Protection of Cultural Heritage from Post-earthquake Fire

- Present Situation in Japan -

Kenzo TOKI
Number of Cultural Assets

Population of 100,000

National Treasure & Important Asset

Temple & Shrine
World Heritage in Kyoto (17 assets)

History of Kyoto is “History of Fire”.

Not burned in the past
- 京都の世界遺産
- World Heritage
- in Kyoto
- 17 assets

Burned in the past
- 延暦寺 788
- 光厳寺 951
- 金閣寺 1397
- 竜安寺 1255
- 仁和寺 1255
- 天竜寺 1255
- 仁和寺 888/1641
- 下鴨神社(11世紀) / 1467
- 二条城 1603
- 本願寺 1591
- 清水寺 798/1633
- 東寺 796/1603
- 上賀茂神社 1000
- 鎌倉時代 1200
- 高山寺 1200
- 銀閣寺 1482

Not burned in the past
- 仁和寺 888/1641
- 竜安寺 1255
- 仁和寺 888/1641
- 下鴨神社(11世紀) / 1467
- 二条城 1603
- 本願寺 1591
- 清水寺 798/1633
- 東寺 796/1603
- 上賀茂神社 (平安時代)
Populated area in Kyoto 110 years ago.

Populated area is expanded to 5-6 times in 100 years!
Next strong shaking due to inland earthquake is anticipated.

Earthquakes affected Kyoto due to Intra-plate Active Faults

Major Inter-plate Earthquakes in Nankai Trough

Kobe earthquake

Next Big-one
NGO
Central and local government
Academia

These sectors have done something for protection of cultural heritage from earthquake hazard.
The Council for Protection of Cultural Heritage from Post-earthquake Fire was organized in October 1997.

Non-Profit Organization for Protection of Cultural Heritage from Natural Disasters has been approved by Metropolitan Tokyo in August 1999.

The NGO has conducted research and assessments of possible projects.
Protection of Cultural Assets and Traditional Community from Natural Disasters

The committee was organized by the Cabinet Office in June 2003 and released the report in July 2004.

Report of the Committee

Protection of Cultural Assets and Traditional Community from Earthquake Hazard

Related ministries and agencies of Japanese Government are responsible for undertaking effective measures for protection of cultural monuments and historical community from the thread of earthquake hazard.

Small but strong step for promotion of the issues related to protection of cultural heritage from earthquake disaster.
Center of Excellent (COE) Project of Japanese Government

“Mitigation of Urban Cultural Heritage” by Ritsumeikan University

Historical, Phenomenological Research
- History of natural disasters
- Simulation of past damage processes

Multidisciplinary Studies
- Integrated methods and Tools

Technological Research
- New technology to protect historical cities from natural disasters

Political Science Research
- Public policy and planning on the disaster prevention system for the historical city
Significance and importance of protection of cultural heritage from natural disaster are getting recognized gradually in Japan.

Thank you very much for your attention.