THALES

Building a future we can all trust

BADA Workshop
Feedback from industry

Pascal ROHAULT - Thales
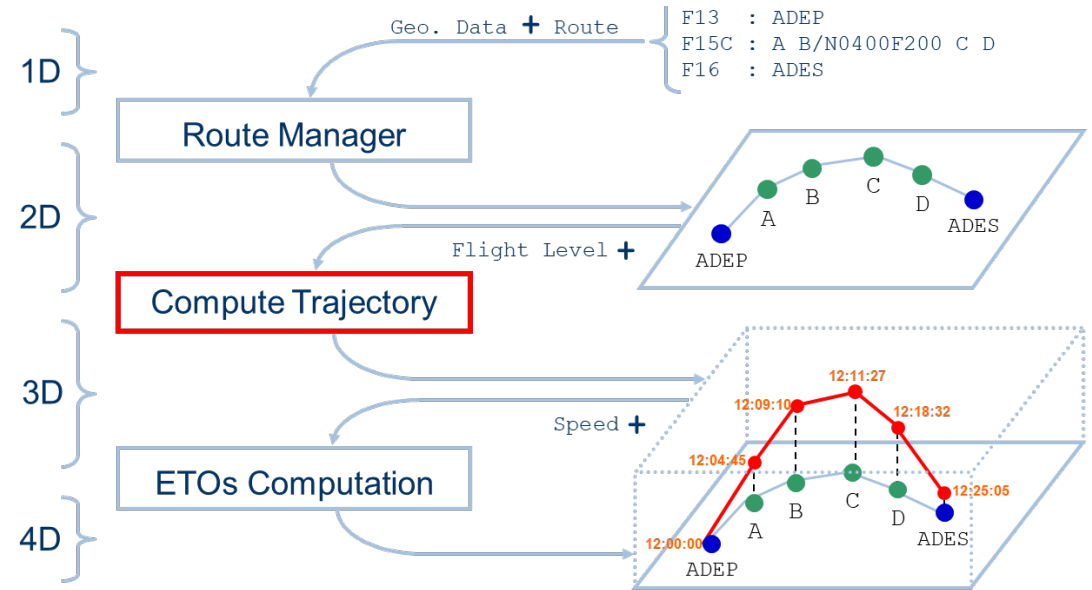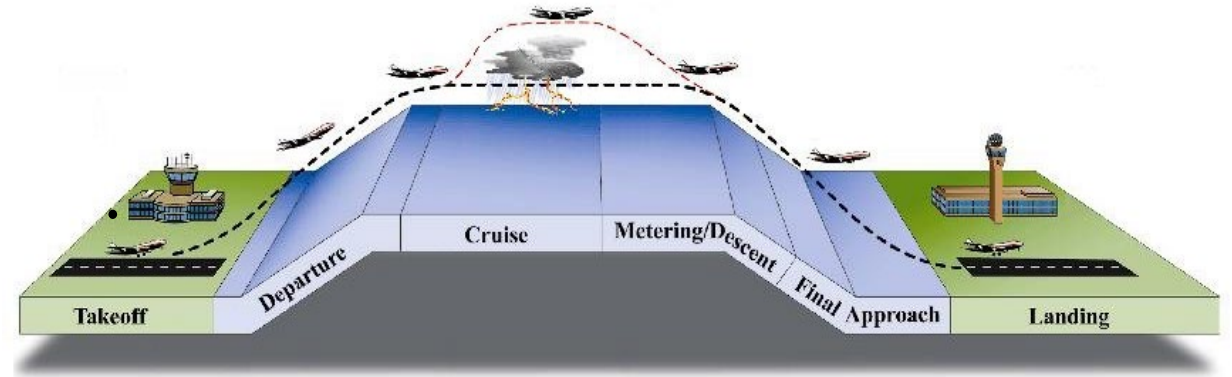
{OPEN}

What is a trajectory for ATC

> 2D waypoints

> Requested Flight Level (RFL)

Then, ATC computes at each points

> Levels

> Speeds

> Time

By using aircraft performances

> Dataset

> Eurocontrol BADA

> others

THALES
Building a future we can all trust

Use of Eurocontrol BADA

Why improving TP by using Eurocontrol BADA

> Unique and shared aircraft performances

> Use of estimated mass and temperature to refine computation

> Accuracy of ETO and Speed

> Accuracy of ToC and ToD

> Improved boundary estimate (resulting in improved AIDC coordination)

> Better knowledge of climbing and descending profile evolution

For what purpose

> Better crossed sector detection in complex airspaces

> Medium term conflict detection

> Better anticipation in dense airports for the arrival

REF xxxxxxxxxxx rev xxx - date
Name of the company / Template: 87211168-DOC-GRP-EN-006

THALES
Building a future we can all trust

{OPEN}

Yes but, …

Potential issues

> Introducing BADA model in current ATC system vs. Major upgrade of FDP BADA compatible

> Lacking Take of Weight and Temperature information

> Missing model for aircrafts used in the region

> Impacts of performances of the current ATC system

Solutions exist at Thales to
minimize impacts of current ATC systems or
transition to new enhanced FDP fully compatible with BADA model

REF xxxxxxxxxxx rev xxx - date
Name of the company / Template: 87211168-DOC-GRP-EN-006

{OPEN}

THALES
Building a future we can all trust