



ITS Driving for a Better Life

智能交通赋能幸福美好生活



Value of Movement and Carbon Neutral Projects

ITS Japan's 4th Mid-term Plan (2021-2025)



April 27th, 2022 **Akio "Ace" Yamamoto**President, ITS Japan





- 1. ITS Japan 4th Mid Term Plan
- 2. Impact of Carbon Neutrality on Transportation Policy
- 3. Value of Movement and Increasing of Valuable Travel
- 4. ITS Japan's Carbon Neutrality Initiatives:
 - -Carbon Neutrality situation in Japan
 - -A bird's eye view of the ITS carbon neutrality process
 - -ITS Japan's carbon neutrality initiatives









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1. ITS Japan 4th Mid-term Plan Outline



Target: social and value changes

Social Ties

Sustainability

Diverse, growing society where individuals can play active roles freely

Diversity

Society where a variety of ties yield new value

Sustainable society where every citizen lives safely and comfortably

We contribute to a safe, comfortable and efficient mobility and to realize a mobility value chain that support various lifestyles.

2. Enhancement of Valuable Travel Motivation

Mobility supporting various lifestyles

Creating new value by chaining the before, during and after in travel

1.Improvement of transport system and evolution of integrated transport ser

1-1) Safe, secure, comfortable transport

1-2) Mitigation of environmental load

1-3) Resilience to natural disasters

Safe, secure, efficien





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2022 CHENGDU 18TH ITS ASIA PACIFIC FORUM







2. Carbon Neutrality Impact to Transportation Policy

ITF: International Transport Forum in May 2021

Theme: Transport innovation for sustainable development (1,700 participants, 85 countries)









ITF: Opening Plenary Session





Eamon Ryan
ITF Chairman
Minister of Transport
of Ireland



Young Tae Kim

ITF Secretary General

"There is no time when the importance of interconnectivity and transportation is important in this corona crisis. Urgency, flexibility and ability are required to protect the vulnerable elderly in this crisis. However, even more so, although of different urgency, efforts to tackle the climate change crisis should be the first priority in order to protect young people in terms of future risks. Support for COP26 @ Glasgow in November this year is especially important."

"The pandemic has brought an unprecedented dilemma to traffic. Mobility has been significantly reduced due to virus suppression, making traffic work is essential to fight Covid-19. In response to the behavioral changes and fundamental questions raised by Covid-19,

transportation should aim for reshaping as part of the climate change measures. If you break the link with carbon, air pollution, and death in a traffic accident, transportation will be the most powerful driver of economic development."









ITF Transport Outlook 2021 Executive Summary





Policy insights

- -Implement much more ambitious policies that will reverse the growth of transport CO2 emissions
- -Target different transport sectors with strategies that reflect their specific de-carbonization potential and challenges
- -Support innovation to accelerate the technological breakthroughs needed to de-carbonise transport

-Shift the priority to improving accessibility

Shifting the focus of policy from increasing mobility to improving accessibility will better deliver on several goals, from climate change mitigation to sustainable development and human well-being. Transport planning that serves citizens considers their desired destinations and focusses on how well transport options connect them.

-Intensify collaboration with non-transport sectors and between public and private actors





ITF's Policy Brief published after COP26 (Glasgow)





- -Without more ambitious policies, transport CO2 emissions will grow up to 16% by 2050.
- -The transport sector must accelerate the development, deployment and dissemination of technologies and implement policies to transit to low-emission systems.
- -Transport sector achievements at COP26 marked a change in how transport is perceived by the climate change community and how climate change should be governed.



Next ITF's Ministers' Roundtable on "Transport and Climate Change: Moving forward from COP26" during the ITF Summit in May 2022.





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ITS Japan 4th Mid-term Plan and Reshaping Mobility





Fighting against climate change

Shifting the focus of policy from increasing mobility to improving accessibility



Dilemma

ITS Japan 4th Mid-term Plan Outline

2. Enhancement of Valuable Travel Motivation

Mobility value chain

Creating new value by chaining the before, during and after in travel

Mobility supporting various lifestyles

1.Improvement of transport system and evolution of integrated transport services

1-1) Safe, secure, comfortable transport

1-2) Mitigation of environmental load

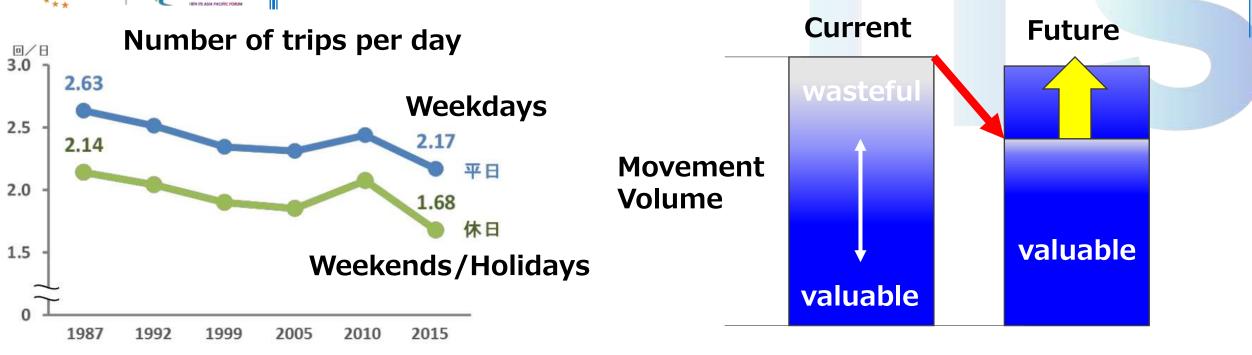
1-3) Resilience to natural disasters

Safe, secure, efficien



ITS Japan's Thoughts

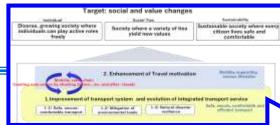




Negative impacts of transportation, such as its effect on the environment and traffic accidents, must be tackled when increasing amount of valuable movement.







ITS Japan 4th Mid-term Plan Outline

Mobility Value Chain

Individual

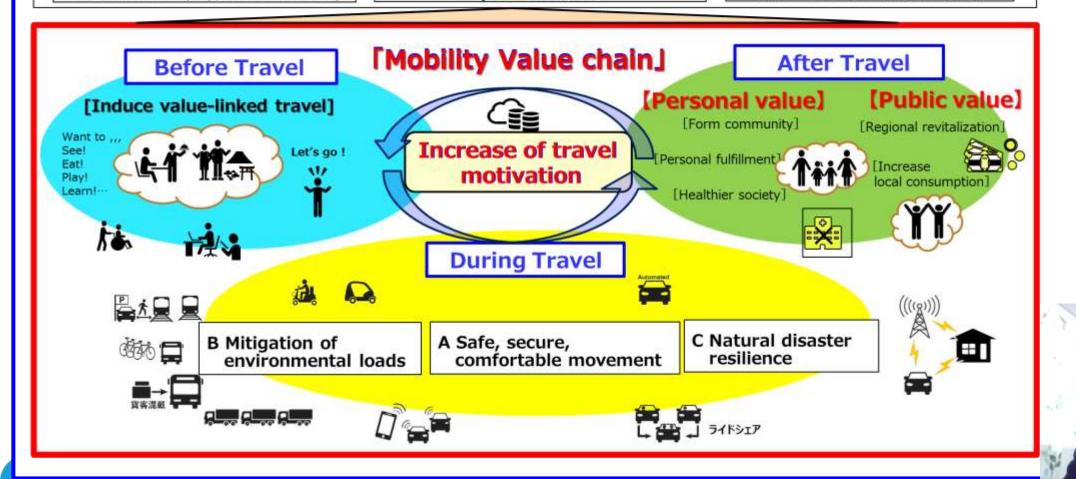
Diverse, growing society where individuals can play active roles freely

Target: social and value changes

Society where a variety of ties yield new values

Sustainability

Sustainable society where every citizen lives safe and comfortable





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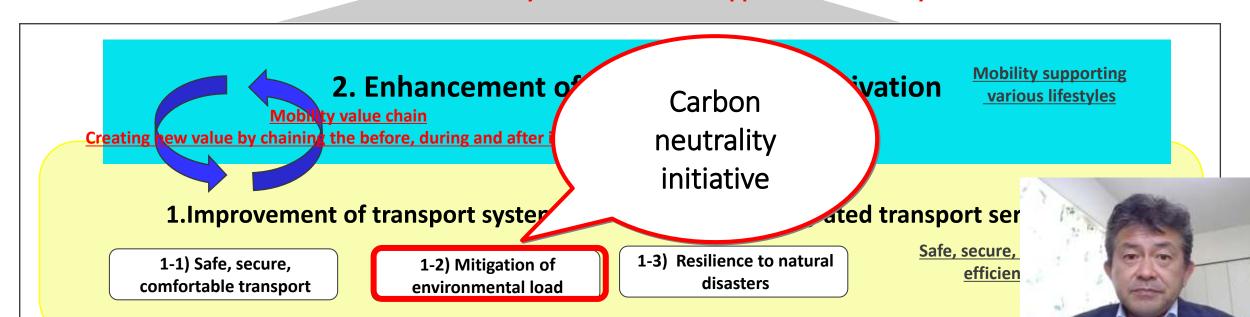
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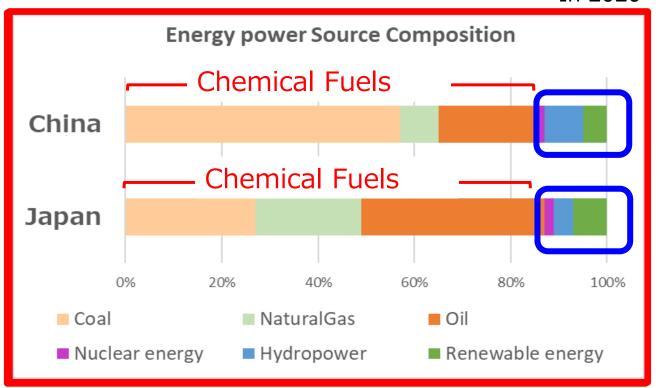
Japan's Electric Power Source Composition



Japan has a high dependency on chemical fuels.



In 2020

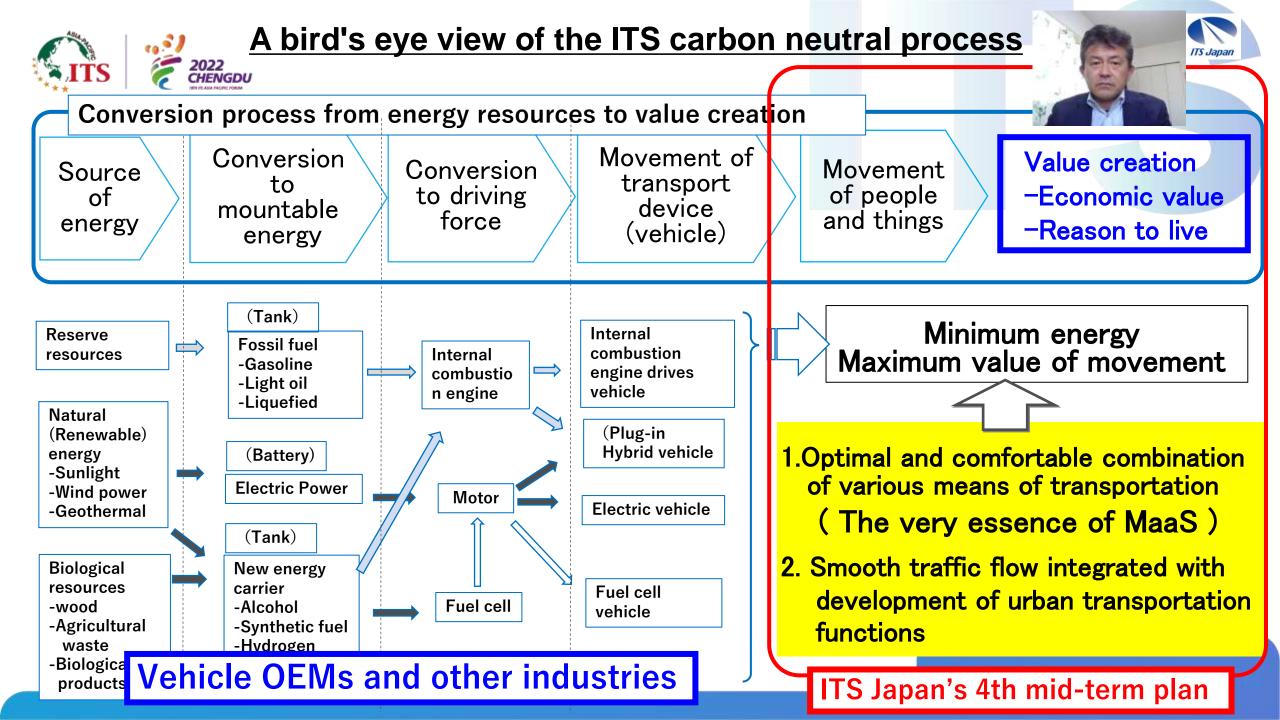


- -Importance of Well-to-Wheel perspective
- -Toward a decentralized energy society
- -Improvement of multi-modal traffic environments
 in 2030 in Japan

Hydroelectric Renewable energy etc.

15%→**46%**









4. ITS Japan's Carbon Neutrality Initiatives





Minimum energy
Maximum value of movement

Will it lead to social implementation?

Is it an cooperative field?

- 1 Optimal and comfortable combination of various means of transportation (The very essence of MaaS)
- * (V2H,V2G,etc.)
- Effective use of renewable energy with V2X energy system*
- Consider diversification of transportation with post-Corona in mind
- 2 Smooth traffic flow integrated with the development of urban transportation
 - Initiatives to reduce CO2 emissions through behavioral changes through road pricing, etc.
 - Study of distributed traffic signal control system, etc. that improved the intelligence of the infrastructure-side-equipment
- 3 Others
 - Visualization of CO2 reduction effects
 - Improving social acceptability for energy conservation

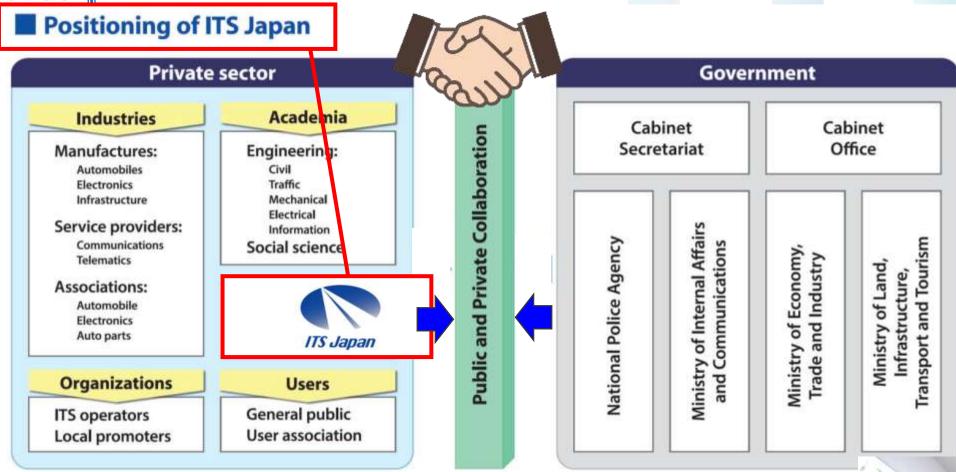
18TH ITS ASIA PACIFIC FORUM



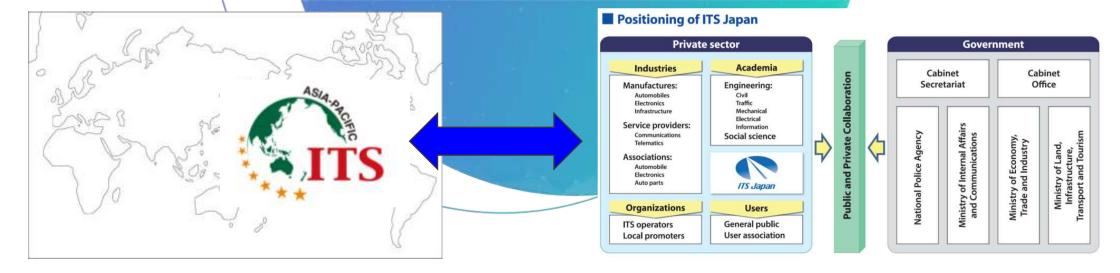


Meeting Goals





- -Sharing our common Vision and Goals
- -Discussing ITS Services, Technologies, Law, Business Models, Operations, etc.
- -Raising Social Awareness, Engaging with the public



THANKS

