization and Technology	
	more partners to be added duri	ng Step 2 (Section 5, Roadmap, demonstration project de	finition phase)

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Berlin, Railway Tower, 16 <sup>th</sup> January 2019	Signature <sup>1</sup>
Federal State Minister of Digitalisation Dorothee BAER, MdB Minister	
Deutsche Bahn AG Prof. Dr. Sabina JESCHKE Member of the Management Board for Digitalization and Technology	
City of Ingolstadt Christian LOESEL, Dr. Lord Major of the City of Ingolstadt	

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**Annex** 

### Manifesto of Intent - 'Ingolstadt Region'

City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	MTU Aero Engines AG	Michael SCHREYÖGG  Chief Program Officer	ALTERNATION OF THE VALUE OF THE
	more partners to be added d	uring Step 2 (Section 5, Roadmap, demonstration project de	finition phase)

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	P3 aviation GmbH	Dr. Jan Ivo SPRINGBORN	Section and Mid-Local Cheeses Section and
1		Partner	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	WK IT GmbH	Holger IMHOF	
2		Managing Director	
-		Daniel SEITLE	
	* 1	Managing Director	
	more newtrone to be added a	uring Step 2 (Section 5, Roadmap, demonstration pro	ainst definition where I

<sup>1</sup> 

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	SDT Industrial Technology	Dr. Boris LINSCHITZ Owner & Director	
	more partners to be added durin	g Step 2 (Section 5, Roadmap, demonstration project de	finition phase)

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
3	Rohde & Schwarz International GmbH	Christian Leicher .  President and CEO of Rohde & Schwarz	
2	Lilium GmbH	Dr. Tassilo WANNER  VP Global Public & Regulatory Affairs	
1	bavAlRia e.V.	DiplIng. Peter SCHWARZ  Managing Director	
	more partners to be added duri	ing Step 2 (Section 5, Roadmap, demonstration proj	ect definition phase)

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### Manifesto of Intent - 'Ingolstadt Region'

City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	AES Aerospace Embedded Solutions GmbH	Bernard JURZCYNSKI  CEO  Dr. Andreas KREINER  Director	
2	Autoflug GmbH	Michael PASCHOLD  Key Account Manager Cabin Solutions	
3	Bayern Innovativ	Corinna SATTLER  Head of Marketing	
4.	Cotesa GmbH	Christoph CRUCIGER  Head of UAV – Business	
5	Droniq GmbH	Ralph SCHEPP  Managing Director	
6	EME Elektro-Metali	Markus BERGHAUSEN  Business Unit Manager Mechanics	

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
7	FlyNex GmbH	Christian CABALLERO COO	. ,
8	Fraundorfer Aeronautics AG	Christoph FRAUNDORFER  CEO	
9	Fraunhofer-Gesellschaft	Bernhard SCHMIDT  Corporate Business Development Aerospace and Mobility	
10	Fraunhofer-Institut für Bauphysik IBP	Prof. Dr. Gunnar GRÜN  Deputy Director	
11	IT-SCM GmbH & Co. KG	Helmut WALTER Executive Director	
12	MAI Carbon	Prof. Klaus DRECHSLER  Vorstandssprecher	19 P
13	[ui!] Urban Software Institute GmbH	Markus BACHLEITNER  Director Smart Mobility	
14	VI Forum e. V.	Thomas BAUER  Vorsitzender	
	more partners to be added durin	g Step 2 (Section 5, Roadmap, demonstration project defi	inition phase)



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## Manifesto of Intent - 'Ingolstadt Region'

City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Roland Berger GmbH	Manfred HADER Senior Partner	in the second se
	more partners to be adde	d during Step 2 (Section 5, Roadmap, demonstration proje	ect definition phase)

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	HELICUS	Mikael SHAMIM  Managing Director	
Val. a s	more partners to be added during Step 2 (Section 5, Roadmap, demonstration project definition phase)		

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. inklusive ihres Fraunhofer-Instituts IVI und gegebenenfalls weiterer Fraunhofer-Institute		
	more partners to be added du	ring Step 2 (Section 5, Roadmap, demonstration	project definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	SBB AG	Björn BENDER Leiter Neue Mobilitätsdienstleistungen	
	more partners to be added during Step 2 (Section 5, Roadmap, demonstration project definition phase)		efinition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	HENSOLDT Holding Germany GmbH	Celia PELAZ  Member of the Executive Committee  Spectrum Dominance & Airborne Solutions Division  Ingo AUST  Strategic Business Development	
PROSPECTOR OF THE STATE OF THE	more partners to be added duri	i <b>ng Step 2</b> (Section 5, Roadmap, demonstration project de	finition phase)

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Ernst & Young GmbH Wirtschaftsprüfungsgesellschaft	Frank BURKERT Partner	
	more partners to be added during Step 2 (Section 5, Roadmap, demonstration project definition phase)		

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Peak Technology GmbH	Robert GREINECKER  Head of Sales – Aerospace	
	more partners to be added duri	ing Step 2 (Section 5, Roadmap, demonstration project de	finition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	OKE Group GmbH	DiplIng. Kerstin WESTING  Head of Strategic Development	
	more partners to be added during Step 2 (Section 5, Roadmap, demonstration project definition phase)		

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Skyports Limited	Damian KYSELY Infrastructure Manager	
	more partners to be added durin	finition phase)	

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City of Ingolstadt in the center of the metropolitan area to Munich, Nuremberg, Augsburg, Regensburg

No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Fundación TECNALIA RESEARCH & INNOVATION	Augustin J. SAENZ  Director of Industry & Transport Division	
	more partners to be added durin	ng Step 2 (Section 5, Roadmap, demonstration project o	definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	MVI Group GmbH	Christian HIRSCH Chief Operating Officer Oliver KAUFMANN Head of Bid and Contract Management	
		Tanja WÖRLE  Assistant to Chief Operating Officer	
CONTRACTOR STATE OF THE STATE O	more partners to be added a	luring Step 2 (Section 5, Roadmap, demonstration pro	ject definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Spleenlab GmbH	Tobias RÜDIGER  Managing Director and Head of Operations & Finance	
	more partners to be added durin	ng Step 2 (Section 5, Roadmap, demonstration project de	inition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	Cheil PP:A	Volker SELLE CEO & President DACH// EASTERN EUROPE	
	more partners to be added du	ring Step 2 (Section 5, Roadmap, demonstration proje	ct definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	MUNICH AEROACOUSTICS	Dr.rer.nat. Michael W. BAUER  Managing Director	s
or Paragraphic Annual Control	more partners to be added du	r <b>ing Step 2</b> (Section 5, Roadmap, demonstration pr	roject definition phase)

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No.	Organisation	Name and Role of the signee	Date signed <sup>1</sup>
1	FAIRFLEET GmbH	Dario MANNS  CIO  Florian WAUBKE  CEO	#
_	more partners to be added du	ring Step 2 (Section 5, Roadmap, demonstration project de	finition phase)

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