

Hitachi IR Day 2014

June 12, 2014
Alistair Dormer

Hitachi Rail Global CEO of Hitachi, Ltd. and Executive Chairman and CEO, Hitachi Rail Europe Ltd.



Hitachi Rail Systems moved HQ & strategy function to London as of 1st April, 2014

Who am I?

Alistair Dormer, Hitachi Rail Global CEO



Alistair Dormer Hitachi Rail Global CEO

Joined Hitachi as Business Development Director, Rail

- led team to secure Class 395

2005 - 14 Managing Director/CEO Hitachi Rail Europe

- led team to secure IEP contract

2014 Hitachi Rail Global CEO

- Accelerate Globalisation of Hitachi's rail business
 - n Expand international sales operations using international networks with local know how
 - n Develop international partnerships and business models for business expansion
- ■Further development of relationship with Japanese customers/government
 - n As a "Global Player" with globally competitive technology and products, further contribute to the Japanese society



- 1. Business Overview
- 2. Market Environment
- 3. We are here
- 4. Business Policy and Growth Strategies
- 5. Business Performance Trends and Forecast
- 6. Conclusion

1-1. World class technology for global markets



Full lineup of rail systems products and services

FY2013

Revenues: 168.2 billion yen

(Overseas revenue ratio: 35% raising

to 53% (FY2015))

Operating income ratio: 4.5%

EBIT* ratio: 3.9 %

Employees: 2,890

Transport management & control systems 39%

Signalling/traffic management systems

Signalling/train control systems







Traffic management systems/ power management systems



Computerised-



Power supply systems



interlocking



Platform gates





Rolling stock systems 61%

Rolling stock/maintenance

High-speed trains





Commuter trains







Maintenance



Electrical components

Main circuit/ main motor

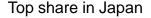






Air conditioning/ air-moving systems







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2-1. Targeting a growing global market



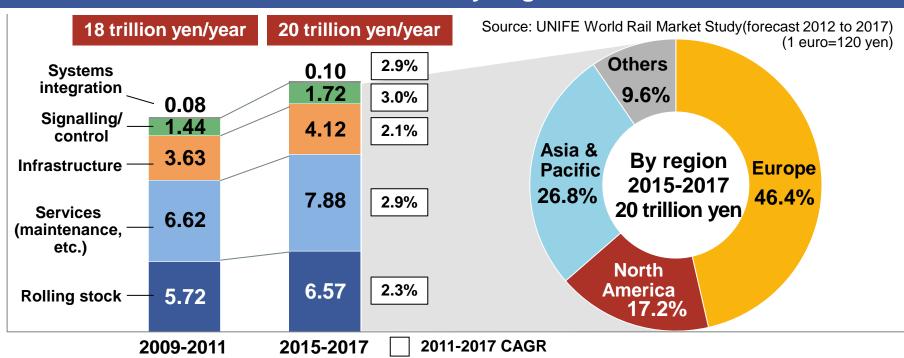
Overall rail market: 20 trillion yen/year with stable growth

- n Firm Japanese market, highly competitive
- n Expansion of UK renewal market; EMUs, ETCS, CBTC, traffic management
- n Chinese market is recovering
- n Strong potential demand of metro (turnkey) in emerging countries (procurement processes still immature)

EMU: Electric Multiple Unit

ETCS: European Train Control System
CBTC: Communication Based Train Control

Market Size by Segment





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3-1. IEP – Building a long term UK base



On schedule to deliver 1st train set in 2015 with preparation of launch maintenance and local production

Project Overview

Customer : UK Department for Transport

No. of rolling stocks : Total 866 cars with 27.5 years' maintenance

Delivery : 2017 - 2019

Procurement method : PPP (Public Private Partnership)



Project Schedule

Fiscal Year	2012	2013	2014	2015	2016	2017	2018	2019
Great Western Main Line Prototype Mass product	De	esign and prod		Test run	in UK			
	W	e are here	Des	sign	Production	Product accepta	nce	
East Coast Main Line Prototype			Design and pro	oduction	Test run in			
Mass product					Design	Production	On Product acc	eptance
Production Site		Co	nstruction	Preparation		Production		



Newton Aycliffe, UK production site: Under construction



Newton Aycliffe, image of the completion



IEP front mask mock-up



Car body: Under production at Kasado works

IEP: Intercity Express Programme

3-2. Entering new markets



"Urban Railway Line 1" in Ho Chi Minh City, Vietnam: Project office launched in August 2013 and design process is on going

Project Overview (1st urban transport in Vietnam)

Customer

Line length

Contract scope

: Management Authority for Urban Railways of the People's Committee of Ho Chi Minh City

: 19.7km (underground and elevated line)

: Prime contractor - E & M package

n 17 train sets (total of 51 cars)

n Signalling and telecommunication system

n Power supply system

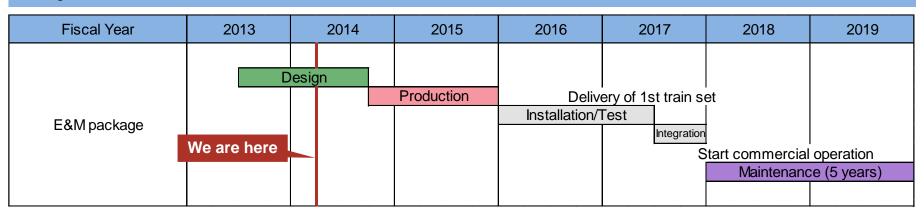
n Depot facilities, etc.

5 years maintenance following the start of commercial operations



Ho Chi Minh City Line 1 (Image)

Project Schedule



3-3. Monorail is a key growth sector



Daegu Urban Railway Line 3 Monorail System (Korea): Train set delivery completed and now test run for commercial operation

Project Overview

Line Length : 24 km (Elevated double track)

Number of StationsCar Depot: 30 Stations: 2 Places

Contract Scope : Monorail cars (84 cars), track switch and

signalling system



Monorail cars in siding

Project Schedule

Fiscal Year	2008	2009	2010	2011	2012	2013	2014	2015	
	Design								
Rolling Stock					Product	ion			
		Com					missioning	/Tests	
Signalling		Desig	n		We are	here			
	Produc			Production	on				
					Com	missioning	/Tests		
System							Inspection	Trial Run	
	Commercial C					peration (Planned)			

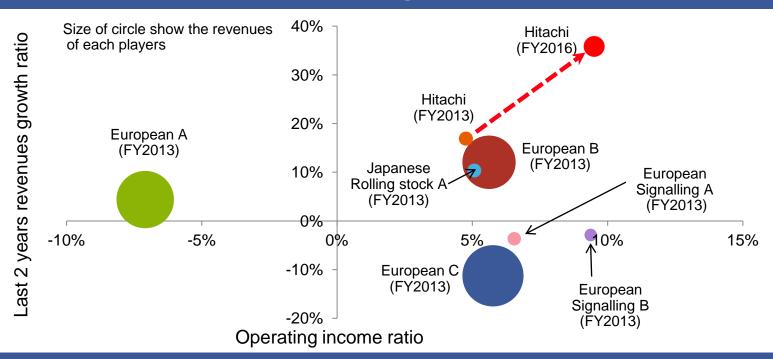


Operation centre

3-4. Going global and solution



Hitachi's Target Position



Competitors' dynamism

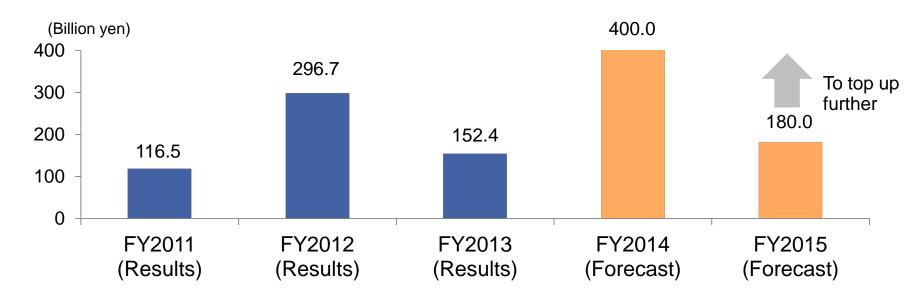
- ■Trend of Industrial re-organisation
 - Rail conglomerate in Europe anticipating consolidation
- European rolling stock manufacturers growing stably
- ■Chinese rolling stock manufacturers entering emerging markets

3-5. Well placed to challenge for growth



2.7 trillion yen backlog are secured Challenges are expanding profile in emerging countries

- ■Backlog: approx. 2.7 trillion yen from 3 core market
 - UK (IEP trains and maintenance), Japan and China
- Historical order intake (excluding maintenance contracts in UK)



- ■Need next steps for further growth and globalisation
 - Challenges are expanding profile in emerging countries

3-6. Active in the whole value chain



Hitachi to be a global total solution provider Cover full lineup of products and service in rail system's value chain

Value Chain Component (Traction/ signalling)

Assembly (Rolling stock) **System** (Turnkey **Project)**

Service (Maintenance/ lease)

Operation

Achievement

Component

- Obtained certification of ETCS/CBTC signalling solution
- Started next generation inverters development

Assembly

- Started UK factory construction
- System
- n Launch Ho Chi Minh **Project Office**
- Service
- n Secured IEP maintenance contract
- Started Depots construction for IEP

Next steps

- n Further cost reduction
- n Productionise worldclass 'marketable' products
- n Strengthen engineering resources

- n Develop global standard rolling stock
- n Launch UK manufacturing
- n Entry to emerging countries
- System integration capabilities
- Secure orders for monorail
- n Leverage IEP maintenance model to future projects











SiC: Silicon carbide

ETCS on-board unit SiC traction inverter Newton Aycliffe, UK production site: Under construction

IEP depot under construction

Class 395 maintenance team



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4-1. Going for growth



Rail Systems Business Growth Strategy

Global

- n Implementing new global organisation
- n Expand existing bases further (Japan, UK, and China)
- nActively develop market presence/localisation (India, Brazil, and Southeast Asia)

Transformation

n Reshape business portfolio

Expand services businesses

Increase sales of signalling/traffic management systems

Expand the turnkey business

n Expand and enhance product portfolio Global A-train, global signalling systems, next-generation inverters

Innovation

Total rail solutions

Propose total rail systems by linking infrastructure control systems and IT systems Rail energy management systems concept (GREEN)

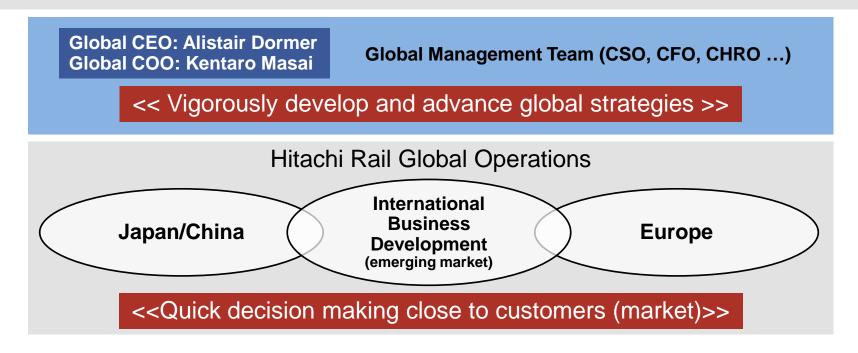
4-2. Going global



Implementing Global Organisation to accelerate global growth

Hitachi Rail Systems to contribute broadly to global society with world-class rail technologies which has been developed with Japanese customers

- Implementing global management system to develop strategy with the best mixture of Japanese technology/quality and international network
- n Increase local presence and customer relationship by regional operations



4-3. Leveraging a world-wide network



Increasing market presence/localisation

Europe

- n Global HQ established (2014)
- Expand maintenance business throughout the U.K.
- Establish rolling stock manufacturing base (2015)



China

- Established signalling / control system manufacturing base (2014)
- Expand electrical component manufacturing bases (2015)



India

Established Operation Centre (2013)

- Expand and enhance existing bases
 Project teams
- Sales offices



- n Enhance the role as technology hub
- n Enhance relationship with Japanese customers





Southeast Asia

Established new engineering centres in Ho Chi Minh City(2013)

South America

n Established planning organisation in Brazil (2013)

4-4. World class technology



Product Business: Develop world-class "marketable" products

Global A-Train

- n Optimally standardised product lineup for global market
 - n AT100 (metro/ commuters)
- n AT200 (regional)

n AT300 (high-speed)

n AT400 (monorail)

Global Signalling System

- n Develop products compliant with global (European) standards
- Successfully certificated for ETCS /CBTC of European Norms (ETCS2 Certified Nov. 2013, CBTC RAMS Certified Dec. 2013)

Next-generation inverters

Productionise SiC inverters for reducing power loss to contribute to greater energy savings



AT200 Cars (image)



Lower loss inverter control system

Service Business: Expand maintenance business

- n Expand maintenance business
- n 7 Hitachi depots in UK
- n Expand rolling stock lease business
- n IEP rolling stock
- n Service business ratio: 25% of overseas sales (FY2020)

Ashford Depots (Class 395 Cars)



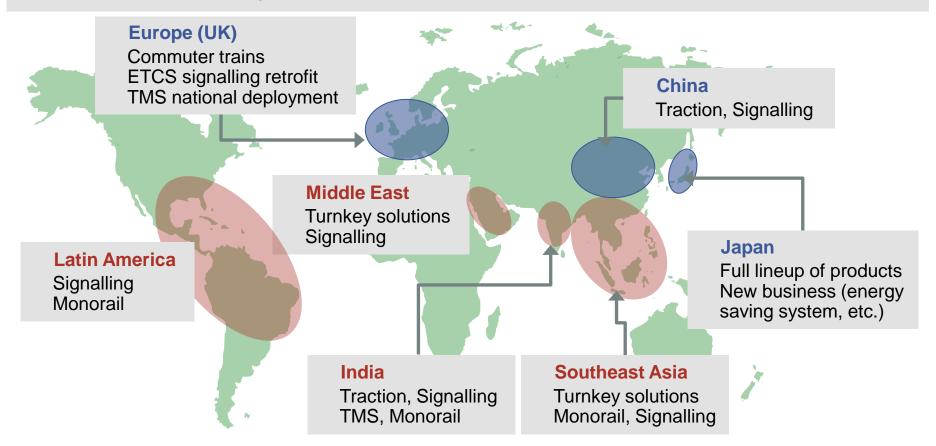
RAMS: Reliability, Availability, Maintainability and Safety

4-5. Growing the customer base



Review/Develop regional strategy to accelerate global expansion

- Newly established "International Business Development" function in London to review strategy to win new business leveraging UK intelligence (network)
- Further develop existing core market (Japan, UK and China)



4-6. Transforming into a strong global player



Hitachi Smart Transformation Project: Targeting 5% Cost reduction benefits (9 billion yen) over the period from FY2011 to FY2015

Major Initiatives (Ongoing)

Production costs

- n JIT i.e. Reduce lead time, enhance BOM & 3D design
- n Globally standardise design and products

Direct materials costs

- n Enhance material cost control
- n Increase Global Procurement (optimise global supply chain)

Indirect costs

- n Introduce 3PL
- n Centralise and standardise administrative works

Major Initiatives to be strengthened

- ■Further develop local manufacturing bases (UK, China and others)
- **u**Establish optimised global logistics
- **u**Enhance ERP

BOM: Bill of Materials 3PL: 3rd Party Logistics

4-7. Delivering better cash performance



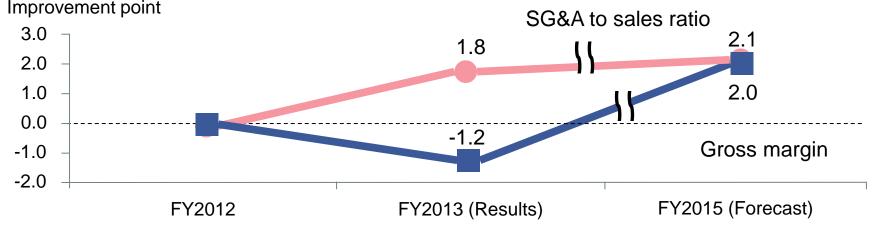
Maximize cash flow to prepare next strategic investment

Generate cash flow by;

- Reduction of lead time
- Vendor Managed Inventory (VMI)
- Global supply chain management
- Strategic investment with high return
- Intensive post-investment monitoring

In conjunction with Hitachi Capital, Hitachi High-Technologies and Hitachi Transport System



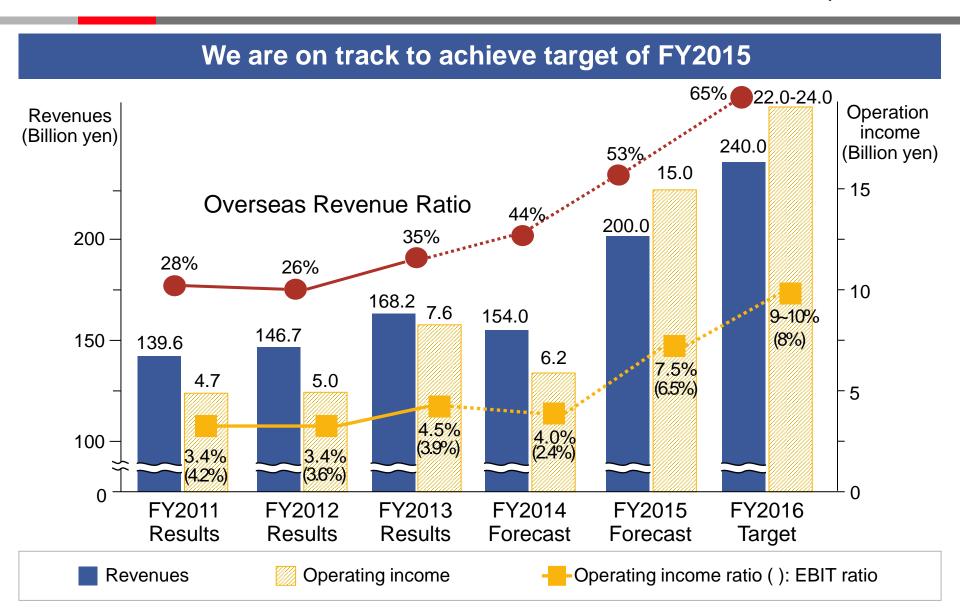




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5-1. Taking action to grow







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FY2015 Ta	Previous targets announced on June 13, 2013		
Revenues (Overseas revenue ratio)	200 billion yen (53%)	200 billion yen (53%)	
Operating income ratio (EBIT ratio)	7.5% (6.5%)	6.5%	
Gross margin improvement	2.0% (vs. FY2012)	1.0% (vs. FY2012)	
SG&A to revenue ratio improvement	2.1% (vs. FY2012)	2.1% (vs. FY2012)	

nAccelerate globalisation with technologies developed in JapannPromote Social Innovation Business

Cautionary Statement



Certain statements found in this document may constitute "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995. Such "forward-looking statements" reflect management's current views with respect to certain future events and financial performance and include any statement that does not directly relate to any historical or current fact. Words such as "anticipate," "believe," "expect," "estimate," "forecast," "intend," "plan," "project" and similar expressions which indicate future events and trends may identify "forward-looking statements." Such statements are based on currently available information and are subject to various risks and uncertainties that could cause actual results to differ materially from those projected or implied in the "forward-looking statements" and from historical trends. Certain "forward-looking statements" are based upon current assumptions of future events which may not prove to be accurate. Undue reliance should not be placed on "forward-looking statements," as such statements speak only as of the date of this document.

Factors that could cause actual results to differ materially from those projected or implied in any "forward-looking statement" and from historical trends include, but are not limited to:

- n economic conditions, including consumer spending and plant and equipment investment in Hitachi's major markets, particularly Japan, Asia, the United States and Europe, as well as levels of demand in the major industrial sectors Hitachi serves, including, without limitation, the information, electronics, automotive, construction and financial sectors:
- n exchange rate fluctuations of the yen against other currencies in which Hitachi makes significant sales or in which Hitachi's assets and liabilities are denominated, particularly against the U.S. dollar and the euro;
- n uncertainty as to Hitachi's ability to access, or access on favorable terms, liquidity or long-term financing;
- n uncertainty as to general market price levels for equity securities, declines in which may require Hitachi to write down equity securities that it holds;
- n uncertainty as to Hitachi's ability to continue to develop and market products that incorporate new technologies on a timely and cost-effective basis and to achieve market acceptance for such products:
- **n** rapid technological innovation;
- n the possibility of cost fluctuations during the lifetime of, or cancellation of, long-term contracts for which Hitachi uses the percentage-of-completion method to recognize revenue from sales;
- n fluctuations in the price of raw materials including, without limitation, petroleum and other materials, such as copper, steel, aluminum, synthetic resins, rare metals and rare-earth minerals, or shortages of materials, parts and components;
- n fluctuations in product demand and industry capacity;
- n uncertainty as to Hitachi's ability to implement measures to reduce the potential negative impact of fluctuations in product demand, exchange rates and/or price of raw materials or shortages of materials, parts and components;
- n increased commoditization of information technology products and digital media-related products and intensifying price competition for such products;
- n uncertainty as to Hitachi's ability to achieve the anticipated benefits of its strategy to strengthen its Social Innovation Business:
- n uncertainty as to the success of restructuring efforts to improve management efficiency by divesting or otherwise exiting underperforming businesses and to strengthen competitiveness;
- **n** uncertainty as to the success of cost reduction measures:
- n general socioeconomic and political conditions and the regulatory and trade environment of countries where Hitachi conducts business, particularly Japan, Asia, the United States and Europe, including, without limitation, direct or indirect restrictions by other nations on imports and differences in commercial and business customs including, without limitation, contract terms and conditions and labor relations:
- n uncertainty as to the success of alliances upon which Hitachi depends, some of which Hitachi may not control, with other corporations in the design and development of certain key products;
- n uncertainty as to Hitachi's access to, or ability to protect, certain intellectual property rights, particularly those related to electronics and data processing technologies;
- n uncertainty as to the outcome of litigation, regulatory investigations and other legal proceedings of which the Company, its subsidiaries or its equity method affiliates have become or may become parties;
- **n** the possibility of incurring expenses resulting from any defects in products or services of Hitachi:
- **n** the potential for significant losses on Hitachi's investments in equity method affiliates;
- **n** the possibility of disruption of Hitachi's operations by earthquakes, tsunamis or other natural disasters;
- n uncertainty as to Hitachi's ability to maintain the integrity of its information systems, as well as Hitachi's ability to protect its confidential information or that of its customers;
- n uncertainty as to the accuracy of key assumptions Hitachi uses to evaluate its significant employee benefit-related costs; and
- **n** uncertainty as to Hitachi's ability to attract and retain skilled personnel.

The factors listed above are not all-inclusive and are in addition to other factors contained in other materials published by Hitachi.

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