



DOST-Project NOAH

AMF Lagmay

Project NOAH

- 1) 1500 sensors (AWS, ARG, AWLS)
- 2) High-resolution digital landscape (LiDAR)
- 3) High-resolution flood hazard maps
- 4) IEC, TV and radio interviews, print media campaign, use of the social-media media platforms



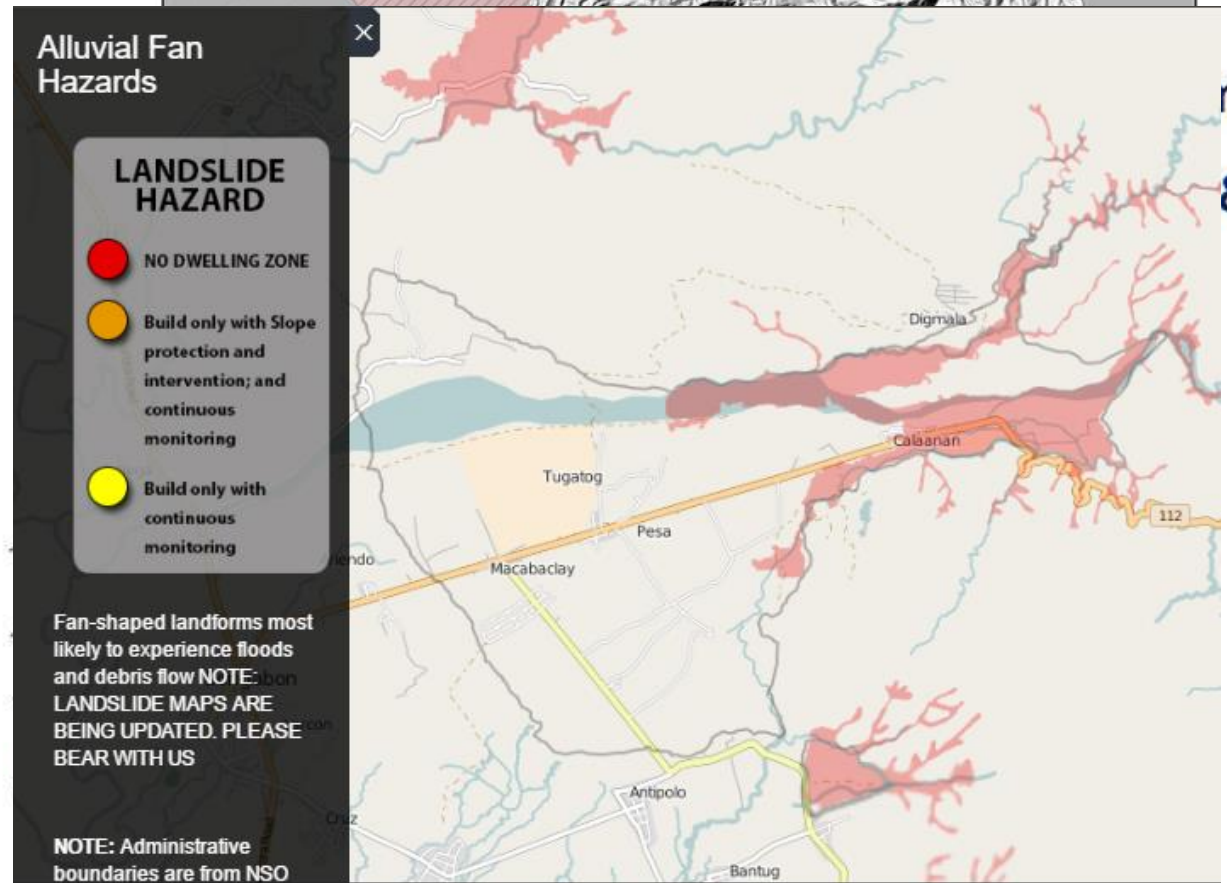
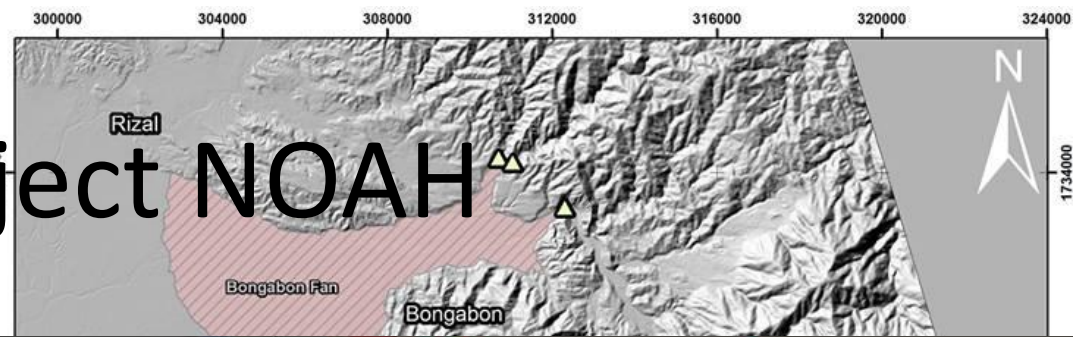
Project NOAH

- 5) High resolution multi-scenario multi-hazard maps
- 6) High-resolution landslide hazard maps for the entire Philippines
- 7) Inventory of 12,592 landslides (2003-2016)



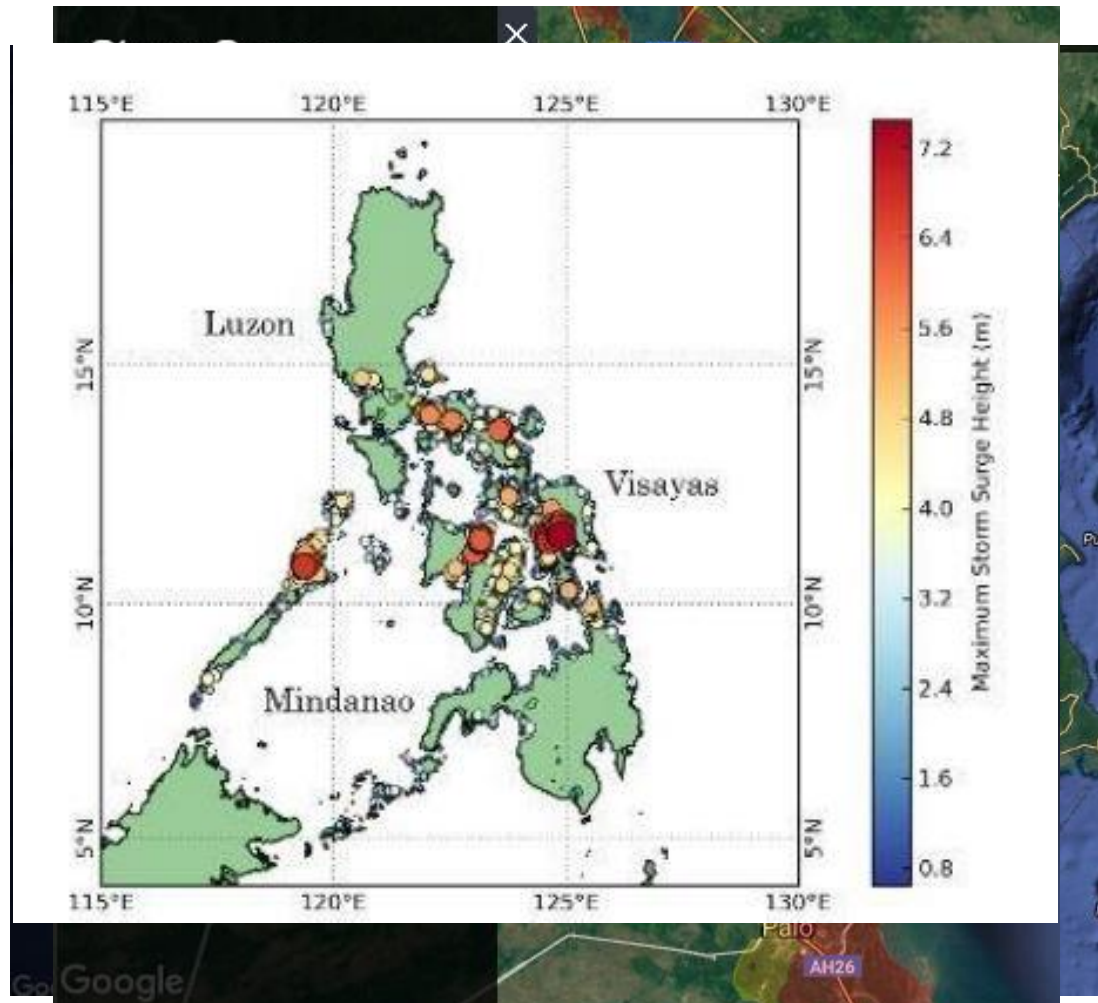
Project NOAH

- 8) Identification of 1,152 alluvial fans
- 9) High-resolution debris flow hazard simulations for all alluvial fans of the country
- 10) Determination of landslide rainfall trigger thresholds

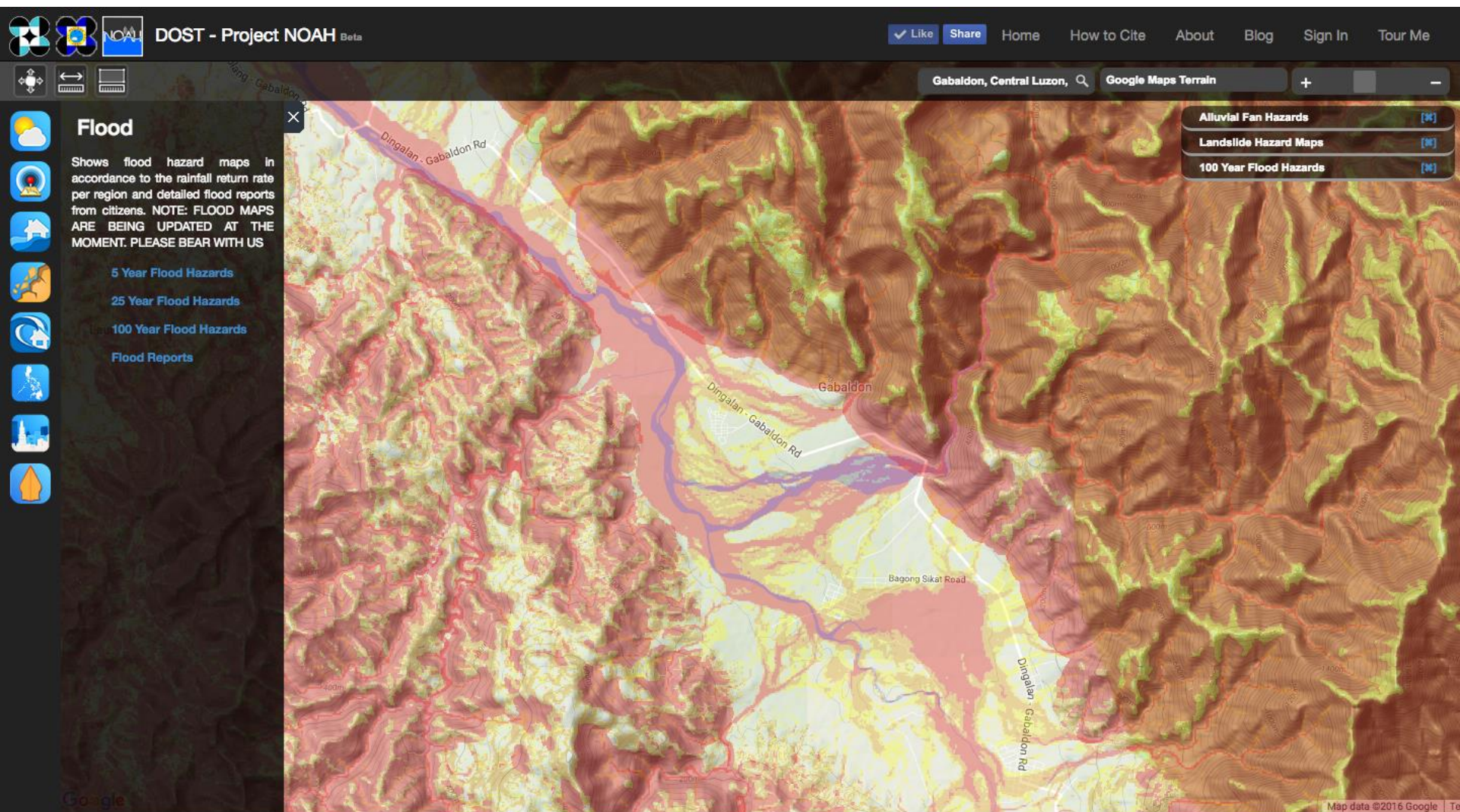


Project NOAA

- 11) Rainfall measurement and prediction using Doppler
- 12) Probabilistic Storm Surge Hazard Maps for the entire country
- 13) Most vulnerable provinces to storm surges

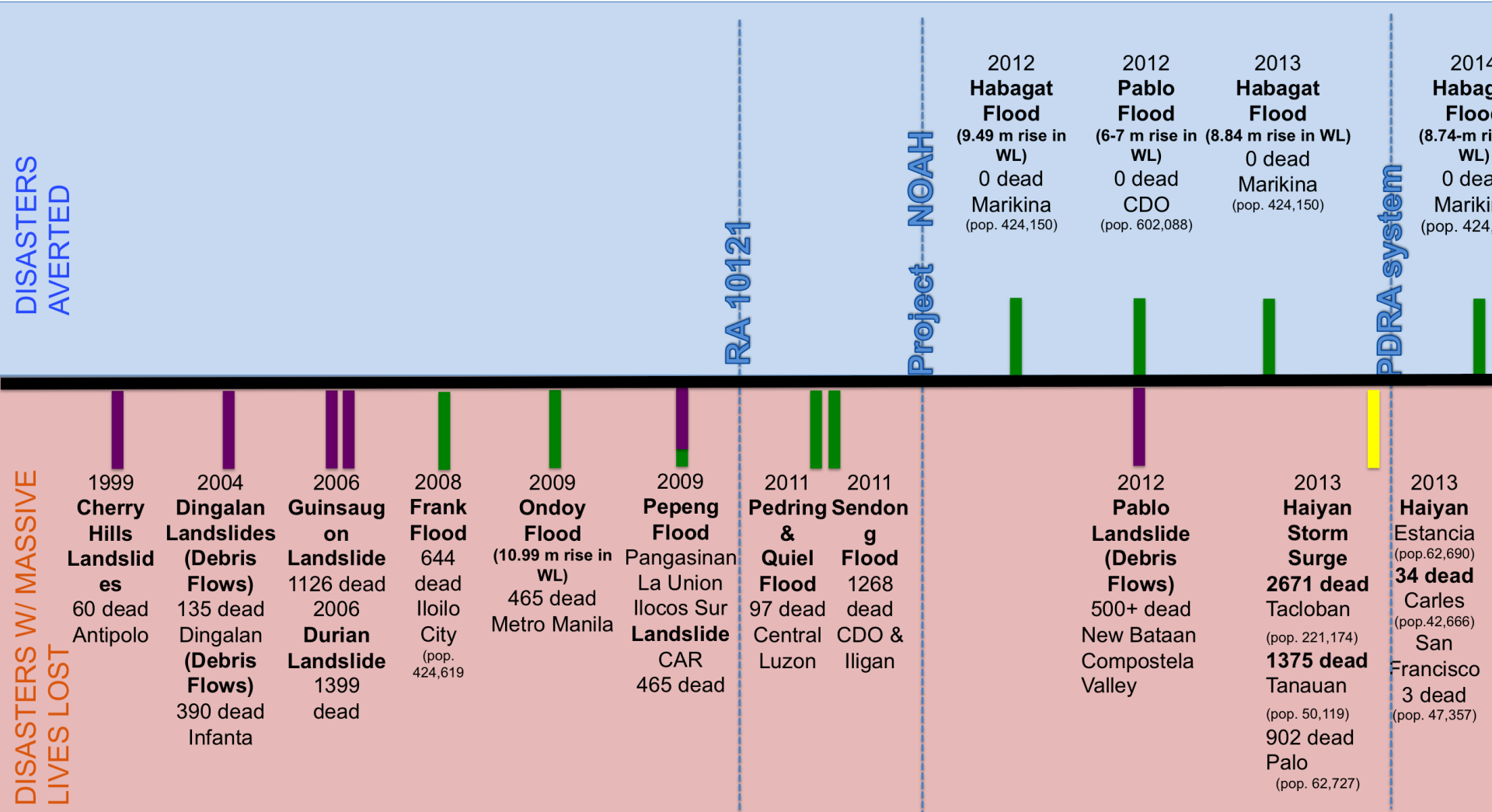


Displayed in the NOAA website and mobile apps to empower the Filipino people





FAILED DISASTER PREVENTION AND MITIGATION VS



DISASTERS AVERTED

DISASTERS W/ MASSIVE LIVES LOST

RA-10121

Project NOAH

PDRA system

Awards



DOST-PROJECT NOAH was recognized 15 times in the span of 4 years

9 International awards

- 2016 Smart Cities Asia Pacific Awards (to be awarded)
- 2016 USAID Harnessing Data Resilience Award
- 2015 ASEAN ICT Award
- 2015 Best Philippine Mobile App of the Year, International ICT Awards
- 2014 UN World Summit Awards
- 2014 Geospatial World Excellence in Policy Implementation Award
- 2014 Asia Geospatial Excellence Awards
- 2013 FutureGov Award
- 2013 Best Community Telecom Project, 16th Telecom Asia Awards



6 National awards

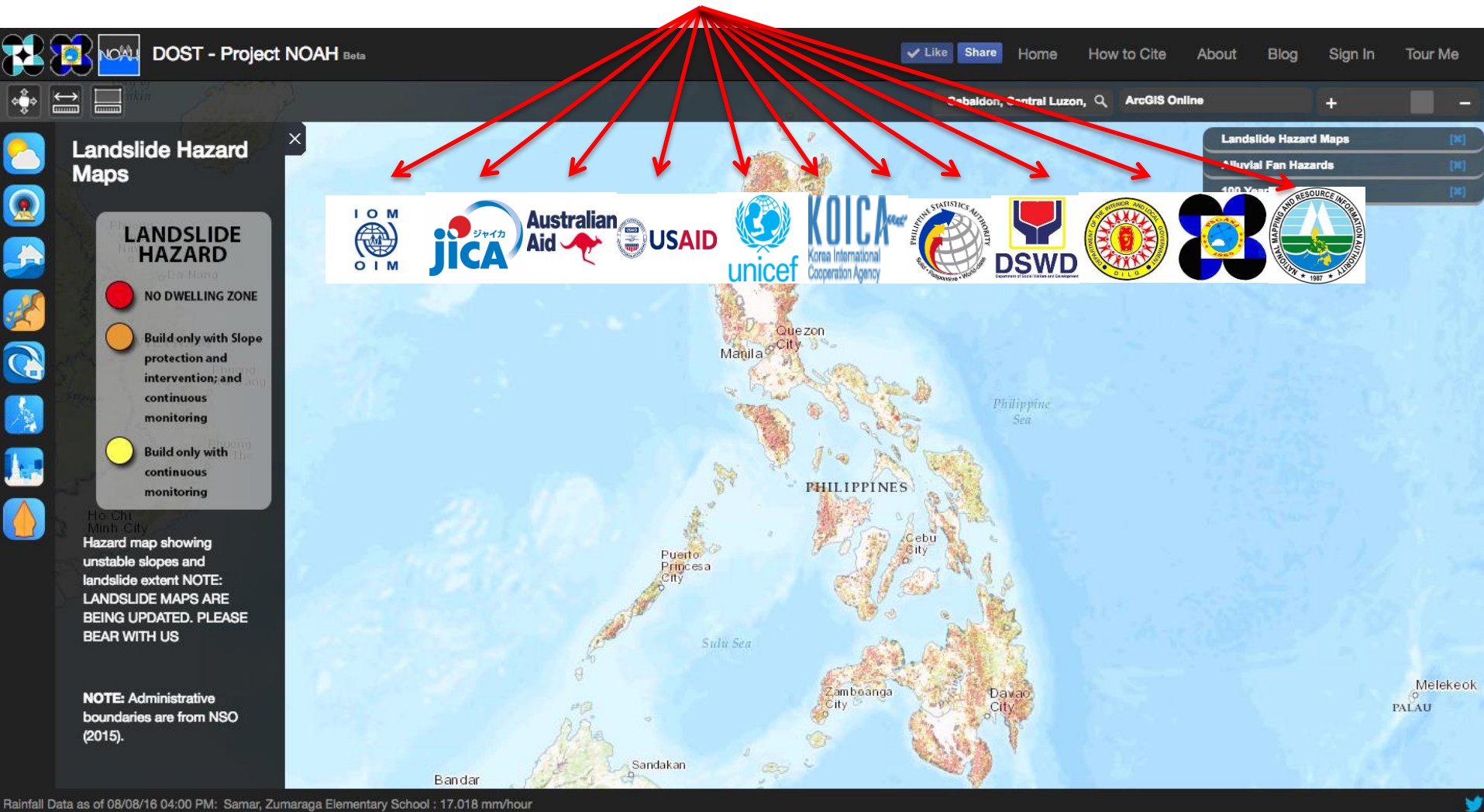
- 2016 UP Parangal Para sa Programang Pang-Ekstensyon
- 2015 MLQ Gawad Parangal Award
- 2015 PCIEERD Outstanding S&T Awards
- 2013 48th Anvil Awards
- 2012 IT Product of the Year
- 2012 Digital Heroes Awards



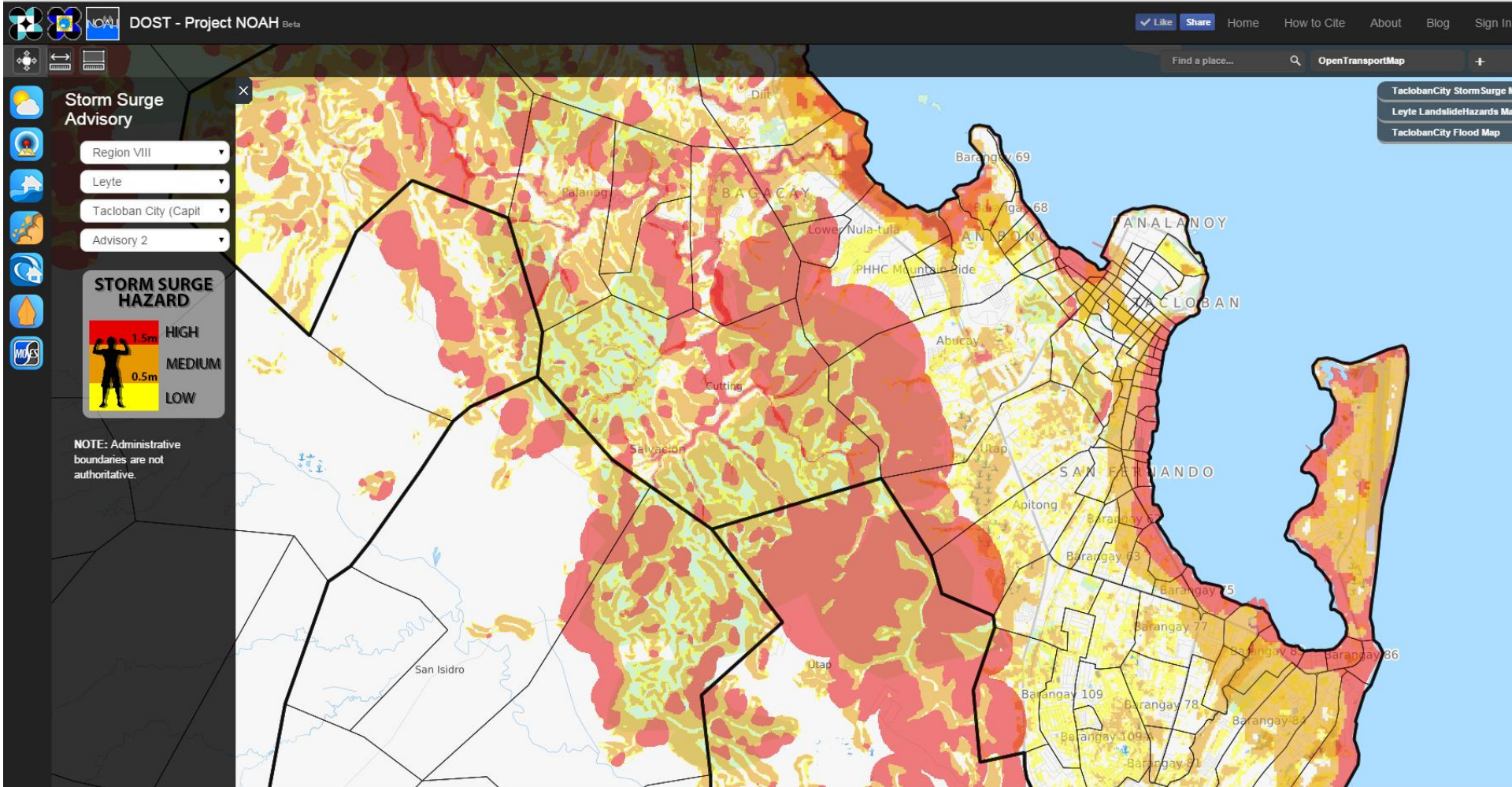
WSA-mobile Winner 2014



What we need is a national standardized program for CCA-DRR



Multi Hazard Map of Project NOAH





WebSAFE

Tacloban City (Capital), ...

Tacloban City (Capital)

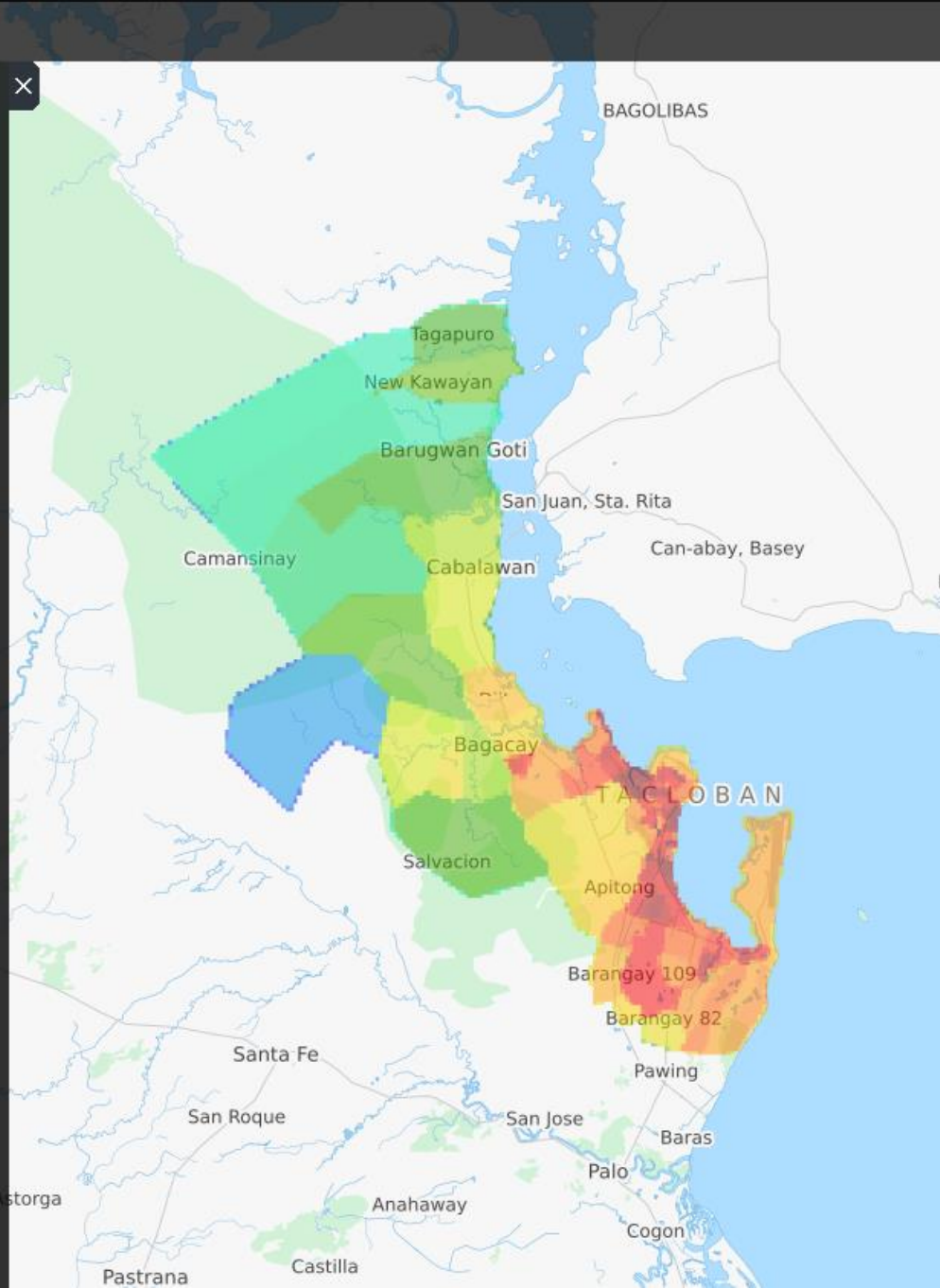
QUESTION

In the event of a 100-YEAR FLOOD IN TACLOBAN CITY (CAPITAL), LEYTE, how many PEOPLE will NEED EVACUATION.

CALCULATE

RESET

WebSAFE, an impact assessment tool based on InaSAFE, is a joint effort of Project NOAH and The World Bank.



In the event of a flood in **Tacloban City, Leyte**, how many people might need evacuation?

Summary

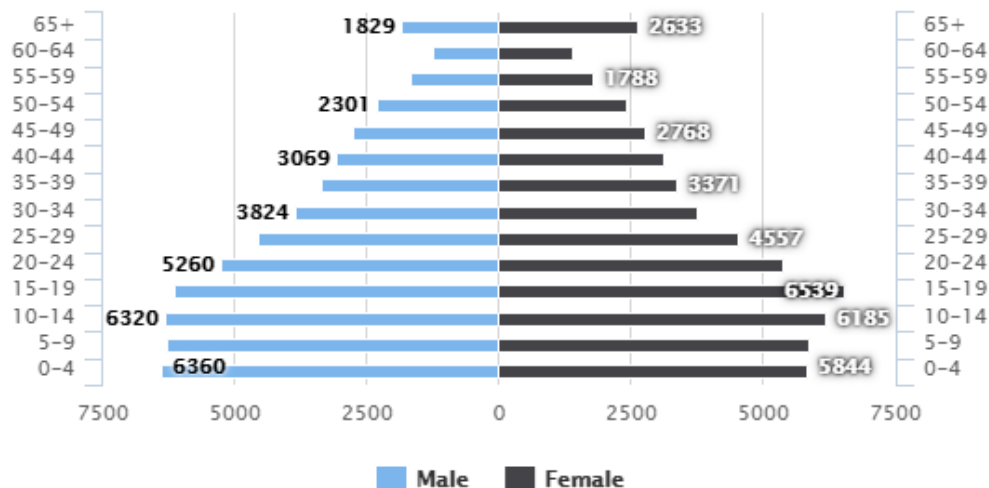
Needs

Check Listo

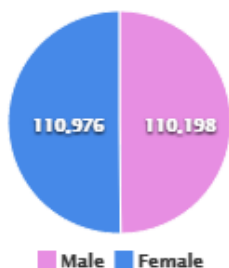
Census Data ▾

Population as of May 2010 Census: **221,174**

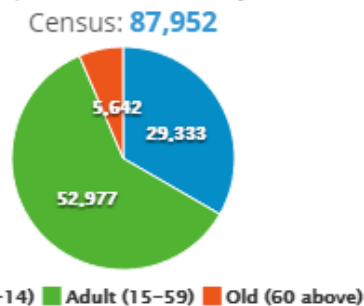
Annual growth rate: **0.00794**



Gender Distribution as of May 2010 Census



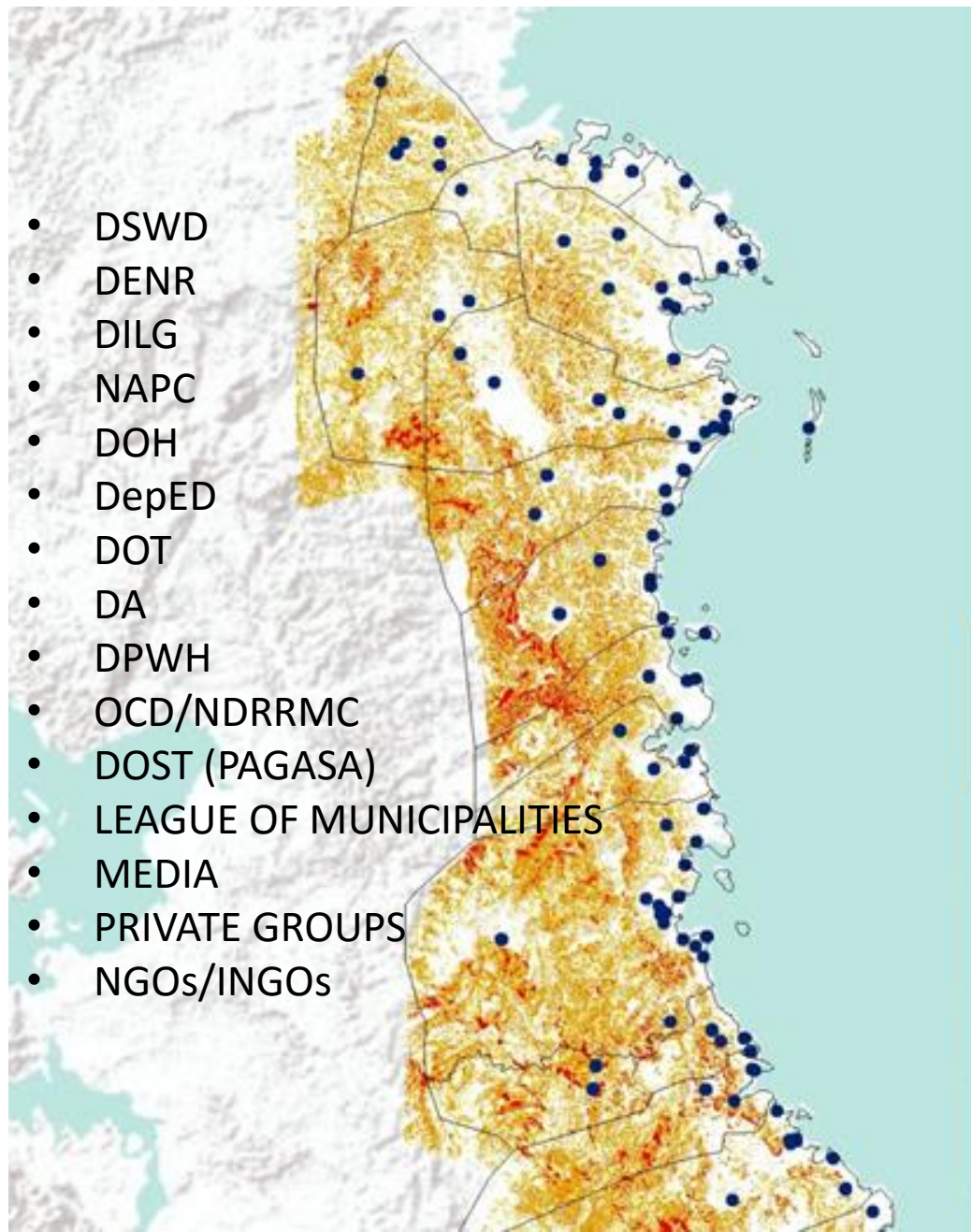
Age Dependents as of May 2010 Census: **87,952**



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Close

Translational Research (Capacity building)

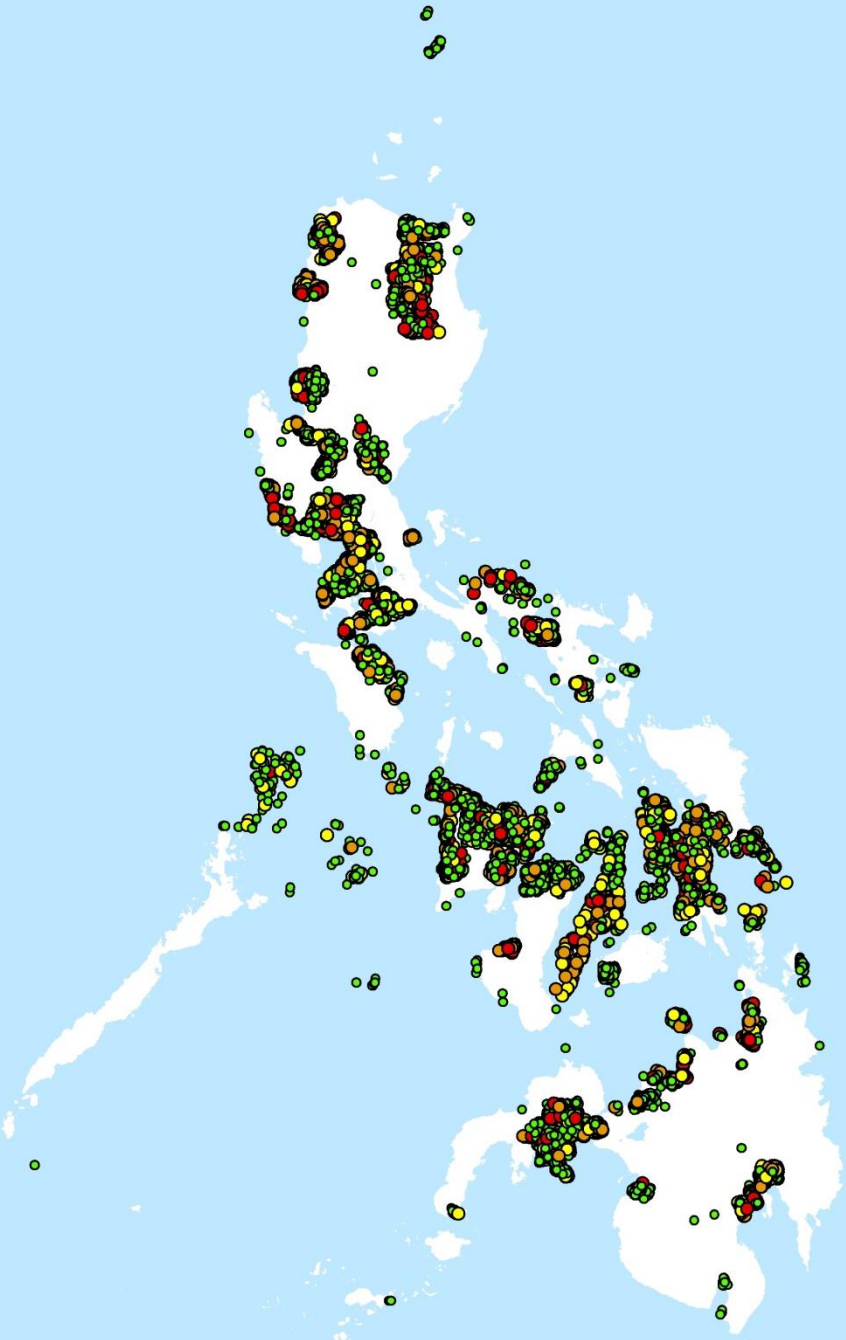


- DSWD
- DENR
- DILG
- NAPC
- DOH
- DepED
- DOT
- DA
- DPWH
- OCD/NDRRMC
- DOST (PAGASA)
- LEAGUE OF MUNICIPALITIES
- MEDIA
- PRIVATE GROUPS
- NGOs/INGOs

Landslide Hazard Assessment of Health Facilities

LANDSLIDE HAZARD ASSESSMENT	NUMBER OF HEALTH FACILITIES
HIGH	2
MODERATE	15
LOW	8
SAFE	142

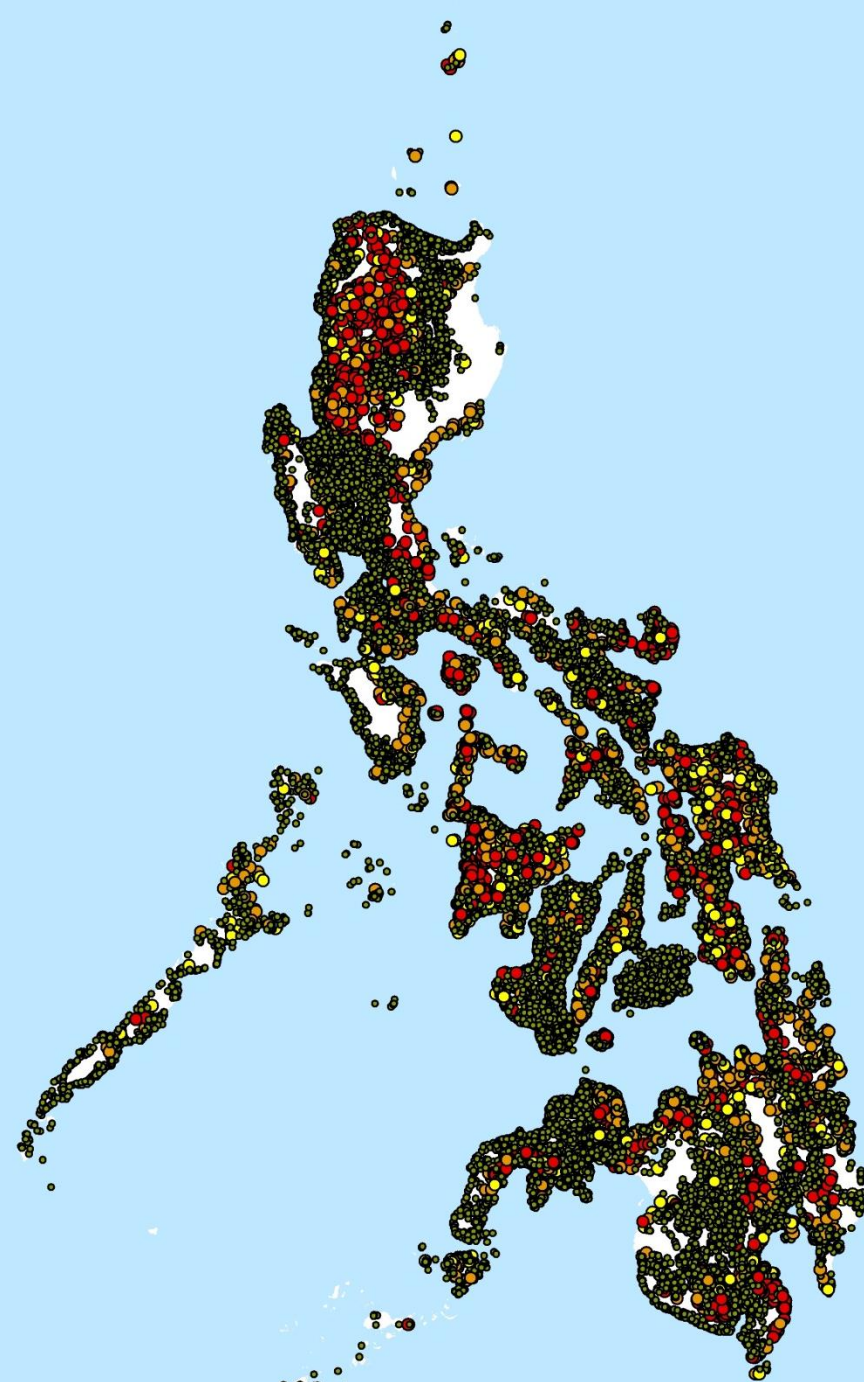
Flood Hazard Assessment of Schools



	NUMBER OF SCHOOLS	NUMBER OF SCHOOLS USED AS EVACUATION CENTER
HIGH	1,353	348
MODERATE	1,693	547
LOW	1,513	445
SAFE	7,628	2,288
WRONG LOC. / NO DATA	6,093 28,329	5,796
TOTAL	46,609	9,424

Source: DepED

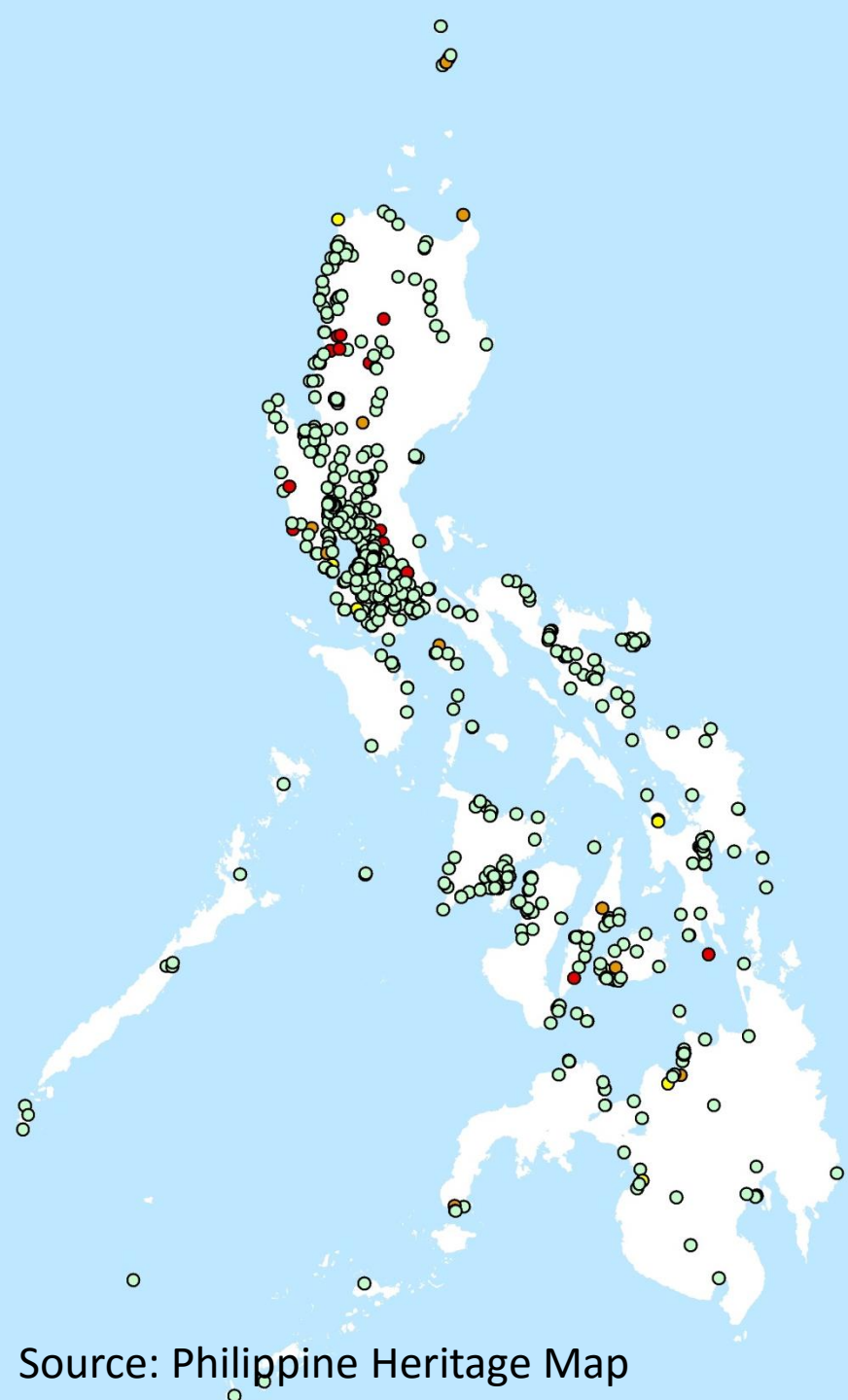
Landslide Hazard Assessment of Schools



	NUMBER OF SCHOOLS	NUMBER OF SCHOOLS USED AS EVACUATION CENTER
HIGH	1,897	294
MODERATE	2,032	430
LOW	1,045	281
SAFE	35,542	7,671
WRONG LOCATION	6,093	748
TOTAL	46,609	9,424

Source: DepED

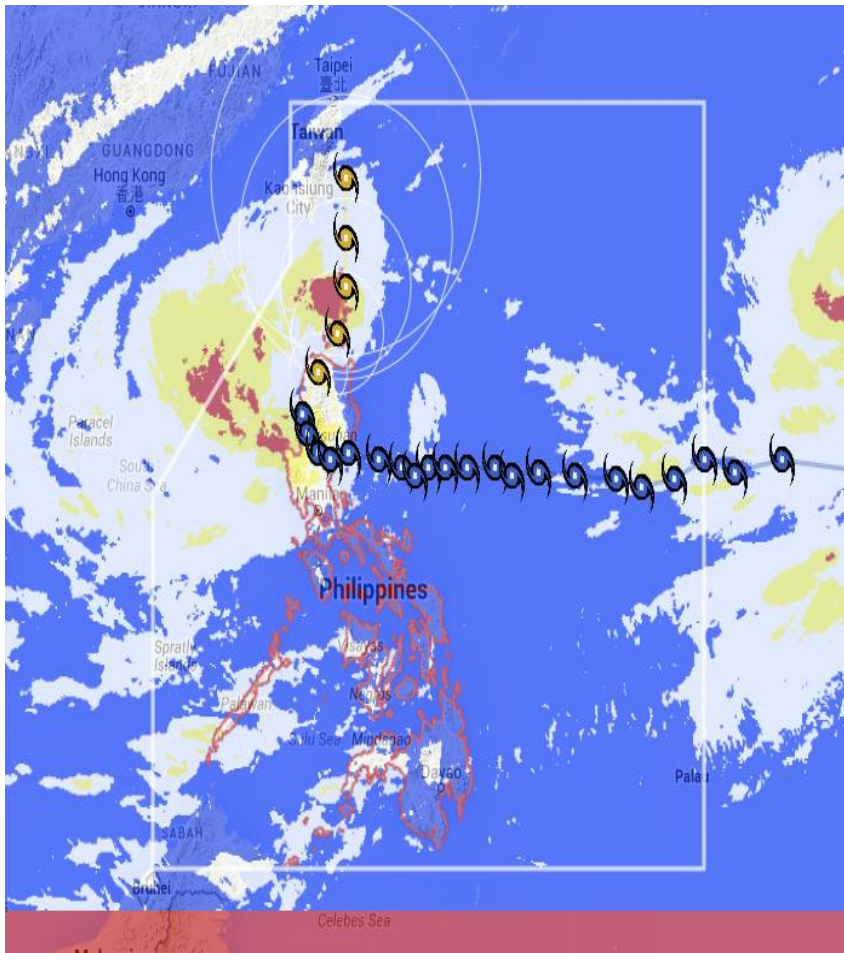
Landslide Hazard Assessment of Heritage Sites



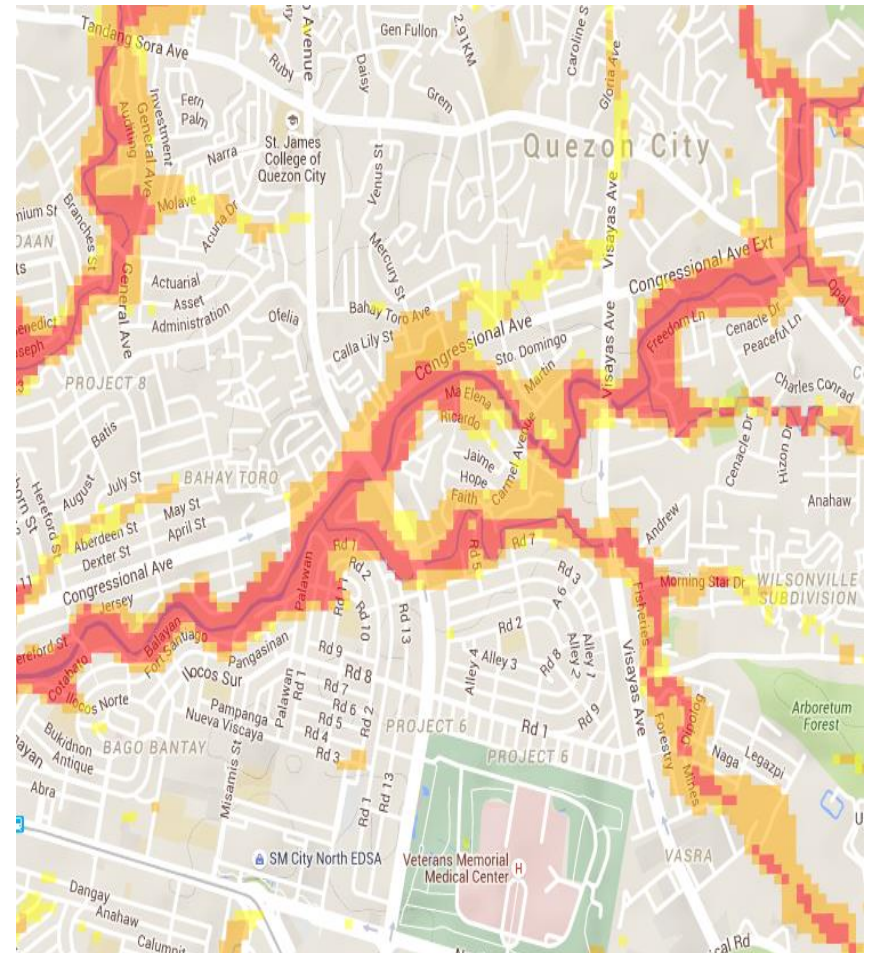
LANDSLIDE HAZARD ASSESSMENT	NUMBER OF HERITAGE SITES
HIGH	49
MODERATE	22
LOW	13
SAFE	3,206

Source: Philippine Heritage Map

AVOIDING DISASTERS



WARN



RESPOND

RESPONSE



mario @ohohmario

3h

Good after noon po

[Collapse](#) [Reply](#) [Retweet](#) [Favorite](#) [More](#)

680
RETWEETS

680
FAVORITES



5:43 PM - 6 Dec 12 · Details

Reply to @ohohmario



Anica Bianca Ordan @anicaordan

3h

@ohohmario Good afternoooooon Mario Baby! I love youu! <3

Expand



mika @inspiritmika

3h

@ohohmario hi

Expand



★ **TWINKLE** ★ @superstaaarr

3h

@ohohmario Hi Mario! Chan Rak Khun! :) ♡

Expand

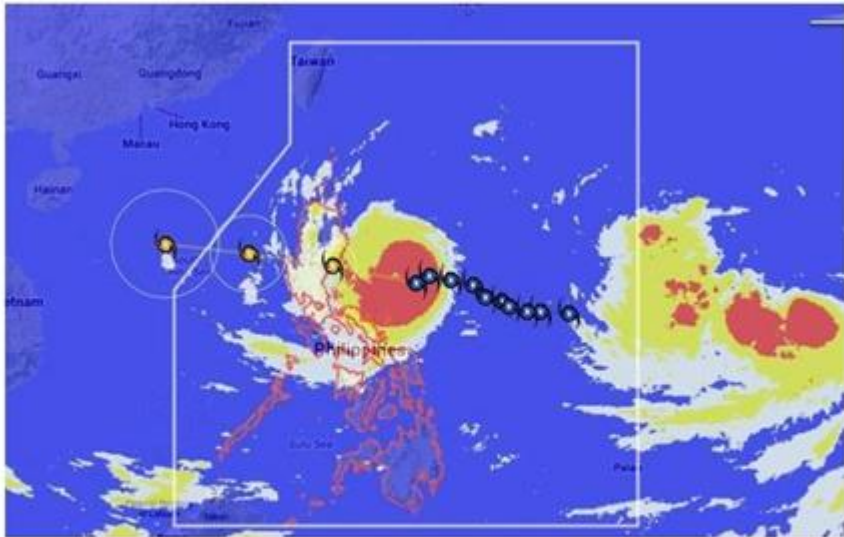


Mahar Lagmay

@nababaha

Forecast track & satellite image of typhoon #SantiPH . Paki share din po ito sa inyong mga kaibigan at mga kababayan pic.twitter.com/75VuzARmtb

10/11/13, 8:06 AM



29 RETWEETS 2 FAVORITES

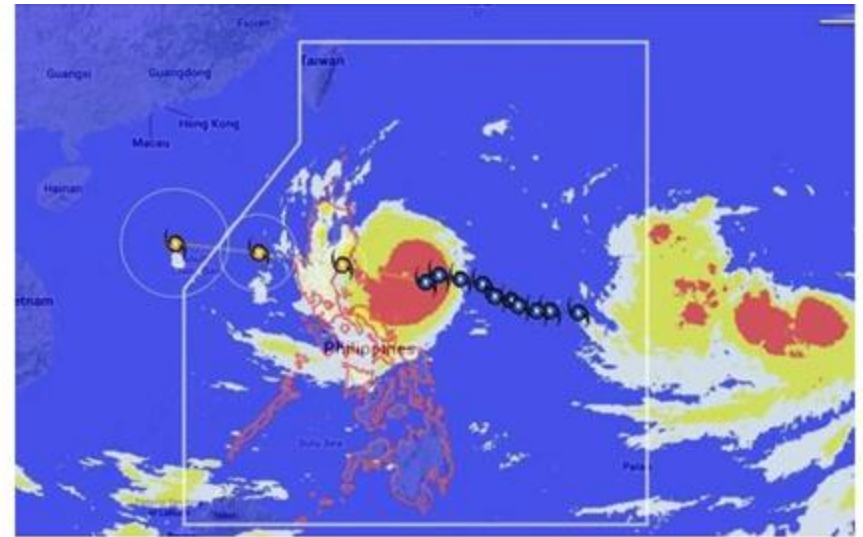


Mahar Lagmay

@nababaha

Forecast track & satellite image of typhoon #SantiPH. Ang mag-retweet nito ay gaganda ang love life. pic.twitter.com/VEqIvZrJsm

10/11/13, 8:21 AM



90 RETWEETS 12 FAVORITES