JR KYUSHU IR DAY 2022

Toward the Railway of the Future

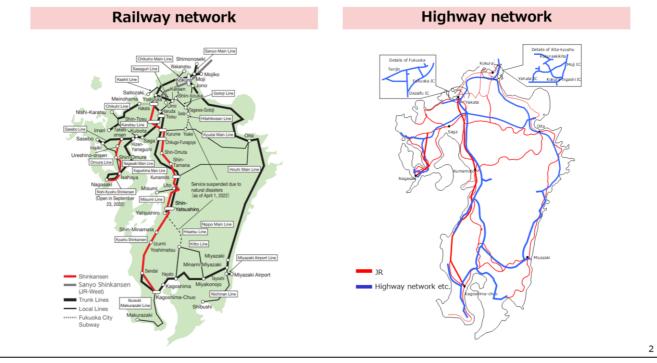
November 29, 2022 Kyushu Railway Company Director and Managing Corporate Officer, Director General of Railway Operations Headquarters Hiroyuki Fukunaga

- > I am Hiroyuki Fukunaga, Director General of Railway Operations Headquarters.
- I will talk about the railway of the future while discussing the characteristics of our railway business.
- Please turn to the next slide.

1 Characteristics of the Railway Business

• Characteristics of JR Kyushu's railway business

- \cdot Kyushu's population is shrinking and aging faster than in the rest of Japan.
- Competition with private cars and highway buses is fierce in Kyushu as the highway network is being developed in stages.



- > To begin, I will discuss conditions in the railway business for JR Kyushu.
- Shrinking population is a serious national problem and a problem in Kyushu, with the exception of a few cities such as Fukuoka City. As highways are constructed, train services are facing more competition for market share with private cars and highway bus services.
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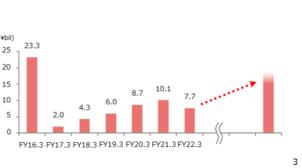
1 Characteristics of the Railway Business

Characteristics of JR Kyushu's railway business

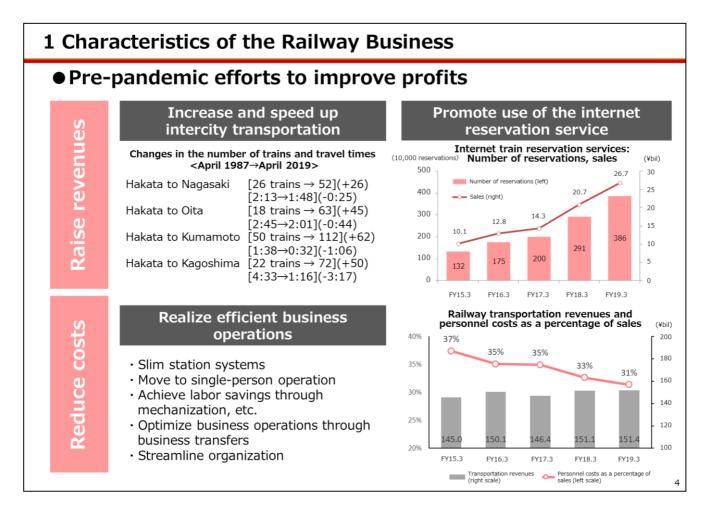
- From our start at the time of breakup and privatization in 1987, we have had numerous unprofitable local lines.
- Due to the full opening of the Kyushu Shinkansen line in 2011 and other factors, pre-pandemic transportation revenues exceeded ¥150.0 billion.



- recorded on March 31, 2016
 Capital investment of between ¥25.0 billion and ¥30.0 billion a year conducted in railway business after impairment losses
- Gradual increase of ¥1.0–2.0 billion per year in depreciation costs going forward due to continuation of current trends



- Our railway business has been unprofitable for many years after the national railways were broken up and privatized in 1987. However, operations became profitable with the full opening of the Kyushu Shinkansen and after the booking of impairment losses on fixed assets in 2016. Before the pandemic, railway revenue from passenger transportation had increased to around ¥150.0 billion.
- After booking impairment losses, JR Kyushu has spent ¥25.0-30.0 billion annually on capital investments, and depreciation has tended to rise by about ¥1.0-2.0 billion annually.
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- In this challenging business environment and given the characteristics of the business, JR Kyushu has worked to improve income and expenditures in the railway business.
- For example, JR Kyushu has worked to increase revenue by proactively shifting toward an online reservation system while increasing and accelerating intercity transportation services. We have reduce costs by steadily reducing the ratio of personnel costs to revenues through more efficient business operations, as a result of slimming down station systems and adopting single-person operations.
- > Please turn to the next slide.

2 COVID-19 and BPR

 Issues faced during COVID-19 and the post-pandemic Weaknesses of the railway business (over-reliance on flow of people, fixed cost ratio tag high) avaged 				
 too high) exposed As the sales outlook is not expected to recover dramatically in the post-pandemic, efforts to reduce costs continuously is urgently called for to restore profitability. 				
BPR (Business process re-engineering) introduced over a short period Objective: Achieve ¥14.0 billion* reduction in fixed costs during the current medium-term business plan				
*Compared with FY20.3, excluding extraordinary items • BPR project characteristics • Implement structural reforms targeting railway business operations and back office				
Reform without exceptions	 No significant cost reductions possible by extending conventional approaches Thoroughly collect and analyze objective information such as amounts, time, number of people Reexamining organizational boundaries and conventional rules, and what we aim to be 			
Quickly consider and decide	 Plan shakeout measures swiftly (plan in 4 months, execute in 2 years) Management swiftly decides on whether or not to implement measures 			
Taking ownership	 Project leaders issue weekly reports for real-time sharing, including among the 2,100 employees of Group companies Solicit ideas from a wide range of employees (4,000 ideas) and hold opinion-exchange meetings 			
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- Due to the pandemic, these initiatives completely changed as the dependence of the railway business on the flow of people and its high fixed cost ratio was laid bare. In order to continue offering railway business in the post-pandemic, we had to quickly reduce fixed costs.
- Therefore, we implemented structural reforms in a short period, reducing fixed costs with business process re-engineering (BPR). Our objective is to reduce costs by ¥14.0 billion, which is equivalent to about 10% of operating costs in the railway business in the fiscal year ended March 31, 2020.
- The characteristics of BPR focuses on reforming without exceptions, making quick considerations and decisions, and taking ownership. Based on an objective quantitative analysis, we have repeatedly reviewed systemic barriers and rules, and management made a commitment to making decisions in short order to devise a restructuring plan. We internally collected more than 4,000 ideas about reforms, and worked in unison as a Group to tackle these issues.
- Please turn to slide 7.

2 COVID-19 and BPR

• Key BPR initiatives

- Implement optimization of service levels, increase efficiency of inspection and maintenance, multi-skilling, etc.
- For BPR, basically focus on reducing fixed costs without investing

Establish new service systems

Review station staffing structure through the use of DX, discontinue ticket-sales counters, and reduce operating hours, etc.





Promote use of the JR Kyushu app and internet reservations

> Optimize timetables (fall 2022 timetable revisions)

 Revise the operating system to match passenger usage
 Particularly on conventional lines, revise operating system centering on the Fukuoka metro area, expand number of segments where trains are operated by a single driver, and introduce other measures.

Renovate rolling stock to increase boarding efficiency and handle internally those operations related to rolling stock, etc.



Use longer seats in rolling stock

Increase efficiency of inspection and maintenance

Establish a new rolling stock and ground equipment systems

- Revise replacement standards by enhancing inspection accuracy.
- Reduce labor requirements by changing rolling stock materials.
- Revise inspection/maintenance operations based on train lines' state of use.

As we expand the number of segments where trains are operated by a single person, we will ensure safety by installing cameras on rolling stock and installing platform railings at some stations.



Camera on rolling stock

Promote employee acquisition of multiple skills

On the Nishi-Kyushu Shinkansen, which opened in September 2022, the driver conducts vehicle inspections along with the staff in charge of rolling stock.

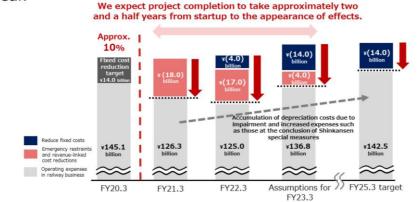


Train-kilometers	Rolling stock owned	Expected cost reductions (full year)	
(2.3)%	(7)%	¥(0.8) billion	

2 COVID-19 and BPR

Completion of BPR

 We are on track to meet our fixed-cost reduction target of ¥14.0 billion this fiscal year.



- Numerical targets of the current medium-term management plan (FY2025.3)
- We aim for operating revenue of ¥159.0 billion, around 96% of the level in FY2020.3.
- We expect to move into the black, and are targeting operating profit of ¥16.5 billion, even factoring in the accumulation of depreciation costs and the conclusion of Shinkansen special measures.

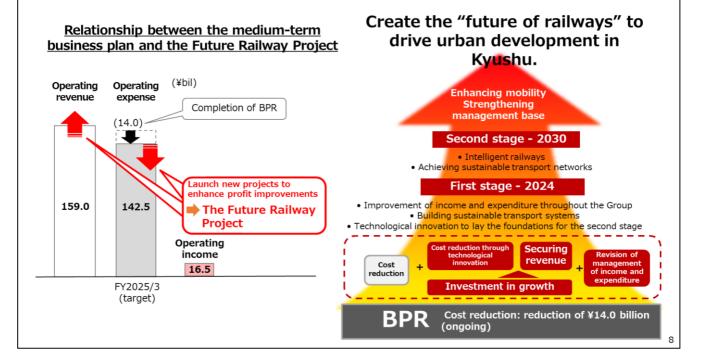
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- Over a period of about two and a half years since the launch of this project, we expect to achieve, this fiscal year, our target for a ¥14.0 billion boost from BPR.
- In the fiscal year ending March 31, 2025, the final year of our medium-term business plan, JR Kyushu targets operating revenue of ¥159.0 billion and operating income of ¥16.5 billion, even though railway transportation revenues are unlikely to return to pre-pandemic levels.
- However, we have not given up on efforts to improve income and expenditures in the railway business.
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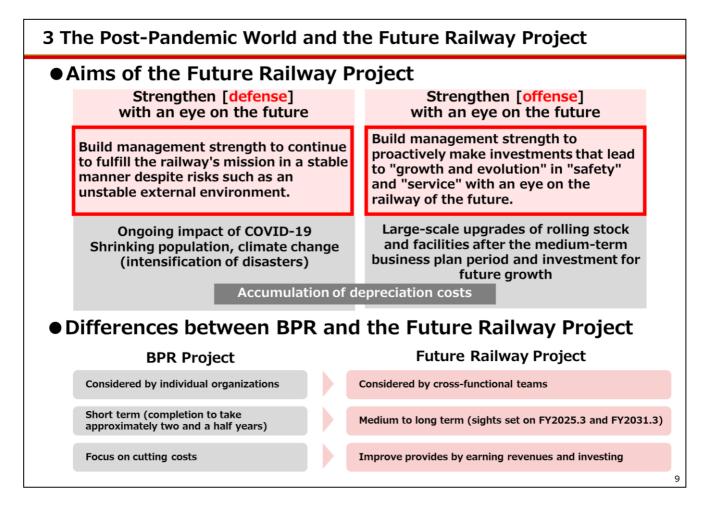
3 The Post-Pandemic World and the Future Railway Project

The Future Railway Project

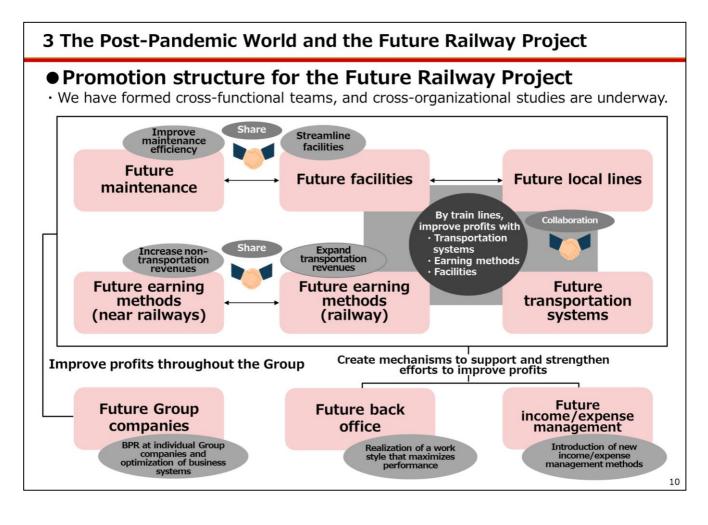
Taking a railway business streamlined through BPR as our starting point, we will work to advance mobility and strengthen our management capabilities to create the "future of railways" that will drive city-building in Kyushu.



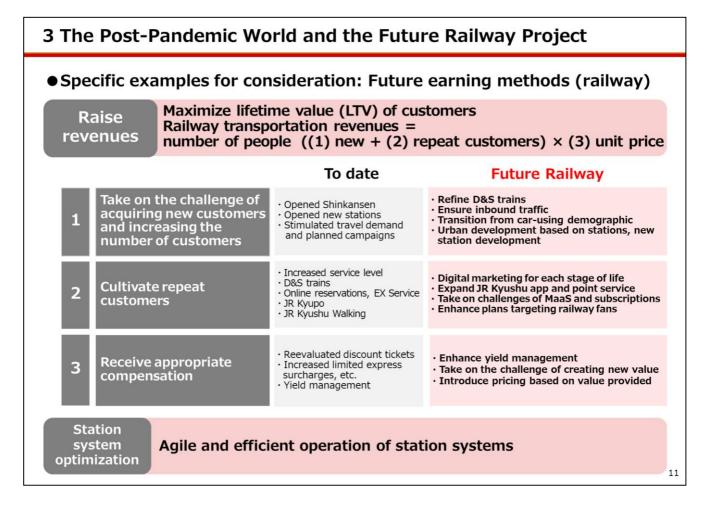
- Starting with the slimmed down railway business that resulted from BPR, JR Kyushu launched the Future Railway Project this spring with the aim of creating the "future of railways" that is a driving force in city-building in Kyushu.
- Under the Future Railway Project, we aim to improve income and expenditures by the fiscal year ending March 31, 2025, during the current medium-term business plan, and then with an eye on the fiscal year ending March 31, 2031.
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- The objective of the Future Railway Project is both defensive and offensive, as it is necessary to build a management foundation that can handle an increase in depreciation. On the defensive side, we aim to prepare for risks in the external environment, such as pandemics and major natural disasters. On the offensive side, we intend to build a foundation that allows us to invest heavily in future growth while improving safety and services.
- We are clarifying the difference between BPR and the Future Railway Project, such as forming new cross-functional teams, charting a growth strategy for the medium to long term, and taking steps to improve income and expenditures by earning revenues and investing.
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- The Future Railway Project consists of nine cross-functional teams that explore crossorganizational initiatives. In addition to a team specializing in the railway business, we are also working broadly in collaboration with Group companies and back offices.
- > Next, I will introduce six major initiatives. Please turn to the next slide.



- On the topic of future earnings methods for railway operations, we are examining ways to increase revenue and optimize station operations.
- While refining past measures, we will take fresh steps to acquire new customers, encourage repeat customers, and set prices at appropriate levels, with the objective of maximizing the lifetime value of customers.
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3 The Post-Pandemic World and the Future Railway Project

• Specific examples for consideration: Future earning methods (near railways)

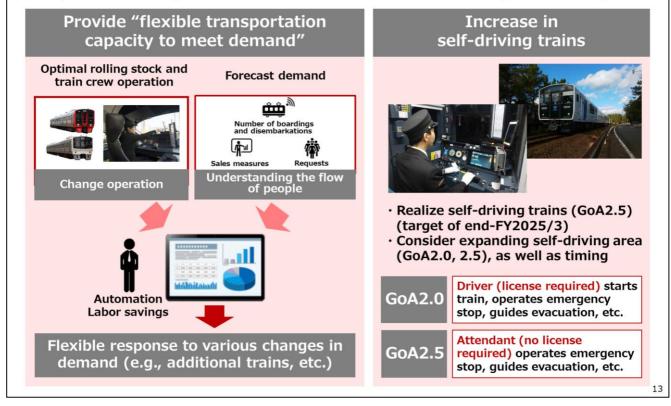
We will work to define key strategies for creating new markets (customers) by leveraging our capabilities and open innovation.

Our capabilities = strengths	Open innovation		
Brand strength, creditworthiness	• Sales capabilities	Our ideals	Key strategies
Customer base Railway network/ network	 Collaboration with other companies Specialization Utilization of skills 	Viewing the transition to a decarbonized society as an opportunity for business growth, we will introduce energy conversion technologies such as storage batteries in collaboration with other companies.	Energy, environment
Human resources (technical capabilities, administrative capabilities) Assets	Information Track record (construction) New technologies	To promote the sustainable development of Kyushu, we will grow into a group that broadly supports social infrastructure through expansion of the private sector domain and public-private partnership initiatives in the construction segment.	Social infrastructure
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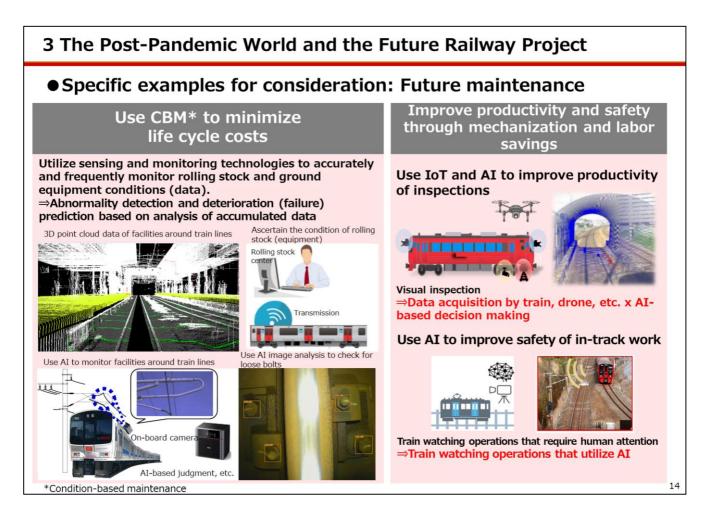
- On the topic of future earnings methods for areas near railways, we will examine ways to generate new value through a combination of open innovation and our strengths in railway operations.
- Our core strategies entail energy & the environment and social infrastructure. We will create growth strategies while coordinating with Group companies and external partners.
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3 The Post-Pandemic World and the Future Railway Project

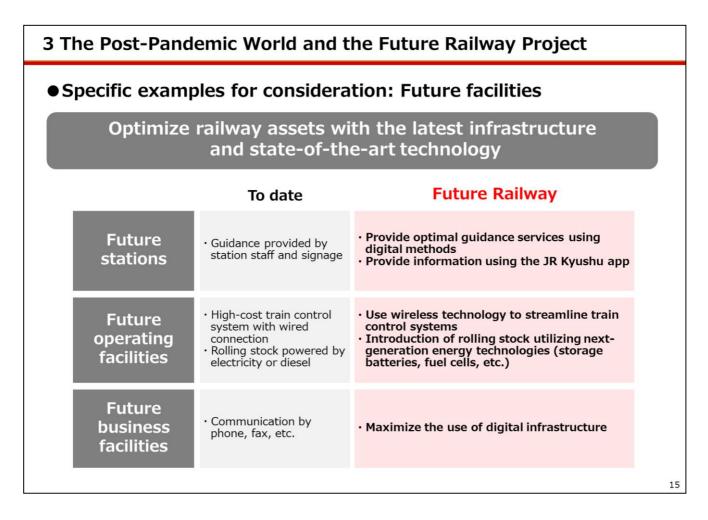
• Specific examples for consideration: Future transportation systems



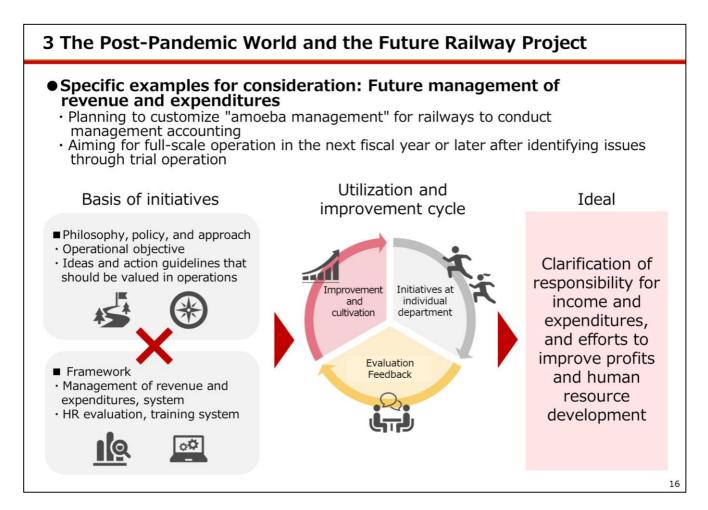
- > On the topic of future transportation systems, we will examine ways to provide flexible transportation capacity to meet demand and expand self-driving trains.
- We aim to create a framework for transportation services able to flexibly change schedules in response to changes in demand and satisfy customers. We will also expand areas for self-driving trains with drivers or attendants other than drivers.
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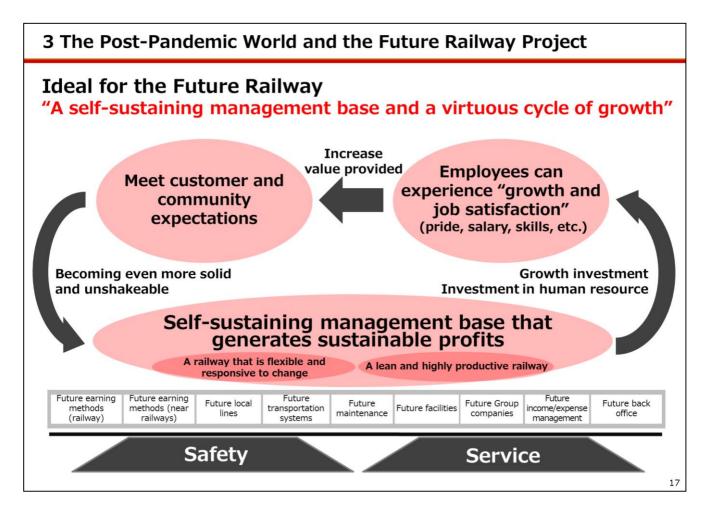
- Regarding the future of maintenance, we will introduce technologies for understanding and analyzing data in more detail about the status of rolling stock and facilities, in an effort to minimize maintenance costs over their entire lifecycle.
- > As inspections and surveillance currently being conducted with personnel are replaced by machinery and AI systems, we anticipate improvements in productivity and safety.
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- On the topic of future facilities, we aim to optimize railway assets, including stations, operating facilities and business facilities.
- We aim to slim down railway operations while maximizing the use of technologies in wireless, next-generation energy fields and digital platforms.
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- Lastly, on the topic of future management of revenue and expenditures, we aim to engage in management accounting customized to railway operations, while referring to Kyocera Corporation's "amoeba management"
- Our aim for all employees in railway operations is to improve income and expenditures and develop human resources while visualizing income and expenditures on the front lines.
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- Based on these initiatives, JR Kyushu's vision for the Future Railway Project is to attain a self-sustaining management base and virtuous cycle of growth.
- By being a railway that is flexible and responsive to change, and a lean and highly productive railway as its foundation for safety and services, JR Kyushu is keen to build a self-sustaining management base that generates sustainable profits, and increase employee engagement by invest in growth and human resources. We believe this will lead to improvement in the value we provide and better meet the expectations of all stakeholders, including customers and local communities. JR Kyushu will contribute to sustainable development by creating a virtuous cycle for the future.
- > This concludes my presentation. Thank you for your attention.