

MIYA
eVTOL UAS platform



VZLU eVTOL MiYa

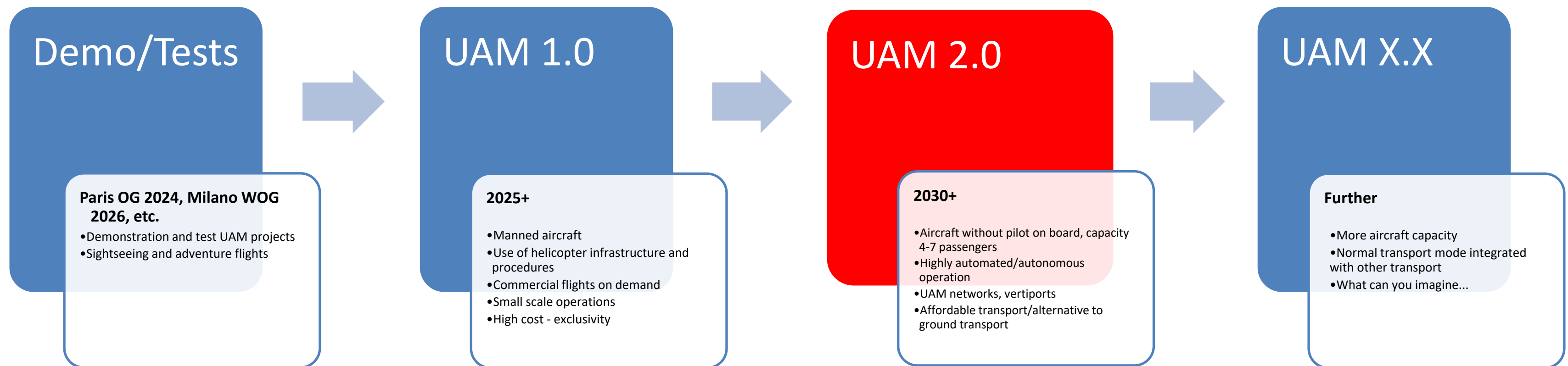


MINISTERSTVO
PRŮMYSLU A OBCHODU



VÝZKUMNÝ
A ZKUŠEBNÍ
LETECKÝ
ÚSTAV


MiYa aims to high tempo, standardized and affordable UAM transport by the middle of the next decade = UAM 2.0

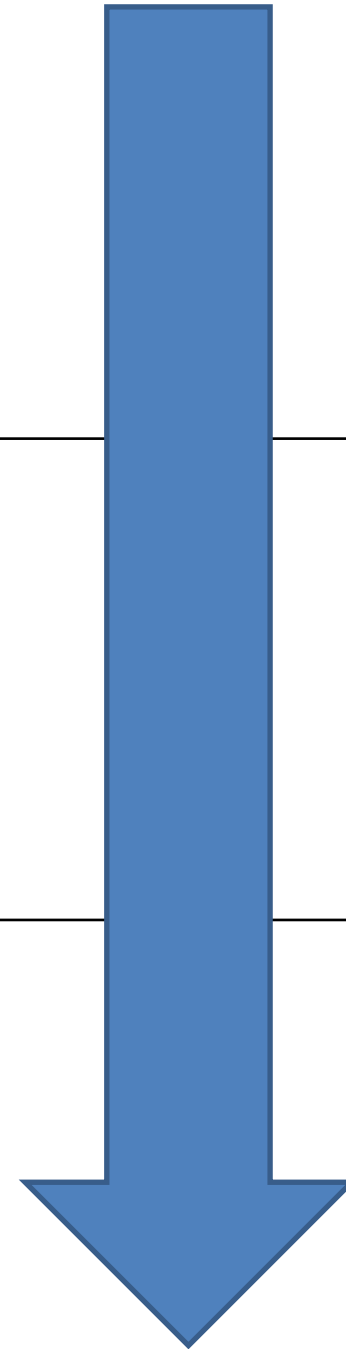


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FLY TAXI.CITY
HUB PRAHA HLAVAK

<p>MiYa Military Cargo</p> <p>First flight 2029 Entry in service 2031</p>		<p>Logistic Transport Humanitarian Missions Emergency Medevac</p>
<p>MiYa Civil Cargo</p> <p>First flight 2031 Entry in service 2034</p>		<p>Fast Logistic Transport Organs transport Medevac</p>
<p>MiYa Civil PAX (UAM)</p> <p>First flight 2031 Entry in service 2035</p>		<p>UAM PAX transport</p>



VZLU: Validated concept design ready to move to regular industry development in late 2024!



MiYa Military main features

- Full VTOL capability
- Tilt wing
- DEP
- **No combat losses of crews!**
- Low noise/RCS/thermal footprint
- Mission optimized design (Tactical Transport, Humanitarian Missions, Emergency Medevac)
- Fast response, Flexible operations, Low Operating and Support (O&S) Costs
- Roomy and well accessible cabin (NATO container)
- Open door in flight up to 80 km/h
- Action radius 200 km

MiYa Civil PAX version

- Inter/Intra City UAM
- No pilot on board – fully automatic/autonomous A/C integrated with UAM 2.0 system (vertiports, UTM, etc.)
- 4 PAX - comfortable cabin, easy entry/exit
- Cruise speed 300 km/h
- Max. range 300 km - typical journey 30-200 km
- Low noise
- Zero CO emission (hybrid electric power system - H2 fuel cells)



Dimension and weight

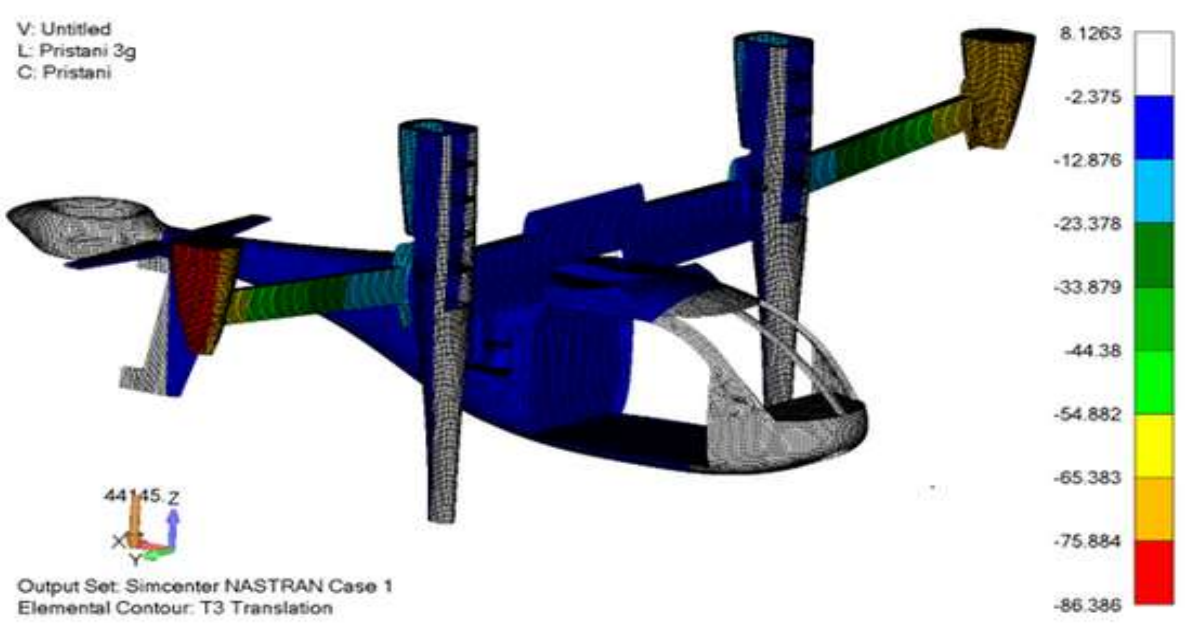
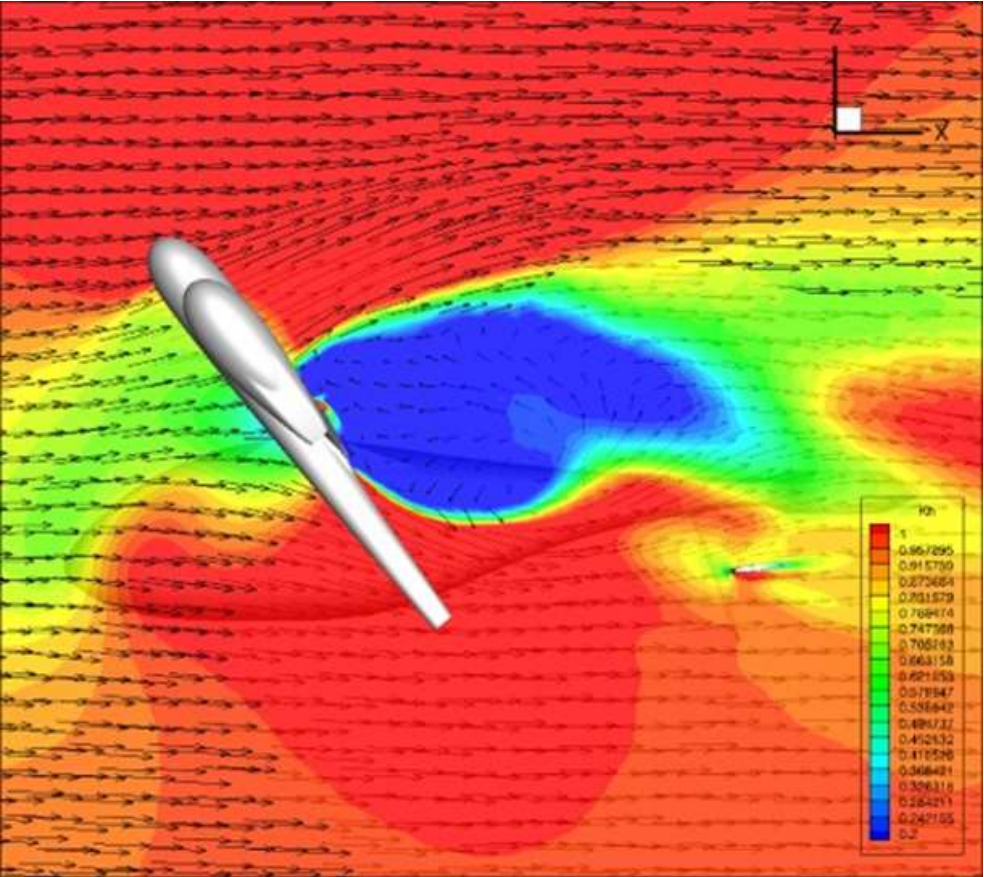
Span	15 m
Lenght	8,52 m
Height (standing on the ground)	4,88 m

Maximum take-off weight (MTOW)	2900 kg
Payload	400 kg

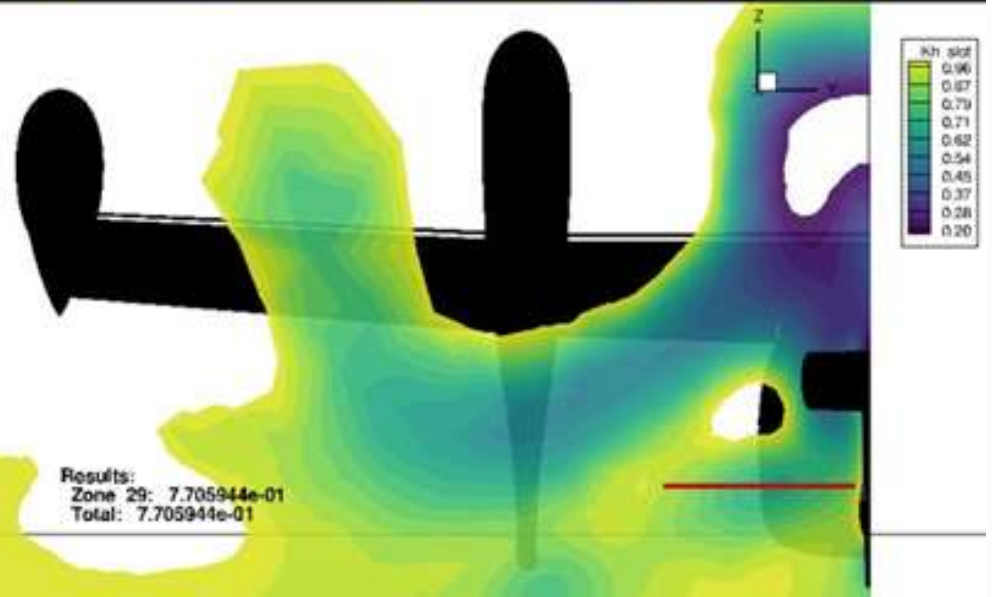
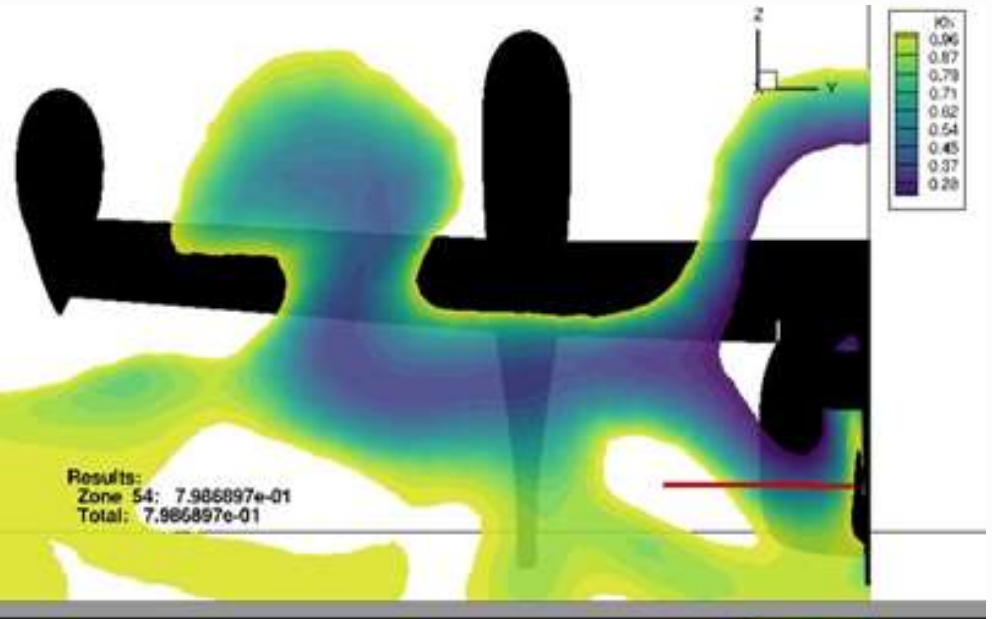
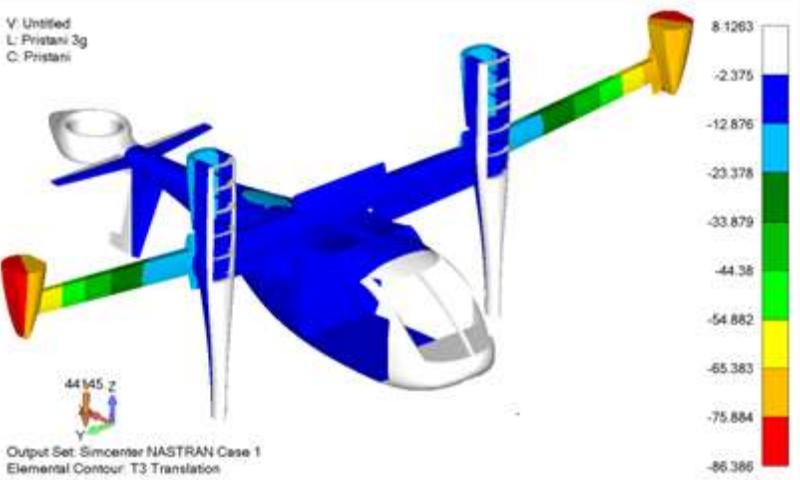
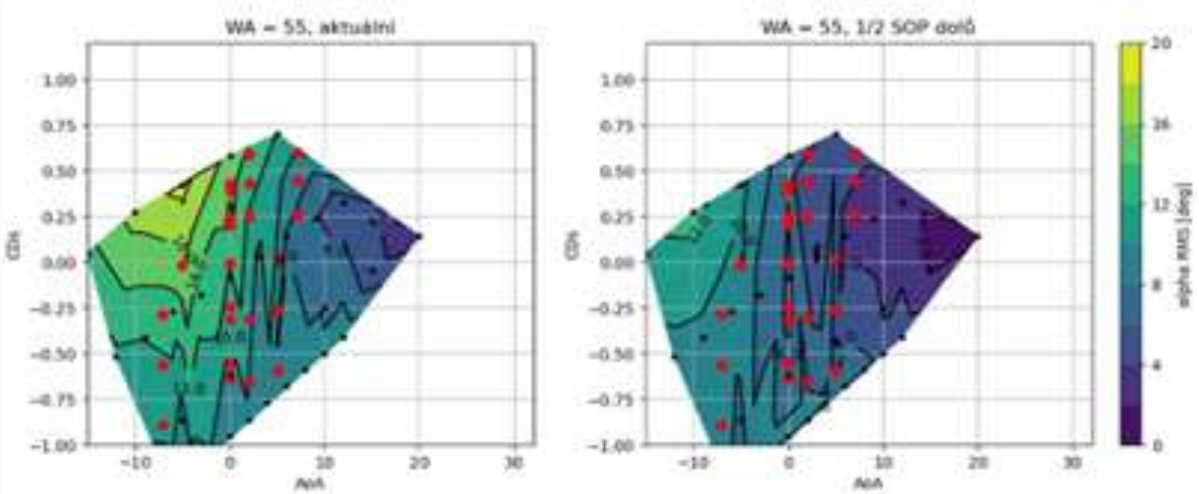
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1to1 design 



Analysis and Simulations



Wind tunnel testing



