

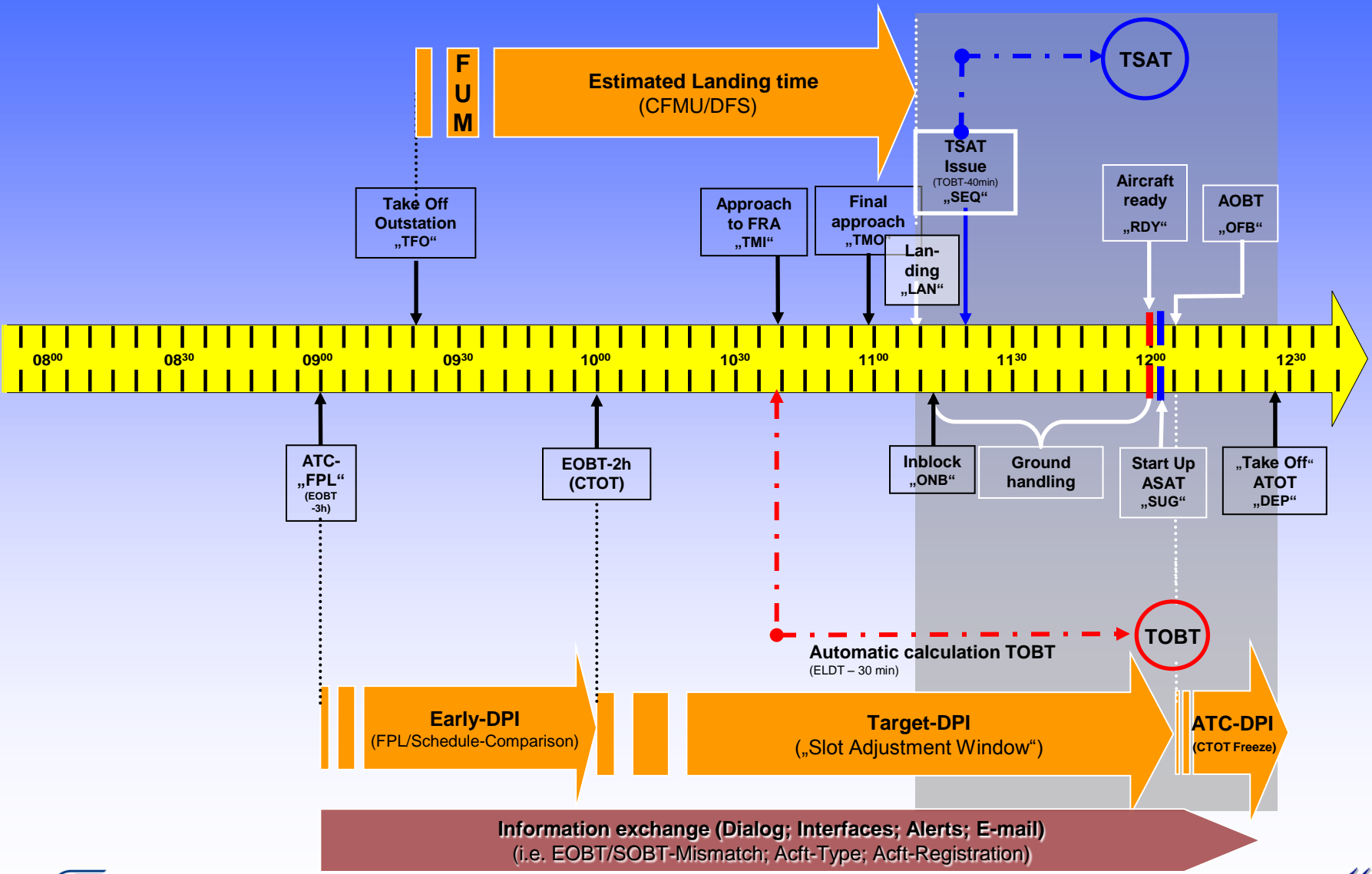
# ***2nd Airport-CDM@FRA forum***



***Airport  
CDM  
@  
FRA***



***„procedure“***



Flightplan Coherency Check

ATC FPL

EOBT

REG

ADES

ARCID

ARCTYP

AODB


Airport Slot  
(SOBT)

Registration

Routing

Flightnumber

Aircraft Type

**BUNDESREPUBLIK DEUTSCHLAND**  **FLIGHT PLAN FLUGPLAN**  
DFS Deutsche Flugsicherung

« ≡ FF → ADDRESS(ES) ANSCHRIFT(EN) \_\_\_\_\_ « ≡

FILING TIME AUFGABEZIT \_\_\_\_\_ ORIGINATOR AUFGEBER \_\_\_\_\_ « ≡

SPECIFIC IDENT OF ADDRESS(ES) AND/OR ORIGINATOR BESONDERE ANSCHRIFT(EN) UND/ODER AUFGEBER \_\_\_\_\_

« ≡ (FPL

1 AIRCRAFT IDENTIFICATION LFZ-KENNUNG \_\_\_\_\_ 2 FLIGHT RULES FLUGREGELN \_\_\_\_\_ 3 TYPE OF FLIGHT ART DES FLUGES \_\_\_\_\_

0 NUMBER ANZAHL \_\_\_\_\_ 4 TYPE OF AIRCRAFT MUSTER D. LFZ \_\_\_\_\_ 5 WAKE TURBULENCE CATEGORY WIRBELSCHLEPPENKATEGORIE \_\_\_\_\_ 6 EQUIPMENT AUSRÜSTUNG \_\_\_\_\_

11 DEPARTURE AERODROME STARTFLUGPLATZ \_\_\_\_\_ 12 TIME ZEIT \_\_\_\_\_

13 SPEED GESCHWINDIGKEIT \_\_\_\_\_ 14 LEVEL REISEFLUGHÖHE \_\_\_\_\_ 15 ROUTE ROUTE \_\_\_\_\_

16 DESTINATION AERODROME ZIELFLUGPLATZ \_\_\_\_\_ 17 TOTAL EET VORAUS. GESAMTFLUGDAUER HR MIN \_\_\_\_\_ 18 ALTERNATE AERODROME AUSWEICHFLUGPLATZ \_\_\_\_\_ 19 2nd ALTERNATE AERODROME 2. AUSWEICHFLUGPLATZ \_\_\_\_\_

20 OTHER INFORMATION ANDERE ANGABEN \_\_\_\_\_

21 SUPPLEMENTARY INFORMATION - ERGÄNZENDE ANGABEN

22 ENDURANCE HOCHSTFLUGDAUER HR MIN \_\_\_\_\_ 23 PERS. ON BOARD PERS. AN BORD \_\_\_\_\_ 24 EMERGENCY RADIO NOTFUNKFREQÜENZ \_\_\_\_\_

25 SURVIVAL EQUIPMENT RETTUNGS-AUSRÜSTUNG \_\_\_\_\_ 26 JACKETS SCHWIMMWESTEN \_\_\_\_\_ 27 LIGHT FLUORES \_\_\_\_\_ 28 UHF \_\_\_\_\_ 29 VHF \_\_\_\_\_ 30 ELT \_\_\_\_\_

25 → S / P → D → M → J → J / L → F → U → V

26 → D / → C → COLOUR FARBE \_\_\_\_\_

27 AIRCRAFT COLOUR AND MARKINGS FARBE UND MARKIERUNG D. LFZ. \_\_\_\_\_

28 REMARKS BEMERKUNGEN \_\_\_\_\_

29 PILOT-IN-COMMAND VERANTWÖRTLICHER PILOT \_\_\_\_\_

30 REMARKS NOT FOR TRANSMISSION BEMERKUNGEN NICHT ZU ÜBERMITTELEN \_\_\_\_\_

FILED BY NAME DES FLUGPLANAUFGEBERS \_\_\_\_\_ SIGNATURE AIS UNTERSCHRIFT FB \_\_\_\_\_





Zusätzliche Angaben sofern erforderlich / Additional remarks if applicable

Erreichbarkeit bis EOBT-Tel.: \_\_\_\_\_ Available until EOBT -FAX: \_\_\_\_\_

Bitte Beratung Request Briefing ☐ ☐ 3+

**Where will the procedure be published and what does A-CDM need from you?**

AIRPORT COLLABORATIVE DECISION MAKING



Airport CDM @ FRA

**draft version**

AIRPORT CDM AT FRANKFURT AIRPORT  
Brief Description

**AIP Germany**

**EDDF AD 2.20**

Local Traffic Regulations



**5.1.1 Airport User Regulations**



5 Management Guidelines for Our Customers 2

5.1

**G.5.1.4 Airport Operations**



TOBT procedure

Delivery of Data

TOBT


MTTT  
Minimum Turn Round Time

ASBT  
Actual Start Boarding Time

5 Management Guidelines for Our Customers 2

5.1

**G.5.1.7 General Aviation**




TOBT procedure

5 Management Guidelines for Our Customers 2

5.1

**5.1.5 Passenger Handling**



Begin Boarding

**Calculation of the automatically generated TOBT:**

**Estimated Landing Time -30 min & earliest Estimated Off Block Time -90 min**

**The plausibility of the automatically generated TOBT:**

<b>ELDT</b>	+	<b>EXIT</b>	=	<b>EIBT</b>	+	<b>MTTT</b>	=		<b>EOBT</b>
12:00		00:20		12:20		00:40		<b>13:00</b>	13:10

**Automatic TOBT**  
=  
**EOBT**

<b>ELDT</b>	+	<b>EXIT</b>	=	<b>EIBT</b>	+	<b>MTTT</b>	=		<b>EOBT</b>
12:00		00:20		12:20		01:00		<b>13:20</b>	13:10

**Automatic TOBT**  
=  
**EIBT + MTTT**

**Other Rules:**

	➔	<b>TOBT</b> + <b>EXOT</b> >	<b>Slot Tolerance Window of CTOT</b>
---	---	-----------------------------	--------------------------------------

	➔	<b>No generation of an automatic TOBT</b>
---	---	---

## *“Example for Alerting during procedure”*

**No automatically generation of TOBT because the delay was out of the ATC-Slot Tolerance Window:**



XYZ1AB/XY123  
CDM14  
1008230930UTC  
FRA/EDDF

Send by  
E-mail

CSA-Tool

The TOBT could not be automatically generated because it does not match with the associated CTOT. Manual input of TOBT required.

*Note: the Airport CDM process is suspended until reception of your TOBT.*

**Airline Operator / Handling Agent / TWR**

**Fraport**

CSA- Tool  
local / remote



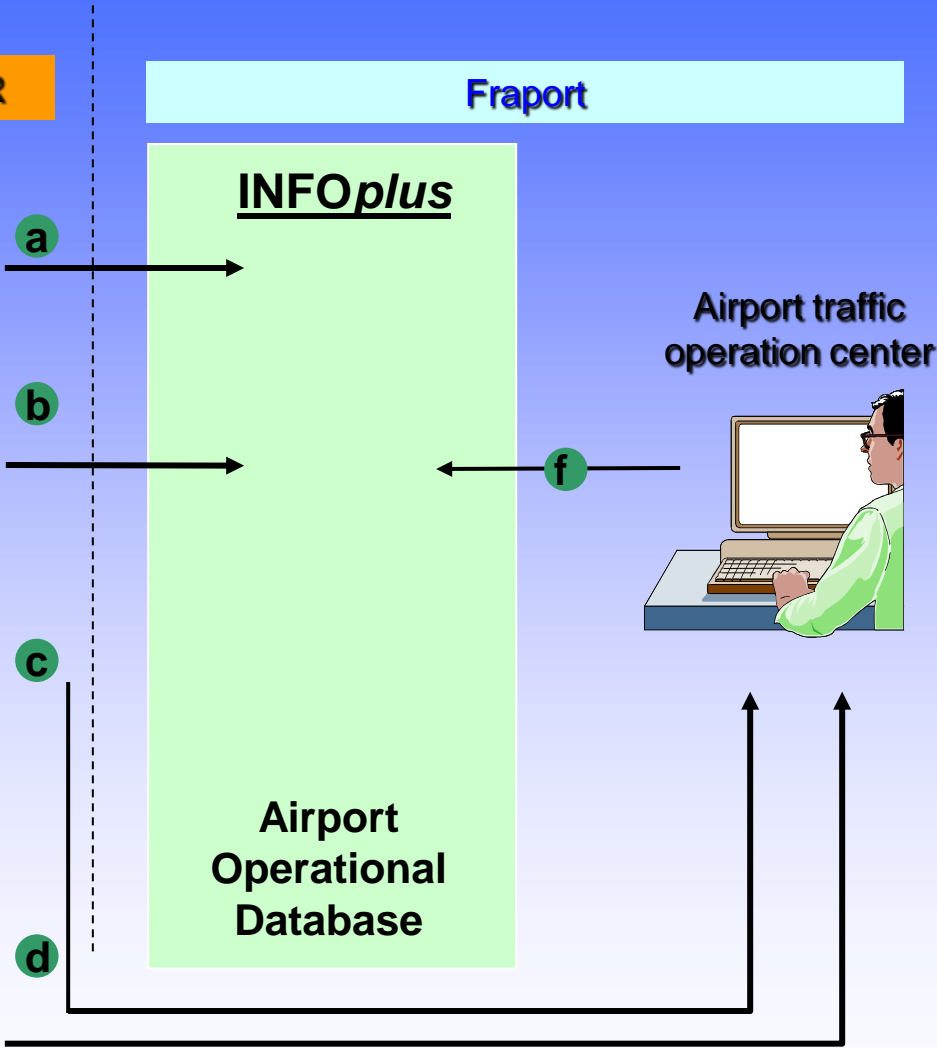
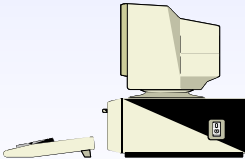
Interface  
AO / GH / ATC



By telephone



SITA



“What can you do to participate”

Information Sharing  
and  
Common Situational Awareness

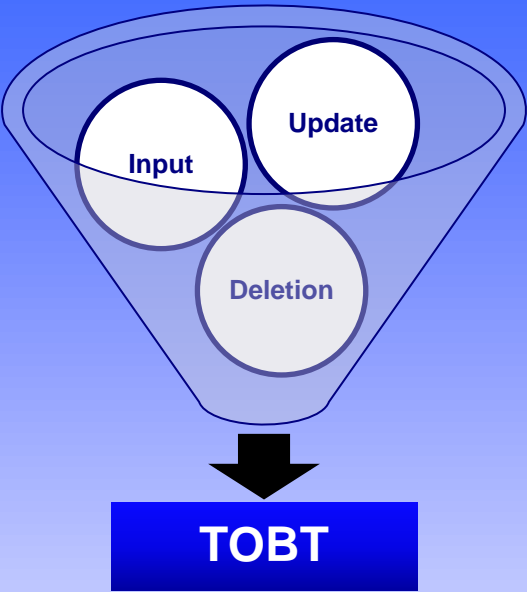
05:32 UTC FRA-Local

User : Heinz.Willi  
Group : Administrator

CSA Tool

Inbound Outbound

FLIGHT	ARCID	REG	A/C	DEST	GATE	POS	SOBT	EOBT	TOBT	TSAT	AOBT	CTOT	RWY	SID	RESP	STATUS
LH 400	DLH400	DABTE	B744	JFK	A63	A23	08:50	08:51	08:50	08:50		09:12	18W	SOBRA1S	APR	PBR
LH 804	DLH804	DAECD	E190	DUS	A13	A13	08:30	08:30	08:45	08:50	08:53		25R	MARUN1F	TWR	DEP
LH 430	DLH430	DABVC	B744	ORD	C16	C16	08:40	08:40	08:50	08:50	08:55		25R	BIBT1G	APR	TXG
LO 360	LOT360	SPLIB	E170	GDN	C1	C2	08:50	08:50	08:50	08:50	10:56		25R	TOBAK2F	APR	TXG
KL 1766	KLM1766	PHKZB	F70	AMS	D24	V98	08:50	08:50	08:50	08:52	08:49		25R	MARUN1F	TWR	TXG
AA 071	AAL71	N786AN	B772	DFW	C4	C4	08:55	08:55	08:55	08:55	10:52		25R	BIBT1G	TWR	TXG
AC 873	ACA873	CFITW	B77W	YYZ	B46	B46	08:45	08:45	08:55	08:55	08:58		25R	BIBT1G	APR	PBG
DL 143	DAL143	N1607B	B763	DTW	D7	V113	08:50	08:50	08:50	08:55			25R	BIBT1G	APR	PBR
LH 440	DLH440	DABVK	B744	IAH	C14	C14	08:50	08:50	09:00				25R	BIBT1G	APR	SUG
BE 7074	BEE4HP	GJEDU	DH8D	BHX	D2	V110	09:00	09:00	09:00	09:00			25R	SOBRA1P	APR	SUG
BE 7262	BEE6CN	GJECI	DH8D	MAN	D3	V108	09:00	09:00	09:00	09:00			25R	SOBRA1P	GHD	RDY
UA 953	UAL953	N657UA	B763	IAD	A58	A18	09:00	09:00	08:55	09:00	08:59	09:23	18W	SOBRA1S	APR	PBG
LH 8392	GEC8392	DALCR	MD11	KJA		F214	09:05	09:05	08:55	09:01	09:01	09:20	25R	TOBAK2J	APR	PBG
LH 750	DLH750	DAIKF	A333	CCU	B44	B44	08:50	08:50	09:00	09:03			18W	SULUS5S	TWR	SUR
EY 002	ETD002	A6EHH	A346	AUH	E6	E6	09:15	09:15	09:05	09:05			18W	SULUS5S	TWR	SUR
LH 3244	DLH3244	DABYN	B733	RIX	A16	A16	09:00	09:00	09:00	09:05		09:20	25R	TOBAK2F	APR	SUG
LH 3954	DLH1EP	DABIL	B735	LIN	A40	A40	09:10	09:10	09:10	09:10			18W	ANEK15L	GHD	SEQ
OS 122	AUA122N	OELBE	A321	VIE	B12	V163	09:10	09:10	09:10	09:10			18W	NOMBO4S	GHD	SEQ
PS 402	AUI402	URGAO	B734	KBP	E4	V115	09:10	09:10	09:10	09:20			18W	SULUS5S	GHD	SEQ
													25R	MARUN1F	GHD	SEQ
													18W	SOBRA1S	GHD	SEQ
													18W	NOMBO4S	GHD	RDY
													18W	SULUS5S	GHD	SEQ
													25R	BIBT1G	GHD	SEQ
													25R	MARUN1F	GHD	SFO



A-CDM  
Alerting

Who is responsible  
for your TOBT?

**Produktbestellung / Nutzungsvereinbarung**  
**CSA Tool extern** (Airport CDM - Common Situational Awareness Tool)

Bitte senden Sie das ausgefüllte Formular vollständig an die unten stehende Faxnummer oder Mailadresse:

CSA-Tool extern via Internet

(Materialnummer 22438)

Web-Anwendung über das Internet, Zugang via Fraport-Firewall. Datenidentifiziert ohne Eingangs-Servicequalität kann abhängig von Internetverbindung und sonstiger Systemzustand variieren.

0,4 / Monat

Die genannten Angebote enthalten keine Wartungsverträge.

**Auftraggeber**

Firmenname \_\_\_\_\_

Name des Auftraggebers \_\_\_\_\_

Postanschrift (°) \_\_\_\_\_

Gebäude-/Raumnummer \_\_\_\_\_

Telefon-Nummer \_\_\_\_\_

Fax-Nummer \_\_\_\_\_

Mailadresse \_\_\_\_\_



05:32

UTC FRA-Local

User : Heinz-Willi  
Group : Administrator

CSA Tool

Inbound Outbound

Search:

◇	FLIGHT ◇	ARCID ◇	REG ◇	A/C ◇	DEST ◇	GATE ◇	POS ◇	SOBT ◇	EOBT ◇	TOBT ◇	TSAT ▲	AOBT ◇	CTOT ◇	RWY ◇	SID ◇	RESP ◇	STATUS ◇
	LH 400	DLH400	DABTE	B744	JFK	A63	A23	08:50	08:51	08:50	08:50		09:12	18W	SOBRA1S	APR	PBR
	LH 804	DLH804	DAECD	E190	DUS	A13	A13	08:30	08:30	08:45	08:50	08:53		25R	MARUN1F	TWR	DEP
	LH 430	DLH430	DABVC	B744	ORD	C16	C16	08:40	08:40	08:50	08:50	08:55		25R	BIBT1G	APR	TXG
	LO 360	LOT360	SPLIB	E170	GDN	C1	C2	08:50	08:50	08:50	08:50	10:56		25R	TOBAK2F	APR	TXG
	KL 1766	KLM1766	PHKZB	F70	AMS	D24	V98	08:50	08:50	08:50	08:52	08:49		25R	MARUN1F	TWR	TXG
	AA 071	AAL71	N786AN	B772	DFW	C4	C4	08:55	08:55	08:55	08:55	10:52		25R	BIBT1G	TWR	TXG
	AC 873	ACA873	CFITW	B77W	YYZ	B46	B46	08:45	08:45	08:55	08:55	08:58		25R	BIBT1G	APR	PBG
	DL 143	DAL143	N1607B	B763	DTW	D7	V113	08:50	08:50	08:50	08:55			25R	BIBT1G	APR	PBR
	LH 440	DLH440	DABVK	B744	IAH	C14	C14	08:50	08:50	09:00	09:00			25R	BIBT1G	APR	SUG
	BE 7074	BEE4HP	GJEDU	DH8D	BHX	D2	V110	09:00	09:00	09:00	09:00			25R	SOBRA1P	APR	SUG
	BE 7262	BEE6CN	GJECI	DH8D	MAN	D3	V108	09:00	09:00	09:00	09:00			25R	SOBRA1P	GHD	RDY
	UA 953	UAL953	N657UA	B763	IAD	A58	A18	09:00	09:00	08:55	09:00	08:59	09:23	18W	SOBRA1S	APR	PBG
	LH 8392	GEC8392	DALCR	MD11	KJA		F214	09:05	09:05	08:55	09:01	09:01	09:20	25R	TOBAK2J	APR	PBG
	LH 750	DLH750	DAIKF	A333	CCU	B44	B44	08:50	08:50	09:00	09:03			18W	SULUS5S	TWR	SUR
	EY 002	ETD002	A6EGH	A346	AUH	E6	E6	09:15	09:15	09:05	09:05			18W	SULUS5S	TWR	SUR
	LH 3244	DLH3244	DABXN	B733	RIX	A16	A16	09:00	09:00	09:00	09:05		09:20	25R	TOBAK2F	APR	SUG
	LH 3954	DLH1EP	DABIL	B735	LIN	A40	A40	09:10	09:10	09:10	09:10			18W	ANEKI5L	GHD	SEQ
	OS 122	AUA122N	OELBE	A321	VIE	B12	V163	09:10	09:10	09:10	09:10			18W	NOMBO4S	GHD	SEQ
	PS 402	AUI402	URGAO	B734	KBP	E4	V115	09:10	09:10	09:10	09:20			18W	SULUS5S	GHD	SEQ
	LH 3460	DLH3460	DABWU	B735	SVG	A30	A30	09:25	09:25	09:20	09:20			25R	MARUN1F	GHD	SEQ
	LH 598	DLH598	DAIGX	A343	ADD	B45	B45	09:05	09:05	09:05	09:23		09:40	18W	NOMBO4S	GHD	RDY
	LH 758	DLH758	DAIHD	A346	MAA	B28	B28	09:05	09:05	09:15	09:24		09:40	18W	SULUS5S	GHD	SEQ
	DL 107	DAL107	N1612T	B763	JFK	D8	D8	09:20	09:20	09:20	09:25			25R	BIBT1G	GHD	SEQ
	LH 3132	DLH4HW	DAIOC	A320	OSI	B10	B10	09:30	09:30	09:30	09:30			25R	MARUN1F	GHD	SFO

Boarding Not Started: AT TOBT 1110 - 10 MINUTES  
BOARDING WAS NOT INITIATED. UPDATE TOBT IF NEEDED

## *What is the TOBT procedure about 1st?*

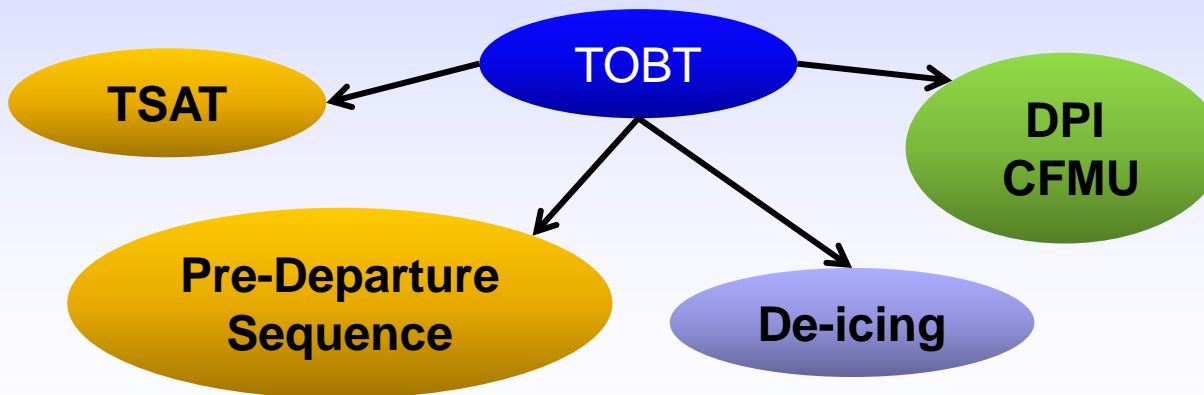


### Definition of TOBT:

The Target Off-blockTime is the target time, by which all handling procedures except push-back and de-icing (on position) have to have been completed.

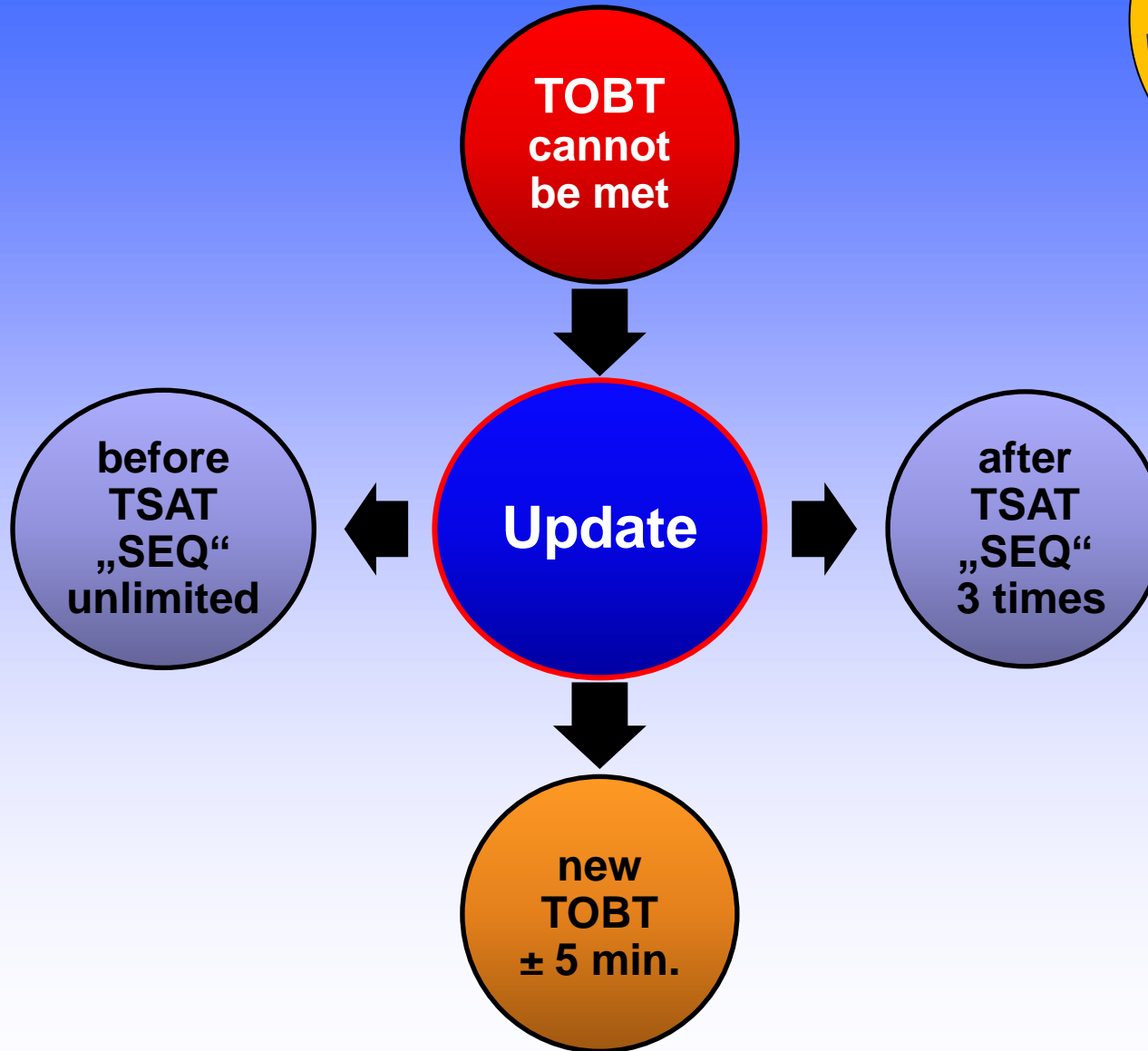


*The TOBT is the best available time as a basis for the following processes:*



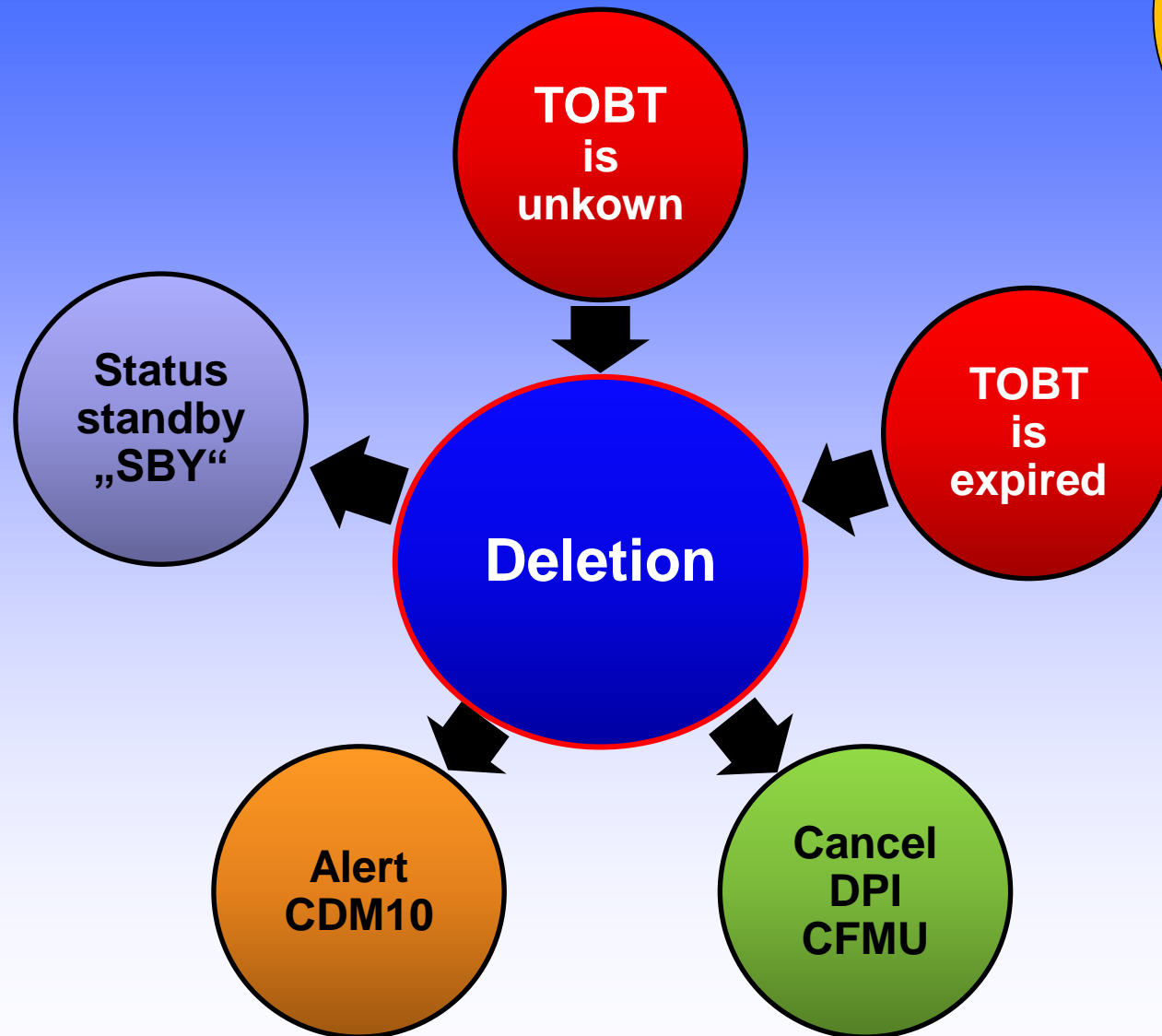
*What is the TOBT procedure about 2nd?*

**AO / Airline**  
responsibility



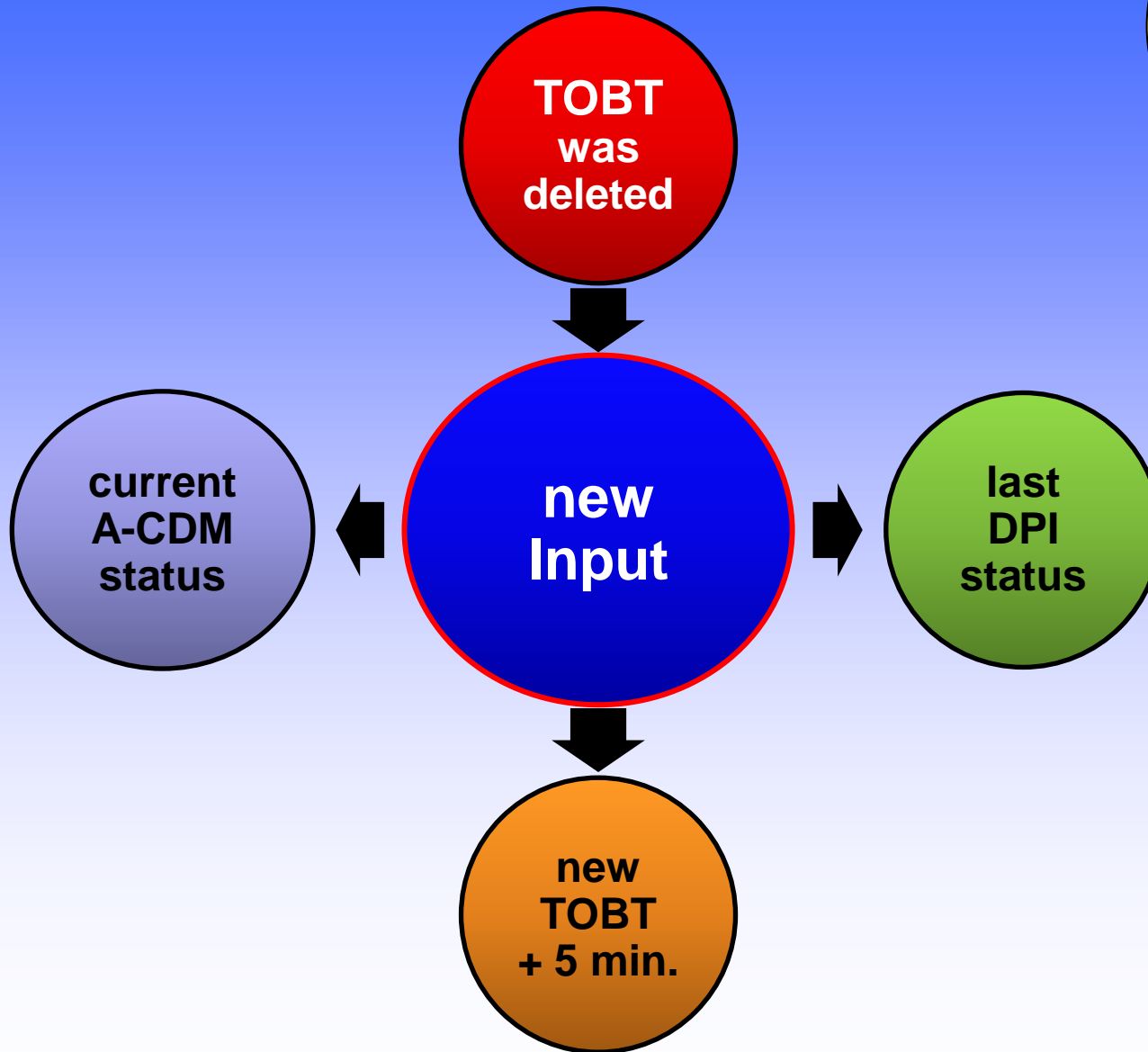
*What is the TOBT procedure about 3rd?*

**AO / Airline**  
responsibility

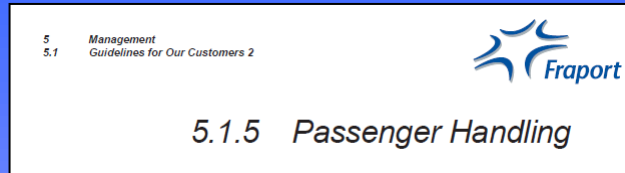


*What is the TOBT procedure about 4th?*

**AO / Airline**  
responsibility



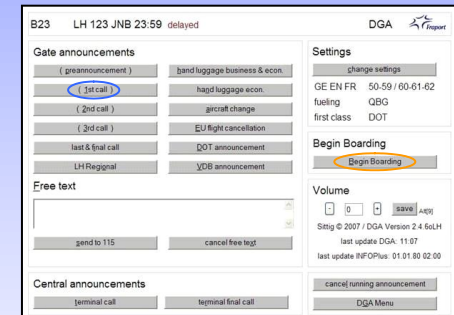
## **“Status Begin Boarding”**



### Optional reporting channels:

- Automatically by use of the gate announcement system at the gate
- Manually by use of a button in the gate announcement system at the gate

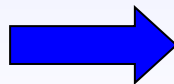
### Verification of Status „BGB“ Boarding Started



When?



**TOBT – 10min terminal aircraft parking stands**




**TOBT – 20min apron aircraft parking stands**

B23

LH 123 JNB 23:59 delayed

DGA



Gate announcements

( preannouncement )

( 1st call )

( 2nd call )

( 3rd call )

last & final call

LH Regional

hand luggage business & econ.

hand luggage econ.

aircraft change

EU flight cancellation

DOT announcement

YDB announcement

Free text

send to 115

cancel free text

Central announcements

terminal call

terminal final call

Settings

change settings

GE EN FR 50-59 / 60-61-62

fueling QBG

first class DOT

Begin Boarding

Begin Boarding

Volume

- 0 + save Alt[9]

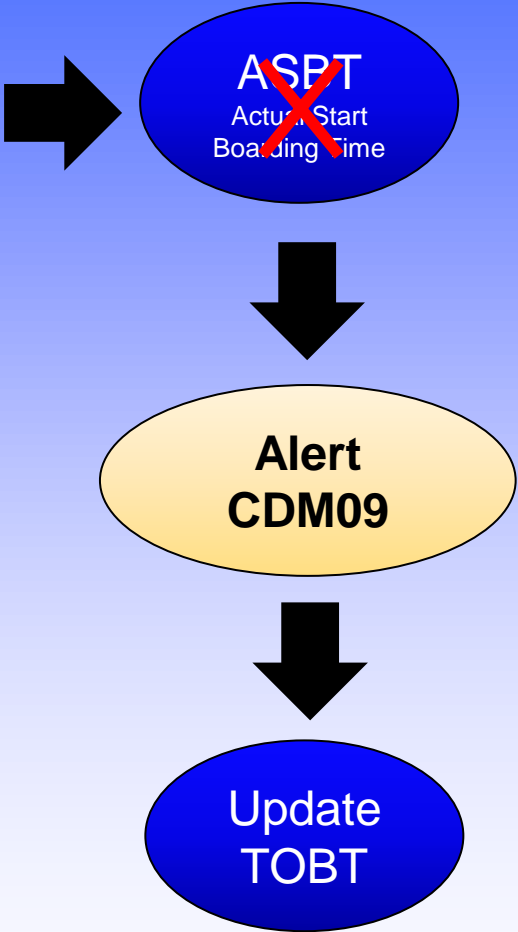
Sittig © 2007 / DGA Version 2.4.6oLH

last update DGA: 11:07

last update INFOPlus: 01.01.80 02:00

cancel running announcement

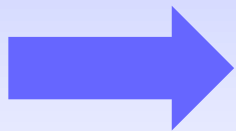
DGA Menu



*Sequence of De-icing today only based on COB*

*The following factors will now be considered:*

- Local effects like runway closures (operational capacity)
- Network effects – CFMU Slots (CTOT)
- Target Off-Block Time (TOBT) → **AO Commitment**
- Target Start Up Approval Time (TSAT) → **A-CDM Commitment**



*De-icing Sequence*

*Estimated Commencement of Deicing Time (ECZT)*



ECZT

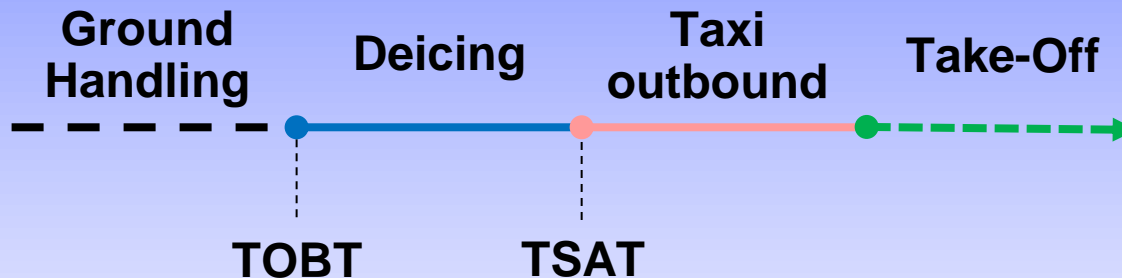
***Basis for dispatch of N\*ICE***



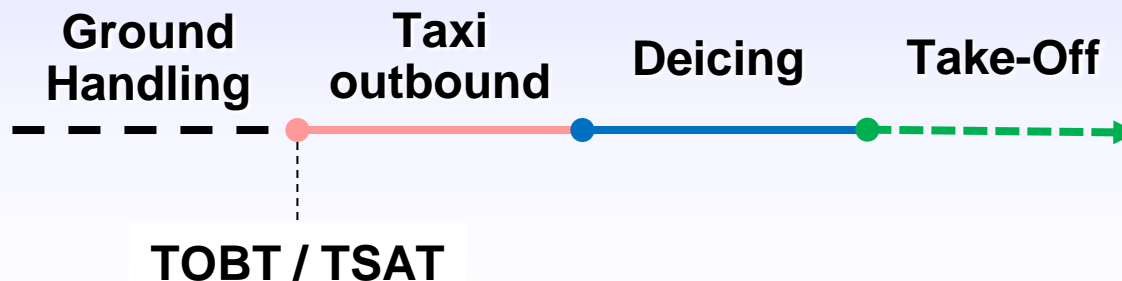
### Our Expectations on the deicing procedure:

- *More stable planning (TOBT = earliest ECZT)*
- *No unnecessary de-icing (capacity + CTOT)*

#### *Deicing on stand*

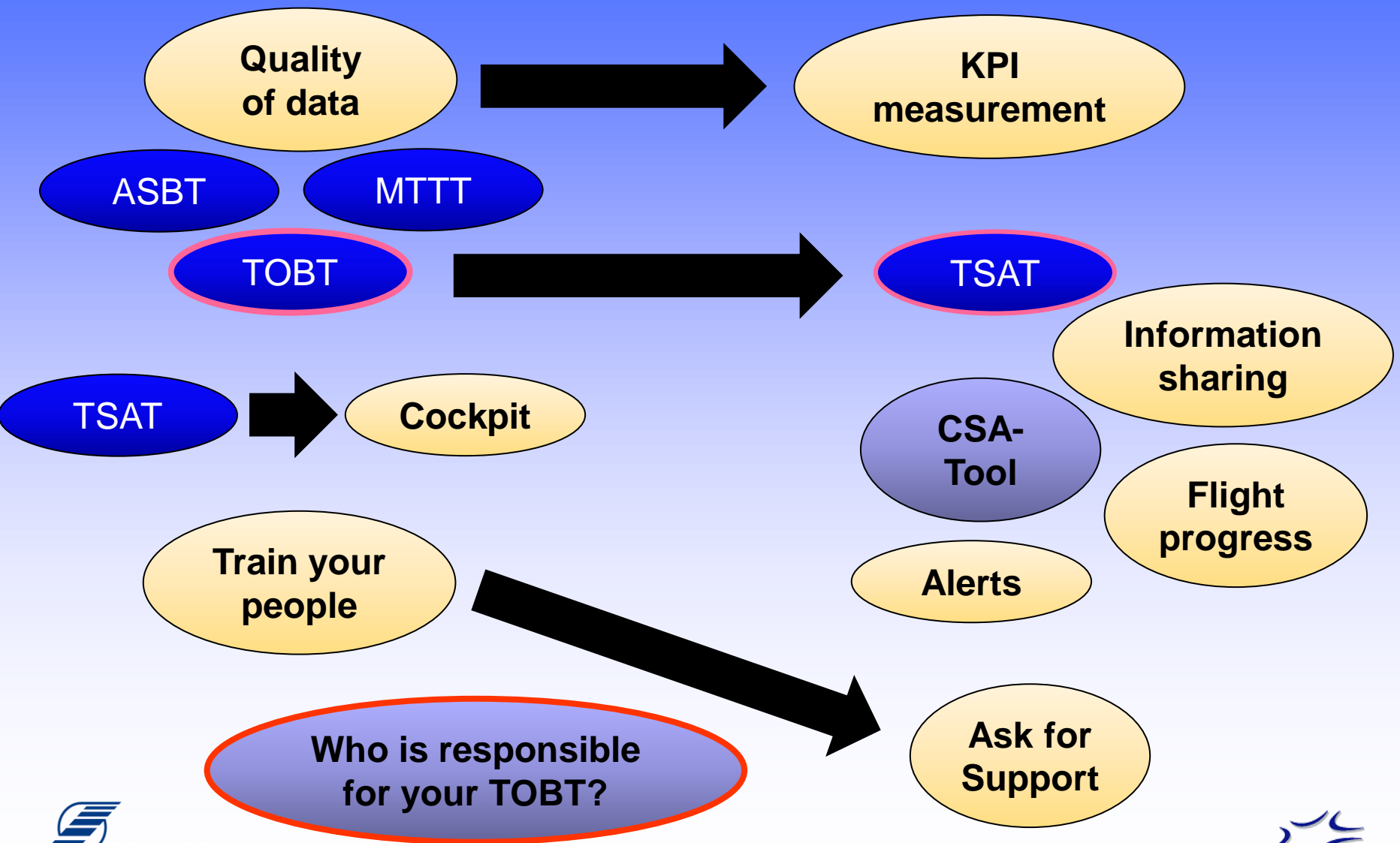


#### *Remote-Deicing on pad*



**We need from you!**

**We offer you!**



# Thank You for Your Attention

