

Fully Automated Electric Vertical Lift: A Renaissance in Transportation

Brief History

- 1493 Leonardo da Vinci sketched concept design
- First working inventions in the early 1900s
- Novel technology brings changes to society
- Lack of public acceptance hampers the industry



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Tangible Benefits to Society

- Saves Time
- Increases Safety
- Improves Accessibility
- Direct to Destination
- Remove Operator Error
- Benefit More People



Fully Automated Electric Vertical Lift: A Renaissance in Transportation



Source: <https://www.macleans.ca/culture/books/how-the-elevator-changed-everything-2/>



A Renaissance in Transportation

Brief History

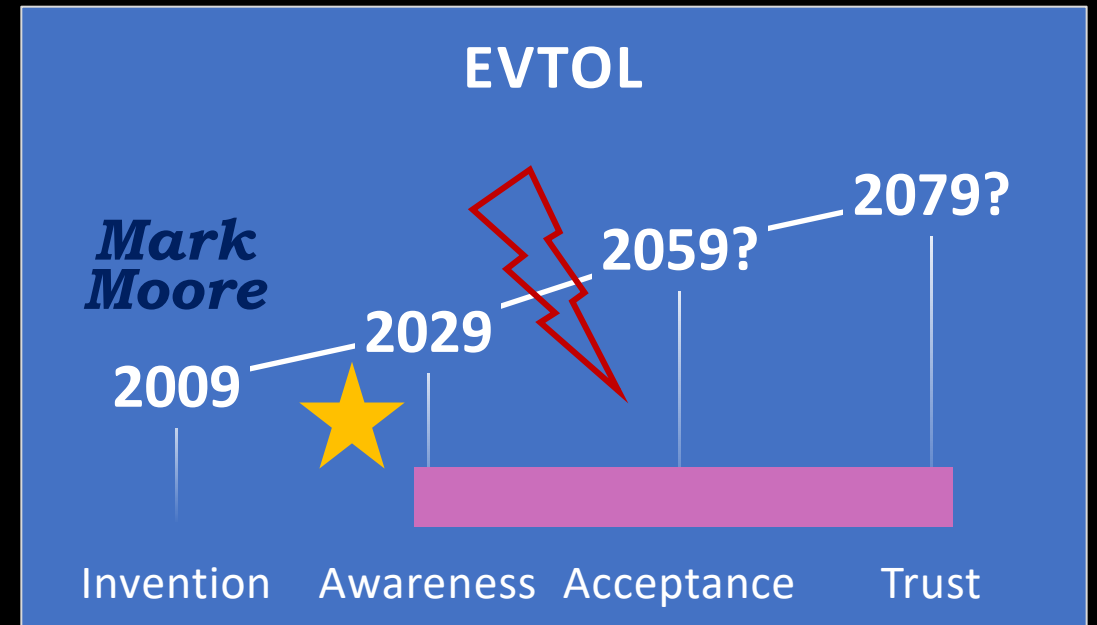
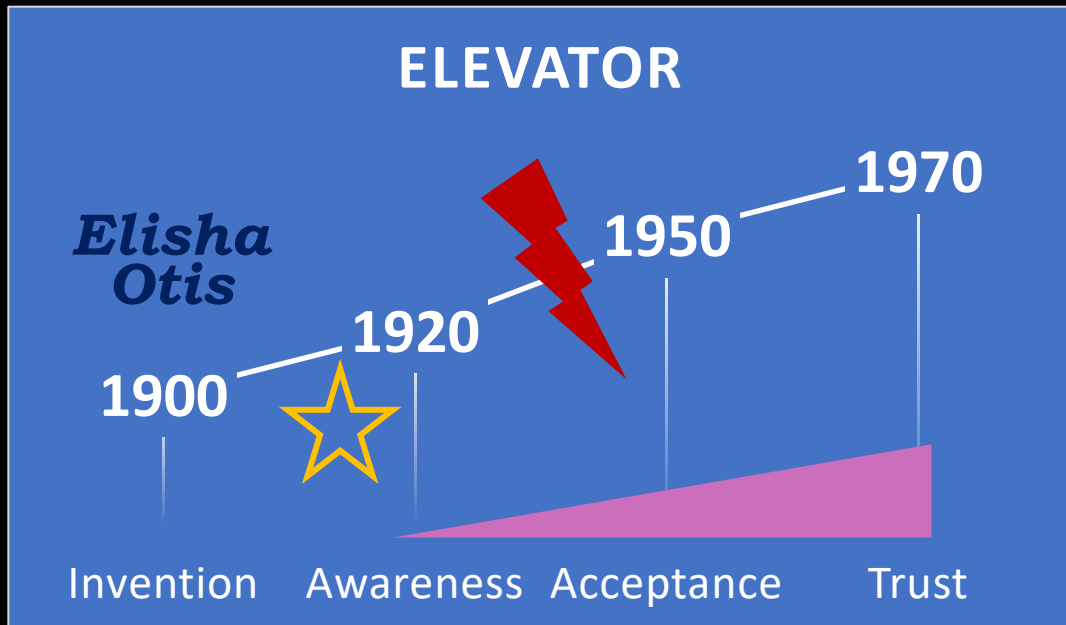
- 1493 Leonardo da Vinci sketched concept design
- First working inventions in the early 1900s
- 1920s building janitors still lived in penthouse
- Novel technology brings changes to society
- 1945 Elevator Operators on Strike in NYC (15k)
- Lack of public acceptance hampers the industry
- Estimated \$100M economic loss to the City

Elevator Operators are Human too



Source: <https://www.nytimes.com/2017/12/15/nyregion/manual-elevators-operators.html>

Technology Adoption Parallels



Fully Automated Electric Vertical Lift:
A Potential Roadmap for eVTOLs



eVTOL Operators are Human too

- Phase I: Pilot On Board
- Phase II: Off Board
- Treat eVTOL Pilots with Dignity and help upskill to new jobs
- **Avoid the Strike!** (2054)
- Phase III: Fully Autonomous eVTOL Operations



Source: <https://www.flyingmag.com/beta-technologies-an-evtol-developer-thats-all-about-flying/>



Effective Public Acceptance Efforts



- Soothing Music
- Calm Safety Briefing
- Security Camera
- Emergency Phone
- Emergency Button
- **Ads with all ages comfortably using autonomous elevators**

Source: <https://drloihjournal.blogspot.com/2019/05/the-elevator-girls-at-marshall-field-company-1947.html>



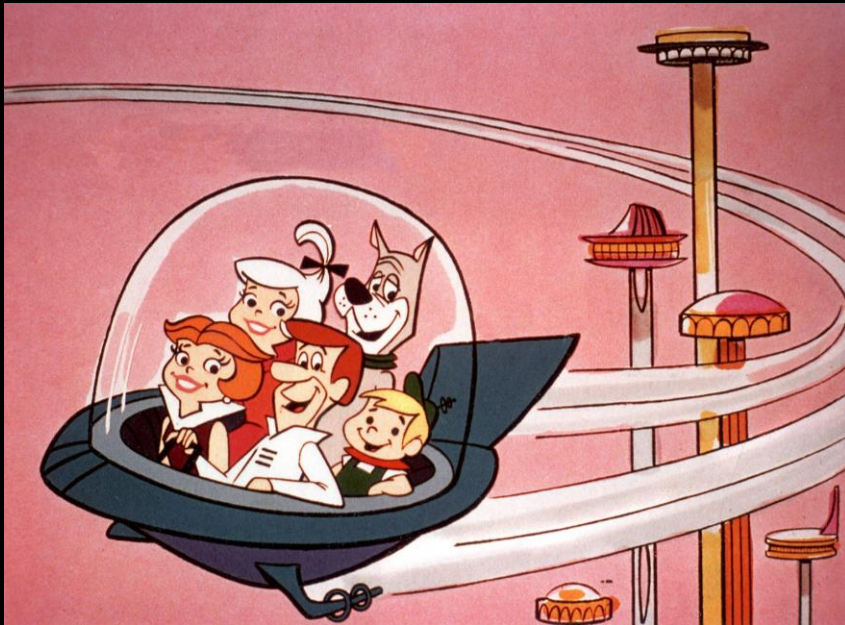
More like Willy Wonka, less like the Jetsons



Source: <https://verticalmag.com/news/introducing-wisks-6th-generation-autonomous-evtol-aircraft-mock-up/>



More like Willy Wonka, less like the Jetsons



Source: <https://jetson.com/jetson-one>



An Elevator can only go up and down.



Source: <https://www.nytimes.com/2023/12/15/movies/wonka-oompa-loompa-hugh-grant.html>



But the Wonkavator, it can go...

Sideways



Slantways



Longways



Backways



Squareways



Frontways



And any other ways
you can think of...



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AAM for Human Rights

UDHR Article 13:

Everyone has the right to **freedom of movement**.

UDHR Article 27:

Everyone has the right to **share in the benefits of our collective scientific achievements**.

Advanced Air Mobility is truly one of our most exciting achievements as a society.



Let's share the benefits!



ICAO AAM Symposium Day 3 Opening Keynote

Dan Sloat, JD/MBA MRAeS
Founder & President
Advanced Air Mobility Institute



AAM 2024
ICAO'S FIRST ADVANCED
AIR MOBILITY SYMPOSIUM

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