

Recent trends in procurement systems and design codes in Japan

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Sharing problems

- Fast construction
 - e.g.
 - Urban Areas
- Maintenance friendly design

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Fast construction

Minimize the hindrance of local traffic flow in urban area

Accelerated construction technique is wanted when you are requested to make the road functional during the construction.



Save the environment! Minimum tree cut!

73% of Japan is classified into mountain or hilly areas.



An aerial photograph of a mountainous region. A multi-lane highway winds through the valleys. A red circle highlights a specific area on the highway, likely the entrance to the Kan-etsu Tunnel. The mountains are covered in green vegetation, and the sky is clear and blue.

1100 m deep

11 km long

Kan-etsu Tunnel

*Pan Pacific Ocean opening a window
for traffic flow Japan Sea*



NIHON DORO KODAN

Problems for fast construction

Competent agency

- Land acquisition & EIA clearance
- Preparatory works (Shifting facilities, Building work roads, etc)

Industry

- On-site construction time
 - Bad design (Unworkable design)
 - Labor intensive work process

Innovating Bidding: Incentives & Value Engineering

Construction companies want to sell their innovative technology and Government agencies want to buy to make a game-changing technology available for fast-track construction.

Competent agencies should come up with a new bidding scheme to buy the best value total solution.

Innovative contract scheme: Incentive payments

Incentive payment

= Reduced construction days x Unit price