WP5: Space Based ADS-B and Flow Management

SEABOB Bangkok November 2018

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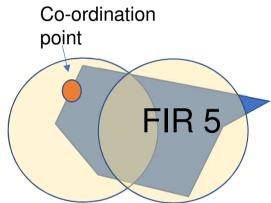
November 2018

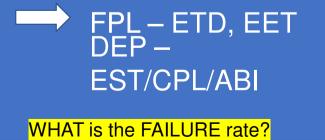


How do you predict arrival time at FIR?

- before ATC co-ordination of transfer

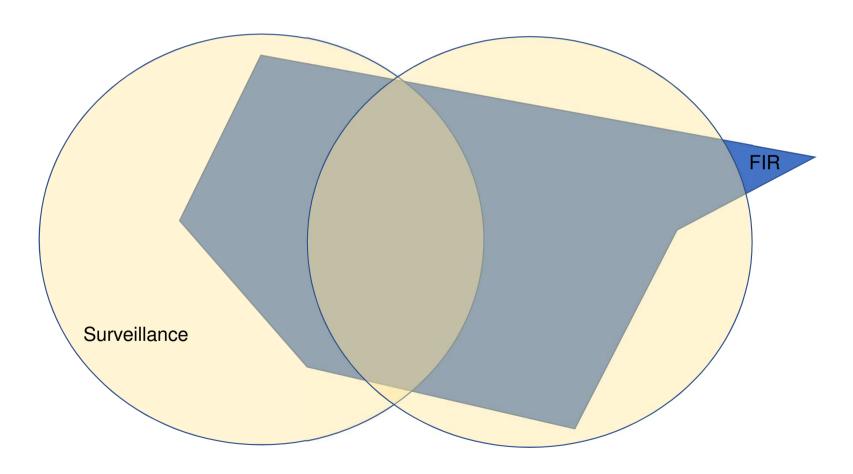
FIR 1 FIR 2 FIR 3 FIR 4 - Around newly activated - Wind change restricted area - Late departure - ATC intervention Departure Airport





ANSP surveillance is normally:

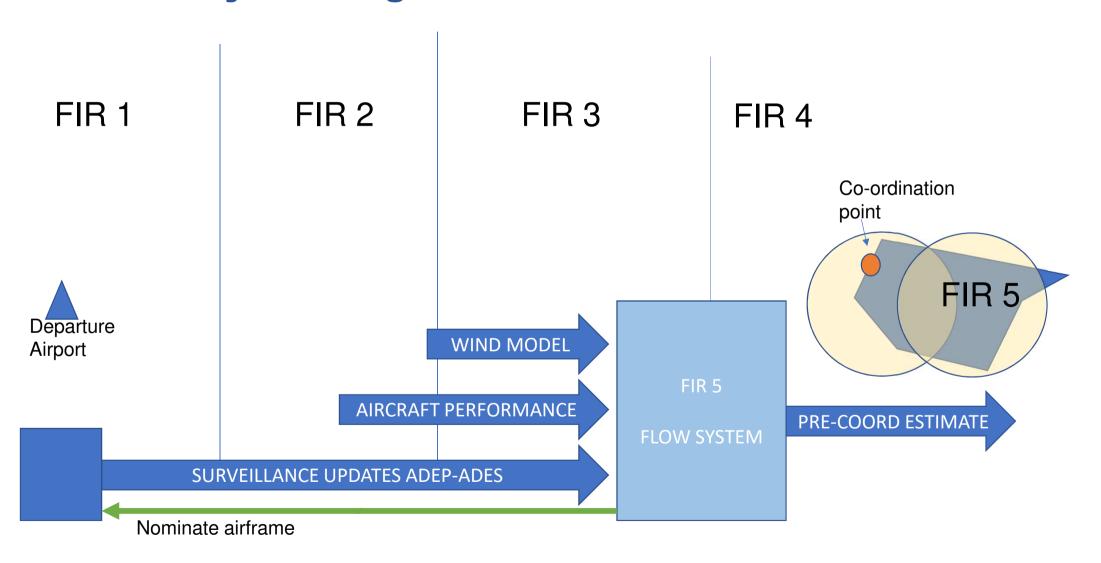
Your own FIR plus a moderate distance into adjacent FIR



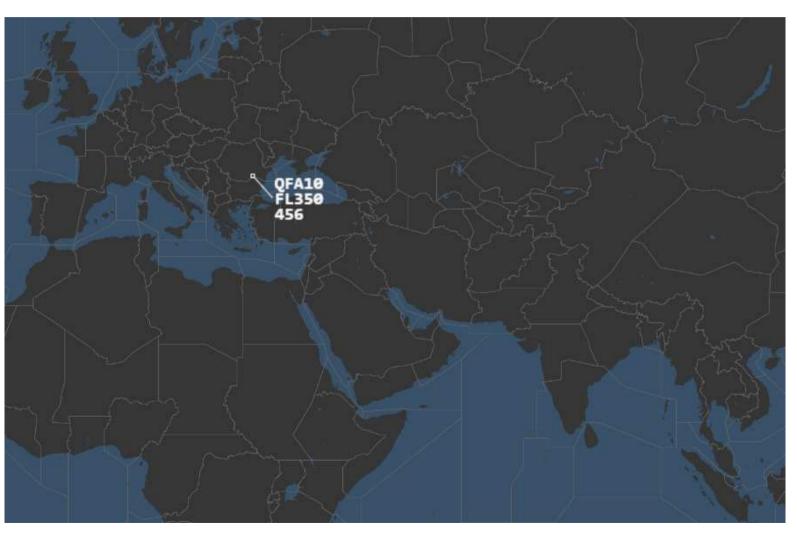
Aireon has Surveillance data worldwide



What if your FIR got surveillance benefit ADEP-ADES?



Singapore could receive date on QF10 London to Singapore whilst over Europe!



This would improve estimates

- ATC and flow management systems can calculate estimates using various information such as flight plan data, aircraft performance data, profile information and wind models. However, accurate position reports can provide essential "real world" feedback adjusting initial estimates to achieve higher accuracy and realism.
- ATC intervention in prior FIRs will continue to cause change in original estimates, but automated position report updates will allow those changes to automatically update flow management and traffic load calculation systems.

In itself this is not a solution

- Just a contribution to assist design of new flow management systems
 - Flow instructions are beyond the extent of this proposal

Would this be useful?



Questions/ Discussion?

