



SESAR walking tours

2020 World ATM Congress

Multi-Remote Tower
from HungaroControl's
perspective

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#PoweredBySESAR

Airports involved

Pápa

military traffic, no ground surveillance, ILS eq.



Airport



Hungary

Budapest (one RWY)

High traffic volume,
ASMGCS equipped



Airport



Hungary

Debrecen

Low traffic & equipment,
more VFR movements



Airport



Hungary

Roadmap – How we got here



November 2017
V2 Validation
Real-Time Simulation

November 2018
V3 Validation
Real-Time Simulation

March 2019
V3 validation
Passive Shadow Operation



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Roadmap – How we got here



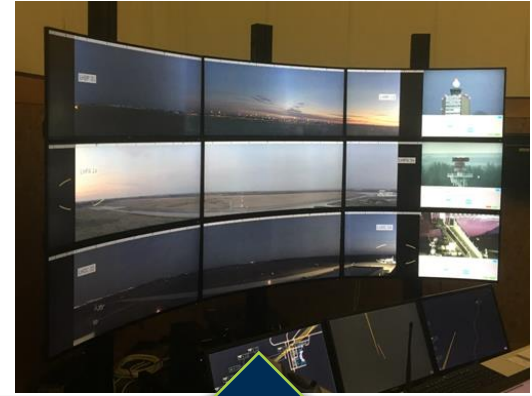
November
2017

V2 Validation
Real-Time Simulation



November
2018

V3 Validation
Real-Time Simulation



March
2019

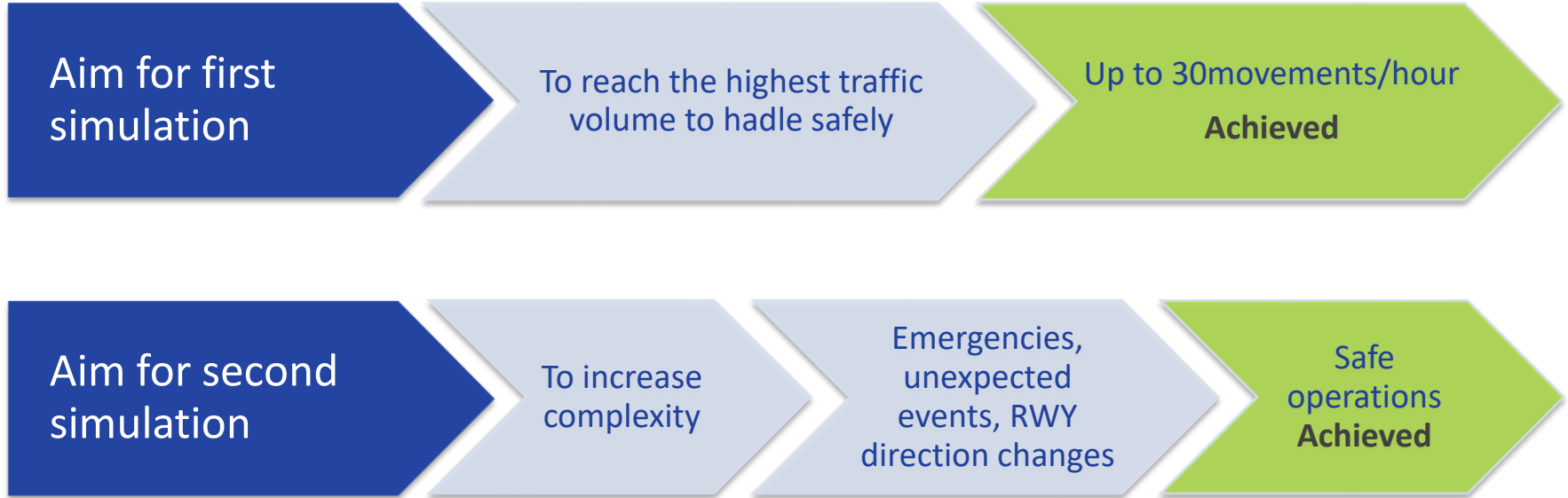
V3 validation
Passive Shadow Operation



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Simulation goals



Benefits for all stakeholders



Involving less targeted areas into flow of air transportation

Realistic option to provide safe & cost effective ATS service for small airports

More effective use of highly trained & valuable human resources



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Thank you for your attention!
Questions?



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