

Supporting
European
Aviation



Airport - Collaborative Decision Making Milestones approach

Dave Booth

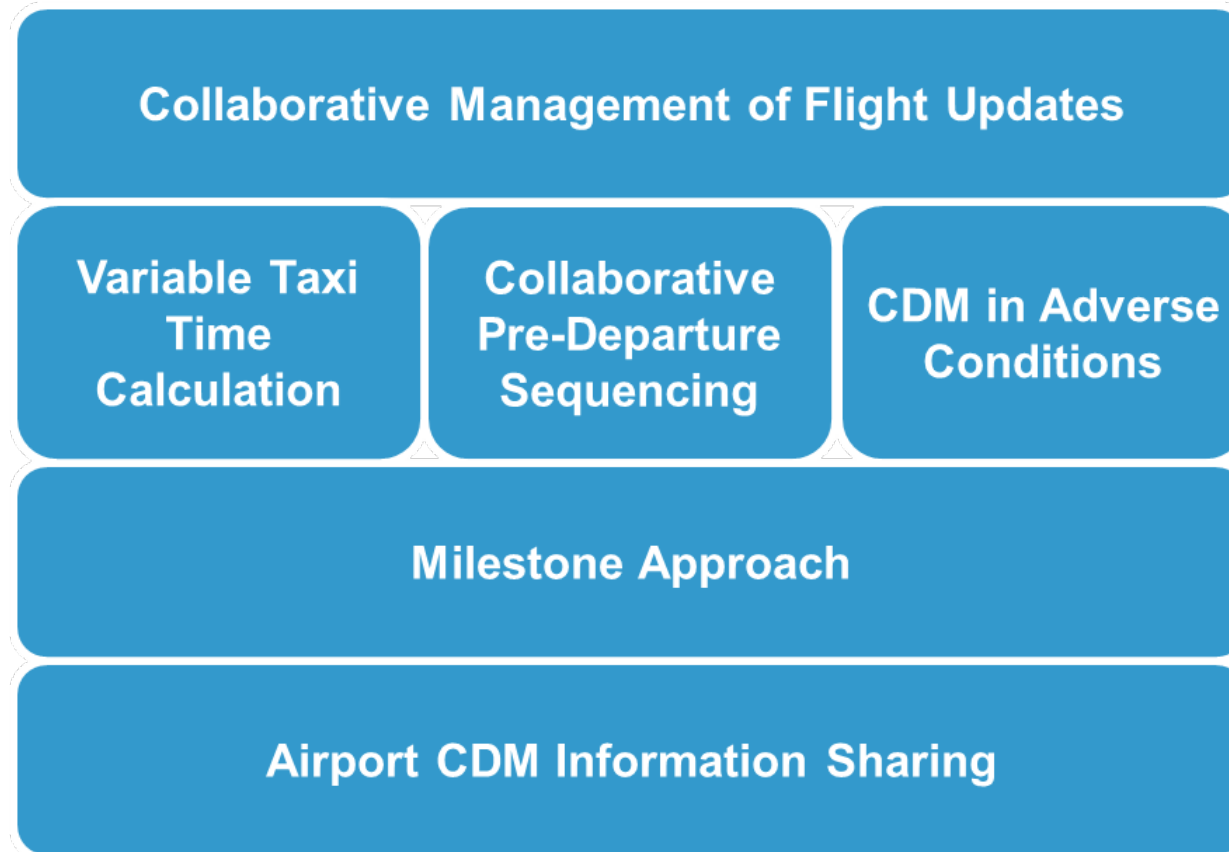
A-CDM Implementation Manager



NETWORK
MANAGER



A-CDM Elements



Milestone Approach

- **Principle**



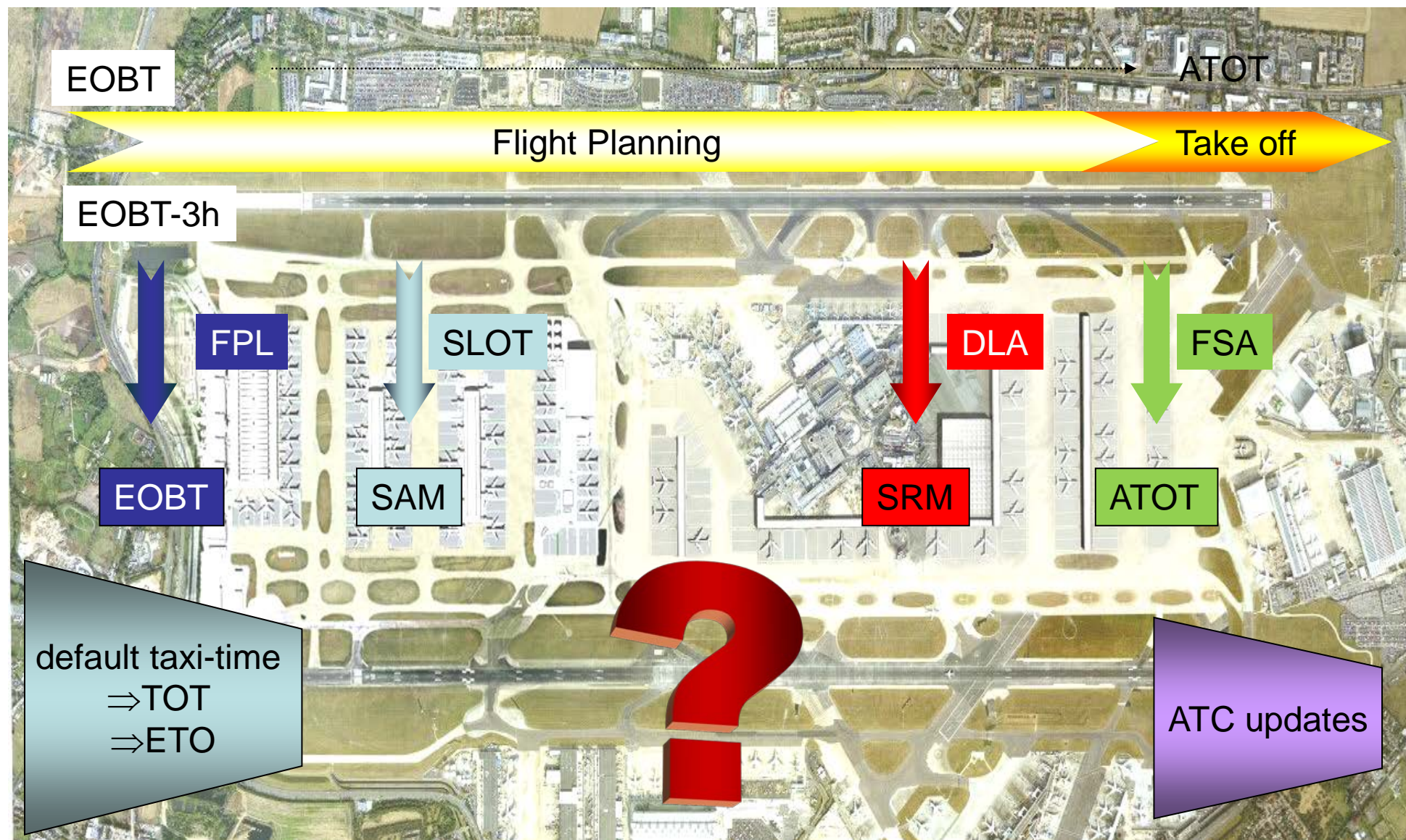
Foundation for Airport CDM

The **right**
informatio
n

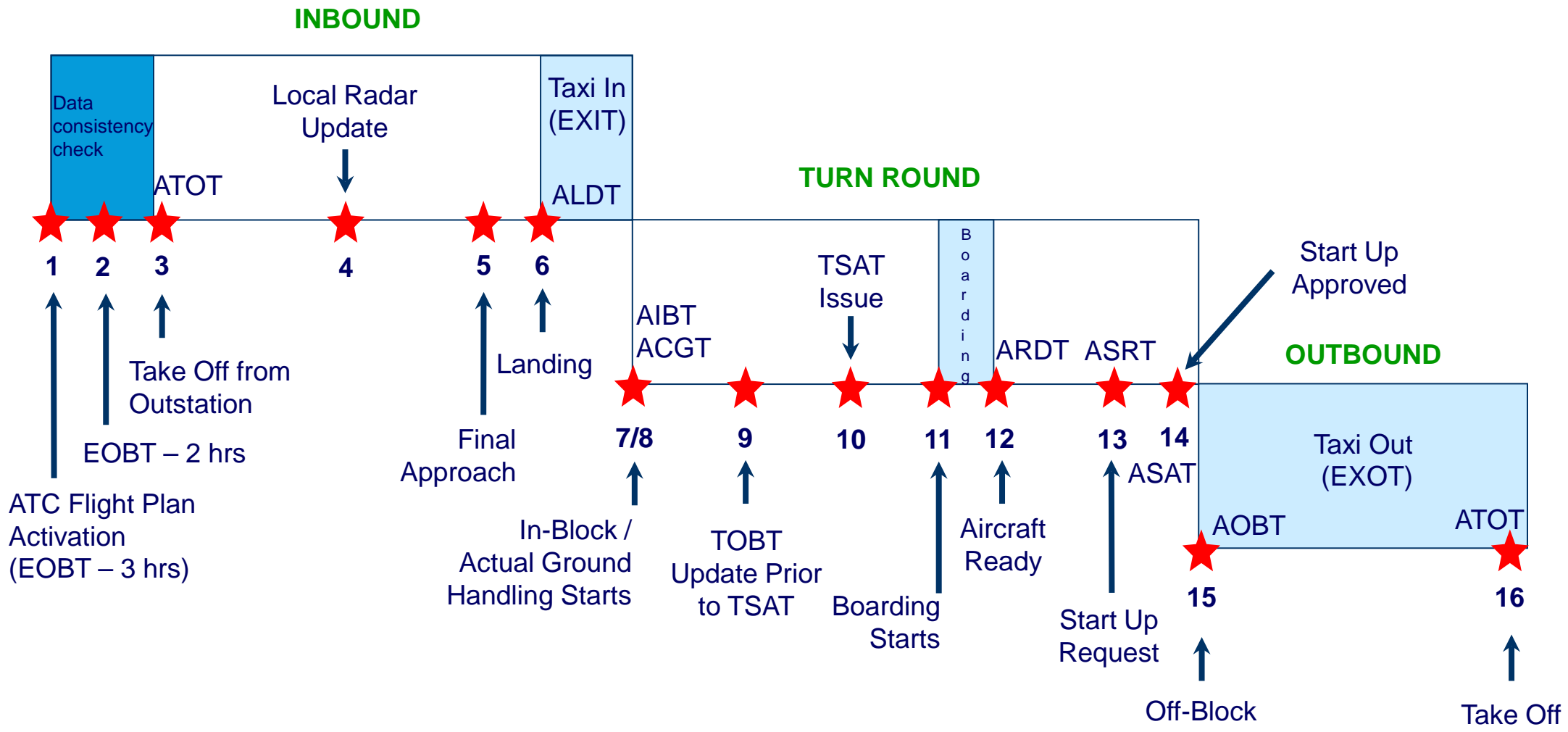
To the **right**
people

At the **right**
time

Non - CDM airport - Departure Planning



Milestone Approach



Milestone 1 - (EGLL EOBT 1950)



The screenshot shows a flight information system interface with a table of flight data. The table has columns for flight number, airline, origin, arrival time, departure time, and status. The data is color-coded: green for arrivals, yellow for departures, and red for cancellations or other statuses. The interface includes a search bar and various navigation icons.

ELDT and EIBT updated for an arrival

EOBT and ETOT updated for a departure



1650hrs @ EOBT -3hrs

ATC Flight Plan activation

Check of FPL and Airport Slot

Milestone 2 - (EGLL EOBT 1950)



*ETOT/TTOT/CTOT
Mark appropriate fields as
REGULATED*



1750hrs @ EOBT -2hrs

Update of flight info + SIT1

CTOT = 2030

Milestone 3 - (EGLL EOBT 1950)



*ELDT, EIBT, TOBT
and TTOT updated*



1800hrs

Take Off from Outstation

(ATOT – Munich
FUM gives ELDT & ETO final
route point)

Milestone 4 - (EGLL EOBT 1950)



*ELDT, EIBT, TOBT
and TTOT updated*



1840hrs

Local Radar Update

More accurate than FUM
[i.e. - can include holding]

Milestone 5 - (EGLL EOBT 1950)



*ELDT, EIBT, TOBT
and TTOT updated*

*Trigger for G/H services
etc to attend stand/gate*



1900hrs

Final Approach

Milestone 6 - (EGLL EOBT 1950)



*ELDT changes to ALDT,
EIBT, TOBT and TTOT
updated*

*Updates to G/H & Stand & Gate
Management – possible conflicts
resolved*

1905hrs

Landing

ALDT

EXIT 5 minutes = EIBT 1910

Milestone 7 - (EGLL EOBT 1950)



EIBT changes to AIBT

TOBT and TTOT updated

[if TOBT is auto calc the GH has 2 options –

1/ TOBT is good – do nothing

2/ Manual update TOBT]



1910hrs

In Block

AIBT

Milestone 8 - (EGLL EOBT 1950)



*ETTT/TOBT, TTOT
updated*

*- AGHT used if aircraft is
long term parked*

1910hrs

Ground Handling starts

AGHT

MTTT 50mins

Milestone 9 - (EGLL EOBT 1950)

Target OffBlock Time (TOBT)

CX 064 - 752SA

SOBT: 08:55 EOBT: 08:55 CTOT:
 TOBT: TSAT: COM:
 RMT: 9 RDY: 0 TXT: 9 DCT: 0

All Times in UTC !!!

TOBT (date):
 TOBT (time):
 Remote Holding:

Process is triggered by –
a TOBT update.

There is no need to confirm an existing TOBT if it has been manually modified before.



1930hrs

Target Off-Block Time

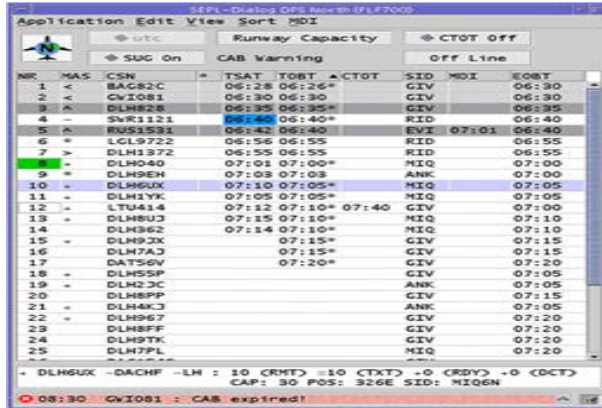
TOBT Update before TSAT

(TOBT=2000hrs)

This process is constantly applicable in the CDM Platform as soon as a TOBT is available.

The confirmed TOBT prior to TSAT has a special status, where AO/GH check the quality of TOBT before TSAT issue.

Milestone 10 - (EGLL EOBT 1950)



NR	MAS	CSN	TSAT	TOBT	CTOT	SID	MDI	EOBT
1	<	BAG82C	06:28	06:26*		GIV		06:30
2	<	Gv1081	06:30	06:30		GIV		06:30
3	R	DLH828	06:35	06:35*		GIV		06:35
4	-	Svr1121	06:40	06:40*		RID		06:40
5	R	BUS1531	06:42	06:40		EVI	07:01	06:40
6	*	LCL9722	06:56	06:55		RID		06:55
7	>	DLH1372	06:55	06:55		RID		06:55
8	-	DLH040	07:01	07:00*		MIQ		07:00
9	*	DLH95H	07:03	07:03		ANK		07:00
10	-	DLH6UX	07:10	07:05*		MIQ		07:05
11	-	DLH1YK	07:05	07:05*		MIQ		07:05
12	-	LTU414	07:12	07:10*	07:40	GIV		07:00
13	-	DLH8UJ	07:15	07:10*		MIQ		07:10
14	-	DLH362	07:14	07:10*		MIQ		07:10
15	-	DLH92X		07:15*		GIV		07:15
16	-	DLH7AJ		07:15*		GIV		07:15
17	-	DAT56V		07:20*		GIV		07:20
18	-	DLH55P				GIV		07:05
19	-	DLH23C				ANK		07:05
20	-	DLH8PP				GIV		07:15
21	-	DLH4KJ				ANK		07:05
22	-	DLH967				GIV		07:20
23	-	DLH8FF				GIV		07:20
24	-	DLH9TK				GIV		07:20
25	-	DLH7PL				MIQ		07:20

To inform all relevant partners that a TSAT that has been allocated to the flight.

Also a check whether the number of TOBT updates exceeds a tolerance defined locally, after TSAT has been issued



1940hrs

Target Start up time issue

(TSAT=2011hrs)

Milestone 11 - (EGLL EOBT 1950)



Informs all relevant Airport CDM Partners of Actual Start Boarding Time (ASBT).

It also acts as a check whether boarding starts in time to respect TOBT and inform the AO/GH in case TOBT needs to be updated.

1940hrs

Boarding starts

Milestone 12 - (EGLL EOBT 1950)



Informs Partners of Actual Ready Time (ARDT) - that the aircraft is ready for start up / push-back.

TOBT updates normally end unless there is a last minute / on-board technical fault.



1958hrs

Aircraft Ready

ARDT

(Doors closed ready to move)

Milestone 13 - (EGLL EOBT 1950)



Inform when ASRT occurs. If the start up request is not made by TSAT + 5mins then TSAT and/or TOBT are removed.

The AO/GH is informed that no start up has been requested and they must update TOBT.



2010hrs

Start up Clearance request

ASRT

Milestone 14 - (EGLL EOBT 1950)



Aircraft has received start up approval / push-back clearance.

Check if ASAT is in accordance to TSAT & alert when no start up has been granted. The flight will be re-sequenced.



2011hrs

Start up approved

ASAT

(ATC issue push back clearance)

Milestone 15 - (EGLL EOBT 1950)



2012hrs

Actual Off-Block Time

AOBT

(EXOT = 18 minutes)

Milestone 16 - (EGLL EOBT 1950)



An airborne message is generated and the flight is removed from the departure sequence.

This process is triggered by Tower FDPS, A-SMGCS / Radar detection or ACARS.



2030hrs

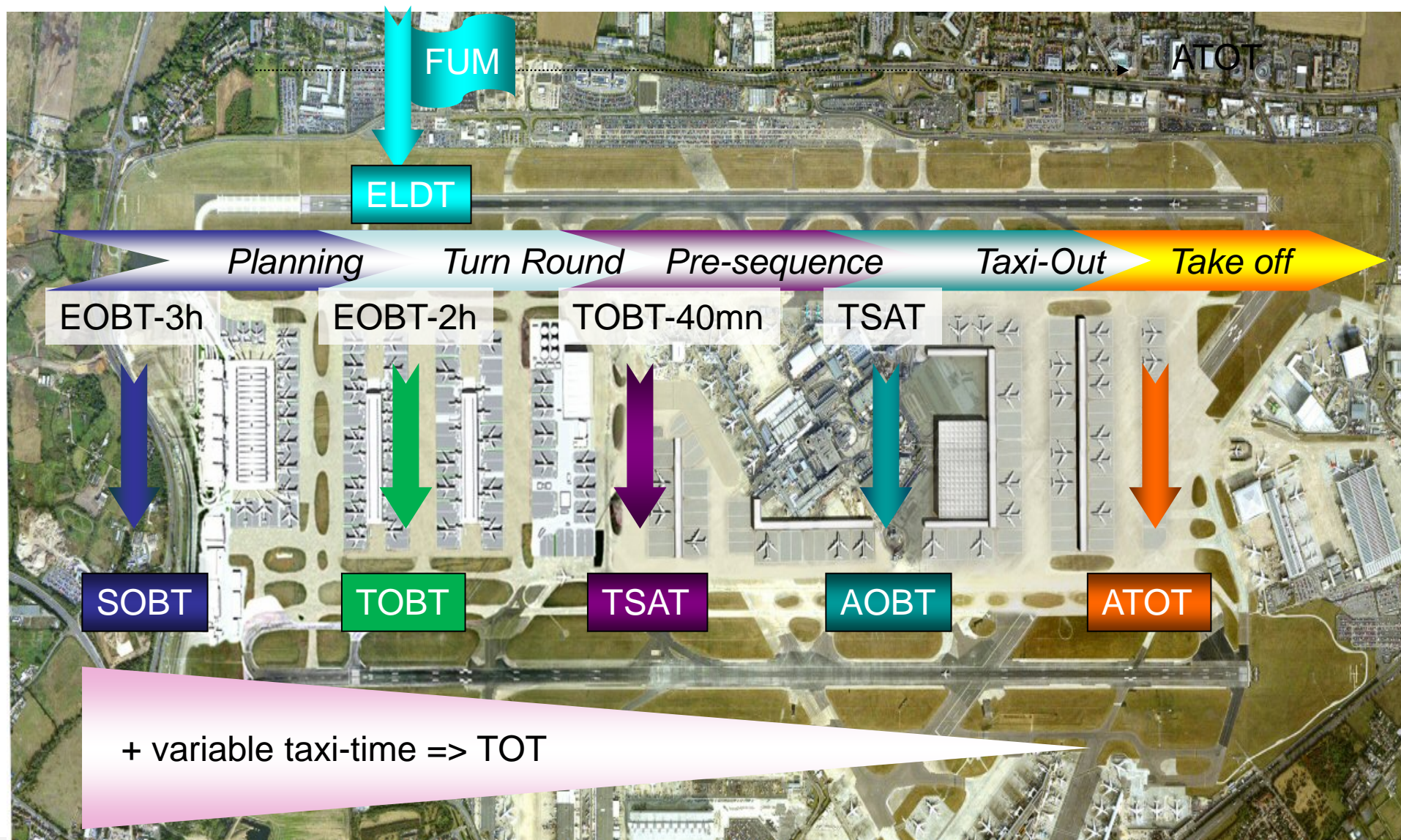
Actual Take Off Time

ATOT

(CTOT = 2030)

FSA is sent

CDM Airport – departure planning information



Thank you



david.booth@eurocontrol.int