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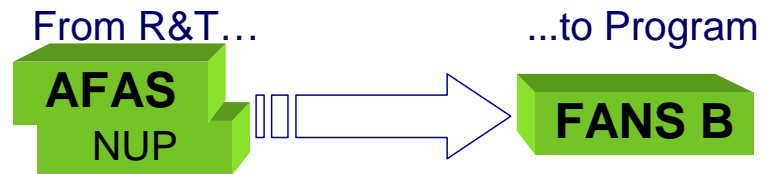
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# AFAS Implementation Roadmap

What's new since User Forum 2 in Madrid?

# User Forum 2 (Madrid)

## Exploitation of AFAS results (short-term)



- AFAS provides the essential requirements for the FANS B program
  - AFAS has de-risked the FANS B development process
  - AFAS has validated the 4D operational concept
  - FANS B architecture is designed to support AFAS requirements
- Airbus commitment : support airlines operations of new ATM services with development of an industrial platform
- Next step : launch FANS B

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Source : Airbus presentation in AFAS UF#2 Jan 03

NUP : ASAS ADS-B project

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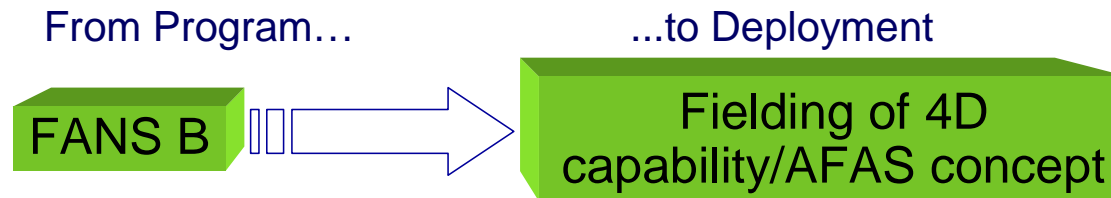
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# User Forum 2 (Madrid)

## Exploitation of AFAS results (medium-term)



- Airbus will use its political, industrial and commercial strengths to promote extensively 4D trajectory concept in Europe
  - ▶ cornerstone of the capacity enhancement
  - ▶ at the heart of the Air Traffic Alliance operational concept
- Next steps :
  - ▶ deployment of FANS B integrated avionics architecture in airlines
  - ▶ launch pre-implementation of AFAS results on FANS B airlines aircraft
  - ▶ launch pre-implementation of AFAS results in ATS Providers systems

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# What is new since Madrid?

- AFAS ATSU used for FANS B demonstration in aircraft simulator
  - ▶ Many sessions with airline pilots – very positive feedback
- Airbus proposes a FANS B package for airline participation in Link2000+ based on AFAS results
  - ▶ Using AFAS ATSU hardware, with no FMS modification
  - ▶ In line with Eurocontrol pioneers scheme requirements
  - ▶ Attractively priced, available in 2006/2007
  - ▶ Airlines decision expected
- Forward fit and retrofit
  - ▶ Applicable to A320 family equipped with ATSU and provisions for DCDCU
  - ▶ Retrofit of ATSU on ACARS provisions & DCDCU provisions available for other A320 family aircraft

# What is new since Madrid?

- 4D trajectory management is a corner stone of Air Traffic Alliance\* operational concept
- It is planned to be validated and flown on test aircraft within C-ATM project
- Industrialisation of AFAS FMS 4D capabilities
  - ▶ Current A330/340 FANS A FMS2 is capable of providing 4D information for the next way-point
    - Next release of A320 family FMS 2 (rel 1A) will have the same capabilities in 2005
  - ▶ AFAS FMS improves the existing FANS A functionality
    - compliance with ICAO standards (ADS, CPDLC)
    - capability to transmit 40 way-points with 4D information
    - FPLN modification detection
    - RTA MCDU page (time window computation)
  - ▶ These functions are candidate for FMS Release 2 standard (2009 horizon), when operationally validated with ANSP in C-ATM

\* a grouping of EADS, AIRBUS and THALES

# Conclusions

- AFAS results are being implemented
  - ▶ Industrially starting with FANS B for Link2000+
  - ▶ For test aircraft trials (C-ATM)
  
- AFAS results are supported at European level by industry
  - ▶ Air Traffic Alliance operational concept
  - ▶ Air Traffic Alliance's Single European Sky proposal to European Commission