

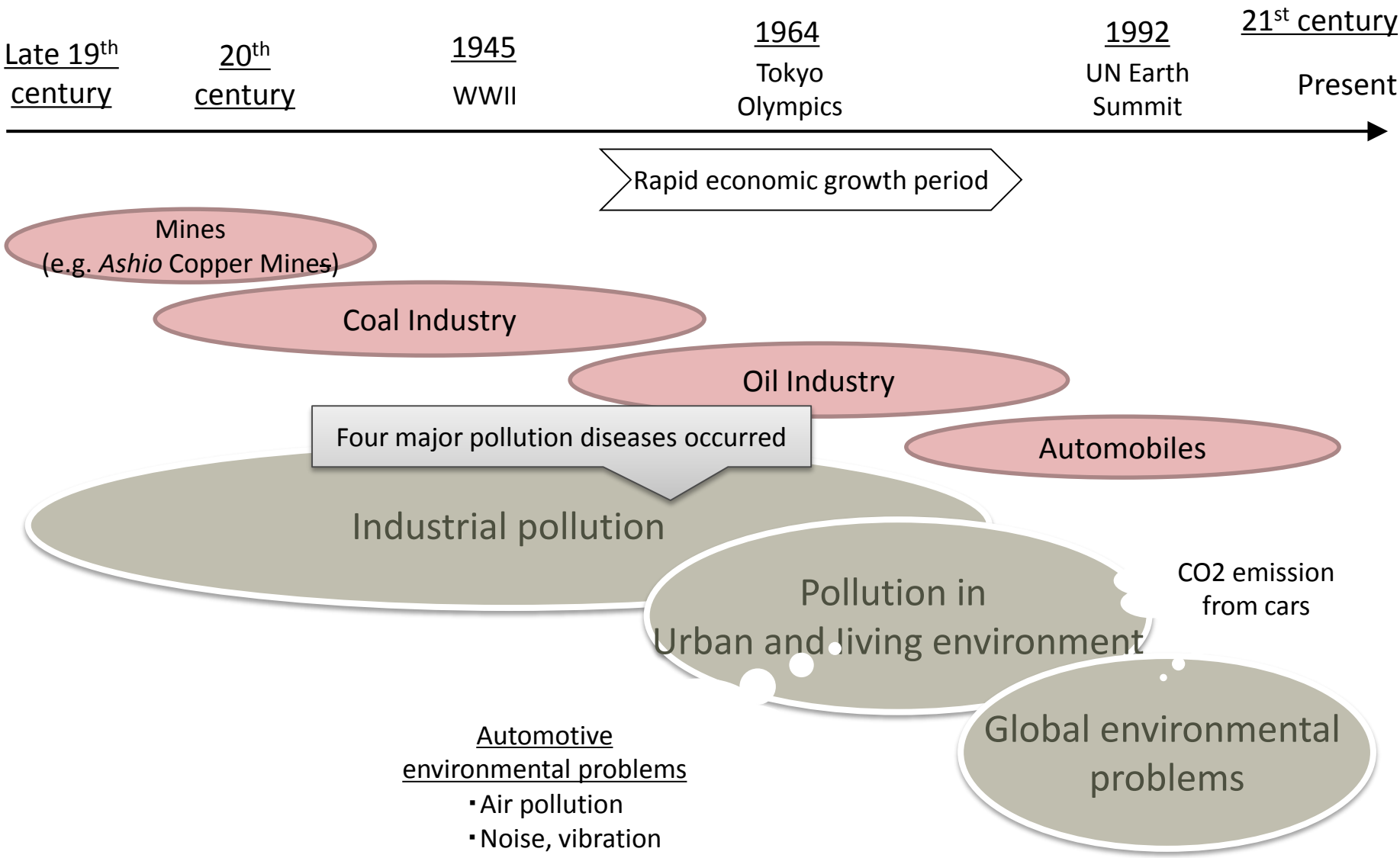
The progress of EST in Japan

~based on Japanese country report by MOE and MLIT~

November 19, 2015

Ministry of the Environment , Japan

History of Environmental Problems in Japan



The progress of EST: "Avoid" Strategy

Goal Description	Examples of pilot projects and/or policies developed or under development
1. Land-use and transport planning 【Largely in Place】	<p>(1) "Comprehensive urban and regional transport strategy"</p> <p>established:66 areas, under development : 15 areas Among them, certified by the Minister of MLIT: 43 areas (as of April 2014)</p>
	<p>(2) "Low Carbon City Plan"</p> <p>-based on "the Low Carbon City Act"</p> <p>established: 19plans (as of September 2015)</p>
	<p>(3)"Regional Public Transport Network Formation Plan"</p> <p>-based on "the Law on activation and regeneration of local public transport"</p> <p>established: 55plans (as of September 2015)</p>

The progress of EST: "Shift" Strategy

Goal Description	Examples of pilot projects and/or policies developed or under development
<p>4. Non-Motorized Transport</p> <p>【Largely in Place】</p>	<p>(1) The Promotion of Upgrading Transport Nodes - Shinjuku St. etc.</p> <p>(2) Active Use of Bicycle - "Bicycle Parking Attachment Duty Regulations" - support to formulate bicycle network planning and upgrade the spaces for bicycle etc.</p>
<p>5. Public transport</p> <p>【Largely in Place】</p>	<p>(1) Interoperation as well as expansion of versatility of Public Transport IC Card</p> <p>(2) Promotion of using public transportation - support for the adoption of LRT, BRT, etc.</p>
<p>6. Transportation Demand Management</p> <p>【Largely in Place】</p>	<p>(1) To improve transport efficiency and Standardize traffic volume - Park & Ride, enhancing the provision of information, etc.</p> <p>(2) TDM Operation Test - Promotion of using public transportation, improving the efficiency of distribution system in urban areas, etc.</p>
<p>7. Inter-city passenger and goods transport</p> <p>【Largely in Place】</p>	<p>(1) Support to promote the relevant measures - Modal shift, Low Carbonization of Freight Using Railways, Low Carbonization for small and medium traffic operators</p> <p>(2) Steadily construction of Shinkansen Network</p>

The progress of EST: "Shift" Strategy

Upgrading Transport Nodes in Shinjuku



1 No station square
-The occurrence of traffic congestion and minor accident
-Lack of capacity of sidewalk on Route 20

2 Dilapidated bridge over railway
-Built in 1925
-Deterioration of safety against earthquake

3 Further Lack of sidewalk capacity due to the opening of Tokyo Metro Fukutoshin Line near here



-Users of this exit :430,000 people a day
-Pedestrian of this bridge :140,000 people a day



-2,400 trains pass a day



-60,000 traffic a day on Route 20

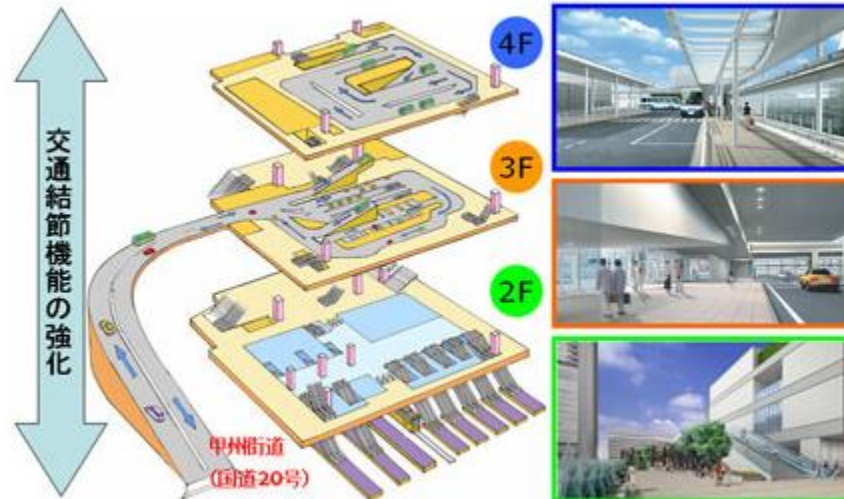
The progress of EST: "Shift" Strategy

Upgrading Transport Nodes in Shinjuku

1 The space will be reborn as an integrated transport node that generate smooth linkages for trains, taxis and busses.



2 It will also provide elderly and disabled people friendly place of relaxation and comfort



- 【4F】 Express bus-related facilities
- 【3F】 The bay for taxi and private passenger vehicles
- 【2F】 pedestrian space station facilities

The progress of EST: "Improve" Strategy

Goal Description	Examples of pilot projects and/or policies developed or under development
<p>8. Transport fuels and technologies 【Largely in Place】</p>	<p>(1) The Government aims to capture 50-70% of next-generation automobiles to total new car sales by 2030 *FCVs: introduced in December 2014 *the nationwide equipped Target of fuel supply stations derived from renewable energy by FY2019:about 100</p>
<p>9. Standards 【Largely in Place】</p>	<p>(1)The global harmonization of vehicle emissions regulations -Planning to Introduce WMTC and WHDC in 2016 , -Planning to Introduce WLTP in FY2018 (2)Planning to introduce stricter vehicle efficiency regulations in FY2020</p>
<p>10. Inspection and maintenance 【Largely in Place】</p>	<p>(1)Vehicle Registration and Inspection System(Fully Completed) (2)Measures based on the Automobile NOx-PM Law</p>
<p>11. Intelligent Transportation Systems 【Largely in Place】</p>	<p>(1)ETC2.0 -expansion of new services such as utilizing the routing information gathered through ITS spots , adding to avoid traffic jams and safety drive supporting services.</p>
<p>12. Freight transport 【Largely in Place】</p>	<p>(1)ACT on Advancement of Integration and Streamlining of Distribution Business</p>

The progress of EST: "Improve" Strategy

Special Measures for Total Emission Reduction of NO_x and PM from Automobiles in Specified Areas

The Law provides with special measures against air pollution in metropolitan areas.

◆ Targeted Areas

Tokyo metropolitan Area, Osaka Metropolitan Area and Nagoya Metropolitan Area

◆ Goals (FY2020)

- Nitrogen Dioxides (NO₂): Environmental Quality Standards (EQSs) are to be satisfied
- Suspended Particulate Matter (SPM): EQSs are to be satisfied by considerable reduction of SPM in vehicle emissions

◆ Measures

✓ Vehicle Category Regulations

Special regulation on exhaust gases, including vehicles in use

✓ Emissions Reduction Plan

✓ Measures of Emissions Control for Corporations

Formulation of plans for use and management of vehicles

The progress of EST: "Cross-Cutting" Strategy

Goal Description	Examples of pilot projects and/or policies developed or under development
13. Safety 【Largely in Place】	(1) Measures to prevent traffic accidents ex)Speed Bump etc. (2) Automobile liability security system
15. Air quality and noise 【Largely in Place】	(1)Constant monitoring of Air Pollution by Local Governments under Air Pollution Control Law (2) Constant monitoring of Motor vehicle Traffic Noise by Local Government under Noise Regulation Law
16. Global climate change and energy security 【Largely in Place】	(1)The Sixth National Communication (2)The 2013 GHGs Inventory
17. Social equity 【Largely in Place】	(1)Promotion of making public transport facilities and buildings barrier-free, "psychologically barrier-free" society, etc.
19. Information and awareness 【Largely in Place】	(1)Promotion of "Smart Move", Eco-driving, and creating of EST database, etc.
20. Institutions 【Largely in Place】	(1)Research for Reduction of CO2 Emissions in Road Transportation (2)Research of Implementation and Promotion of Life Cycle Assessment of Social Capital

Thank you for your attention.

