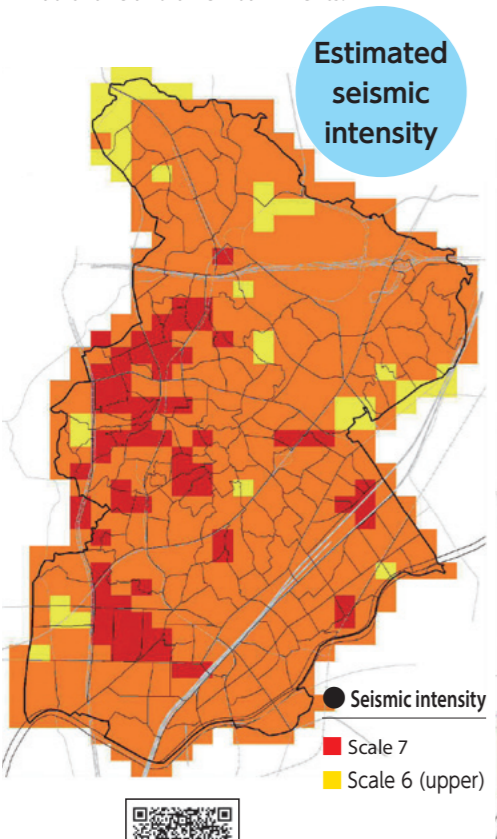


There are no safe places in Japan that do not experience earthquakes

What if the Uemachi fault belt became active and a Great Hanshin Earthquake-level struck Suita City?

Estimated seismic intensity

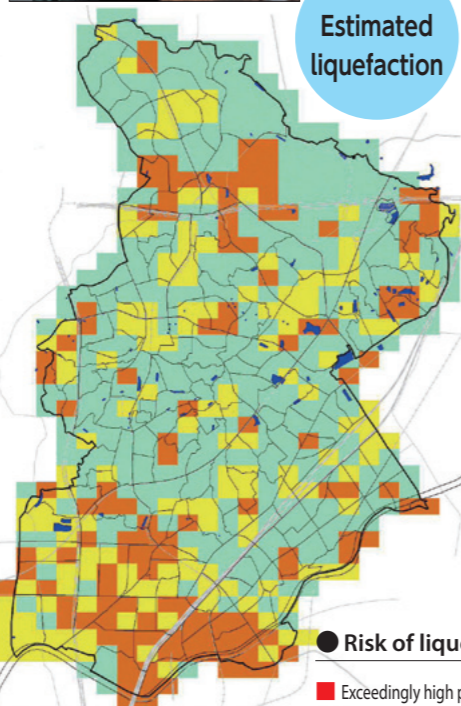
Almost the entirety of Suita City would suffer an earthquake of at least 6 Strong on the Japanese scale. Seven on the scale would also be registered on the eastern side of the Uemachi fault zone and on embankments.



Estimated seismic intensity

Estimated liquefaction

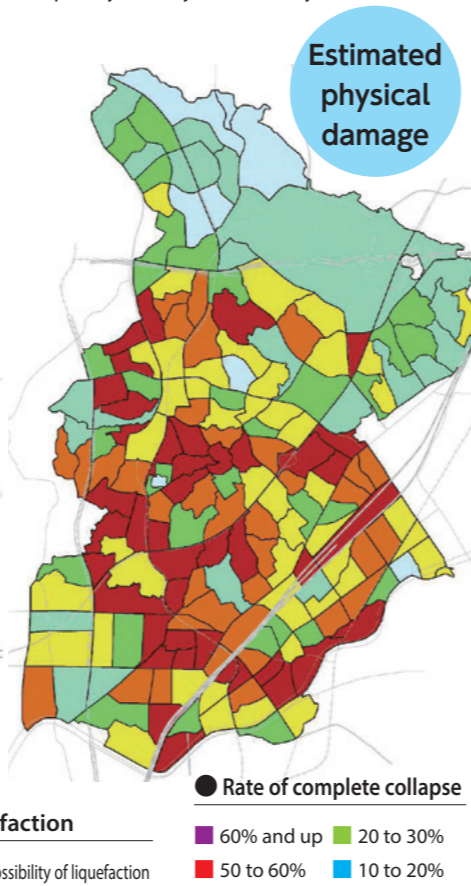
Liquefaction of sand would be developed through the outburst and fluxion of sand in not only the low-lying area on the Kanzaki River and Ai River in the south of the city but the embankments.



Estimated liquefaction

Estimated physical damage

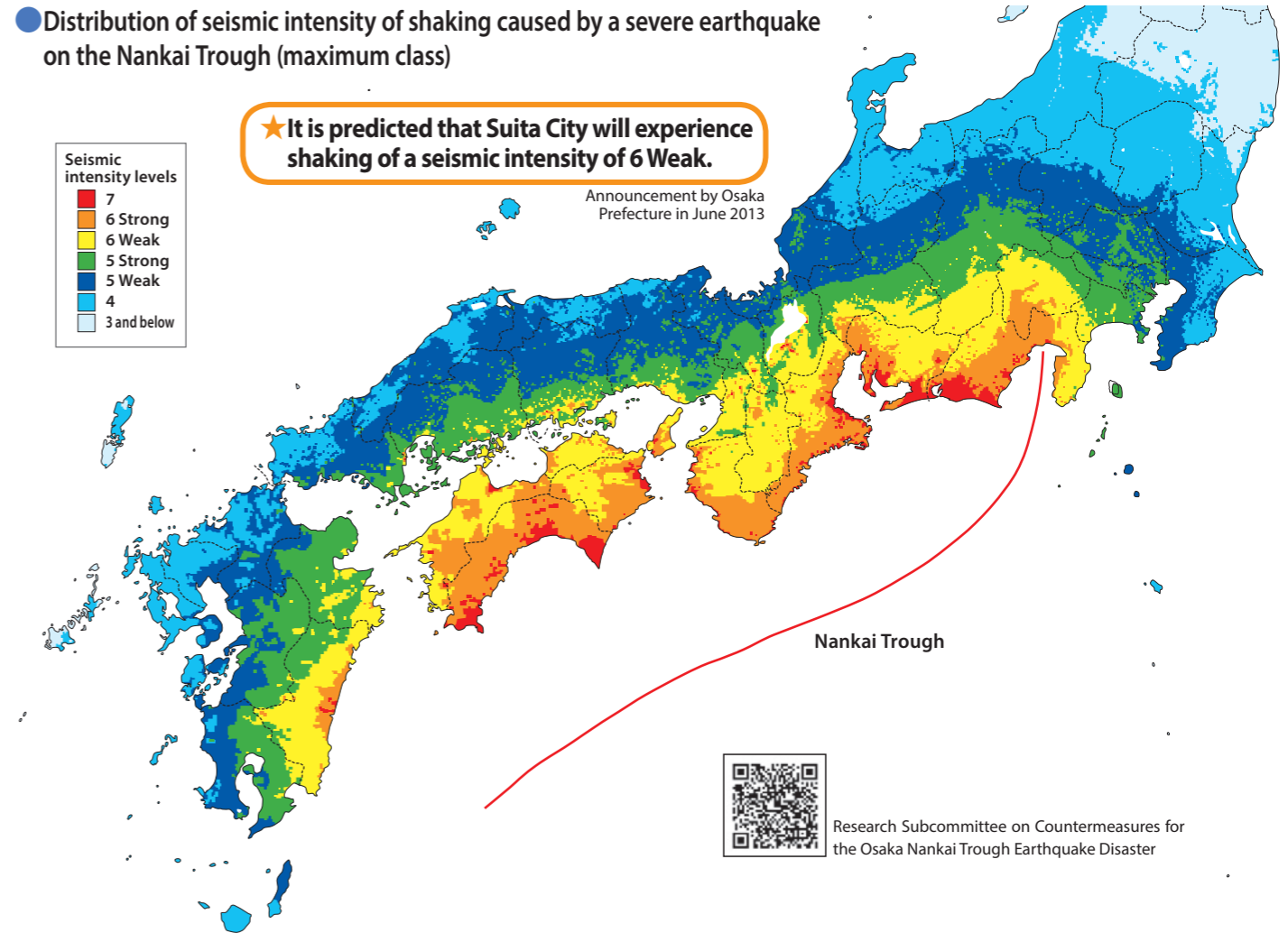
About 76% of wooden buildings and 32% of other type buildings would be half or completely destroyed in the city.



Estimated physical damage

If a Nankai Trough earthquake (also called a Nankai megathrust earthquake) were to occur, it is predicted that great damage would be caused by the powerful tremors and resulting tsunamis. After suffering from the Great East Japan Earthquake, the country has organized new predictions for the severe earthquakes that are expected to occur on the Nankai Trough. It predicts that there is the possibility that 687 cities, towns and villages in 24 prefectures will experience shaking of a seismic intensity of 6 Weak or greater on the Japan Meteorological Agency seismic intensity scale. There is a possibility that Suita City will suffer shaking of a seismic intensity of 6 Weak.

Distribution of seismic intensity of shaking caused by a severe earthquake on the Nankai Trough (maximum class)



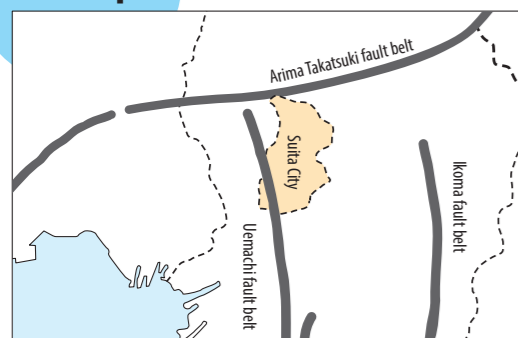
★ It is predicted that Suita City will experience shaking of a seismic intensity of 6 Weak.

Announcement by Osaka Prefecture in June 2013



Research Subcommittee on Countermeasures for the Osaka Nankai Trough Earthquake Disaster

Estimated location of earthquake source fault



Reference: "Shinpen Nihon no Katudanso"

Estimated casualties

A great number of casualties would be produced by direct damage from the earthquake. About 50,000 people would be forced to live in evacuation centers.

● Temporary evacuation* denotes those who temporarily evacuate for the prevention of secondary disaster.

Estimated casualties			
People killed		People injured	
Number	Population ratio	Number	Population ratio
1,364	0.4%	4,628	1.3%
Estimated evacuees			
Affected persons		Evacuation life	
Number	Population ratio	Number	Population ratio
179,779	50.4%	52,134	14.6%

"Earthquake Disaster Preventative Countermeasures Promotion Areas" for a Nankai Trough earthquake

In principle, these are areas that are predicted to experience one of the damage types listed below in the event of a Nankai Trough earthquake. Suita City is in category 1.

- 1 Areas of Seismic Intensities of Six-Weak and Above (Conspicuous Damage Caused by Earthquake Shaking)
- 2 Areas predicted to experience a "large tsunami" (more than 3 meters tall) but do not have coastal embankments taller than 3 meters.

*Areas expected to have large amounts of jetsam: Important Harbors and Designated Important Ports and Harbors

Past Occurrences of Nankai Trough earthquakes

In the past, the Nankai Trough earthquakes have occurred roughly every 100-150 years. As is shown in the diagram at right, there are many cases in which earthquakes in the three hypocentral areas (Tokai, Tonankai, and Nankai) occur simultaneously or within a short period of time of one another.

