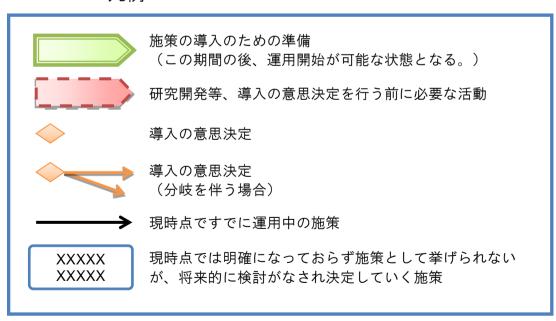
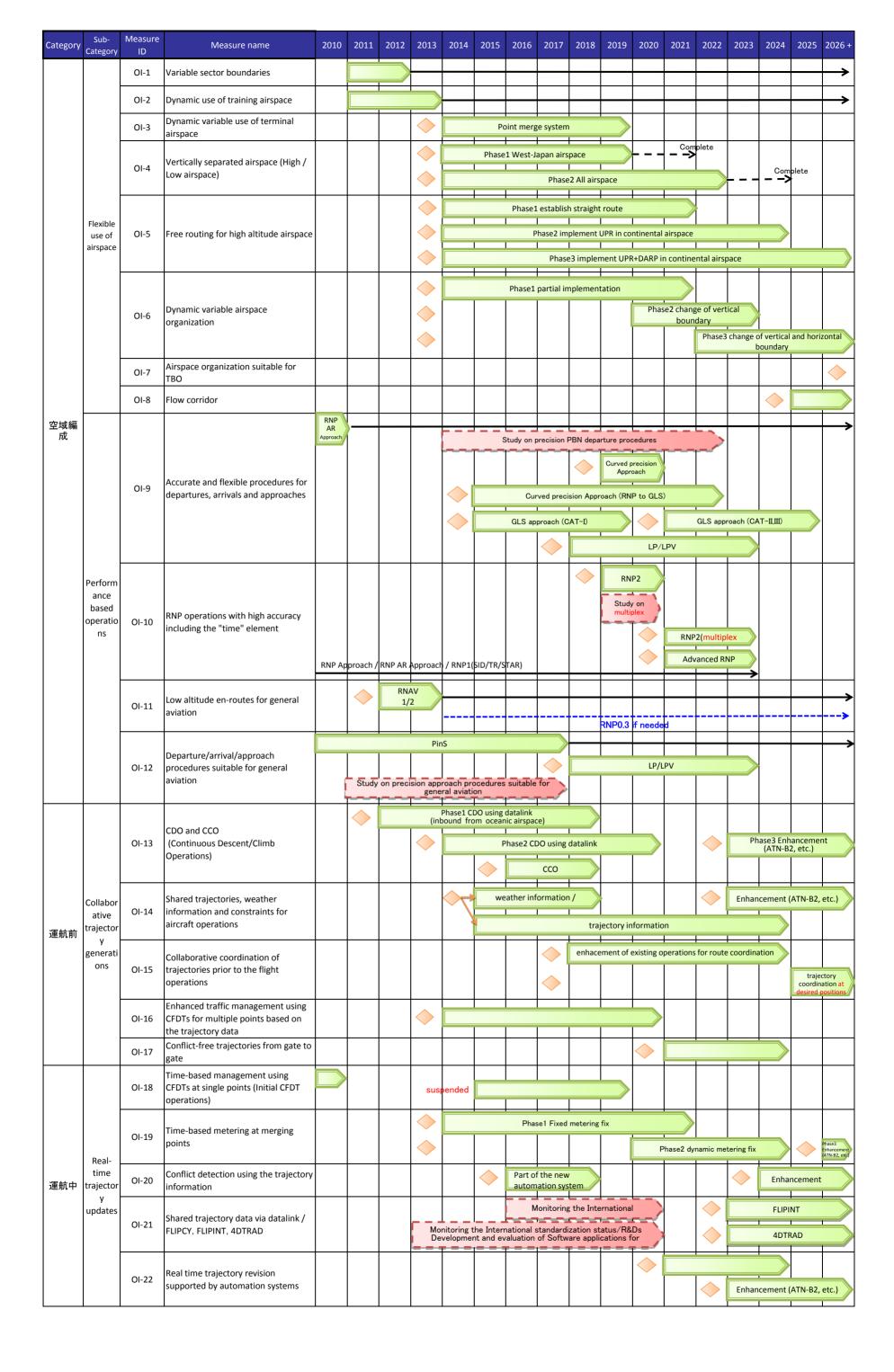
## CARATS Roadmap (As of March 2018)

## 凡例





Category	Sub-	Measure	Measure name	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026 +
運航中中	Category	ID			DMAN	/SMAN (S	TEP1)													
		OI-23-1	Improved efficiency of aerodrome operations (AMAN/DMAN/SMAN)			(T-ATM)								$\Diamond$						Integr
								$\Diamond$		AMAN(	STEP1)					AMAN(S	STEP2)			ation
	High density operatio ns					nation sh (T-ATM)	aring													<b>→</b>
		OI-23-2	Air port CDM (A-CDM)					$\Diamond$		Deployr	nent for			$\Diamond$		Deploym	nent for			
																Enhanc	ement			
		OI-24	Improved airport facilities to enhance																	
			throughput of aerodrome Improved throughput for close																	
		OI-25	parallel runways												$\Diamond$					
		OI-26	Reduced wake turbulence separation minima				$\Diamond$		Pl	hase 1, 2										
						R&Ds a	nd evalu	ations on	the tech	hniques	to mitigat	e the imp	pact of w	vake turb	ulence		$\Diamond$	P	hase 3	
																	$\Diamond$	Reflecte	d wind da	ta to
		OI-27	Reduced separation minima for high density airspace (3NM for enroute)												$\Diamond$					
		OI-28	Reduced separation minima for					$\Diamond$		ADS-C	CDP									
			oceanic airspace Improved capacity of ATC using	DCL (AR	INC623)															<b></b>
		OI-29-1	datalink for routine communications / ATC departure clearance (airport) - DCL, D-TAXI									ent of DCI						DCL(ATN-	B2,etc.)	
											Monitorin	g the Inte	rnational	>		$\Diamond$	D	-TAXI(AT	N-B2,etc.	
		OI-29-2	Improved capacity of ATC using datalink for routine communications / ATC				$\Diamond$		Continer	ntal CPDI	LC (FANS-	1/A+(PO	4/M2))			$\Diamond$	Enhance	ement (A	TN-B2, et	tc.)
			clearance (enroute) - continental CPDLC Improved capacity of ATC using	D-ATIS	(ARINC6	23運用中	)									^				
		OI-29-3	datalink for routine communications / Flight information services - D-ATIS, D-OTIS, D-RVR, D-HZWX							<u> </u>								D-01	ΓIS	
						Į	Mor	nitoring th	ne Interna	ational s	tandardiz	ation sta	tus/R&D	s		$\Diamond$		D-RVR/	HZWX	
		OI-30-1	Air Separation Assistance System (ASAS) / ATSA-ITP operations			R&Ds evaluati				ATSA	A-ITP									
		OI-30-2	Air Separation Assistance System (ASAS) / ATSA-AIRB operations			R&Ds evaluati	ons on '		ATSA-	AIRB										<b>—</b>
		01-30-2	(1090ES)			ATSA- R&Ds	/_		711071											
		OI-30-4	Air Separation Assistance System (ASAS) / ATSA-VSA operations			evaluati ATSA-	ons on		ATSA											<b>→</b>
		OI-30-5	Air Separation Assistance System (ASAS) / ASPA-IM operations								Monitor (ITP/AIR impleme	ing the sta B/VSA/SU entation in	ntus of AT RF) other co	SA ountries		i i				
								R	&Ds and							$\diamond$	ASPA	A-IM		
								$\Diamond$	Utilizat	tion as A	TS supp	ort inforn	nation							
		OI-30-6	ATS operation by utilizing aircraft derived data									ation of w			Utiliz	ation of v	vind			
										in	formatio	n for ATS				1	AIS			
															R&Ds o	n CAP			Capabili	
										F	&Ds on i	mprovem	ent of tr	acking a	ccuracy		$\Diamond$		ovementing accur	
	Improved informati on services	OI-31	Enhanced information in the cockpit		Monito	oring the	Int'l		Weath	er inform	nation				Aerona	utical				<b>→</b>
						/ R&Ds	/		Traffi	c inform	ation				Tier on a					<b>→</b>
						$\Diamond$	Terra ir	ain / obst formation	acle											<b>→</b>
		OI-31-2	Improved information services on the ground							$\Diamond$		In	npllemen	tation of	FOD (fo	reign obj	ect debri	s) finder		
		OI-32	Improved information services for aircraft operators		Monit	oring the	Internat	tional star R&Ds	ndardizat	tion stati	us /		Pro	ovided ef to	fective i	nformations	on			
運航後	Sharing		Sharing and utilizing safety related information	Imp (St	lement S ate Safe	SP ty														<b>→</b>
	and utilizing safety related	OI-33		(30			accumu analysis	/evalua												
							of acc saf	on quired							Study o			Real ti	me risk	$\rightarrow$
	informa tion														time ris manage	4			gement	
-			•				•	•	•		•			•	•	•				

