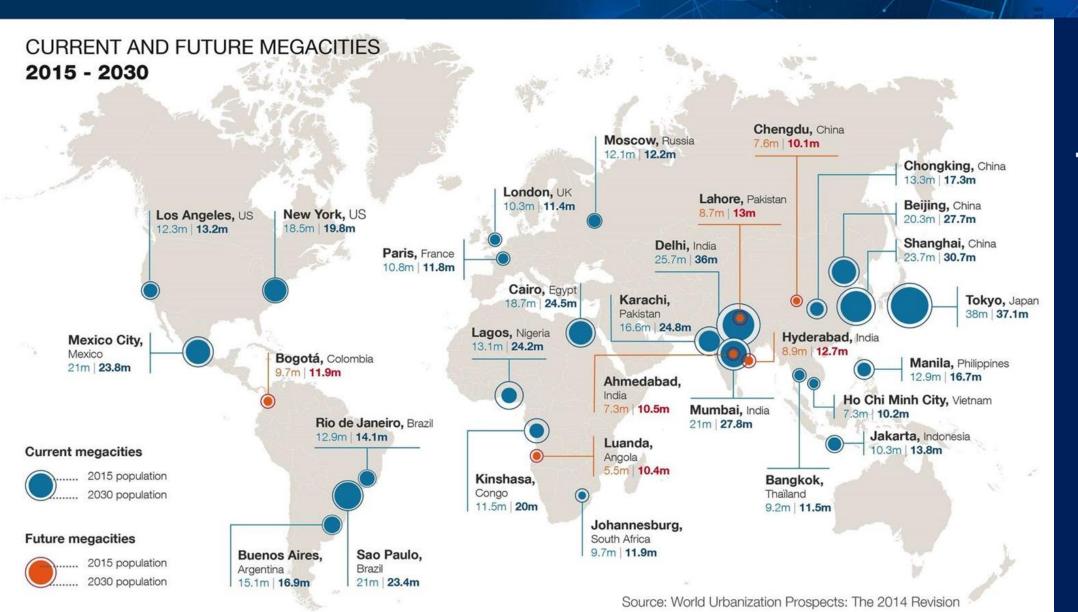
### **Airbus Innovation Days 2019**

## Bringing the Urban Air Mobility Market to Life

Eduardo Dominguez Puerta Head of Airbus Urban Mobility



## Urban migration & megacities are on the rise



By 2030, 5 billion people will live in cities.

# It takes 2 hours from São Paulo airport to city centre by ground versus 10 minutes by helicopter



# The third dimension gives a new perspective on urban mobility

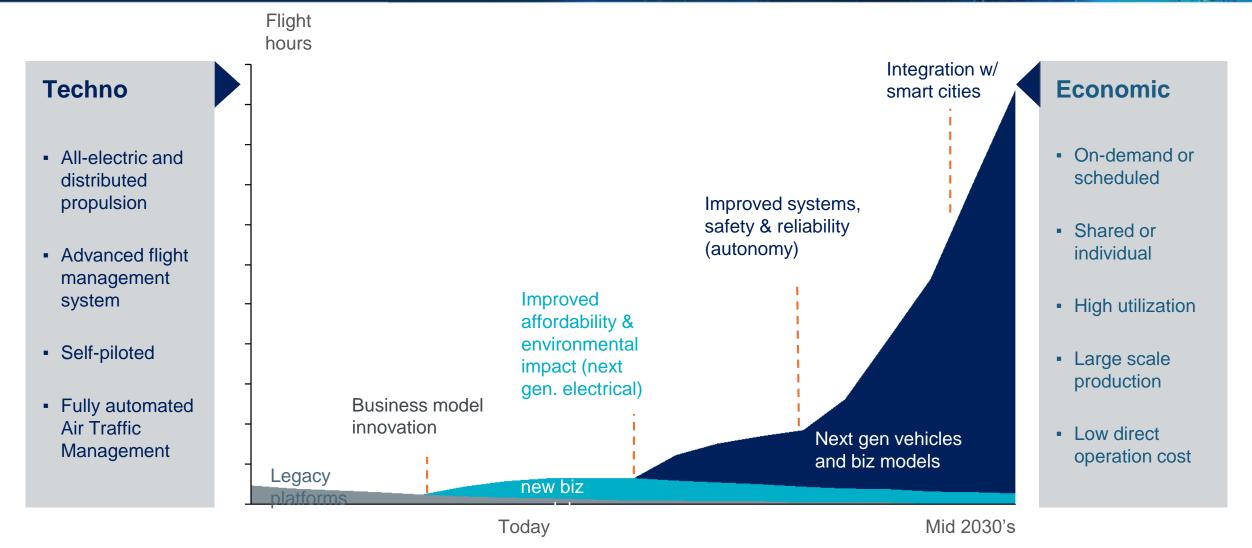


# The case of Japan: rural areas can also benefit from urban air mobility



Through aerial solutions, rural areas could have better access to emergency and disaster relief services.

# Techno-economic evolutions will shift urban air mobility from a premium to mass-market solution



## Creating the market is about the entire value chain



# Strong collaboration with regulators is a prerequisite



#### Proposed Special Condition for small-category VTOL aircraft

#### Introductory note

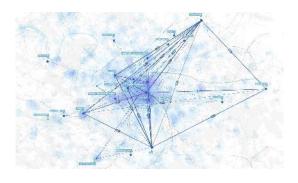
The following Special Condition has been classified as an important Special Condition and as such shall be subject to public consultation, in accordance with EASA Management Board decision 12/2007 dated 11 September 2007, Article 3 (2.) of which states:

"2. Deviations from the applicable airworthiness codes, environmental protection certification specifications and/or acceptable means of compliance with Part 21, as well as important special conditions and equivalent safety findings, shall be submitted to the panel of experts and be subject to a public consultation of at least 3 weeks, except if they have been previously agreed and published in the Official Publication of the Agency. The final decision shall be published in the Official Publication of the Agency."



# Airbus has a comprehensive portfolio of existing capabilities

#### **Airbus Urban Mobility**



City mobility planning and simulation



Airspace design & analysis consultancy, and ATM-UTM <sup>9</sup> services with NavBlue



UAM infrastructure catalogue and solutions



Voom B2C platform or full operation

#### Airbus existing vehicles (Helicopters)

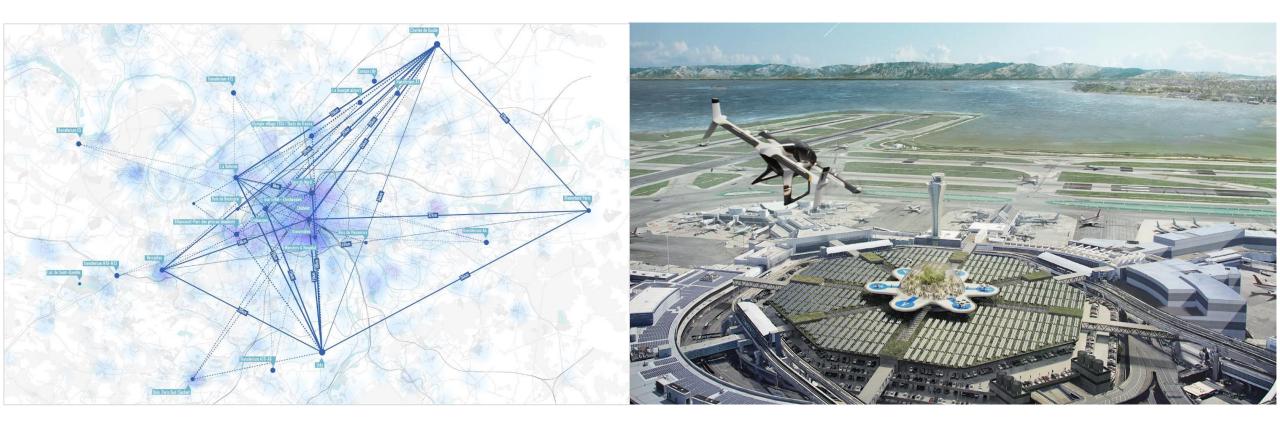


#### Airbus future vehicles (eVTOLs)





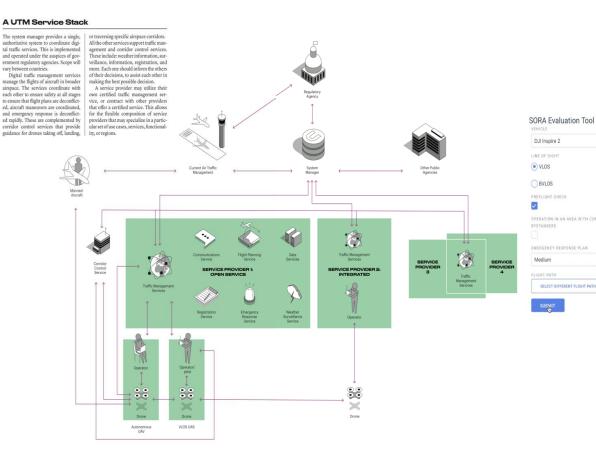
# We are developing mobility simulation capabilities for cities to provide infrastructure guidance





# Airbus unmanned traffic management (UTM) is architecting our future airspace







Flight Segment	Initial GRC	Final GRC	ARC	SAIL	Quant. Air Encounter Prob	Atypical
6	1	1	ARC-b	Ш	Minimal Data	True
7	4	4	ARC-d	VI	3.24 x 10 <sup>-5</sup>	False
8	4	4	ARC-d	VI	7.30 x 10 <sup>-4</sup>	False
9	1	1	ARC-b	н	8.41 x 10 <sup>-5</sup>	False
10	1	1	ARC-b	11	Minimal Data	True

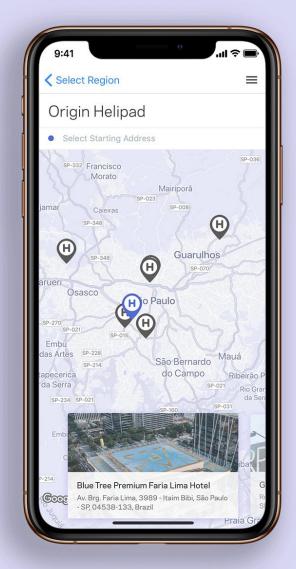


# Voom is providing urban air mobility today



## Travelers connect to the Voom platform via an app







## Partnerships and alliances help acquire customers



# We are transforming the learnings of two tech demonstrators into a market-ready vehicle



### Vahana

April 2019: Third Full Transition Flight

# We are transforming the learnings of two tech demonstrators into a market-ready vehicle



### CityAirbus

April 2019: First "hop"

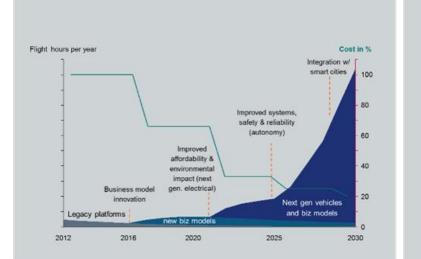
# We are transforming the learnings of two tech demonstrators into a market-ready vehicle



### Pop.Up

A concept vehicle to explore multimodality in urban settings

## An integrated approach is required to bring UAM to life



A strong market need

#### Technology



Manageable projects

#### An ecosystem approach engaging with partners and authorities early on





# Let's go vertical

