Fukui Prefecture Koshi High School

Making Fukui More Resilient Against Heavy Snow

Consider from disaster risk reduction and disaster prevention

Motivation

These days, there are many disasters in Japan, including Fukui.

However, present efforts to reduce and prevent disaster risk are not sufficient.

To make Japan resilient, we'll make Fukui more resilient as a first step.

Present situation

In Japan…

Kyoto and Toyama are chosen as two of 100 Resilient Cities (100RC)

What is 100RC?

100 Resilient Cities-Pioneered by the Rockefeller Foundation (100RC) is dedicated to helping cities around the world become more resilient to the physical, social and economic challenges that are a growing part of the 21st century.

National Resilience Basic Plan and **National Resilience Regional Plan** were made.

In Fukui…

Fukui Pre., Fukui city and Tsuruga city made a National Resilience Regional Plan.

National Resilience Plan has two measures,

a non structural measure and **a structural measure.**

In Fukui, it snows heavily every year.

Heavy snow in 1981 and 2018 are representative. Many people were injured and died while they attempted to remove snow. So, we have to make a solution.

Solution1; Zero utility pole

An electric wire covered by snow has a possibility of **disconnection.**

→An electric wire covered by snow

In Ote, Fukui, electric wires were buried below ground.

<Before construction> <After construction>

We should make this effort spread more widely.

Solution2; A steep roof

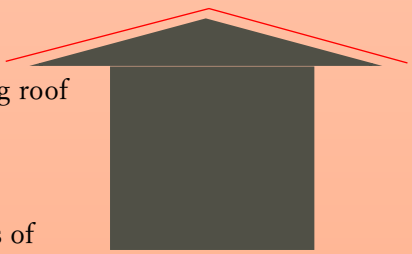
Many people were injured or died because of being struck by falling snow from roofs and trying to clear snow.

We suggest *"cover kouhou"* to prevent snow accumulation on the roof and falling snow from the roof.

We think a steep roof can make the number of accidents decrease.

What is *Cover kouhou*?

Construct new material Of a roof on the existing roof without removal.



"Gassho Zukuri" names of Shirakawa-go village were effective at preventing snow build-up. ↓