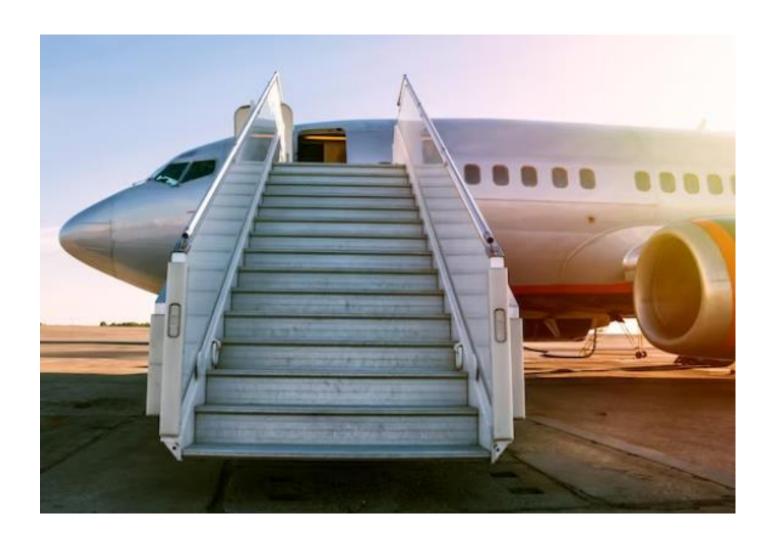




URBAN AIR MOBILITY LAW

Diego R. Gonzalez
Aeropuertos Argentina 2000 SA
30, June, 2023





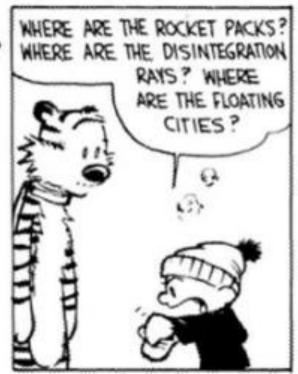
WHERE ARE THE FLYING CARS?

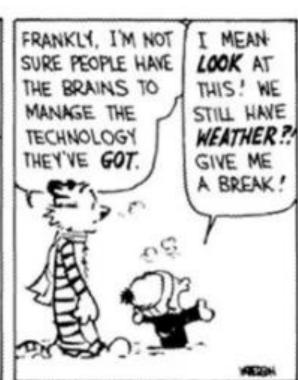
A new decade.



WHERE ARE THE FLYING CARS?
WHERE ARE THE MOON COLONIES?
WHERE ARE THE PERSONAL
ROBOTS AND THE ZERO GRAVITY
BOOTS, HUH? YOU CALL THIS A
NEW DECADE?! YOU CALL THIS
THE FUTURE?? HA!







DECEMBER 28, 29, 30, 1989



∀ VOLOCOPTER

Groupe ADP & Volocopter at Forefront of Electric Urban Air Mobility: A World First in Summer 2024

JUNE 20, 2023

SHARE











"Reimagining human connection"

"Reimagine how we live and spend time"

"Taking **urban** transport into the sky"

"Piloted at launch but ready for autonomous operations"

"Designed for **Daily** Life"

"Faster, Cleaner, and Smarter way to carry people"

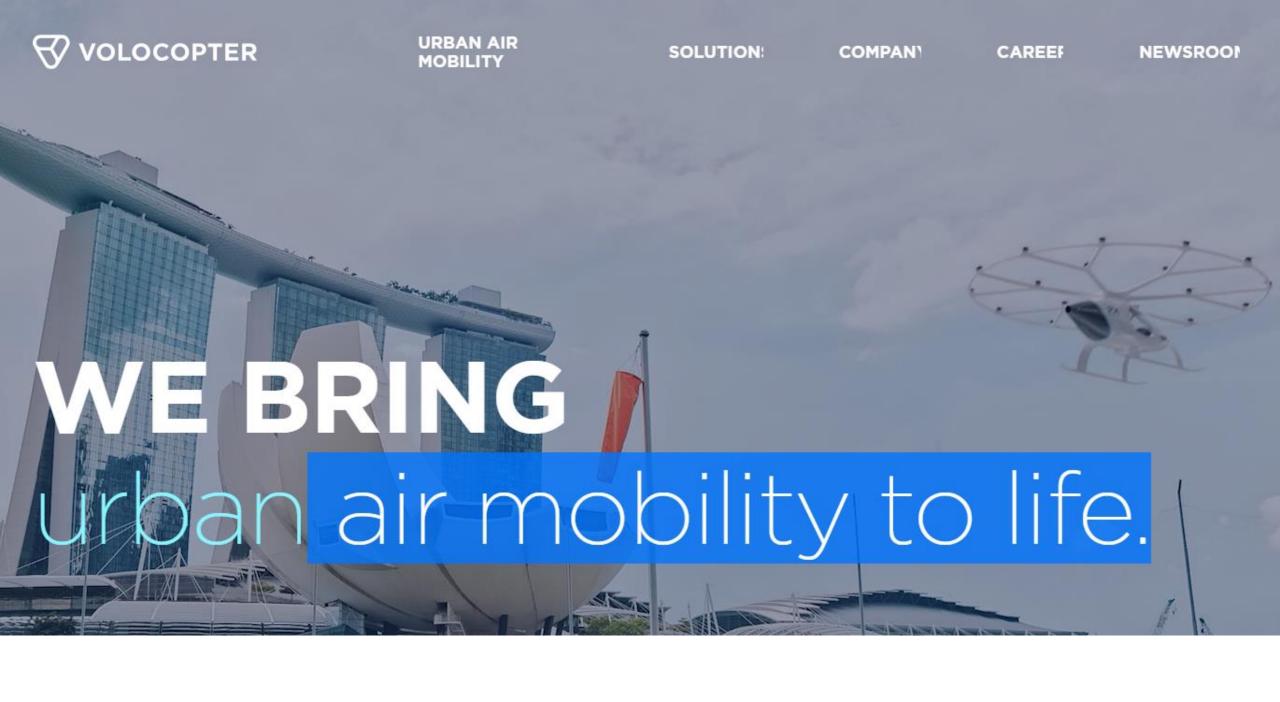
"Aircraft that will be quiet enough to land in your neighborhood"

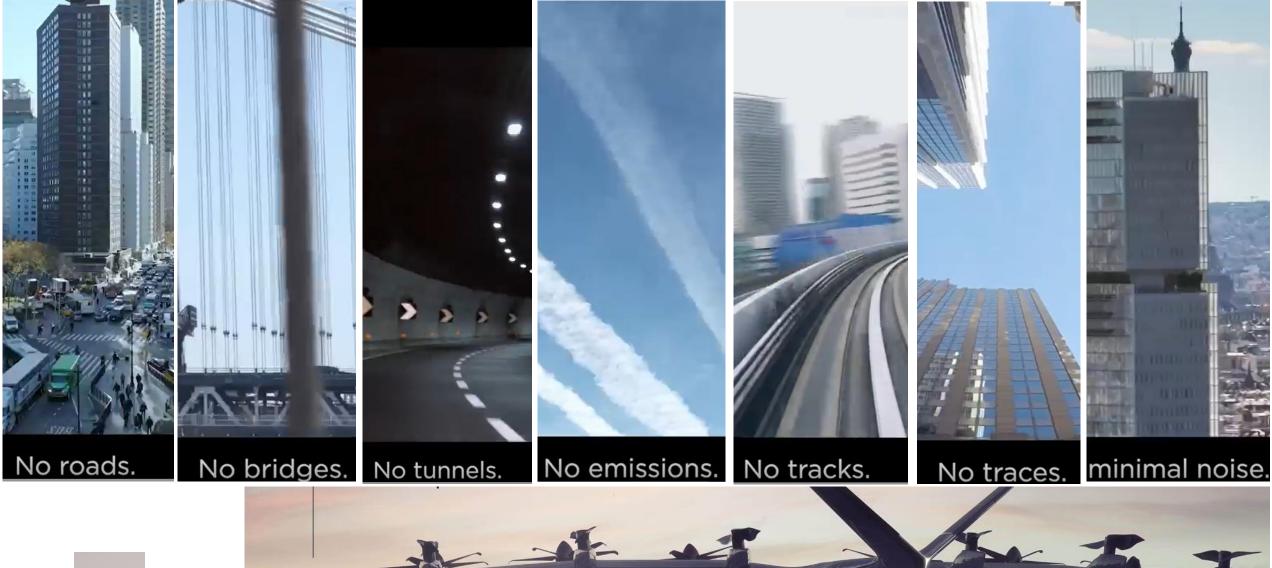
"Effective way to relieve the current traffic congestion"

"People first"

"It is a **lifestyle**, a way of travel; the future is now"

THE PROMISES OF THE NEW INDUSTRY









ABOUT US

WE WERE BORN TO FL

Reimagining
human
connection by
creating safe,
sustainable and
accessible
mobility
experiences

For us, mobility is not just about routes, solutions or infrastructure. It's about people. We think of mobility as the key to making life more fluid and cities more friendly. We can reduce distances and improve the quality of time for everyone. All of this in a practical, accessible, and smart way.

EVTOL

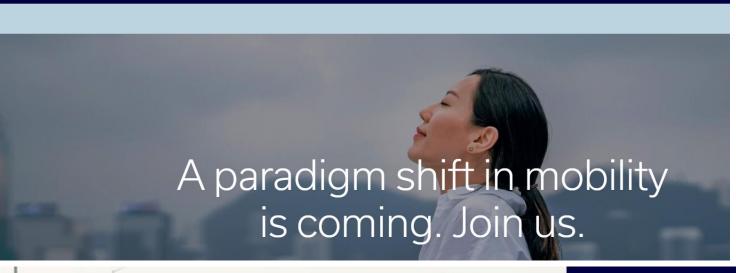
HUMAN-CENTRIC DESIGN



Our eVTOL is 100% electric and its human-centric design ensures the safety, accessibility and comfort of both passengers and the community by minimizing noise. It will be piloted at launch but ready for autonomous operations in the future.









THE TRANSFORMATION STRATEGY

Supernal integrates with existing transit. Seamlessly.











Electric Aerial

Designed for Daily Life



We all want to spend less time traveling and more time living. At Joby Aviation, we're making that possible with our pioneering electric aircraft. It's a faster, cleaner, and smarter way to carry people through their lives.

Quiet as a Conversation

From the beginning, we knew our aircraft had to fade into the background of life. Our expert team of engineers has dedicated years to delivering an aircraft that will be quiet enough to land in your neighborhood. Listen here.

OUR MISSION

Taking the lead in the once-in-a-century mobility revolution

EVOLUTION OF THE SKYDRIVE FLYING CAR



SD-03
Demonstration flight successfully completed in 2020

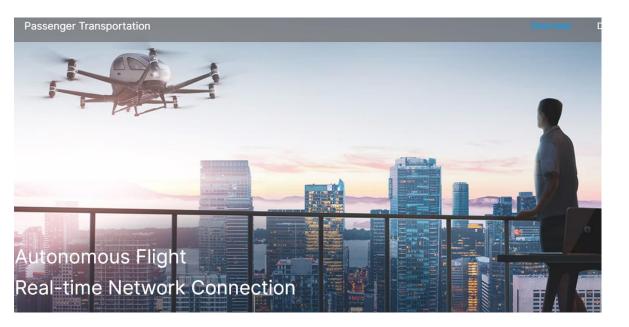
Scheduled to be debuted in 2025

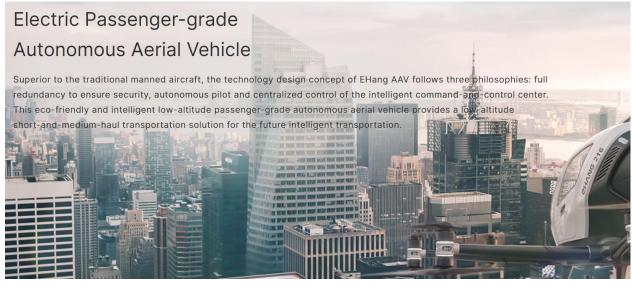
SKYDRIVE

SD-XX Concept model



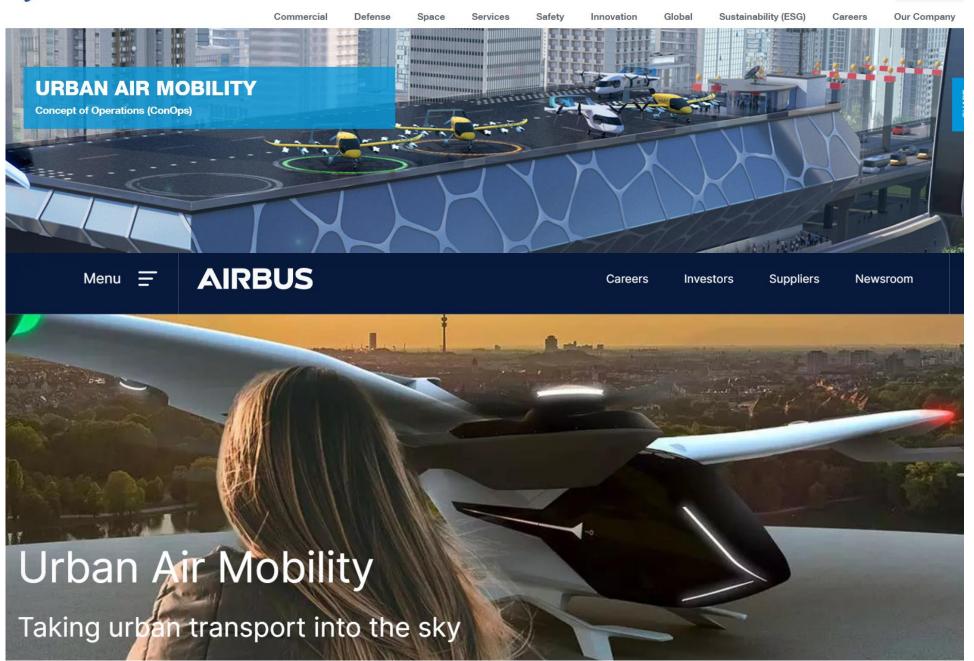
SHANG IZAT















The beginning

cases of use

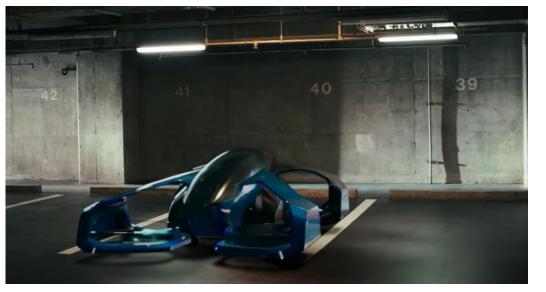
- Airport Shuttle
- Emergency
- Cargo
- Tourism

SkyDrive is certainly one of the leaders out of Japan for UAM. That said, the manufacturing of air ... ver más

Ver traducción



Japanese eVTOL developer harnesses Suzuki production faci...







THE NEXT STEP

door-to-door air mobility



how to think about Urban Air Mobility Law?



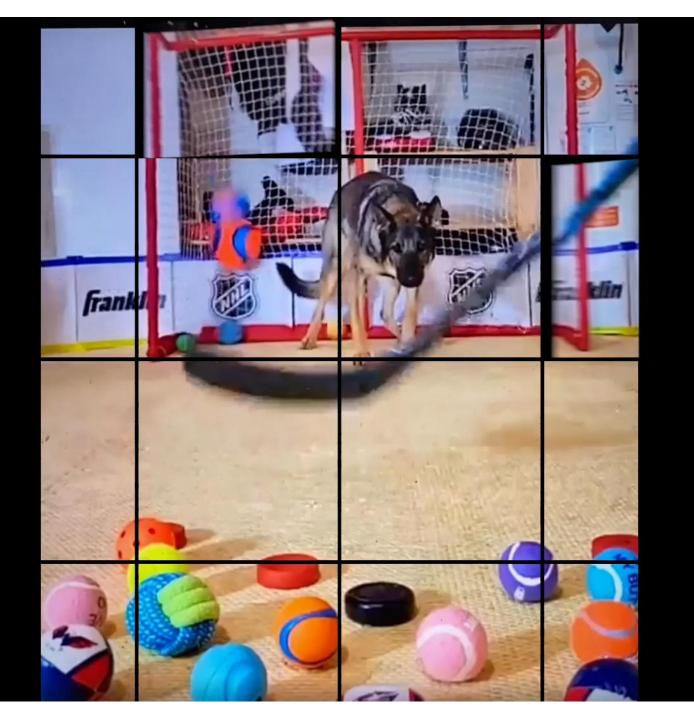






- To look beyond the law and rules ... around them ... through them.
- > answer the questions we don't even know how to ask.
- To think about public policy and laws that do not yet exist

how to think about Urban Air Mobility Law?



"Keeping the focus on what is relevant is the most effective way to achieve concrete goals, no matter how confusing the scenario may be"

Marc Vidal

Fuente: National Hockey League (NHL)

Recupera posts: https://lnkd.in/eRaAyMHE

Bruno Latour

CLIMATE CHANGE

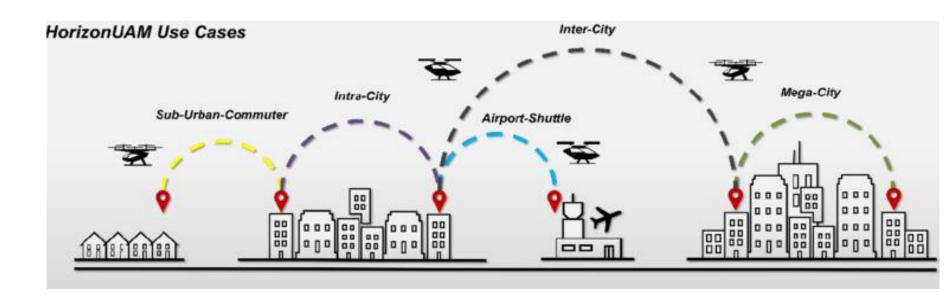
IS RELEVANT





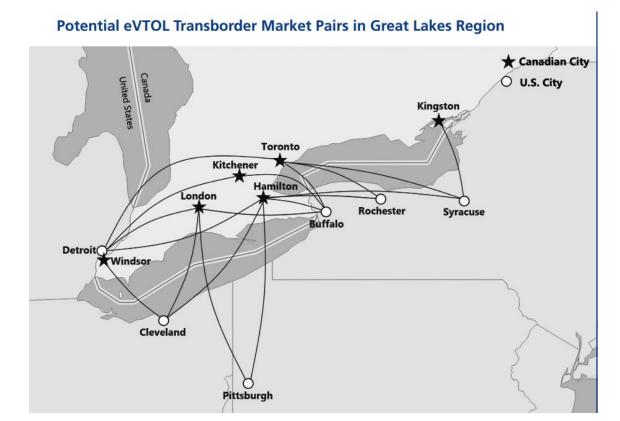


La Découverte



CITIES ARE RELEVANT









PEOPLE

ARE RELEVANT



how to think about Urban Air Mobility Law?



PREMISE 1 "we are already in the moon"

PREMISE 2 "Urban Air Mobility has NO precedent"

Climate Change

New Technologies 4.0

New Role of the City

New Rights & Duties

New Impacts on Local Jurisdiction



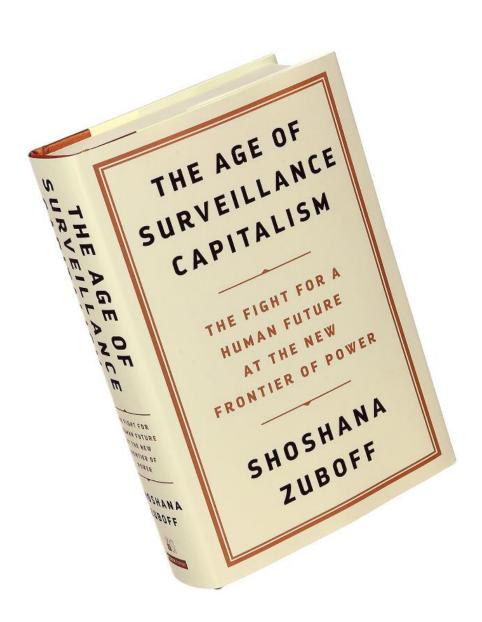
The basis of the new urban air mobility (UAM) is more typical - although not exclusive - of the evolution of the **CITY-AUTOMOBILE symbiosis** than of the technological evolution of CIVIL AVIATION.







TO THINK URBAN AIR MOBILITY LAW AS SOMETHING *UNPRECEDENT*



THE UNPRECEDENT

- 1. There is a natural tendency to analyze it according to the categories or prisms with which we are familiar and,
- 2. It is not a **mere prolongation** of the past.



Horseless Carriage Syndrome



This **car** was one of the first to be designed for use with an engine.
Still, it looks very much like a **carriage!**Carriages were what everyone knew.

It took some time for the **engineers** to get to know what kind of design works best with a motorized car.

And for **business** people to think of new uses for the car.

Horseless Carriage Syndrome



New technologies start out by mimicking the old stuff.

This is not necessarily a problem: it's easier for people to understand a thing when it looks like something they're familiar with.

But after a while, this can become limiting.

5th Ave New York City, April 15, 1900

1900: Where is THE CAR?

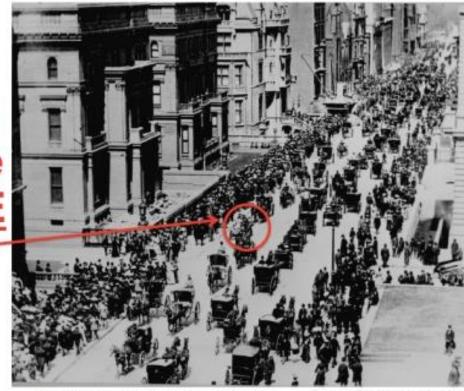
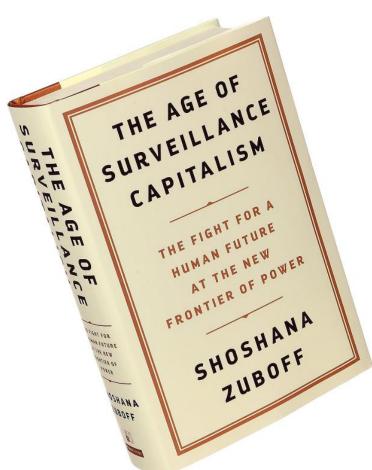


Photo: Fifth Ave NYC on Easter Morning 1900 Leading Market Disruption-Copyright © 2001-2014 by Tony Seba

Source: US National Archives from (Wikipedia)



it is necessary to AVOID the "horseless carriage syndrome"



- The AUTOMOBILE is not a horseless carriage
- The creation of the car required interpreting and analysing its use under NEW categories, NEW concepts, different from the horse-drawn carriage, and therefore, NEW legislation.





William P. Eno
History of Traffic | Comedy Traffic School .com

When cars became popular, **local governments** established **traffic laws** to limit collisions with horse-drawn wagons and ensure safety.

It did not take cars long to clog the streets and **cities to begin setting** speed limits, installing traffic lights, designing one-way streets and adding parking meters. Yet, it did take drivers longer to start obeying these laws.

The book "Rules of the Road" was written by William P. Eno in 1903.

Eno, "the father of traffic safety," introduced many **road regulations**, such as the need for slow traffic to remain to the right and cars to pass only on the left, as well as one-way streets, crosswalks for pedestrians, stop signs and safety islands.

He believed that **stoplights** would never work and **police would always be necessary** at intersections.

platypus (Ornithorhynchus anatinus)

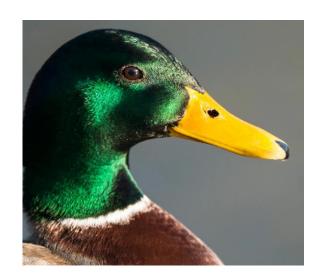


It is a **mammal**, but ...it **lays eggs** and exhibits **aquatic** habits

it has the tail of a beaver and the feet of an otter, but... it has the beak of a duck;







The eVTOL





It flies, like an aircraft, but...more like a helicopter



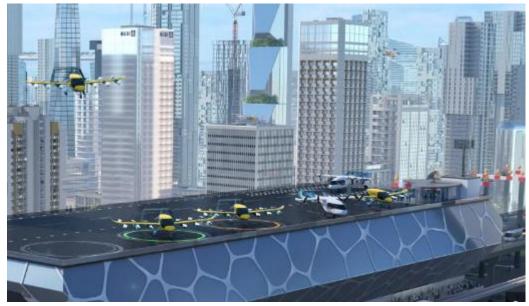




It has an **engine**but it is **electric**, **silent** and **cero CO2 emissions**

it flies like an aircraft but to cover destinations instead of cars

The Vertiport





is infrastructure similar to Heliport although not dedicated to landing Aircraft

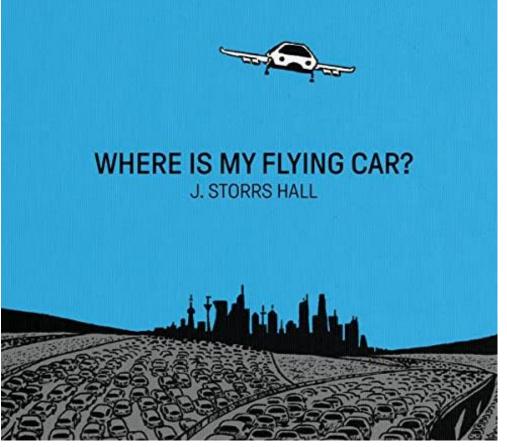
eVTOLs land there, but Air Taxis or Flight Machines are not helicopters.

Is not necessary be operated by an airport operator

It could be used by people who may not be air transport passengers



to look around the aviation law, through it



The AUTOMOBILE was not a horseless carriage 1903

From a legal Perspective

1) Is eVTOL an AIRCRAFT in 2023?

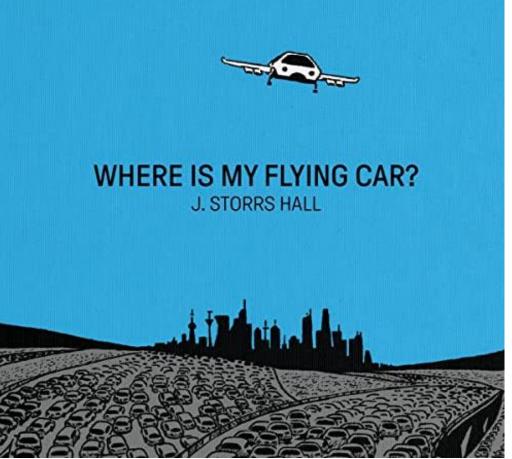




2) could it be an obstacle to the UAM?



to look around the aviation law, through it

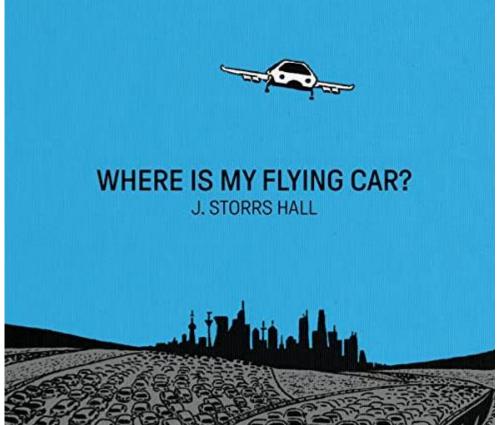


Constitutional Principles

- SOVEREIGNTY
- FEDERALISM



to look around the aviation law, through it

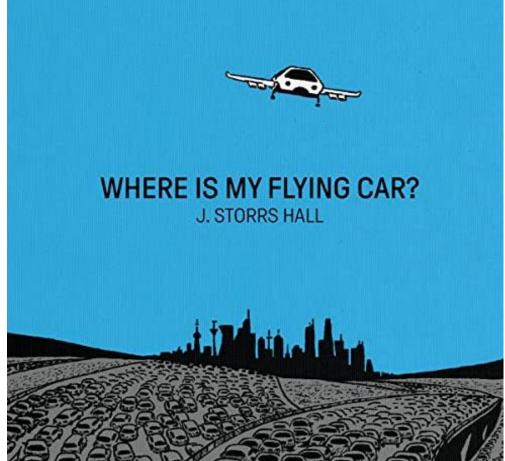


Public International Air Law...it is applicable?

- CHICAGO CONVENTION 1944
- Bilateral Air Services Agreements (traffic rights)
- The Convention on International
 Interests in Mobile Equipment and Protocol on
 Matters Specific to Aircraft Equipment (2001)
- The Montreal Convention 1999



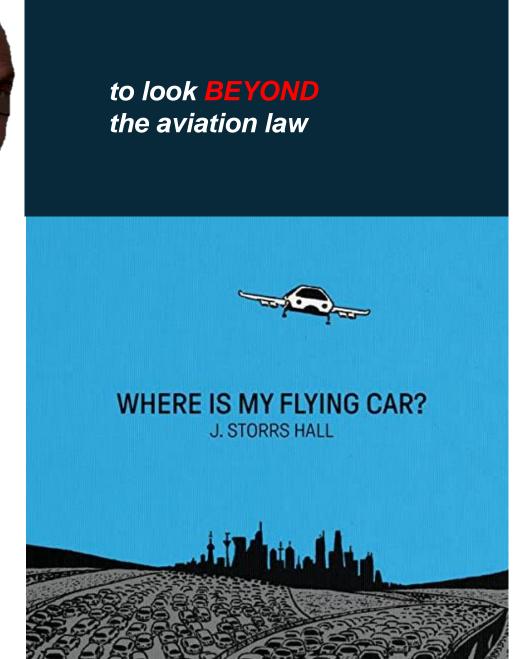
to look around the aviation law, through it



AIR LAW... it is applicable?

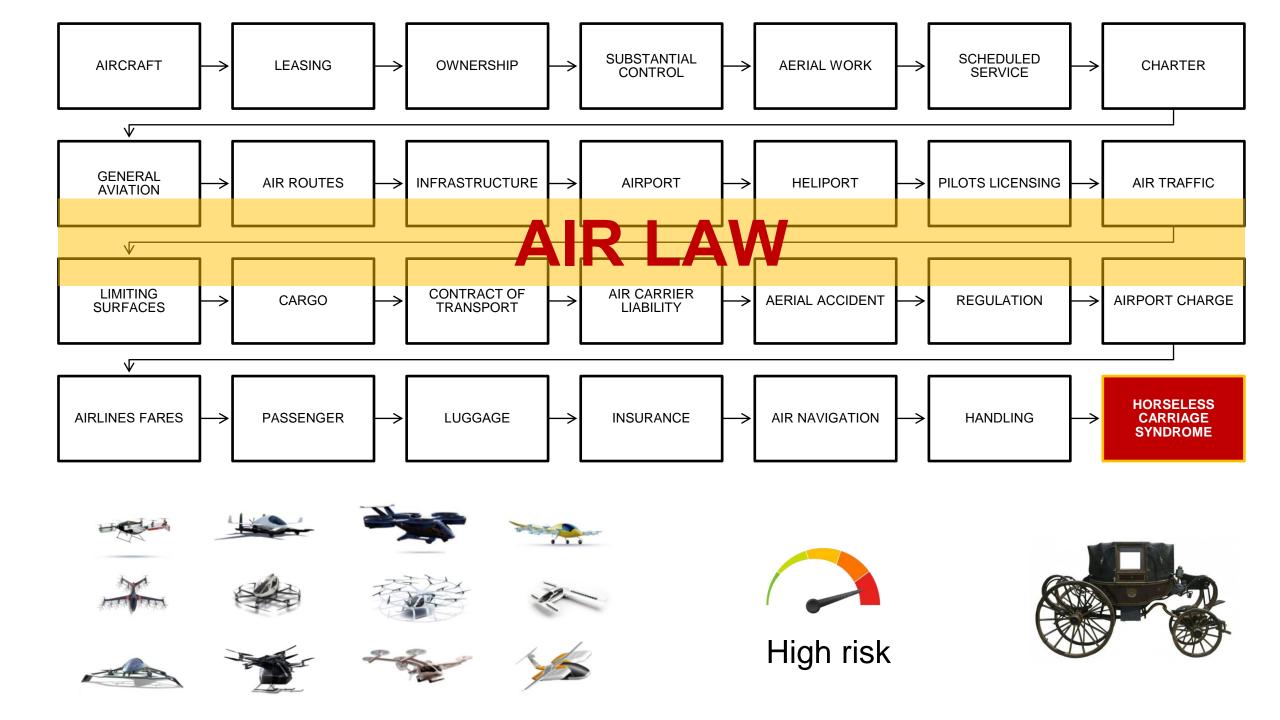
- Aviation Policy
- Air Transport Contracto
- Passenger Right
- Air Navigation Services
- Aeronautical Infraestructure
- Airports as Monopolies
- Dominant Carrier
- Public Utility
- Privatisation
- Consumer Protection
- Environmental Legislation
- Security
- Insurance



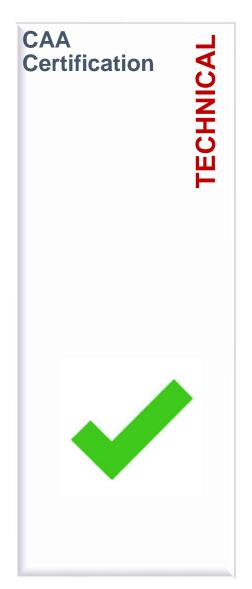


Local / Municipal Jurisdiction

- Transfer original competences from the CAA or ANSP to local authority or a private company
- NEW Specific competences, rules, law principles according to Urban Air Mobility DNA



In conclusion (1): a *new acceptance* is needed









In conclusión (2): UAM as a Body of Law

it is necessary to know, which rules should be

Discarded

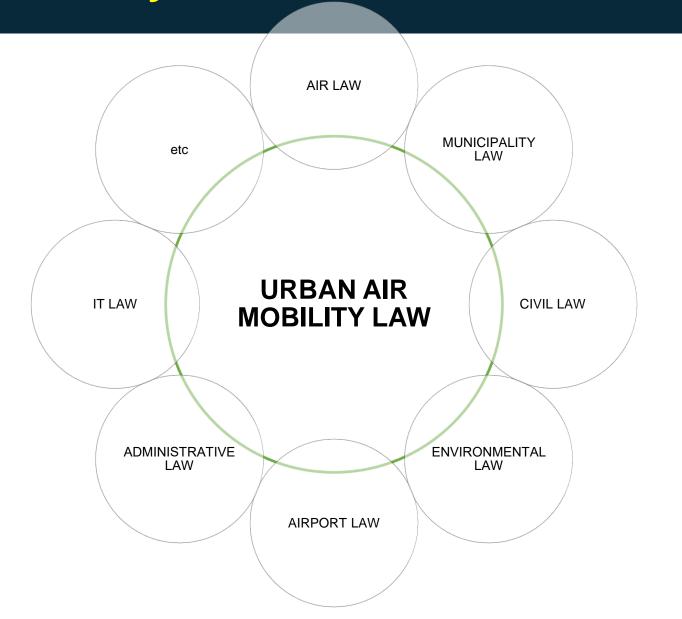


Adapted



Created





In conclusion (3): pillars of URBAN AIR MOBILITY LAW

New Life-style

Collapsing Cities

Climate Change

PEOPLE

CITIES

ENVIRONMENT

URBAN AIR MOBILITY LAW



"...I AM ALREDY THERE, ARE YOU?"





THANK YOU FOR YOUR ATTENTION