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Damages of Great Hanshin-Awaji earthquake (17 January 1995)

90% of death are crushing death due to collapse of buildings

24% of severely or collapsed RC buildings were that built with old standards

Magnitude

Buildings

Buildings

partially damaged

7.3

104,906

144,274

6,437





II Damage Estimation of Tokyo

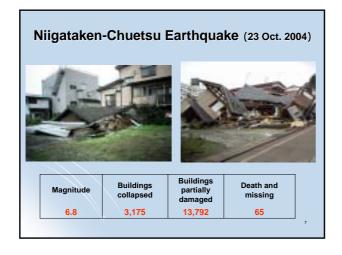
- The occurrence of a big earthquake in Minami-Kanto area is about 70% probability in the coming 30 years (Central Earthquake Research Committee, 2004)
- One fourth of the buildings may collapse when the earthquake occur

Earthquake Resistance Standards

1950 Building Standards law 1981 Revision of Building Standards law (new Earthquake Resistance Standards)

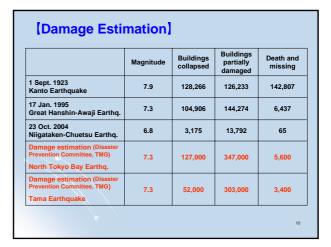
1995 Great Hanshin-Awaji earthquake

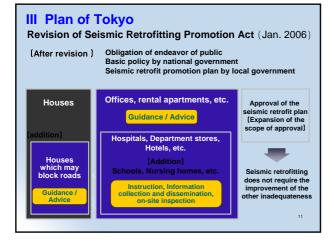
Seismic Retrofitting Promotion Act











Seismic Retrofitting Promotion Plan of TMG (Formulated in March, 2007)

Purpose and Situation

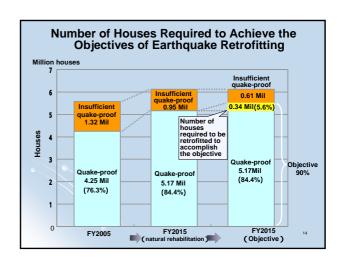
- Promoting seismic retrofitting of houses and buildings to halve the estimated damages
- Providing guidelines for municipalities for development of seismic retrofit promotion plans

Target buildings

 Houses and Buildings built before new earthquake resistance standards enforced (1 June 1981)

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Seismic Retrofitting Promotion Plan Time span - 10 years from FY2006 to FY2015 **Objectives** Ratio of quakeproof buildings Types of Buildings End of FY2005 End of FY2015 Houses (detached house, apartment) 76.3% 90% Buildings for special use 76.7% Buildings available to general public, such as department store, hotel, theater, etc. 77.6% 100% Primary and middle schools 72.8% 100% Public buildings critical to disaster reduction (Fire stations, police stations, etc.) 78.0% 100% **Buildings along emergency road**



IV Endeavor of TMG

Promotion of earthquake retrofitting of private buildings

- 1 Financial aid to the building owners
- 2 Consolidate the environment for easy seismic retrofitting
- 3 Raising public awareness and motivation

1 Financial Aid to the Building Owners

- 1 Financial aid for the houses in dense area of wooden house
- 2 Financial aid for apartment buildings
- 3 Financial aid for the houses along the emergency road

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