# SWIM European State of Play





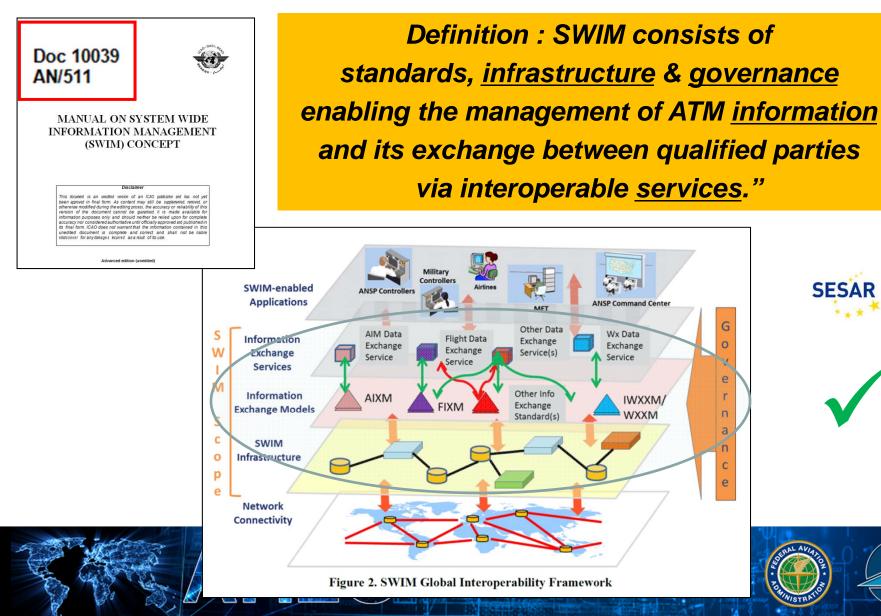
Presented to: ATIEC 2016 By: Paul Bosman Date: September 20<sup>th</sup>, 2016

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## **Global Framework**





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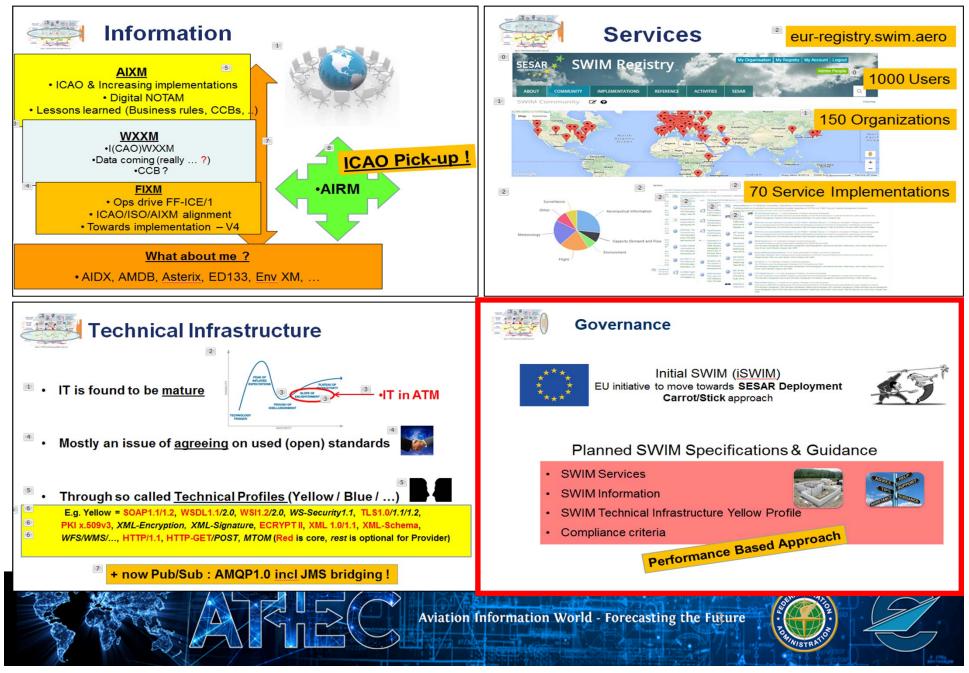
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### **European Progress in a nutshell**



#### **SESAR SWIM Global Demos**

- 8-9 June 2016
- Participants
  - SESAR partners, Air Services Australia, Brazil DECEA, FAA, Mongolia CAA, UAE
  - 200 persons & 1000<sup>+</sup> online

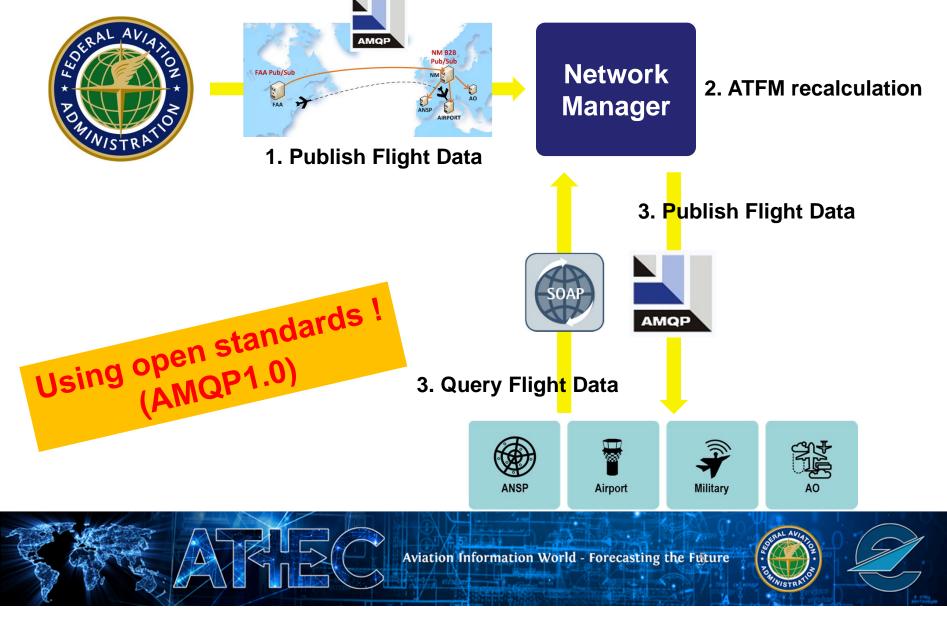


#### Results

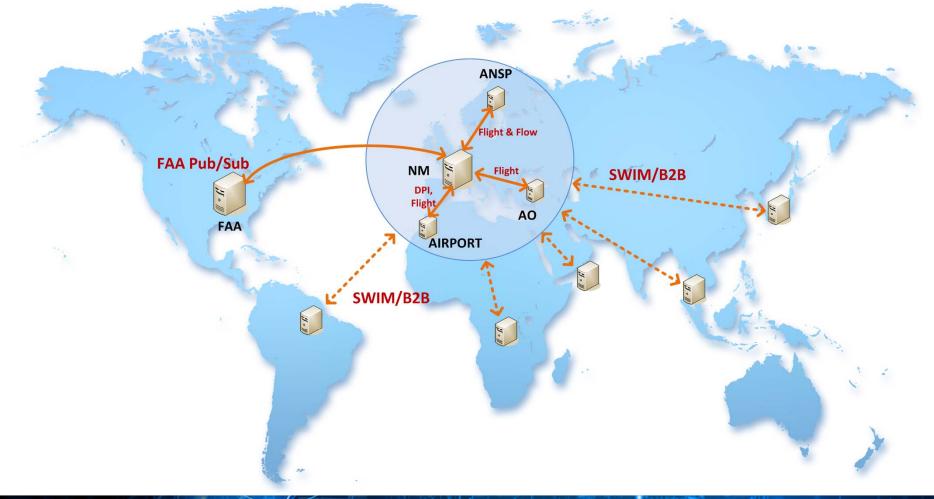
- SWIM is a reality and no technical barriers for global exchange found
- Becoming major enabler for current & future ATM concepts & operations
- Standards like AIXM, WXXM, FIXM successfully used by all
- Lessons learned feed back (incl ICAO\ATMRPP & IMP)



#### From demo to Operations – April 2016 ! USA – Europe SWIM Flight Exchange



# Global Flight data exchange really accelerated through SWIM





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# The future is bright ... or ....?

Let's congratulate ourselves on a job well done!







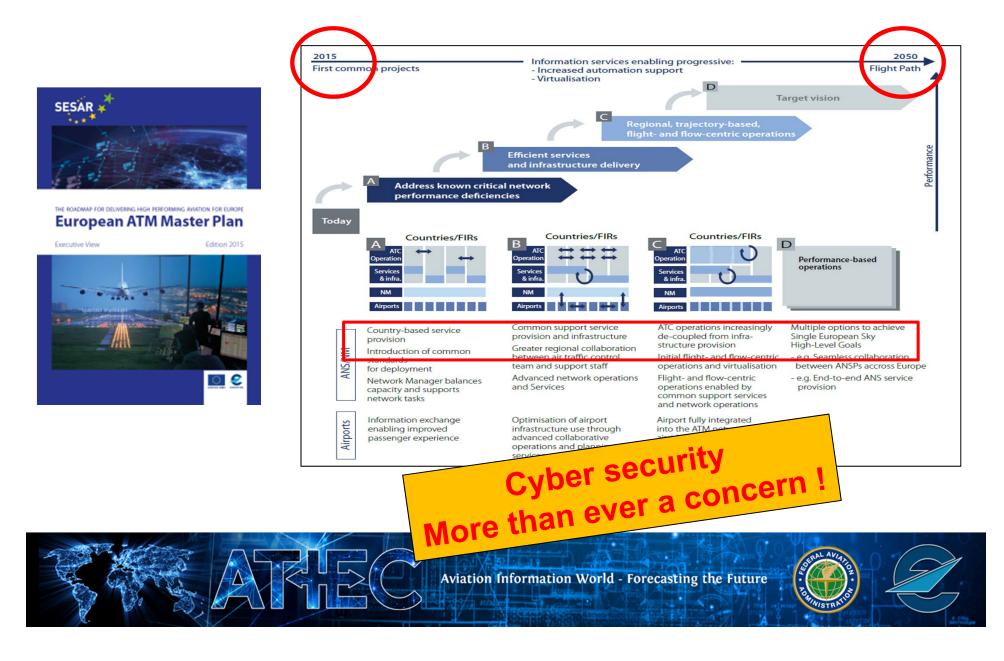








#### **Virtualisation - ATM Cloud Services**



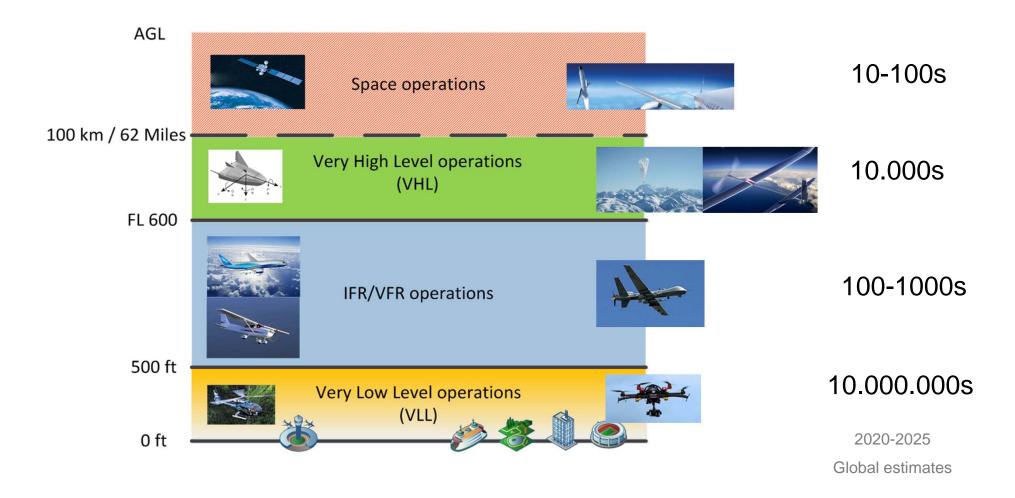
## **Drones – A European discovery path**







### **Drones – From toys to a total ATM overhaul ?**





## Is ATM Ready for the future ?

#### The world out there

- Millions of APIs available on the Web
- Google, Amazon, Salesforce, Twitter are all API companies
- Internet of things 30 billion connected objects by 2020

#### <u>ATM</u>

- FIXM 5 years
- (i)WXXM 8 years
- SWIM 18 years
- AIXM 20 years
- 4D 40 years





# Conclusions

#### Significant SWIM progress

- Technology is not the blocking factor anymore
- Global implementation a real challenge !
- Acceleration through Regulations or Market-set standards ?
- Automation & Virtualisation
  - Next wave of Opportunities & Challenges
- Surely many ATIECs still required Image: Surely many ATIECs





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