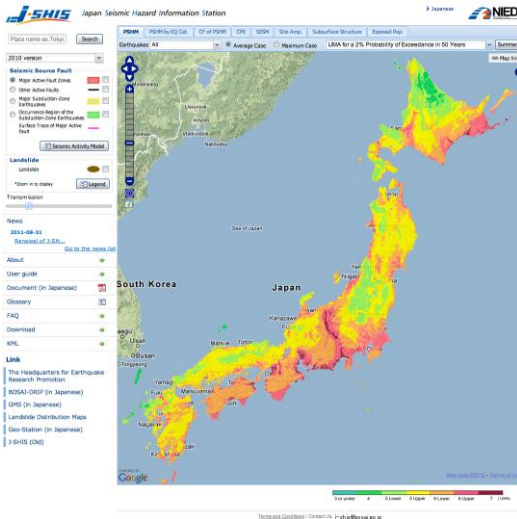


J-SHIS System and Some Applications Using J-SHIS API

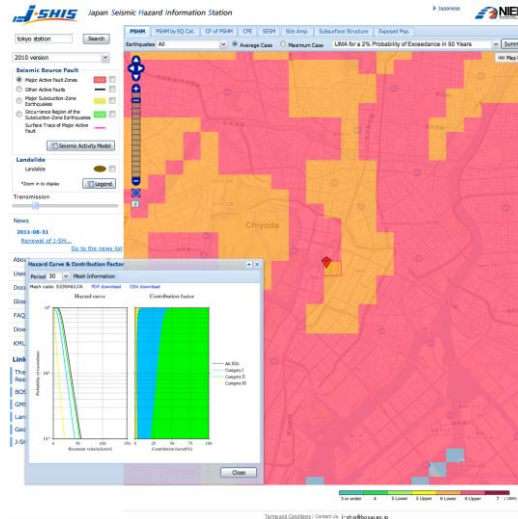
Shinichi Kawai

NIED, Japan

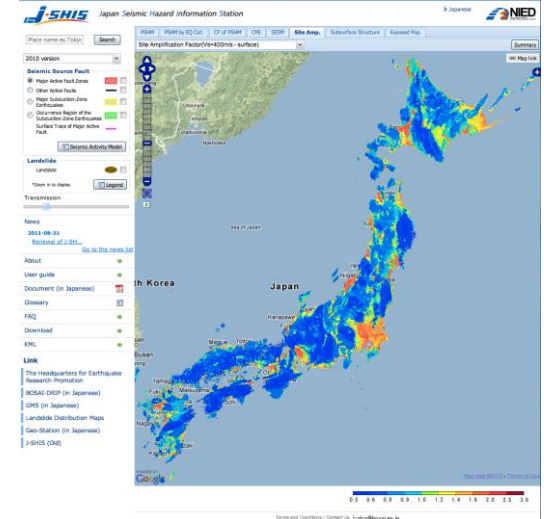
J-SHIS Maps



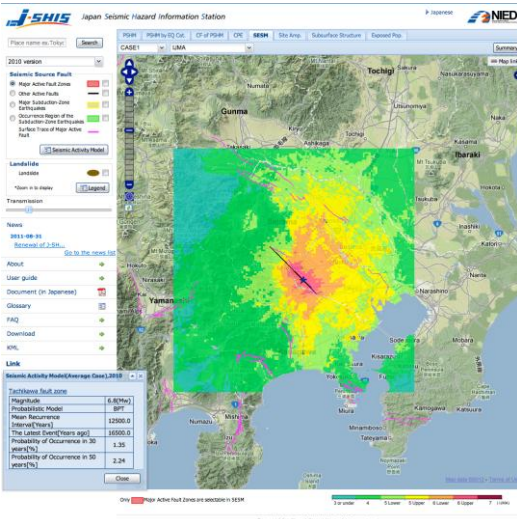
PSHM



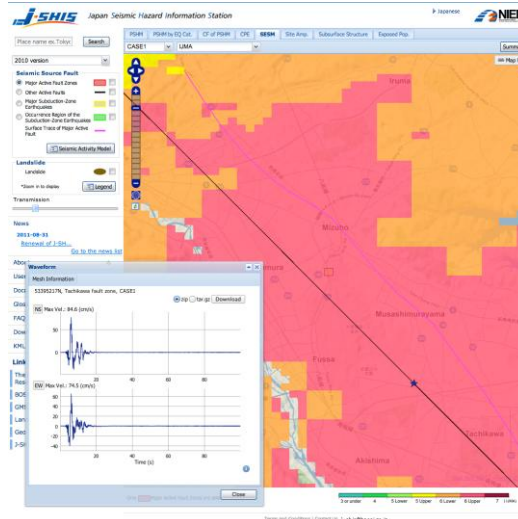
Hazard curve



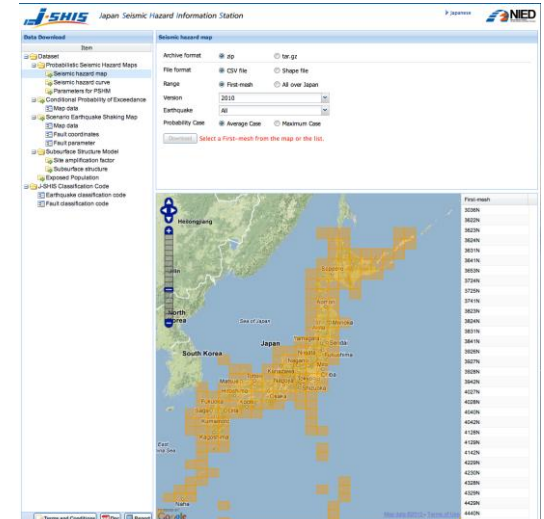
Amplification factor



SESM



Wave form



Data download

J-SHIS Maps

- Main users
 - Researchers, Professionals, Semi Professionals including municipalities and companies
- General users
 - Not easy to use J-SHIS Maps
- Some improvements about J-SHIS system
 - Introducing the Portal Site, J-SHIS Portal
 - Providing the GIS data such as WMS, WFS, KML, Shape format file
 - Providing the J-SHIS API Service

J-SHIS Portal

J-SHIS was established to help prevent and prepare for earthquake disaster by providing a public portal for seismic hazard information across Japan.

START
J-SHIS Maps

Get Started on J-SHIS Maps

What are Seismic Hazard Maps?

About J-SHIS

Using J-SHIS Maps

2012.02.22 About J-SHIS

2012.02.22 Using J-SHIS Maps

2012.02.22 What are the National Seismic Hazard Maps for Japan?

2012.02.15 Terms of Use / Disclaimer

2012.02.15 Contact us

SEISMIC HAZARD ASSESSMENT FOR THE NEXT GENERATION MAP

Probabilistic Seismic Hazard Assessment Issues in the island arc of Japan and Taiwan

HERP

Former J-SHIS

Home | Articles | Downloads | Glossary | FAQ | Links | Terms of Use / Disclaimer | Sitemap | Contact Us

NIED NIED National Research Institute for Earth Science and Disaster Prevention

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- Get some information about
 - J-SHIS
 - Foundation for an understanding of Seismic Hazard
- Contents
 - Articles
 - Downloads
 - Glossary
 - FAQ
 - Links

J-SHIS Portal

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J-SHIS Portal

Referring to the map



Get some explanation

J-SHIS Maps

J-SHIS Portal

[TOP](#) > [FAQ](#) > How can I get the waveform data for the Scenario Earthquake Shaking Maps in J-SHIS?

How can I get the waveform data for the Scenario Earthquake Shaking Maps in J-SHIS?

The waveform data are available from Autumn 2011. You can download the data in K-NET ASCII format for each site.

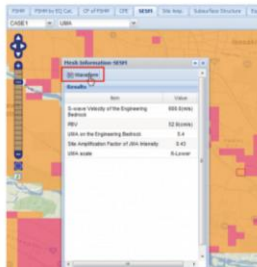
How to download

1. Open [J-SHIS Map](#) by a web browser.
2. Click "SESM" tab.

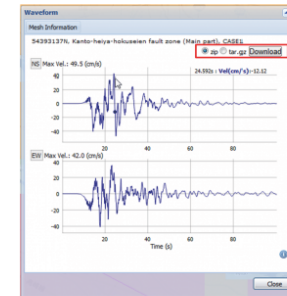


Open J-SHIS Map and click on "SESM" tab.

3. Click a source fault on the map view. The detailed information window and the map of the selected fault are shown.
4. Zoom in to the map and double-click a mesh. "Mesh information-SESM" window about 250 m mesh (shown with a red rectangle in the map view) that you double-clicked appears.
5. You can see velocity waveform graphs by clicking "Waveform" button in "Mesh information-SESM" window.



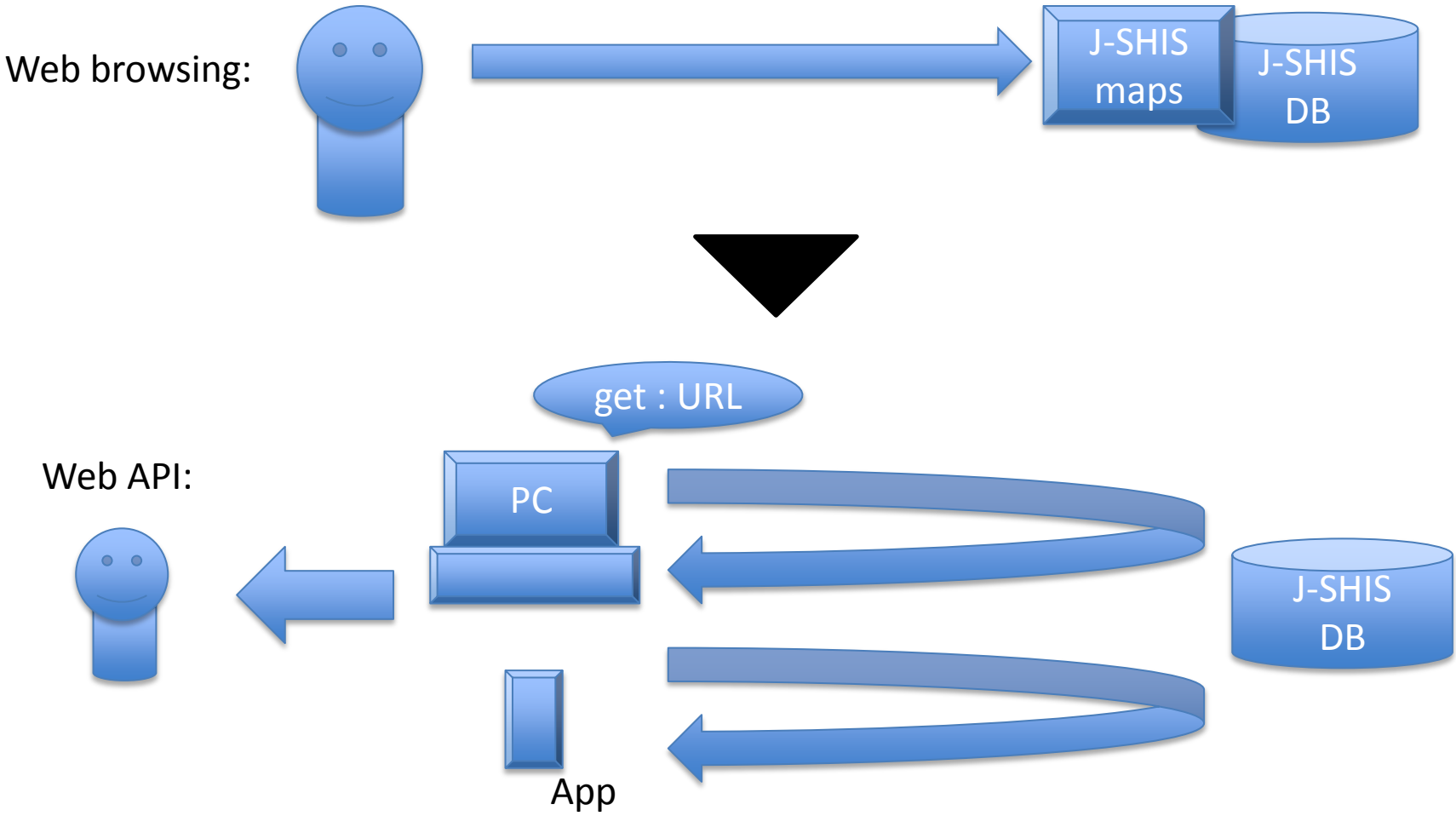
"Download" button.



Select an archive format and click on "Download" button.

Category : [FAQ](#) | Tagged : [J-SHIS](#), [Simulation](#)

J-SHIS API



Applications using J-SHIS API

- Web application
 - Digital newspaper article
 - Related web application
- Mobile application (iOS or Android device)
 - J-SHIS
 - Moshi yure

Applications using J-SHIS API

- Web application -

Article
in short

朝日新聞 揺れやすい地盤 災害大国 迫る危機

現在位置：朝日新聞デジタル 揺れやすい地盤

おすすすめ (2,615)



軟弱地盤に3800万人居住 防災科研、分析結果発表へ

日本の人口の3割にあたる約3800万人が、地震で揺れやすい軟弱な地盤の上に住んでいます。軟弱な地盤は首都圏や大阪圏を中心に都市部で広がっており、巨大地震に見舞われると甚大な被害が生じる可能性があります。[詳細へ]

最新の記事へ | 南海トラフ地震の被害想定 | 是元の活動欄

あなたの街は？

住所や地域名を選択すると、その地域の揺れやすさの目安（表層地盤増幅率^①）、地形の種類などが表示されます（防災科学技術研究所「地震ハザードステーション」をもとに作製。地震の想定主体は都道府県）。

※お使いのブラウザによっては正しく表示されない場合があります。

選択してください

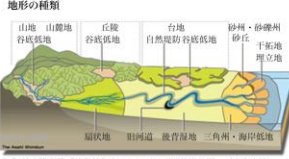
Select the address

Web
application
related to
the above
topic

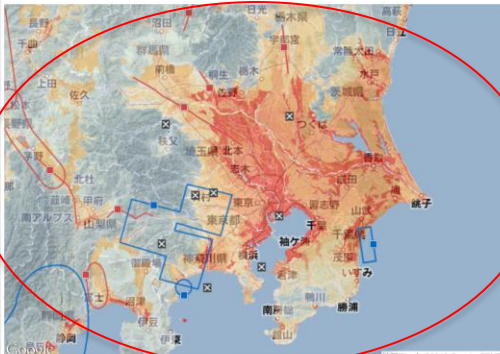
「大字・町丁目位置参照情報(2011年版) 国土交通省」をもとに作製。市町村合併が反映していない部分もあります。

揺れやすさの目安（表層地盤増幅率）

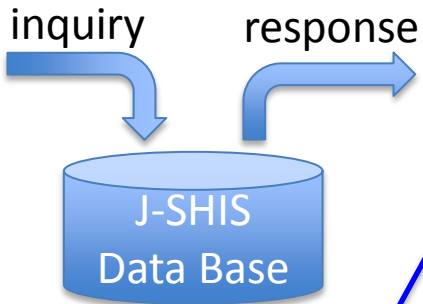
地形の種類



出典: 国土院 国土院「建設技術者のための地形図読取入門」(古今書院刊)に石井一徳氏が加筆



地図データ ©2012 Google, ZENRIN



朝日新聞 揺れやすい地盤 災害大国 迫る危機

現在位置：朝日新聞デジタル 揺れやすい地盤

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※お使いのブラウザによっては正しく表示されない場合があります。

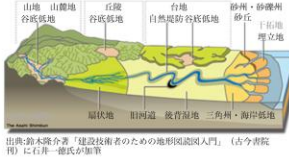
東京都 千代田区 霧が岡一丁目

2.267765
特に揺れやすい

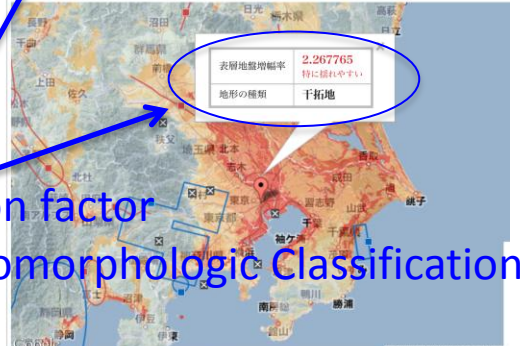
「大字・町丁目位置参照情報(2011年版) 国土交通省」をもとに作製。市町村合併が反映していない部分もあります。

揺れやすさの目安（表層地盤増幅率）

地形の種類 干拓地



出典: 国土院 国土院「建設技術者のための地形図読取入門」(古今書院刊)に石井一徳氏が加筆



地図データ ©2012 Google, ZENRIN

Site amplification factor
Engineering Geomorphologic Classification

Click the map

Applications using J-SHIS API

- Mobile application, J-SHIS -

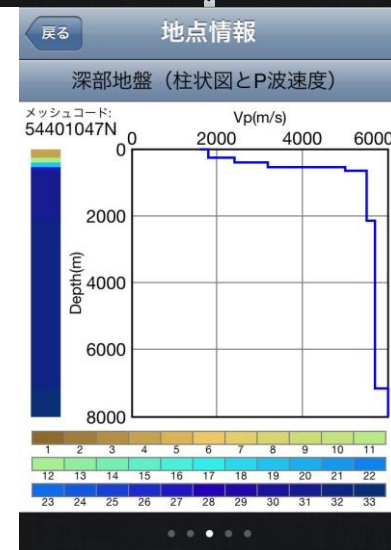
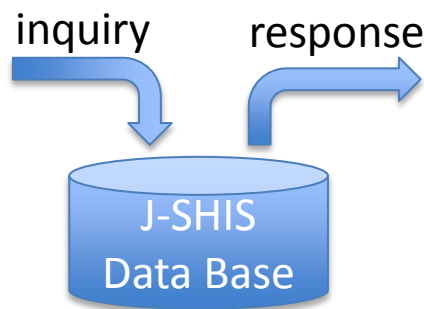


Zoom up



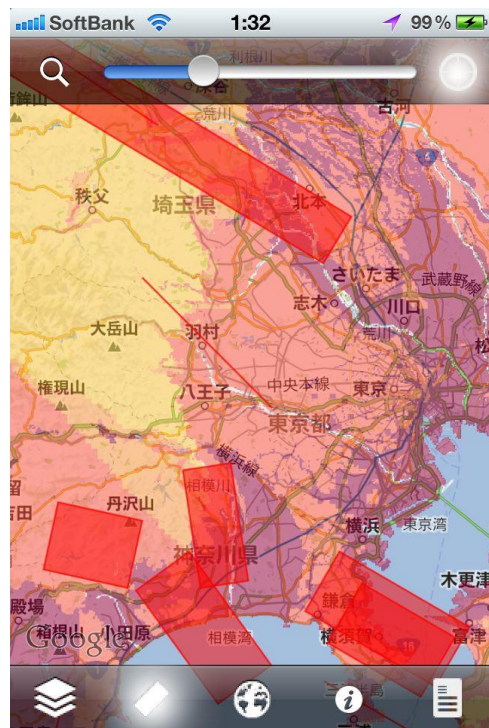
Applications using J-SHIS API

- Mobile application, J-SHIS -

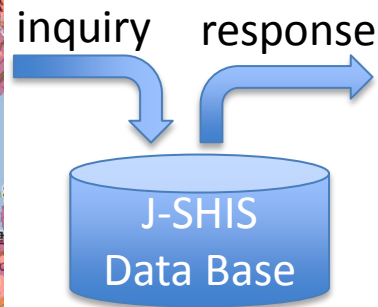


Applications using J-SHIS API

- Mobile application, J-SHIS -

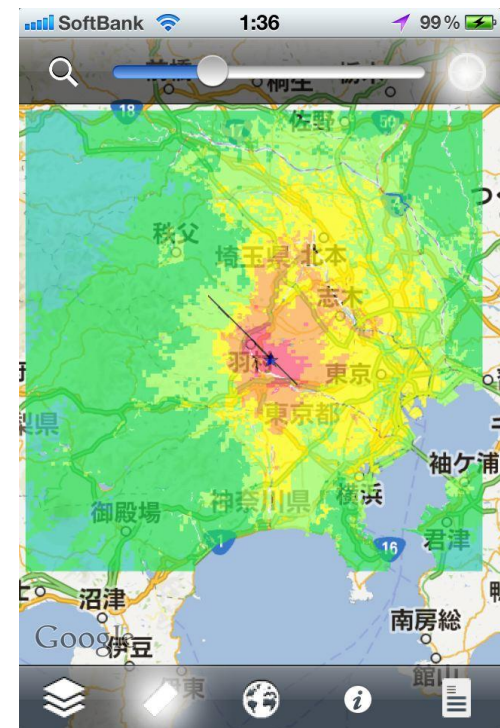


Select one fault



立川断層帯	
2010年平均ケース	
マグニチュード	6.8(Mw)
確率モデル	BPT
最新活動時期[年前]	16500.0
平均発生間隔[年]	12500.0
30年発生確率[%]	1.35
50年発生確率[%]	2.24
想定地震	
ケース1	

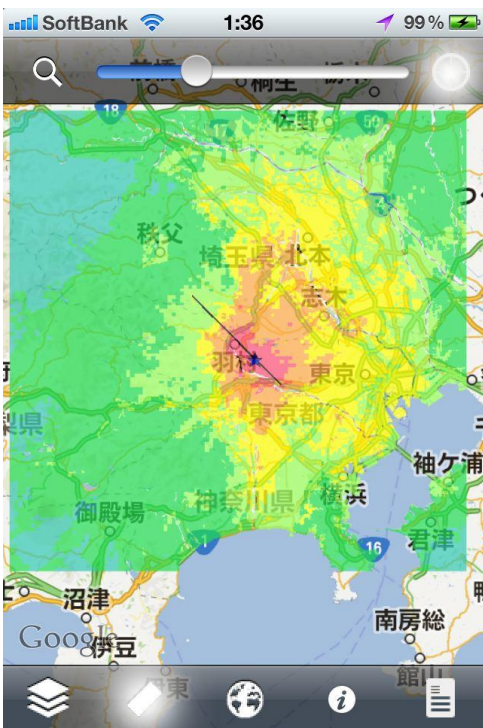
Information about the fault and select the scenario



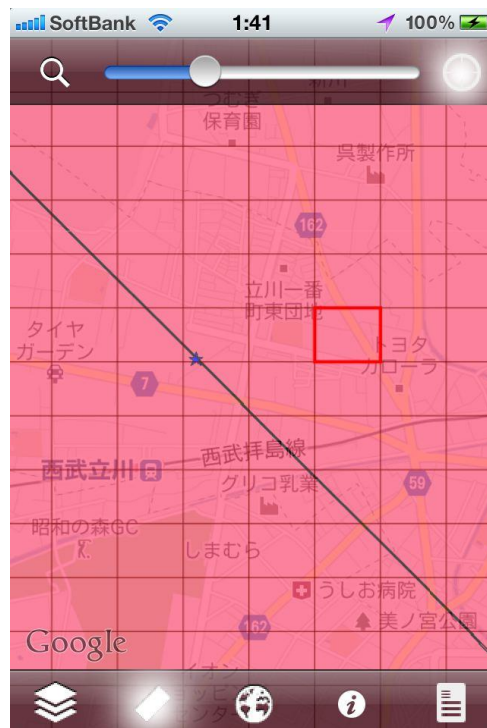
SESM

Applications using J-SHIS API

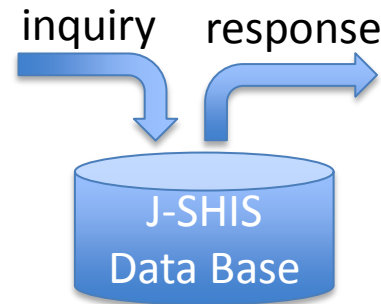
- Mobile application, J-SHIS -



SESM



Zoom in
and
select the mesh



Information
about the mesh

Applications using J-SHIS API

- Mobile application, Moshi Yure -

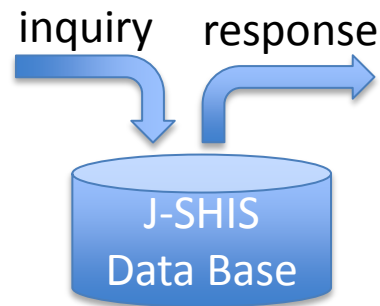
- Moshi Yure
 - Moshi (もし): If
 - Yure (ゆれ): Shaking
 - If the huge earthquake occurs here now, what happens to me? / what kind of disaster do I have?

Applications using J-SHIS API

- Mobile application, Moshi Yure -



Take a picture
and get
a location information



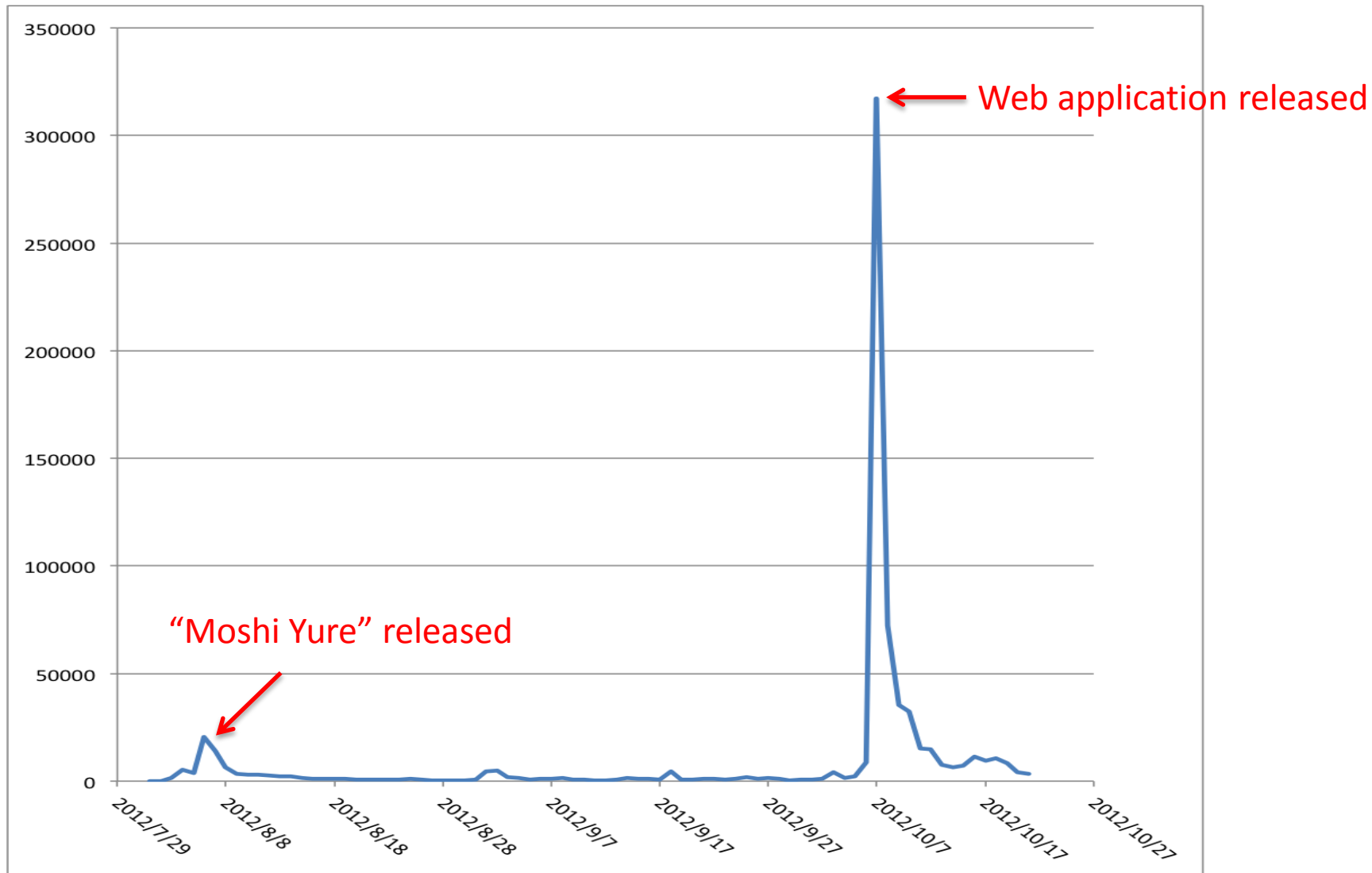
Evaluated result
with
virtual disaster image



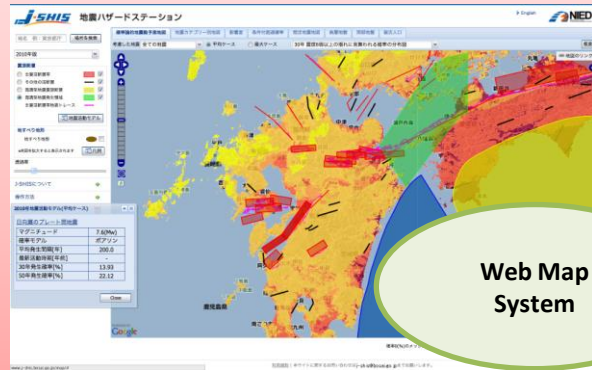
Hazard information



Access counts of J-SHIS API



J-SHIS Map



Browser
Map View



Web Map System

J-SHIS API

: Web service using J-SHIS data.

Web Feature Service

Restful API Service

Web Mapping Service

Smart Phone
Feature Phone
Web Service

Service Provide



J-SHIS Portal



Browser
Browse



Information Site

J-SHIS Labs

Long Period Ground Motion

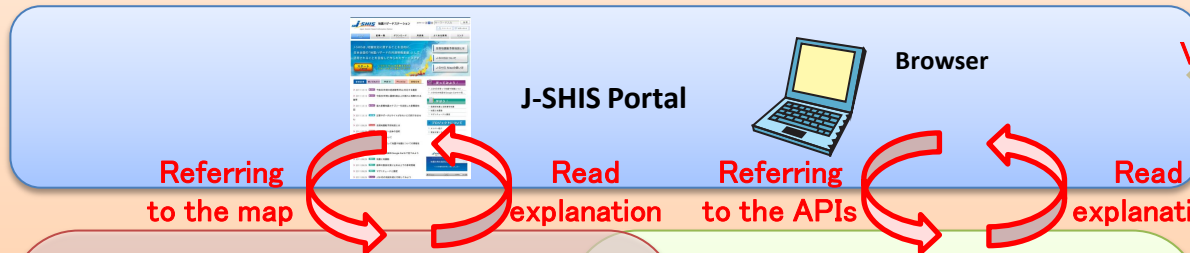
Map comparison Page

※J-SHIS Labs coming soon...



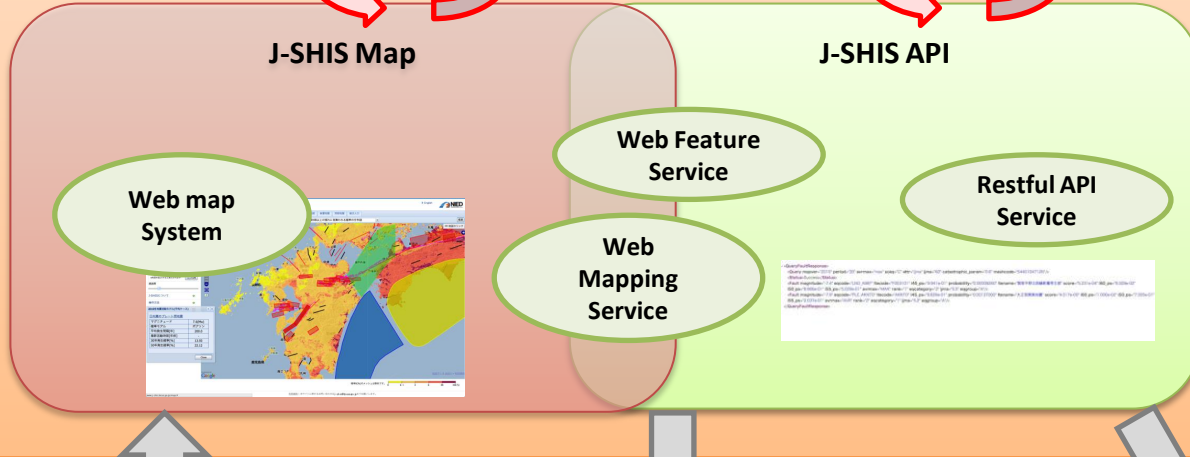
J-SHIS | Japan Seismic Hazard Information Station

Japan Seismic Hazard Information Station

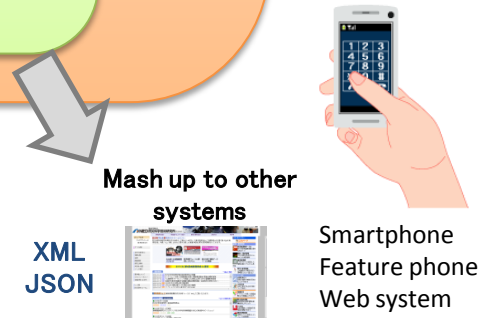
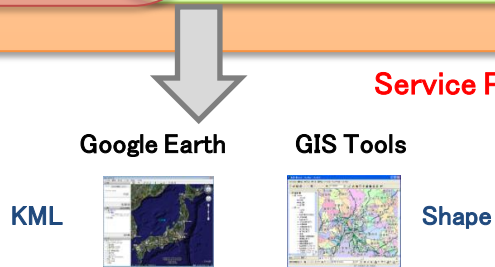
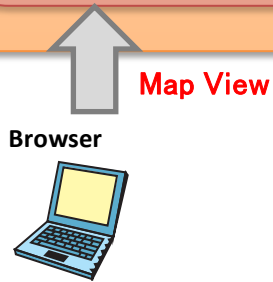


Beginners of Seismology

explanation article Print glossaries English ver.



J-SHIS Labs



Semi-professional Users

Includes municipalities, enterprises

Professional Users

GIS Application users

WEB Servicers and Application Developers