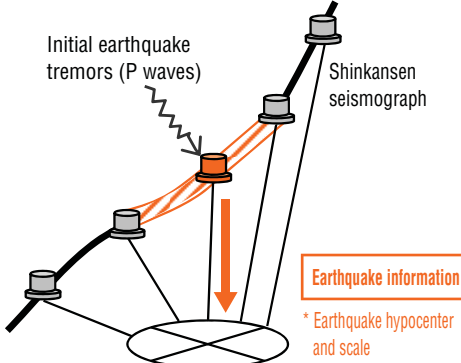


Overview of the Tokyo Metropolitan Area Conventional Rail Line Earthquake Early Warning System

Shinkansen Early Earthquake Detection System (Improved over Fiscal 2004–2006)

Shinkansen Seismograph

Estimates the earthquake hypocenter and scale from P waves



Emergency earthquake bulletin

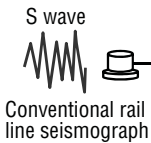
Meteorological Agency

Emergency earthquake bulletin distribution company

Tokyo metropolitan area conventional rail line earthquake early warning system

[Reception & Warning Server]

Rail sections where emergency train stop is necessary are identified from the earthquake hypocenter and scale.



Disaster information system (PreDAS)

Reception & warning server

Emergency earthquake information



"Earthquake! Make emergency stop!"

[Warning Control Device & Train Radio]

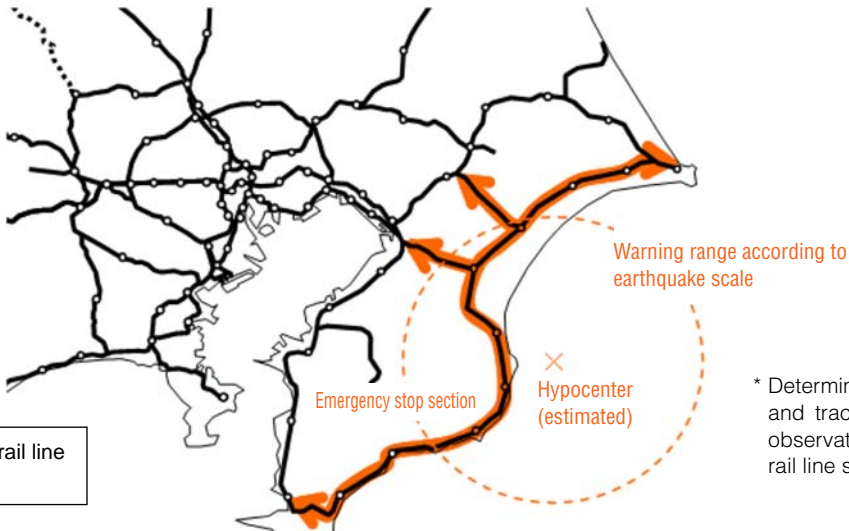
Automatically orders crew to make emergency stop

Train radio



Conceptual View of Emergency Stop Section

Emergency stop orders go only to necessary sections based on the warning range.



○ Conventional rail line seismograph

* Determine resumption of operation and track inspection according to observations made on conventional rail line seismographs.