

Rivers

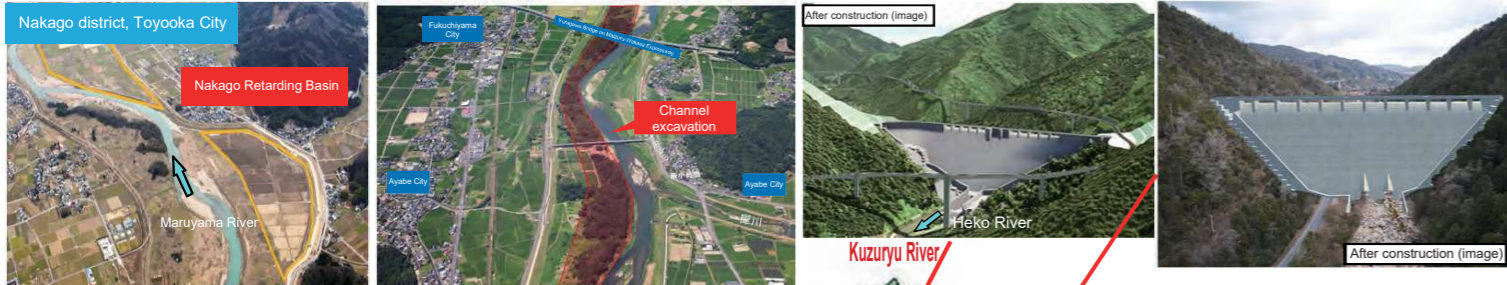
- River Projects (10 River Systems : Shingu River, Kino River, Yamato River, Yodo River, Kako River, Ibo River, Maruyama River, Yura River, Kita River, Kuzuryu River)
- Dam Projects (3 locations: Daidogawa Dam, Asuwagawa Dam, Improvement of the dam in the upstream of Kuzuryu River)
- Landslide Prevention Projects (1 location: Kamenose district)
- Erosion Control Projects (4 locations: Rokko Mountain Range, Kizu River System, Kuzuryu River System, Kii Mountain Range)
- Coastal Area Projects (1 location: Toban Coast)

Safety of the People, Guarantee of Security

Flood control measures - focused implementation of measures against flood and sediment disasters for disaster prevention

We implement emergency measures in areas that have experienced major disasters recently to prevent future disasters. Furthermore, we accelerate preemptive disaster prevention measures to ensure safety and peace of mind in the region.

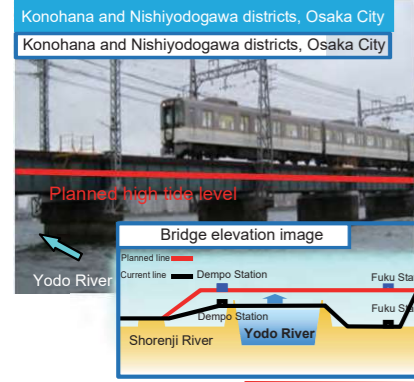
Maruyama River Retarding Basin Project | Yura River midstream channel excavation | Asuwagawa Dam Construction Project | Otagawa Dam Construction Project



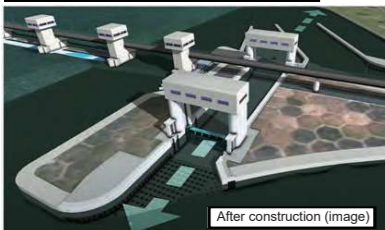
Emergency flood prevention measures at the middle reaches of the Kako River



Hanshin Namba Line Yodogawa Bridge Reconstruction Project



Yodogawa Weir Gate Construction



Countermeasures for the narrowing area of Kinokawa Fujisaki



Kumano River Improvement Project



Nabari Kawamachi Zukuri (make the city from the river) integrated inundation prevention measures



Yamato River Midstream Resilience Project (Designated as a Specific Urban River in 2021)



Direct Erosion Control Project for the Kii Mountain Range



Promotion of flood control in drainage basins

In order to respond to disasters occurring more frequently and causing more severe damage due to climate change, we consider not only the catchment and river areas but also the flooded area as one collective catchment area in our drastic flood control measures. By collaborating with all parties concerned according to the characteristics of the region, we will promote drainage basin flood control from both hardware and software perspectives.



Measures to prevent and reduce flooding as much as possible



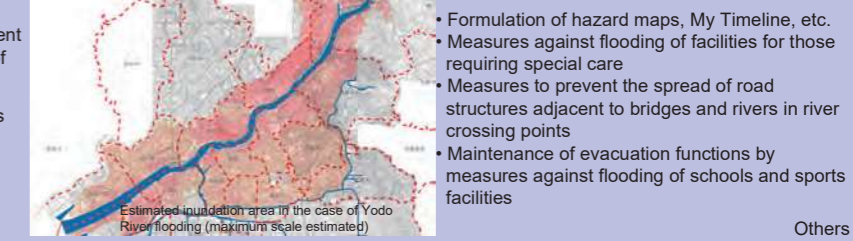
- Development of river embankments and retarding basins
- Construction and restoration of flood control dams
- Rainwater retention infiltration and drainage facilities
- Development of erosion control facilities
- Improvement of coastal conservation facilities
- Advance release of irrigation dams, etc.
- Advancing rainfall forecasts that contribute to decision-making in relation to the advance release of irrigation dams, etc.
- Improvement of paddy field retention function
- Forest maintenance and forest conservation measures
- Development of rainwater retention infiltration facilities by private companies, etc.
- Development of retarding basins and rainwater retention infiltration facilities utilizing unused

Measures to reduce what may be damaged



- Promotion of high-rise town development
- Location control and encouragement of relocation in high-risk areas

Measures to reduce damage and achieve early restoration and recovery



- Formulation of hazard maps, My Timeline, etc.
- Measures against flooding of facilities for those requiring special care
- Measures to prevent the spread of road structures adjacent to bridges and rivers in river crossing points
- Maintenance of evacuation functions by measures against flooding of schools and sports facilities

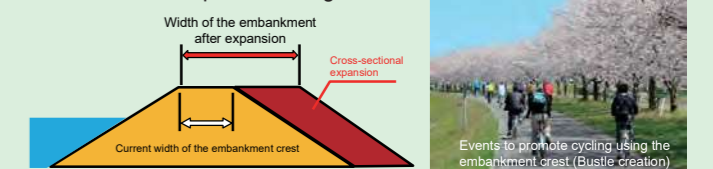
Achieving sustainable economic growth

We will promote the conservation and regeneration of the habitat, growth, breeding environment, etc., of river wildlife. We will work to both secure a favorable river environment and ensure safety and security by utilizing excavated soil and sand for wetland improvement for embankment expansion.

Wetland development

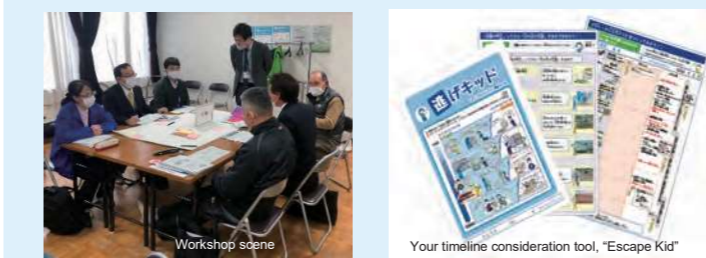


Embankment expansion using excavated sediment



Sharing and disseminating information on flood and sediment disasters linked to residents' actions

We aim for "Zero Delay in Evacuation," informing residents about flood risks and encouraging them to think about evacuation actions, as well as supporting the creation of personal disaster prevention maps and timelines.



Infrastructure usage that contributes to local and regional development through sightseeing

Viewing bridges, dams, and other public infrastructure as sightseeing resources — tours are conducted of such infrastructure in collaboration with tours conducted by private companies. These tours enter locations that people normally cannot enter and thereby help build familiarity with and understanding of the roles of civil engineering.

