



AEROTHAI Aeronautical Radio of Thailand

บริษัท วิทยุการบินแห่งประเทศไทย จำกัด

ATFM Operations in FF-ICE/R1 Environment

*ICAO APAC FF-ICE Ad-Hoc Group
Workshop & TTX*

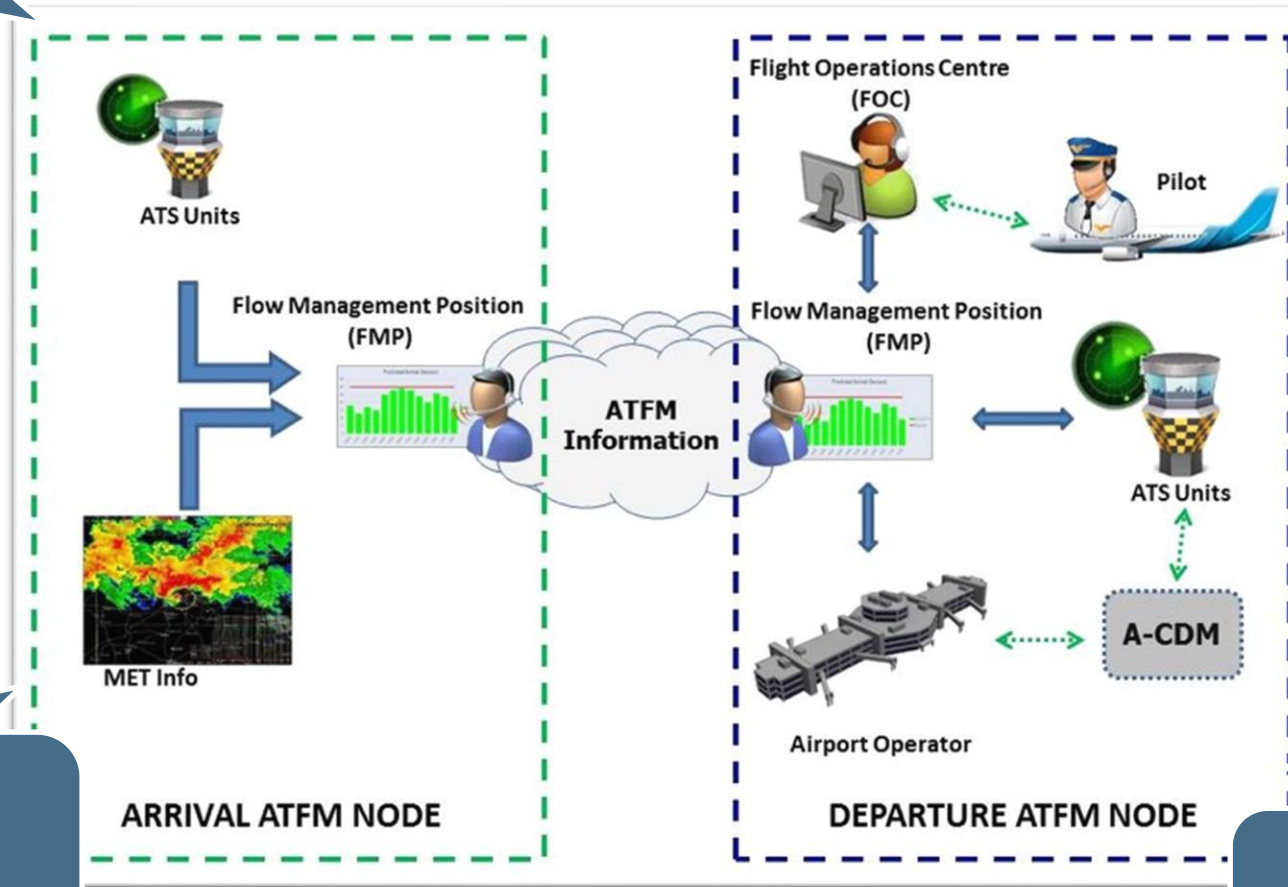


- Refresher: APAC ATFM Today
- ATFM Operational Scenarios
 - GDP Process *Today*
 - GDP Process *with FF-ICE/R1*
- Open Questions

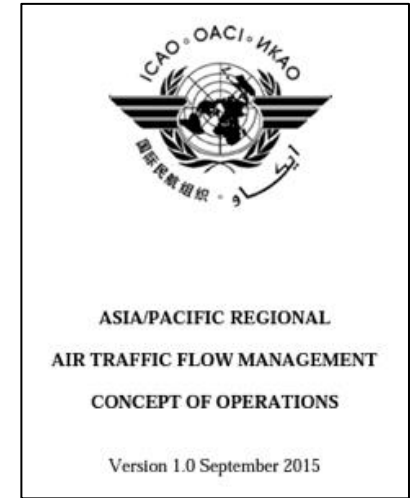


The Distributed Multi-Nodal ATFM Network Concept

No centralized
ATFM center

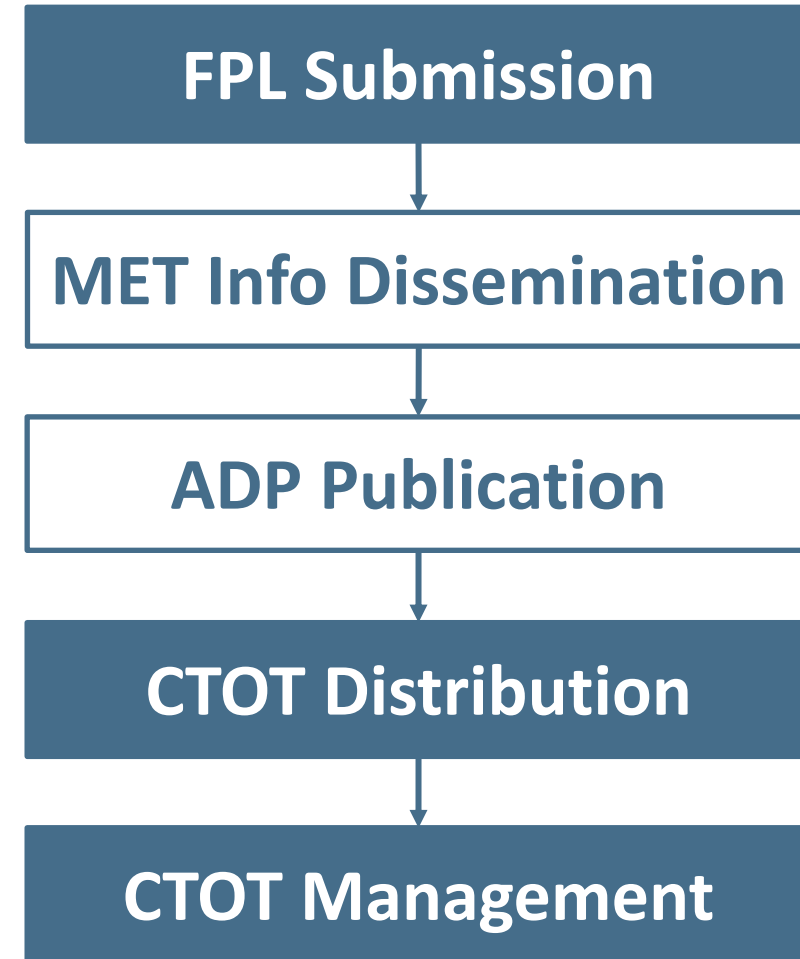
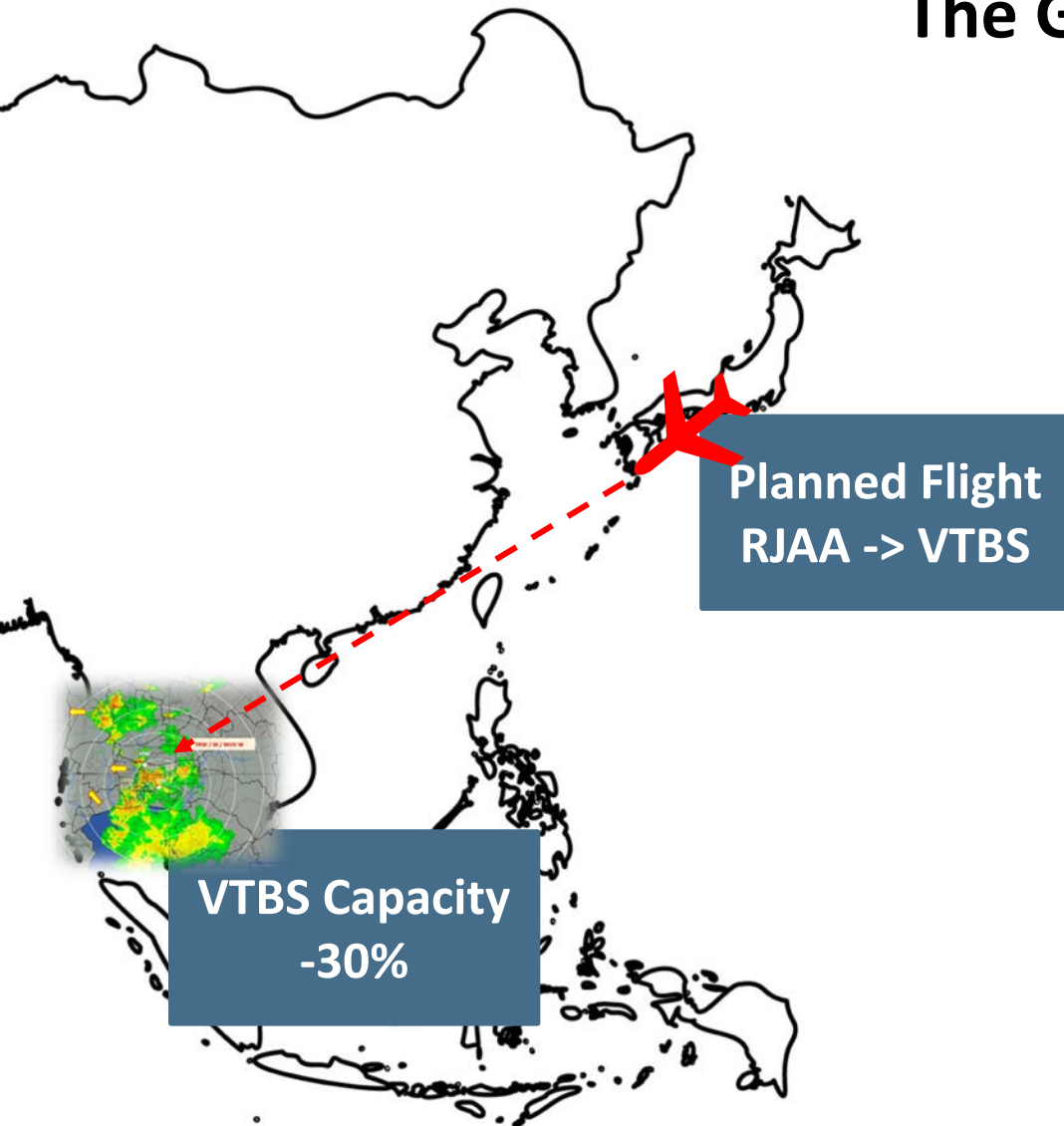


Efficient and
standardized info
exchange



Common Operating
Procedure (COP)

The Ground Delay Program (GDP) Process “Today”

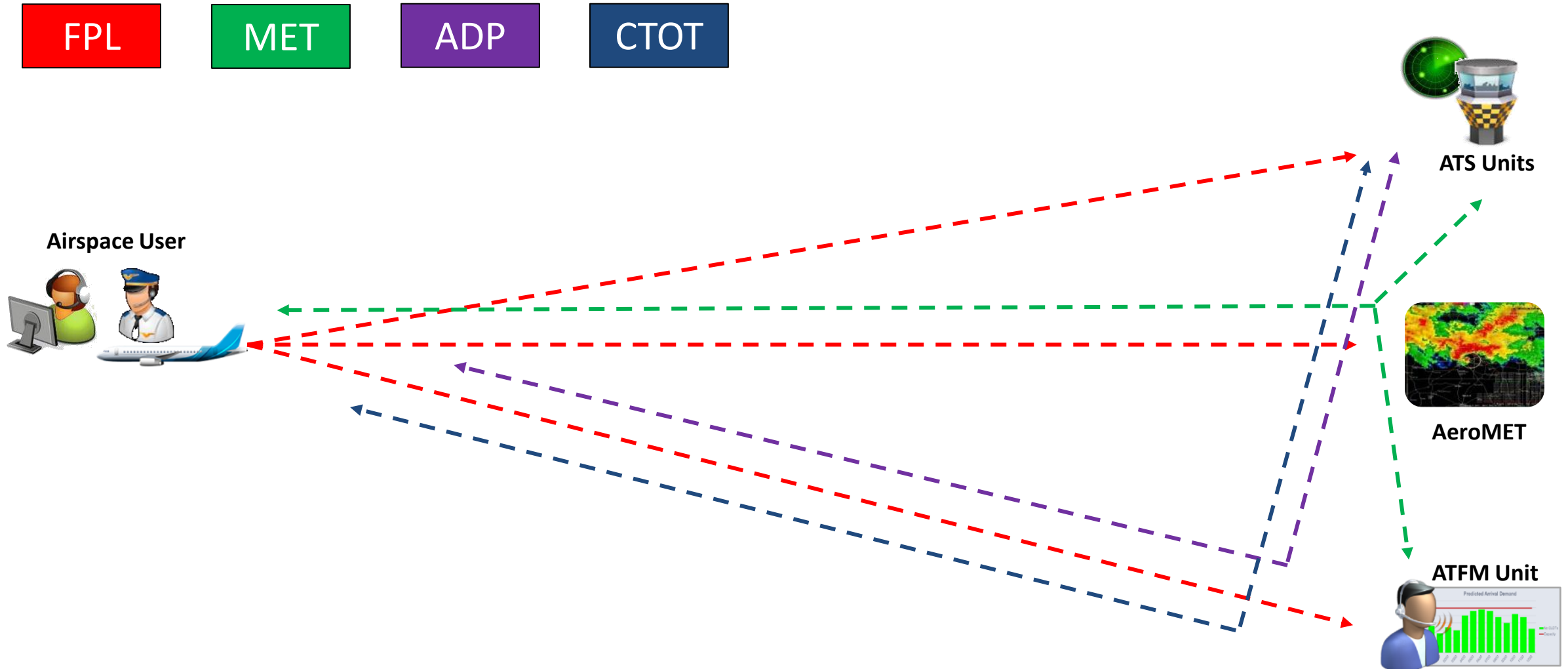




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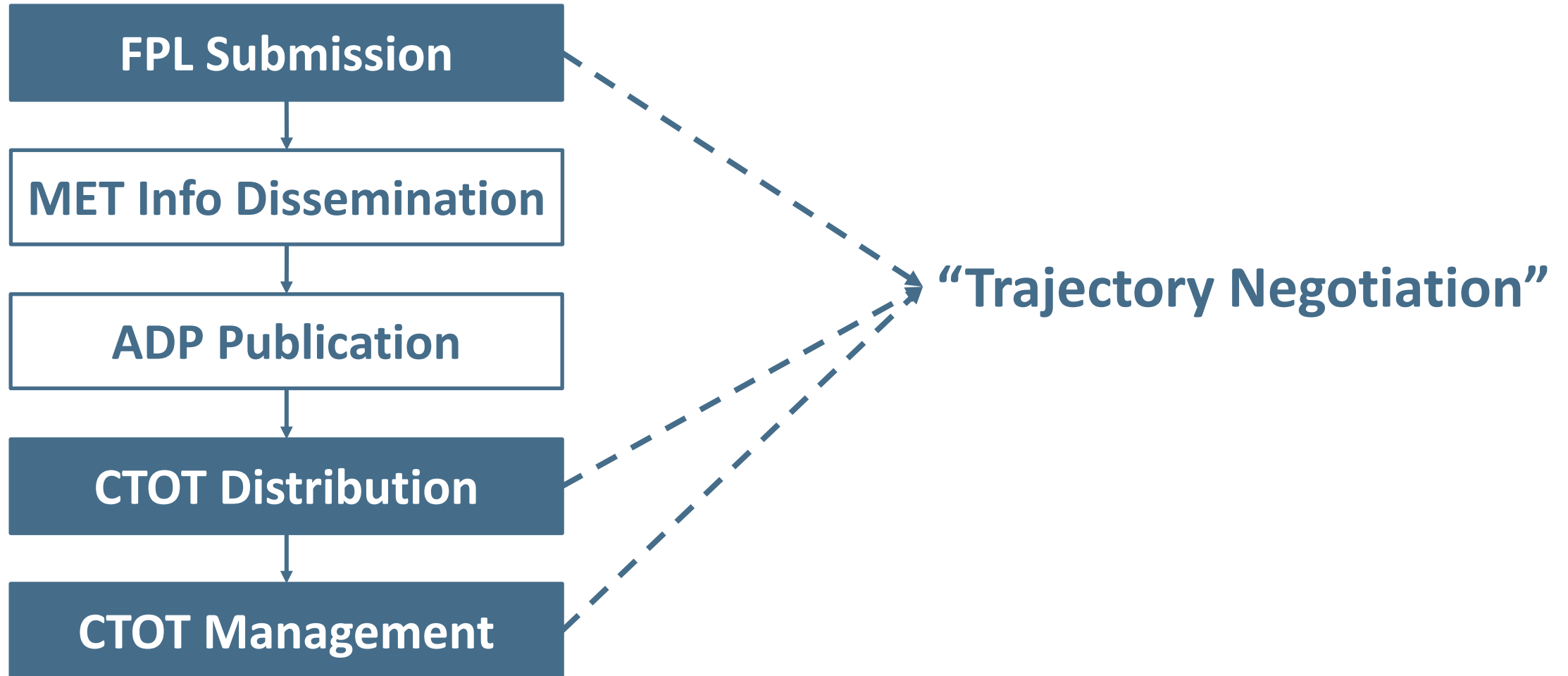
ATFM Operational Scenario

The Ground Delay Program (GDP) Process “Today”



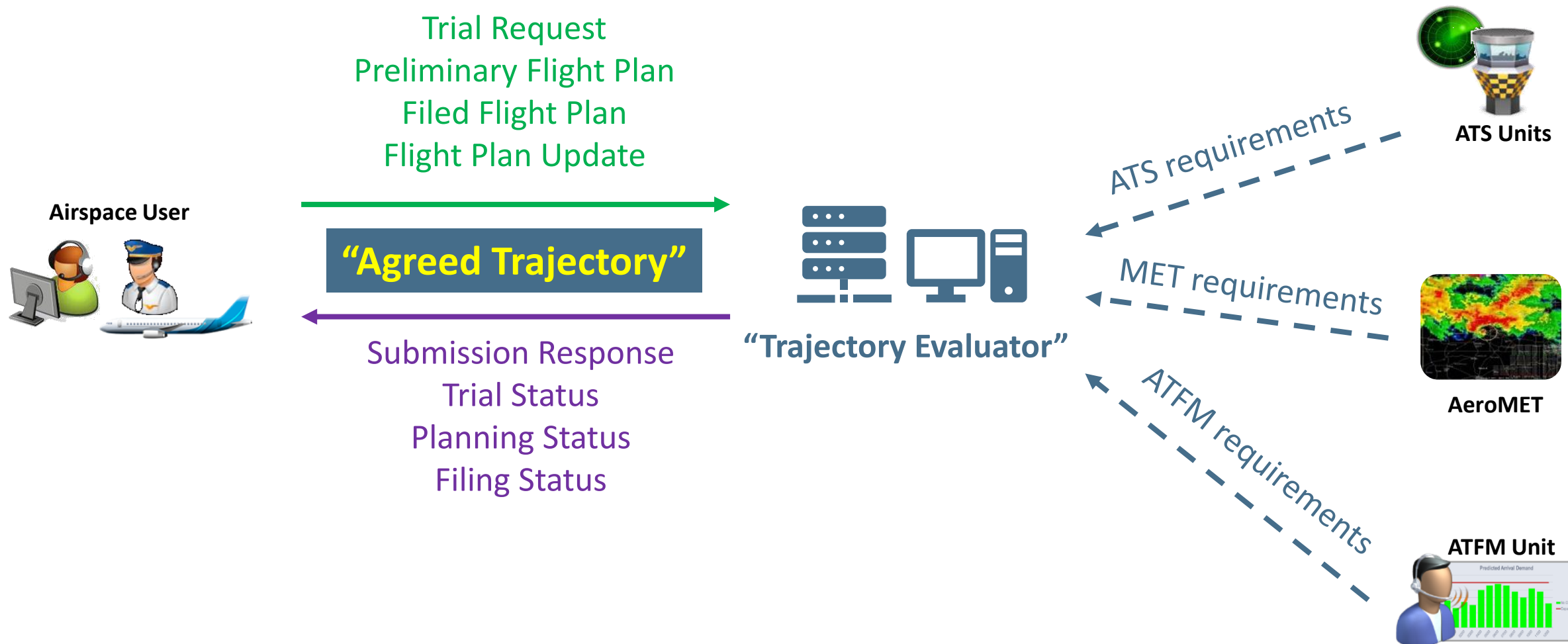


The Ground Delay Program (GDP) Process **with FF-ICE/R1**





FF-ICE/R1 Trajectory Negotiation Scenario: a Paradigm Shift



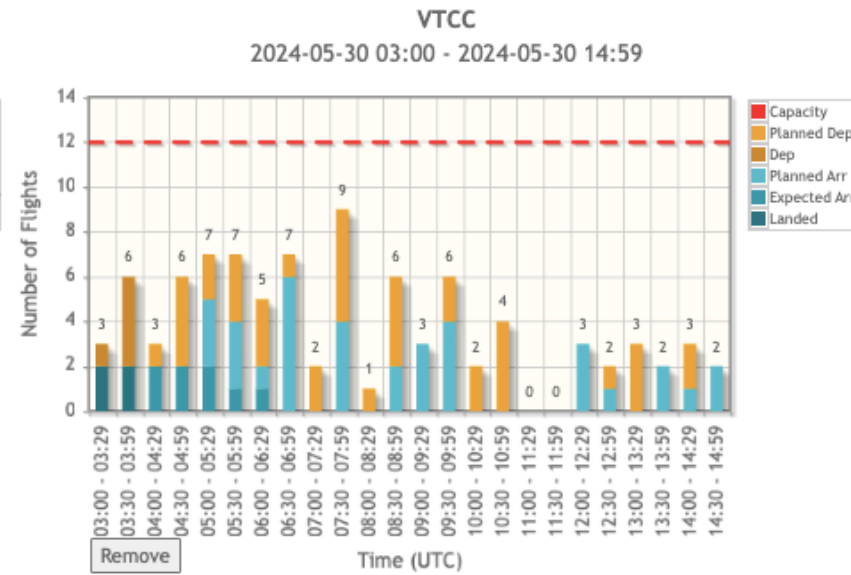
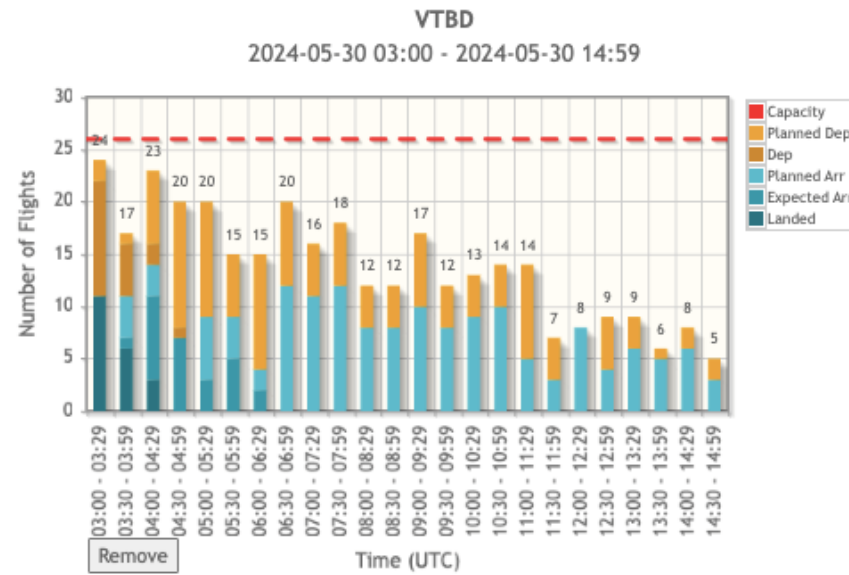
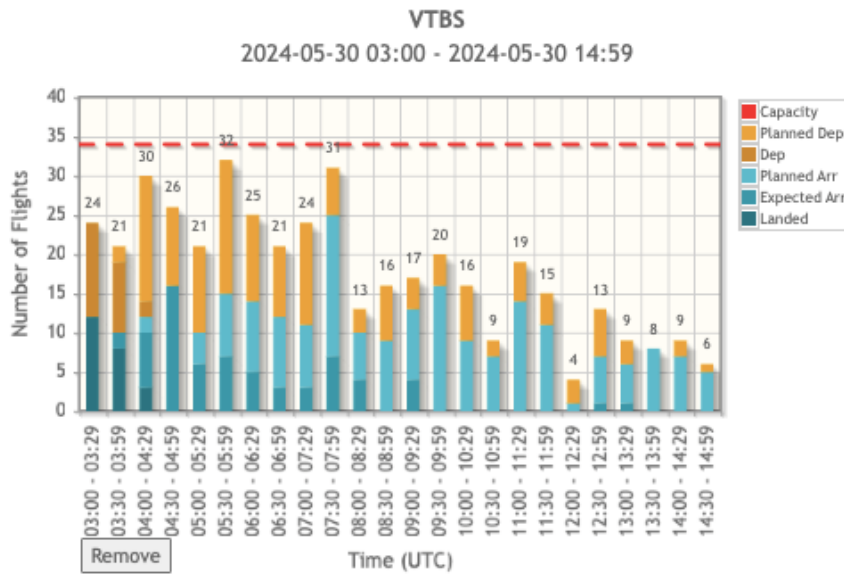
Some Open Questions Though...



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Home Strategic Pre-Tactical GDP Flow-TC Tac-Sup Reports RTOT Dataset bkkatfmu

Airport: VTSS Period: 12 hours Interval: 30 minutes Movement Type: ☒ Departure ☒ Arrival Capacity/Hour: 11 Flight Status: ☒ Show Add



How do we elaborate the “ATFM requirements”?

CTOT information from Bangkok ATFMU

Airport	VTBS
Begin Restriction	2024-05-30 07:30 UTC
End Restriction	2024-05-30 08:00 UTC
End Recovery	2024-05-30 09:00 UTC
Comment	DUE TO TFC CONGESTION . CTOT WINDOW -5/+10.

Will “conventional” ATFM measures
e.g. CTOTs still make sense?

Due to capacity constraints as per details above, ground delay program is implemented for flights operating into the constrained resources. The following table shows affected flights and associated CTOTs.

☒ All flights

☐ ACID ☐ ADEP ☐ ADES

values separated by comma (,)

Search

Acknowledge

No.	ACID	ADEP	ADES	EOBT (FPL)	CTOT	CTO	CLDT	CONSTRAINT
1	THA917	EGLL	VTBS	29 / 20:25	29 / 20:42		30 / 08:08	VTBS
2	ELY081	LLBG	VTBS	29 / 20:15	29 / 20:49		30 / 08:01	VTBS
3	EVA068	EGLL	VTBS	29 / 20:35	29 / 21:09		30 / 08:27	VTBS
4	AUA25	LOWW	VTBS	29 / 21:35	29 / 21:50		30 / 07:36	VTBS
5	THY68	LTFM	VTBS	29 / 22:35	29 / 22:58		30 / 07:59	VTBS
6	RJA182	OJAI	VTBS	29 / 23:35	30 / 00:13		30 / 08:30	VTBS
7	THA484	YPPH	VTBS	30 / 01:20	30 / 01:46		30 / 08:25	VTBS
8	THA641	RJAA	VTBS	30 / 01:50	30 / 01:51		30 / 07:31	VTBS



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Some Open Questions Though...

**What will be the roles &
skill sets of the
ATFM Unit officers?**

(or is it FF-ICE service unit?)





How do we deal
with multiple
conflicting ATFM
requirements?





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...and that's why we need a Tabletop Exercise...

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