We support you in developing action plans to extend the service life of infrastructure, building on our long track record and rich experience in asset management of various kinds of social infrastructure.

**Purposes of developing plans to extend the service life of infrastructure**
1. Develop a maintenance cycle centered on the service life extension plan for each facility.
2. Reduce and average the total cost by running the maintenance cycle and developing a maintenance system.
3. Develop new technologies and maintenance industry through private-public coordination.

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**The process to develop plans to extend service life of infrastructure**

**Basic Plan**
1. Targeted vision
2. Basic philosophy
3. Establish plans
4. Direction of measures required

**Action Plan**
1. Facilities concerned
2. Target period
3. The current status and issues of the facilities concerned
4. Mid- and long-term cost forecast
5. Direction of measures to be implemented
6. Follow-up plan

**Plans for individual Facilities**
1. Facilities concerned
2. Target period
3. Order of priority among various measures
4. Status of individual facilities, etc.
5. Description of measures and time of implementation
6. Cost for damage control measures

- Our staff with professional expertise in various fields **develop workable plans.**
- Having developed individual facility (long-term repair) plans for various kinds of social infrastructure as a general consultant, **we are fully aware of the current status and issues of each kind of infrastructure.**
- We create **easy-to-understand materials** for you to use in presenting your plans to financial authorities and taxpayers on how you will work in developing mid- and long-term cost forecasts and necessary measures.
- We propose how you can **establish systems and train personnel** to carry out and improve your plans on an ongoing basis.
Flow of our support for an action plan to extend the service life of infrastructure

[Overall action plan]

*The manager defines the facilities concerned*

[Step 1: Defining the facility concerned]
Survey all social infrastructures you are in charge and identify facilities to be selected for action plans.

[Step 2: Defining the plan period]
Based on the repair and renewal cycles of each facility, set an appropriate plan period (e.g., 60 years).

[Step 3: Current status and issues to be addressed of the facility concerned]
Based on the facility register, results of inspection, the realities of maintenance and management, summarize the current status and issues to be addressed of each facility.

[Step 4: Mid- and long term cost forecastd]
Based on the plans for individual facilities, add up the mid- and long term cost forecasts.

[Step 5: Direction of maintenance and management, upgrading]
To equalize the mid- and long-term costs, examine the method for defining the priority among facilities.

[Step 6: Developing follow-up plans]
Propose solutions to implement maintenance cycles focused on individual facility plans.

Examples of facilities concerned: Bridges, tunnels, banks and shore protection, drainage pump station, sand-control dams, sewage plants, playground equipment, etc.
Developing Plans to Extend the Service Life of Infrastructures (cont.)

- We support you in action plans to extend the service life of infrastructure -

◆ Flow of our support for an action plan to extend the service life of infrastructure

[Individual facility plans (for each facility)]

[(i) Facility database]
See basic information and inspection result registration for bridges

[(ii) LCC calculation of individual facilities]
Predicting the deterioration of part materials, selecting the method, and calculating the total construction cost.

[(iii) Calculation of future expenses of these facilities]
Future cost by different scenarios, such as preventive maintenance and corrective maintenance.

[(iv) Equalization of budgets]
Define priority among repair plans

[(v) Output of service life extending repair plans]