

- ◆ SIP “Enhancement of Social Resiliency against Natural Disasters” supports the development of a new technology for disaster management by the local government and the implementation and spread of research products in society.

◆ For more information ◆

## Tsunami inundation forecast system

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## “Nige-Tore” App for Tsunami Evacuation Drill

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- ◆ SIP “Enhancement of Social Resiliency against Natural Disasters” HP

<http://www.jst.go.jp/sip/k08.html>

# Real-time tsunami inundation forecast system

high precision  
(10 m mesh)

To save more lives in a tsunami disaster,  
the tsunami inundation  
forecast is established for the first time.



## What is the real-time tsunami inundation forecast system ?

Use of off-shore tsunami data observed by the seafloor observation network (S-net\*)

(※Large-scale dense (150 observation stations) real-time seafloor observation network for earthquakes and tsunamis on the Pacific coast from Chiba prefecture to Hokkaido prefecture)

Detect tsunami occurrence within a few minutes just after an earthquake, along with high-precision (10 m mesh) forecast inundation range and depth

Source : Yamada Town, Iwate Prefecture

Contribute to resident safety evacuation and  
resident rapid relief activity based on high-  
precision (10 m mesh) tsunami inundation forecast  
information within a few minutes just after an  
earthquake

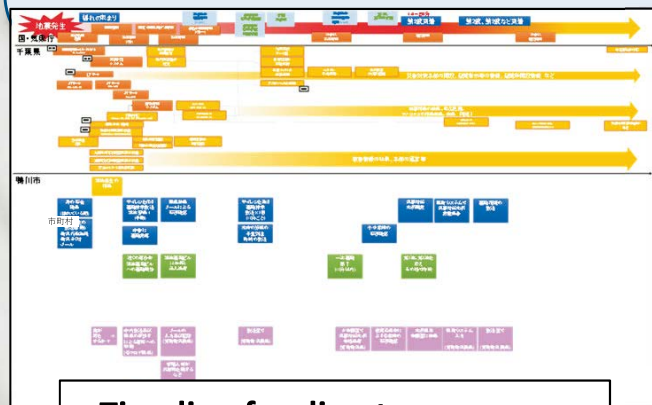


To save more **lives**

# From forecast of inundation depth with high precision to the linked tsunami evacuation drill

## ◆Tabletop exercise in Chiba prefecture

- ◆ Construction of a tsunami forecast system that uses off-shore tsunami data observed by S-net
- ◆ Establishment of utilization methods for real-time forecast information for effective response by local governments

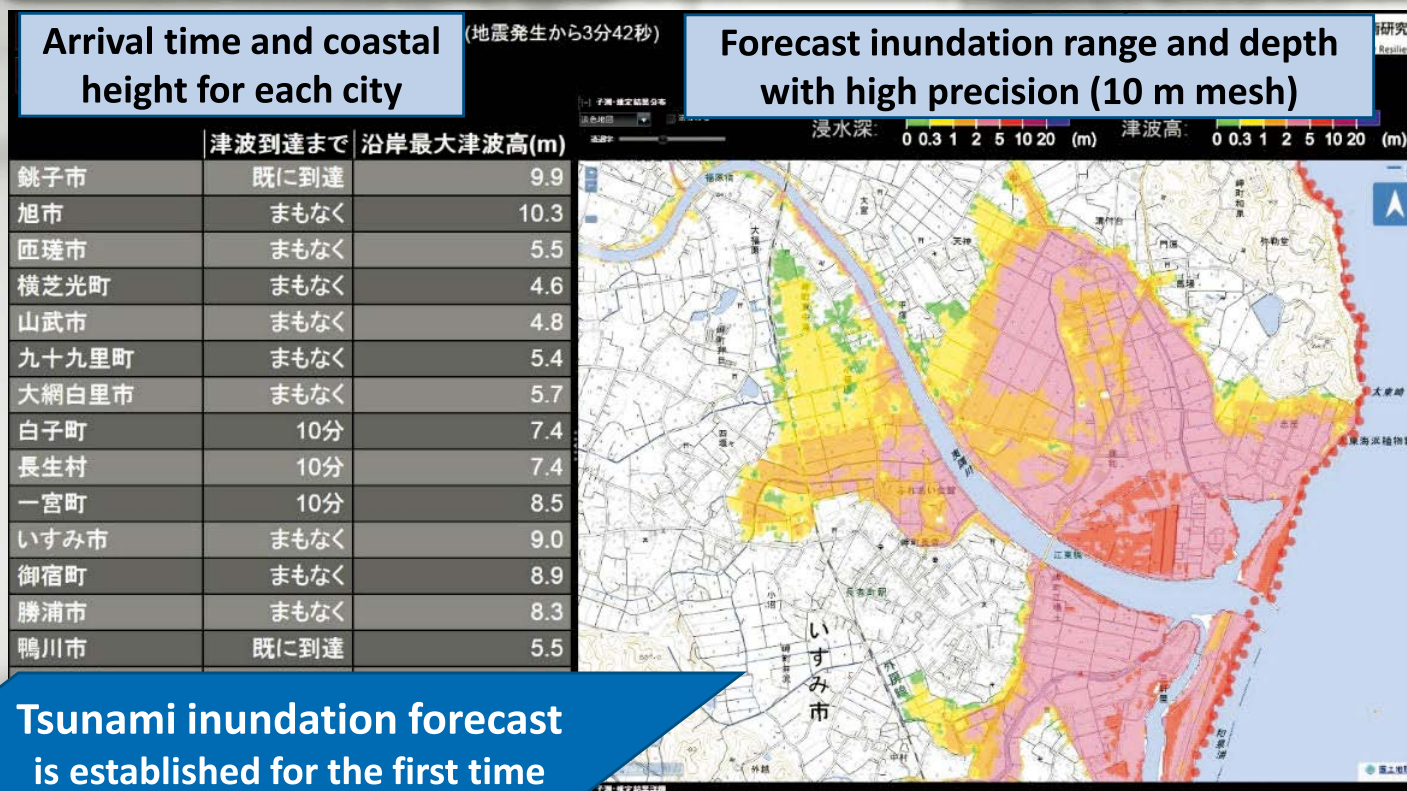


Timeline for disaster response



Tsunami forecast system in Chiba prefecture

- ◆ Supporting residents subjective and appropriate evacuation behavior with high-precision (10 m mesh) tsunami inundation forecast information



Tsunami inundation forecast is established for the first time

## ◆Tsunami evacuation drill for Kamogawa city

Utilizing tsunami inundation forecast information as follows

- ◆ Understanding the predicted inundation
- ◆ Securing the safety of firefighting activities
- ◆ Reporting to disaster response agencies



Demonstration experiment in Chiba prefecture

## ◆“Nige-Tore” App for Tsunami Evacuation Drill

About Smartphone App “Nige-Tore”

“Nige-Tore” served as an effective interface tool which successfully visualized dynamic interaction between human action, i.e., evacuation behavior, and natural phenomenon, i.e., tsunami movement. Anyone who possesses a smartphone can conduct a tsunami evacuation drill anytime, anywhere, and with anyone!

