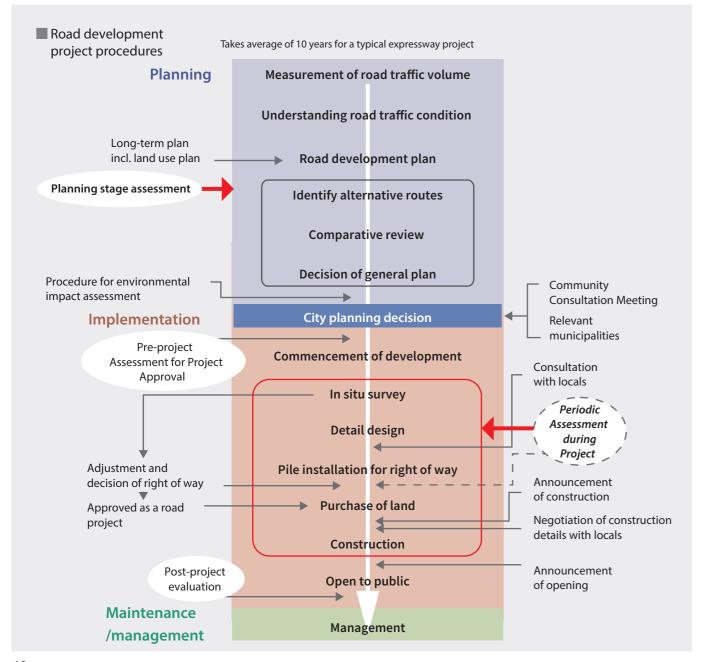
# Planning and Implementation of Projects

This section describes how road projects are evaluated in order to achieve accountability

# Implementation of an evaluation system

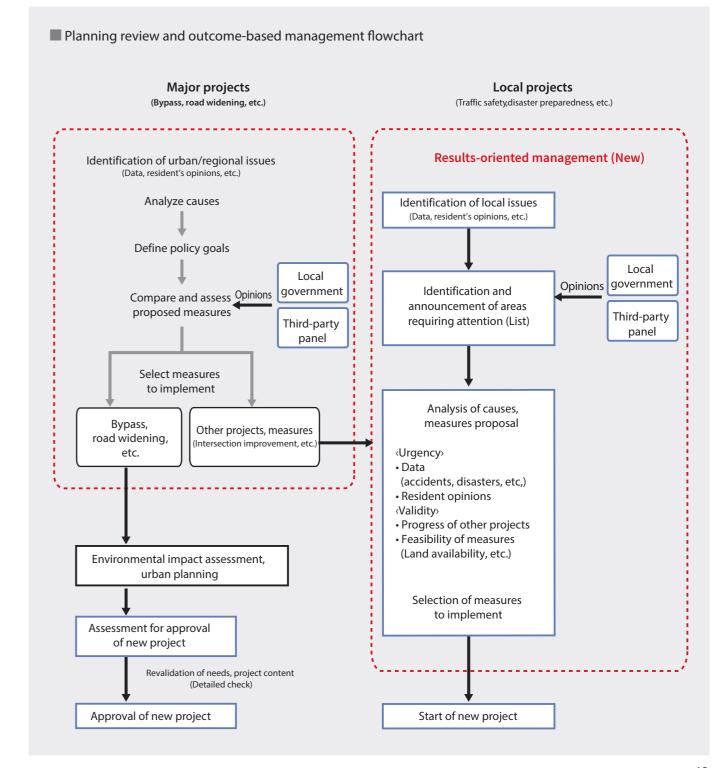
To improve efficiency and transparency, project evaluation is conducted throughout the entire process, from preparation to execution and servicing. The first evaluation is conducted while planning a new project and involves cost-benefit analysis. Projects that are not complete within five years of their start date are reassessed, and those that are found to be no longer necessary or no longer effective are discontinued or cancelled. Projects are also assessed when they are completed.

In order to evaluate the sustainability of a project, the economic, environmental and social effects of the projects should be assessed. Economic and environmental impacts are assessed through cost-benefit analyses and environmental assessments respectively.



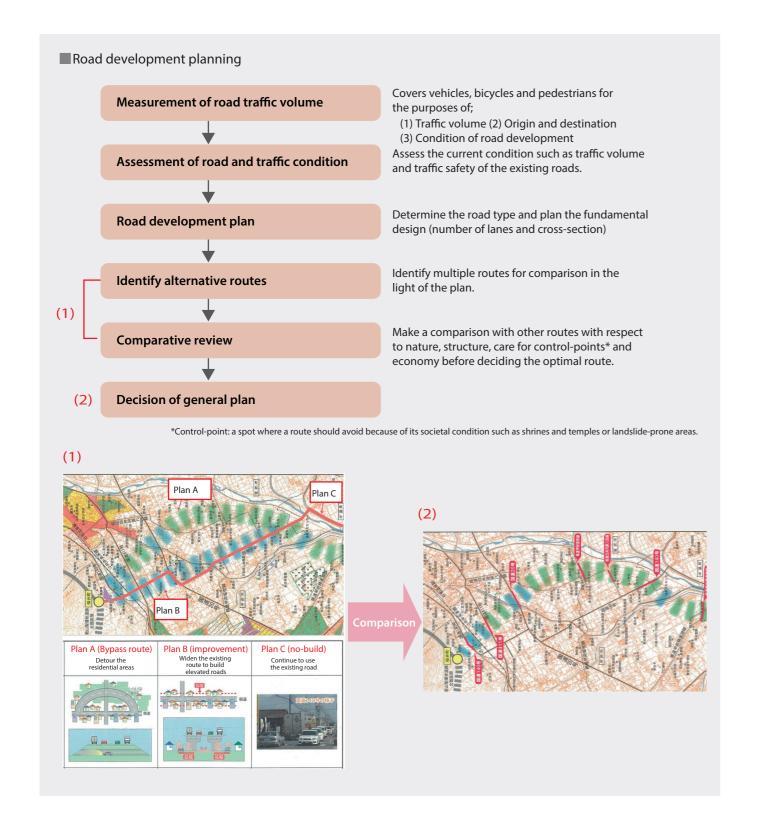
# Assessment of policy goals for road projects

To enhance the transparency and efficiency of road projects, reviews have been introduced into the planning stage of bypass, road widening and other projects, and "outcome-based management" practices, which are based on data, have been introduced in local projects.



# Road development planning

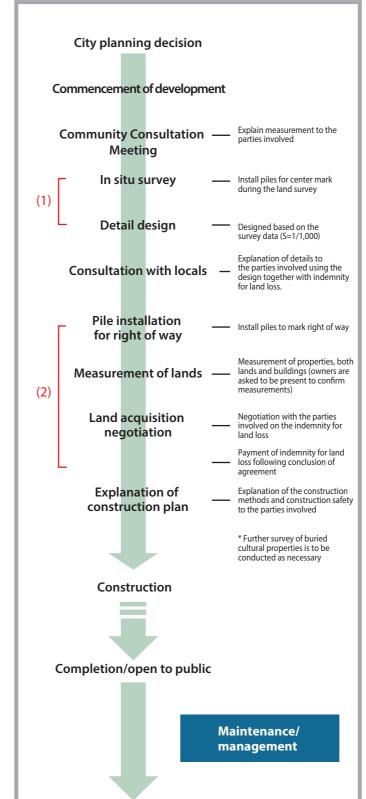
Roads in Japan are generally developed through the following procedure to make sure to choose the optimal route.

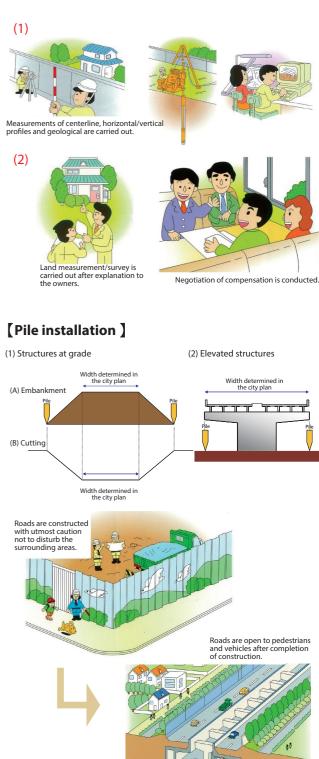


# Road development process

After a city planning decision was made, roads are developed taking the following steps while making sure to build the consensus of the local residents.

#### ■ Implementation of road projects





## **Environmental impact assessment (EIA)**

An assessment system in which a project proponent identifies/predicts/evaluates the potential impacts of the project on the environment prior to the decision being made on the details. In order to create an improved project, this collected information is available to the public and municipalities so that they can add their input.

#### ■ Road projects that have to be assessed

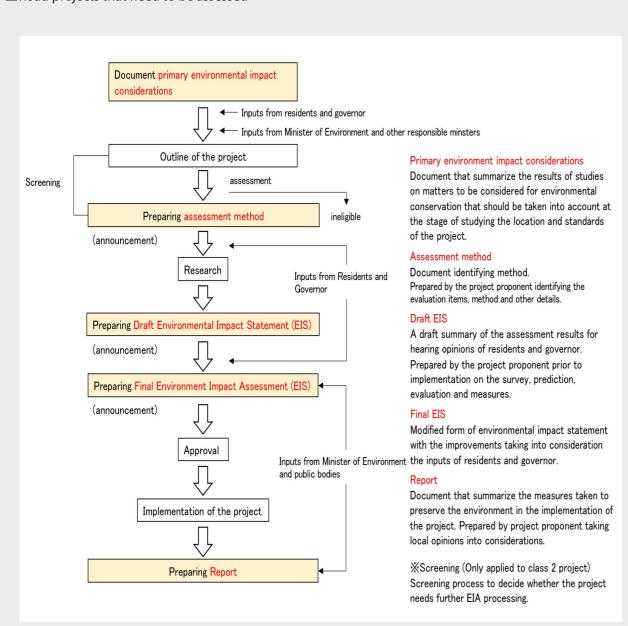
	Class 1	Class 2
National Expressway	All	
Tokyo Metropolitan Expressway	4 lanes or more	
National Highway	4 lanes or more,10km or longer	7.5km-10km

Class 1 A large-sized project with potentially significant environmental impacts.

#### Class 2

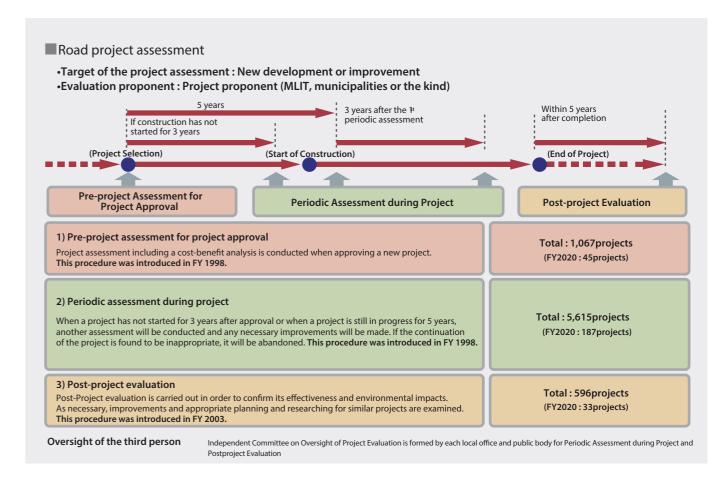
A large-sized project that requires an assessment to determine whether it has significant environmental impacts. A large-sized project that requires an assessment to determine whether it could have significant environmental impacts.

#### ■ Road projects that need to be assessed



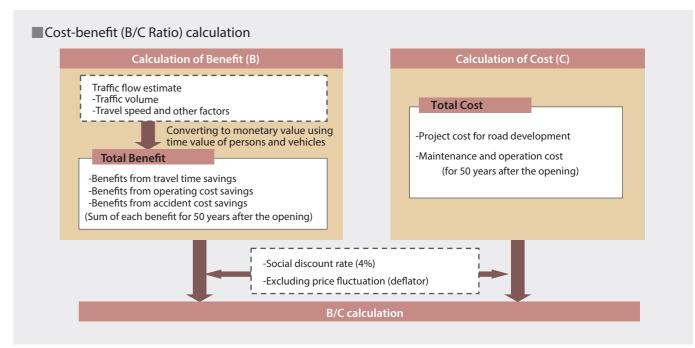
# Road project assessment

Road project assessment is carried out at various phases of the project; assessment at planning phase, pre-project assessment phase, during project and post-project phase.



# Cost-benefit analysis of a road project

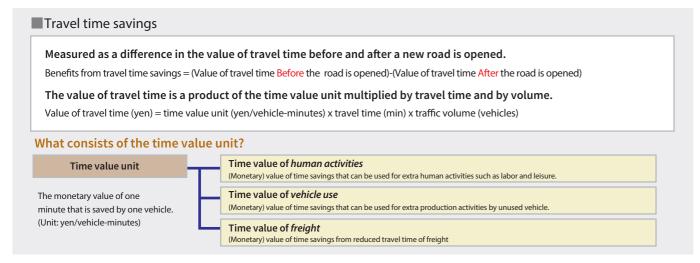
Cost-benefit (B/C ratio) analysis for road project is made to assess adequacy of the project from the social and economic aspects.



### **Benefits**

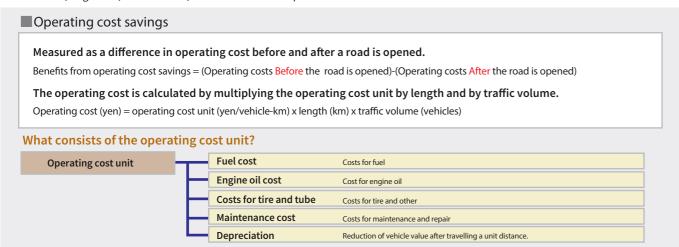
# Travel time savings

Time values of human activities, vehicle user and freight are considered.



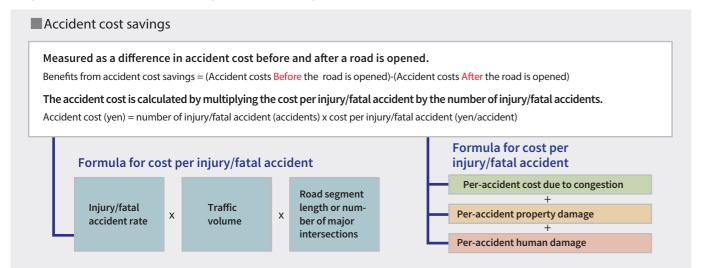
# **Operating cost savings**

Costs for fuel, engine oil, tire and tube, maintenance and depreciation are considered.



# **Accident cost savings**

Congestion-induced cost, physical damage and human damage are considered.



# **Administrative Management**

Together with regional public corporations, NPOs and other citizens' groups, the Japanese government is currently putting its efforts toward enhancing administrative management for roads. In order to achieve more effective, efficient and transparent road administration, Japan has promoted result-oriented administrative management for roads.

# Establishing a well-organized evaluation system

Currently, road administrative management is conducted according to the PDCA cycle (PLAN-DO-CHECK-ACT cycle), whereby: policy goals are determined by using performance (outcome) indicators (PLAN); policy measures and projects are executed (DO); results are analyzed and achievements are evaluated (CHECK); and the results are reflected in subsequent administrative activities (ACT). To effectively implement each project, data analysis is conducted on each policy issue. This allows for the clear identification of sites and sections that are in particular need of substantial countermeasures. Road administration becomes more effective, efficient and transparent when the general public is consulted at each stage of the PDCA cycle. For example, regional needs and challenges can be better understood and confirmed when input from the public is solicited about which sites to select.

