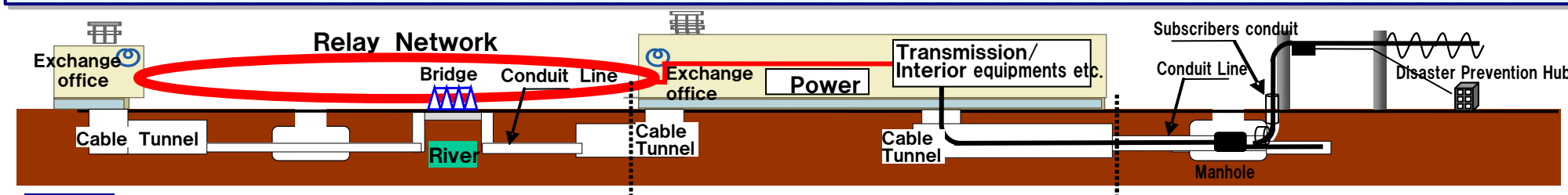
5. Making Efforts Towards Security, Safety and Reliability

Specific Measures

As part of the three-year disaster prevention plan from FY2012, NTT West is systematically implementing measures to prevent large-scale damage from a massive earthquake, such as the one expected to originate in the Nankai Trough. Approximately 10 billion yen in capital investment planned over three years

- Build relay networks and exchange offices that will not experience disruptions in communication services when a disaster occurs (review relay routes, improve water resistance of exchange offices)
- Minimize potential damage to underground infrastructure and achieve quick restoration (aim for temporary restoration within 3 days)
- Contribute to local disaster prevention/ damage reduction activities → Prior installation of special public telephones at the evacuation centers (approx. 15,000 locations planned) → BCP recommendation activities to local governments (preparation of hazard maps with community participation, etc.)



Disaster Prevention Measures	Lines (Relay Networks)	Points (Communication Bldg/Power System)	Surfaces(Access Facilities)
	Preparations to Prevent Interruption of Communications		Preparations for Quick Restoration (In general, temporary restoration within 3 days)
	Improve Quality of Relay Network Routes ① Move aerial cable routes underground ② Review relay network routes ・Create new routes in mountains ③ Secure detour routes between the bridges ④ Countermeasures to protect cable tunnels from flooding	**Improves Exchange offices Water Resistance** ①Reinforce doors(Replace with waterproof doors) ②Reinforce walls(additional concrete) ③ Cover windows and other openings ④ Protect exhaust ducts of exposed emergency power generators	**Minimize potential damage to underground /Quick Restoration** ①Install metal fixtures to prevent cable movement(between manholes and subscriber's conduit) ②Secure subscriber's conduit lines for restoration etc.