"JR-West Group Medium-Term Management Plan 2017" Overview of Major Initiatives [Safety]

Legend

Black text: Projects indicated at previous update (May 2, 2016)

As of May 8, 2017

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	ed text: Projects added since previous update (May 2, 2016) *Timing has not yet been determined									
			FY2014.3	FY2015.3	FY2016.3	FY2017.3	FY2018.3	FY2019.3~		
	Investment in	Strengthen track facilities (prolongation of rail length with welding , etc.)		ilities, we are strengthenir prestressed concrete ties,		g from standard-length ra ridges.	als to continuous welded a	ails,		
	maintenance to sustain and enhance the functions of	Maintain safety and increase durability of Sanyo Shinkansen structures	To secure safe, reliable tr countermeasures, such as		e Sanyo Shinkansen, we	will evaluate expected futu	re risks that could affect	structures and implement		
	existing facilities	Complete replacement of Sanyo Shinkansen ATC system: "New ATC"		we will strive to improve racteristics of the rolling		ioning to systems utilizing	a smooth brake control r pring 2017: Transition to r			
		On-board oriented train control system (ground coil) "New Safety System"	the Sanyo Line (Shiraichi- Sasayamaguchi) and Toka	Iwakuni) in the Hiroshima ido/Sanyo Line (Maibara–H d introduction	area. We continue to cons (amigori) in the Kansai Ur	ider the possibility of install	ing this system on the Fuk	top-light violation or preventing te introduction of this system on uchiyama Line (Amagasaki– ♥ Spring 2019: Commence usage in Hiroshima area		
		Train abnormality detection system	(TE device) and implemen stop signal.	an emergency stop of the	train. In addition, it preven	which the shock of a derailm ts concomitant accidents by radually expanded introduc	stopping nearby trains the	the one touch operative emergency device ough the transmission of an emergency		
		Automatic platform gates (rope style)	We plan to install these ga numbers of doors or statio ▼Comn	tes in stations where it is di as where trains stop in diffe ▼Con henced operating tests	ficult to install conventior rent locations. nmenced operating tests a Approved practical appl	al movable platform gates, at Rokkomichi Station ication and continued use	such as stations that handle	a variety of trains with different		
				kurajima Station		Mar. 2016: Installed in T	´			
Safety		Movable platform gates		install movable platform ber of doors and that are	used by more than 100,00	serviced by trains 0 people each day. ▼F Mar. 2016: Installed on 7	(Katamachi Lin Track 1of Kyobashi Statio Apr. 2017: Installed on	Systematically increase thereafter 2 of Kyobashi Station e) h (Katamachi Line) Frack 6 of Osaka Station n Track 7 of Osaka Station		
	Investment to realize higher levels of safety	Earthquake/tsunami countermeasures	Measures will be implement and to facilitate more rapid	nted to increase the earthqu evacuation guidance in th			ed express Kuroshio with	tsunami evacuation leaflet		
	· · ·	Shinkansen derailment prevention measures	We plan to complete these Shin-Osaka—Himeji) Cur earthquakes and for knowr	ently, we plan to prepare a	he sectors that have the hig part of the Himeji—Hakat	hest priority in consideration a segment by FY2023.3, w	on of the likelihood of earth ith consideration for the po	quakes, etc. (First priority sector: ssibility of derailment due to		
			the train and the employe	e at the work site who wa	tches for oncoming trains on to crew members and o	g trains, such as in the ev To that end, we introduce ensuring that the train stop	d equipment to support th	reakdown between the employee who stops a employees who are assigned to watch for		
		Response to intensifying natural disasters	disaster response systems	, and optimize rainy weat	her operation regulations. ▼Conduct disas in the Kyoto-(ster prevention constructio Osaka-Kobe Area(to FY2	Commence usage of meteor response system in the Kar n work on slopes 018.3)	rological disaster sai Urban Area		
		Anti-wind measures on the Kosei Line	We will work to ensure sa segments that frequently s * Reference: Already ins and Omi-Maiko–Kitakon	fe train operation and reliat uffer from operating limitat talled for Hira–Omi-Mail aatsu (Feb. 2012)	le transportation and impr ions imposed due to stron to (Dec. 2008) ▼F	▼ I	uality by extending anti-w cilities for turn back operat barriers (Shiga–Hira) ▼II nstall anti-wind barriers [↑] Wani–Shiga) in FY2017.	nd barriers to line ion istall anti-wind barriers (Omi- Vakasho–Omi-Shiotsu) in FY2018.3 ↓ ▼Spring 2019: Install facilities for turn back operation (Wani)		
		Wind resilience measures on the Hokuriku Line				ly suffer from operating 1 ▼Nov. 2015: Instal	mitations imposed due to	wa-Bashi Bridge (Komaiko–Mikawa),		

[Customer Satisfaction, Technologies, Shinkansen]

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Customer Satisfaction	Grasp customer expectations and work to meet diverse needs	Improvement of quality of facilities used by customers	We are enhancing the gu information available on	idance tools available to p Company website, station Plan to renovate and l	provide information regard displays, etc.). peautify customer restroor	<i>.</i>		ices to provide information on train travel	
		On-board oriented train control system (wireless)	maintenance operations;		es, we will complete deve	lopment of the on-board	priented train control syst	ed operations; of saving labor in em (wireless) during the period of the entation.	
		Battery-powered trains		cing energy consumption, c lementation during the nex		ent Plan.	e intend to produce test tra ▼Commence performanc		
	Railway operations system change	Meteorological disaster response systems		eteorological disaster resp imposed and shorten time		17 3)	nan error risks when 🛛 🖣 Begin usage in Kansai U	Scheduled to complete installation at major line segments in the Kansai Urban Area rban Area	
Technologies		Transition from ground- based inspections to on- board inspections		of facility aging processe	es to contribute to the deve ing equipment specification	lopment of more optimal	maintenance plans.	educe labor requirements, and we will Spring 2019: Commence usage on certain conventional lines▼	
		Simplification of railway equipment		railway equipment, we w safety and reliability alon			eworks and thereby creat	e a railway system	
	Gauge change trains	Technical development of gauge change trains		ut these trains into practic tion.		a technical survey of Ho		es with the objective of increasing s and advance development ventures est Line	
		Introduction of N700A new model	will be gradually increas functions of the N700A ▼Modifi ▼Intro	ed thereafter. In addition,	to realize safer, more-relia rolling_stock (3 sets in FY olling_stock	able transportation, we wi 2014.3, 8 sets in FY2015	l modificate N700 series .3, 5 sets in FY2016.3)	introduce four in FY2017.3. Such trains rolling stock to incorporate some of the FY2020.3)	
		Enhance on-board communications environment (expand area in which mobile phones can be used)		V	Mar. 2015: Expanded are ▼Dec. 20	15: Started service betwe	en Kokura and Hakata Start service on all routes	in FY2017.3	
Shinkansen	Sanyo	Measures to respond to competition from airlines	Launched "Super Haya- (Okayama/Hiroshima-K	s of airline companies, we toku" early discount ticke (umamoto/Kagoshima-Ch inched "Waka-toku Haya	ts (Shin-Osaka/Shin-Kobe uo)	–Kokura/Hakata/Kumam	oto/Kagoshima-Chuo/Na	gasaki/Oita)	
″Enhance″	Shinkansen .	Increase convenience of "e5489""EX reservation" Internet reservations		with the needs of customer Mar. 2017:	"e5489" renovation (expa of discount tickets, exten 017: Commenced cash set	▼Feb. 2 nded handling sion of operating hours)	017: Began providing offi	cial smartphone app for Express Reservation : Introduce new ticketless service "Smart EX" on Tokaido/Sanyo Shinkansen	
		Encourage the use of Kodama		al of the 500 series and ot ed 4-seat rows for reserve ▼Outfitted 50	ed seats on 500 series ▼500 TYF	EVA (collaboration wi e play space for children (
		Services for senior customers	We are providing discou		menced new "Otonabi" m		nior citizens, and began pr	oviding attractive discounted	

"JR-West Group Medium-Term Management Plan 2017" Overview of Major Initiatives [Kansai Urban Area]

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			FY2014.3	FY2015.3	FY2016.3	FY2017.3	FY2018.3	FY2019.3~			
		New rolling stock (Osaka Loop Line, etc.)	We are improving transpo	tation quality by implemen	er e , ,	Introduce 24 new rolling s ▼Introduce 122 new rolli	stock on JR Kyoto, Kobe I				
	Enhance the Osaka Loop Line, etc.	Increase the appeal of spaces under elevated tracks and around stations	▼VIERRA morinor	opment of spaces inside st niya VIERRA tamatsukuri	ations and under elevated ▼Morinomiya	d tracks ▼Momodani					
		Station beautification /	Morinomiya Station is the business development.	e first in a series of station	ns at which we will cond	uct beautification and impr	ovement measures in con	junction with			
		improvement	We will renovate restroc	oms at almost all Osaka Lo	oop Line stations by the e	end of FY2017.3.					
	Next- generation network	Promote construction of Osaka Higashi Line (Northern part)						▼Opening Mar.2019			
		Promote new underground station project accompanying Umekita development	In Apr. 2011, decision w	as made about urban plann ▼F	ing project. The project eb. 2015: Commenced pr	ry 2015 (scheduled to ope	n in spring 2023).				
Kansaiurban area ″Improve″	New stations Over-track stations Station improvement	Opening new stations			▼M	ar. 2016: Maya Higashi-Himeji Spring 2	▼S _F 2019: JR Shichijo (provisi	ring 2018 JR Sojiji (provisional name) Kizuri (provisional name) onal name) ▼			
		Building over-track stations		u Kishibe Phase II 3: Settsu-Motoyama		▼Dec. 201	▼Summer 2	017: Zeze 017: Azuchi			
		Station improvement	▼June 2013: Tennoji ▼Aug. 2013: San	▼Nov 20		l daycare center to Otsu Sta Aar. 2016: Takatsuki	ation	Spring 2018: Ibaraki			
	Others	Expansion of IC card area		ec. 2016: Kisei Main Line trains stop, San-	▼Aug. 2015: k	Harima-Shin ations where express umoshi), Hakubi Line	Kainan) e (Hioka–Nishiwakishi), gu), Bantan Line (Kyoguc ▼Apr. 2017: Hokuriku M Johana Lin Mar. 2017: "e5489" serv (expansion of	Spring 2018: Kusatsu Line (Konan–Tsuge) Kishin Line (Harima-Takaoka– hi–Teramae) Iain Line (Daishoji–Kanazawa), e (Shin-Takaoka)			
		Kyoto Railway Museum	▼Dec. 20	13 Decided name and log ▼Feb. 2		▼Apr. 2016: Opening Connect Everyone in Kyoto	-Umekoji"				

"JR-West Group Medium-Term Management Plan 2017" Overview of Major Initiatives [Western Japan Area]

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			FY2014.3	FY2015.3	FY2016.3	FY2017.3	FY2018.3	FY2019.3~	
		New rolling stock (introduction of 227 series rolling stock)		ged rolling stock inherited	ystem in the Hiroshima are from Japanese National Ra Mar. 2015: Commenced o	ailway (JNR).	lling stock by the end of	FY2019.3)	
	Enhance the Hiroshima area city network	New station (Shin-Hakushima)			Iar. 2015: Opening				
	and leverage the	New station (Jike)				▼:	Spring 2017: Opening		
	characteristics of the	Kabe Line extension	-			▼	Spring 2017: Opening		
	Hiroshima station area as a terminal	Transition to over-track station in Hiroshima, Eki-Naka (in-station) development					▼Oct. 20	17: Opening (Steadily start business in stations through spring 2019)	
	station	Relocation of Hiroshima General Hospital of West Japan Railway Company to new building			▼Ja	n. 2016: Relocated to new ▼Apr. 2016: Established			
		Destination Campaign (travel campaign)	▼Summer 2013: Hiros	shima Destination Campaig	n				
	Building over- track stations and station improvement	Building over-track stations			▼Apr. 2015: Bitchu-Takah Fokuyama	eb. 2016: Hatsukaichi ashi ▼ Shin-Yamaguchi	Spring 2017: Onoura ▼S	pring 2018: Iwakuni	
Western		Station improvement	▼N	larch 2014: Opening of Shi	monoseki open promenade	, station building			
Japan Area ″Invigorate″		Introduction of Twilight Express Mizukaze	We are preparing operatin	g a new sleeper train to ma	ke railway travel in the We	stern Japan area more enjo	yable. ▼June 2017: Comn	nence operation	
		Production of new passenger cars for SL Yamaguchi (retro passenger cars)	We will begin producing	new passenger cars base -	d on old model-car for the	SL Yamaguchi.	▼Sept. 2017	Commence operation	
		Massive SL repair initiative (return of D51 to main lines)	A massive repair initiativ	e will be undertaken to b	ring the JNR Class D51 b			operation after FY2018.3	
	Others	Improvement of Thunderbird limited express	We will refurbish rolling at stations serviced by the			(complete the introducti	on of 99 sets by FY2017.3		
	Others	service quality	take steps to improve trai		▼Install	Western-style toilets at se ▼It	rviced stations (Sabae, Ta crease number of departu	kefu, etc.) e time displays at serviced stations	
		Introduction of CTC in Okayama area				▼May 2016: Start use			
		Destination Campaigns	<u>▼Fall 2</u> 013: P	re-Wakayama Destination ▼Fall_2014 W	akayama Destination Car	▼Spring 2016: Okayama npaign -Okayama Destination C	<u>▼Fall</u> 2017: \	Yamaguchi Destination Campaign ▼Summer 2018: San-in Destination Campaign	
		(travel campaigns)					Pre-Yamaguchi Destinati	on Campaign	
					40000		▼Spring 2017 After-Ok	ayama Destination Campaign	

"JR-West Group Medium-Term Management Plan 2017" Overview of Major Initiatives [Business Development]]

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		I	FY2014.3	FY2015.3	FY2016.3	FY2017.3	FY2018.3	FY2019.3~
	,I	Conversion of stores to Seven- Eleven Japan franchised stores				employ the franchised sto	re model, and also establis	shing new franchised stores.
	Strengthen products, services, and operating capabilities	Development and renewal inside stations, etc.	▼Fuk		-		Kanazawa, etc.) ▼T	II in Dec. 2015) Iennnoji (east exit) ▼Onomichi baraki
		Shopping center renewal, etc.	(Sumiyoshi) ♥Po ♥Th ♥Sha ♥arde! S	he CUBE (Kyoto)	▼N Foya Marche ▼Sun Station Terrace Ku Kanazawa 100bangai Rin c. 2013, phase II in June 2 bangai Anto	to ▼Tennoji MI 2014, phase III in June 20	a MIO aka ▼LUCUA O	
	, I	High-class accommodation-oriented hotels/ Accommodation-oriented budget hotels	▼Nagoya	▼Asakusa, Shinsaibas	hi, Hiroshima		▼Abeno Tennoji ▼Umeda	▼Umeda Kyoto (2 hotels)▼ ▼Shin-Osaka, Nagoya ▼Iidabashi
Business Development "Develop"	Actively develop businesses in cities outside our railways	Real estate development /leasing operations	Urawa Tokiwa The Residence ▼ J.GRAN SHIN-NAGA J.GRAN SENRI-CHUC J.GRAN ABENO FUM J.GRAN GARDEN KIT	TA, O IINOSATO,	J.GRAN SENRIOKA ▼J.GRAN L S ▼Kyoto Katsu phase III in N	AKAI ▼I ragawa Tsumugi no Macl Aarch 2017) Maya City COMFORT &	VMei DELIGHT ▼Sa VHa GRAN GARDEN IBARA ▼J.GRAN THE HONC ▼J.GRAN Koshiengg ▼INITIA BRAN Sur ▼DIAESTA MIO T ▼DIAESTA MIO T ▼Kac ▼FIN	ashi ▼Akashi VARA ▼Shimamoto ▼Yokohama ASHISUJI 6-CHOME hase II in March 2016, ekiminami, Nagoya city kae, Nagoya city achobori, Hiroshima city KI PR Shimogamo Tadasunomori uchi RESIDENCE ninoekoen
	[]	Shopping centers				▼Katayama, Suita city (S	SUITA GREEN PLACE)	
	Participate in projects around major stations	Real estate development /leasing operations				Fsukaguchi (station buildii (A area: Mar. 2016, B area: M		▼Area in front of Kishibe Station
	Make full use of land and other assets	Major stations	▼Himeji (station building ▼Sannnomiya (▼S	g) ▼Hirosh station inside) himonoseki (station buildi	ima (area above the track	, 	nder elevated tracks) ekie	▼Sannnomiya (station building) ▼Hiroshima (station building)
		Development projects at stations, surrounding areas, and former company housing sites	▼Nada ▼Okay	▼Katayama, Suita city (▼Hirooka, Kanazawa ▼Yon ama (home center)	▼Koshienguchi	▼Fukui (hotel) ▼Hirool ▼Okayama (serviced re	ukainada (supermarket) ▼Takatsuki ca, Kanazawa city (clinic, ntal housing for seniors) nami (discount store)	

"JR-West Group Medium-Term Management Plan 2017" Overview of Major Initiatives [Business Development2]

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Į			FY2014.3	FY2015.3	FY2016.3	FY2017.3	FY2018.3	FY2019.3~		
	Improve appeal by combining	Revision of function allocation in commercial zones			▼LUCUA 1100 ▼Matsue			▼Kyoto Station		
	existing businesses	Select and concentrate management resources	▼Reorganized Grou	ip companies (realestate, ▼Transferred	San-in area) d the golf business ▼Reorganized Group co	mpanies (Osaka area shoj				
		Business alliances, etc., to enhance market competitiveness			▼Acquisiti	▼Est	ya Coffee neya Coffee equisition of shares in Rya ablishment of West Japar Acquisition of shares in I	Railway First Cabin		
		Development of new businesses in lifestyle- related service fields	▼In-station dispensing p▼Car-sharing directly co		ensing pharmacies (Shin-O	n-station dispensing phar Dsaka, Amagasaki) 🔻		macies (Momodani, Takatsuki)		
Business Development "Develop"		Health-related service business (rehabilitation service business)	▼Hiroshima, Mihar		ma, Amagasaki ▼7 ▼Awaji ▼Suminoe	akatsukinishi ▼Teppoch ▼Sakaihigashi, Niigata	o, Sakai city city ▼Otagawa, Kagiya (▼Kobe Chuo	Aichi)		
	Take on the challenge of new business fields	Agriculture-related businesses		▼Acquired capital in Far ▼Established	m Alliance Management business alliance with SH	INMEI Holding				
	lielus	Food-related businesses			al in Gomangoku Chisatos business alliance with Gl		vestment in Gomangoku (Chisatosanso		
		Overseas Initiatives				2015: Investment in urba (Guarana Urban M	n passenger railway busin obility Incorporated)	ess in Brazil		
		Others	▼Com custor	nenced Internet sales targ ners (JAPAN SQUARE) ♥I	eting overseas ▼S Photovoltaic power genera	▼Establish ▼Bega	ment of JR-West Innovat n studying oyster aquacul ommercialization of mack			

"JR-West Group Medium-Term Management Plan 2017" Overview of Major Initiatives [Key Growth Themes]

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	Safe and reliable transportation	New rolling stock	Opened Kanazawa segm	ent of the Hokuriku Shink	ansen in March 2015, and		-			
		Increase convenience of "e5489" Internet reservations	Enhance functions in line	with the needs of custor	ners '''e-kippu''''e Haya-tokul'		Mar. 2017: "e5489" serv (extension of discount tickets	ce renewal operating hours, etc.)		
Hokuriku Shinkansen and invigoration of Hokuriku region	Increasing mobility between Hokuriku region	Destination Campaigns (travel campaigns)		▼ <u>Fall 2</u> 014: Pre	-Hokuriku Destination Ca ▼Fall_2015:	mpaign <u>▼A</u> utumn 20 Hokuriku Destination Ca	16: After-Hokuriku DC (' mpaign	'Japan's Beauty Is in Hokuriku)		
	and Tokyo and invigoration of the region	Introduction of Hanayomenoren sightseeing train on Nanao Line	We introduced this train	on the Nanao Line (Kana	zawa–Wakuraonsen) in co ▼Oct. 2015	njunction with the Hokur	ku Destination Campaigr	-		
		New concept train on Johana Line and Himi Line	the Hokuriku Destination	Campaign.	name: berumonta)" on the ▼Oct. 2015					
	Enhance product lineups	Enhancement of lineup of products for inbound visitors as part of arranging wide-area tourism routes	Establishment of "JAL &	▼Saiy ▼E ▼C & Haruka" package, whicl	pan area by enhancing our ukiko Discover West Japa nhance lineup of Sanyo SI reate Hokuriku Shinkanse combines JAL tickets to International Airport and	n project inkansen usage products n usage products & Enhancement of Hokur ("Osaka-Tokyo Hokur and	iku Shinkansen usage pro ku Arch Pass,"etc.) ▼Expanded products for	ducts customers from Fukuoka Airport ts for customers from regional airports		
	Improve ability to cater to needs of inbound visitors	Refinement of signs in stations, trains, and station buildings	The guidance and sales s	-	e tools of stations will be ntroduce line identification Mar. 2018: Intro	enhanced.	Established Travel Service	s at Kansai Airport Station center OSAKA in Osaka Station		
Capturing inbound tourism demand		Provision of public Wi−Fi services (stations, trains)	We are promoting free, p ▼July 2013: Made at 11 s	▼May 2014: Expand available ▼Dec. 20	ed availability from 11 sta 14: Made available on limi 1ar. 2015: Made available	ed express Haruka at Kansai Airport Station b. 2016: Start of sales of p ▼May. 2016: Change a ▼July 2016: Began c on new ▼Aug. 2016: Launa (betw	6: Expanded availability (free, public Wi-Fi servic repaid SIM cards at in-sta uthentication method ffering free public Wi-Fi Type 225 trains on the Ha hed SIM card sales on th een Shin-Osaka and Haka 016: Began offering free	from 33 stations to 34 e without password protection) tion convenience stores services mwa Line > Sanyo Shinkansen ta stations)		
		Increasing number of duty- free shops and revision of payment methods	We are increasing the nu	mber of duty-free shops a	t in-station commercial fa	cilities, and also revising	payment methods.			
		Lodging facilities development						f "Via Inn Abeno Tennnoji" ning of "Via Inn Umeda"		
	Enhance promotion	Communication of West Japan area appeal through overseas bases, etc.	We will communicate th	**	apan area through our net ▼July 2015: Estab website targeting Taiwar	ished new overseas base (jrwest-yoyo.com.tw)		ion of Facebook site		