

WBF CONFERENCE 2019

DISASTER HERITAGE TO PROMOTE DARK TOURISM FOR RESILIENT COMMUNITY

Nurjanah – Ichiko Taro
TOKYO METROPOLITAN UNIVERSITY

1. Indian Ocean Tsunami 2004 - Aceh

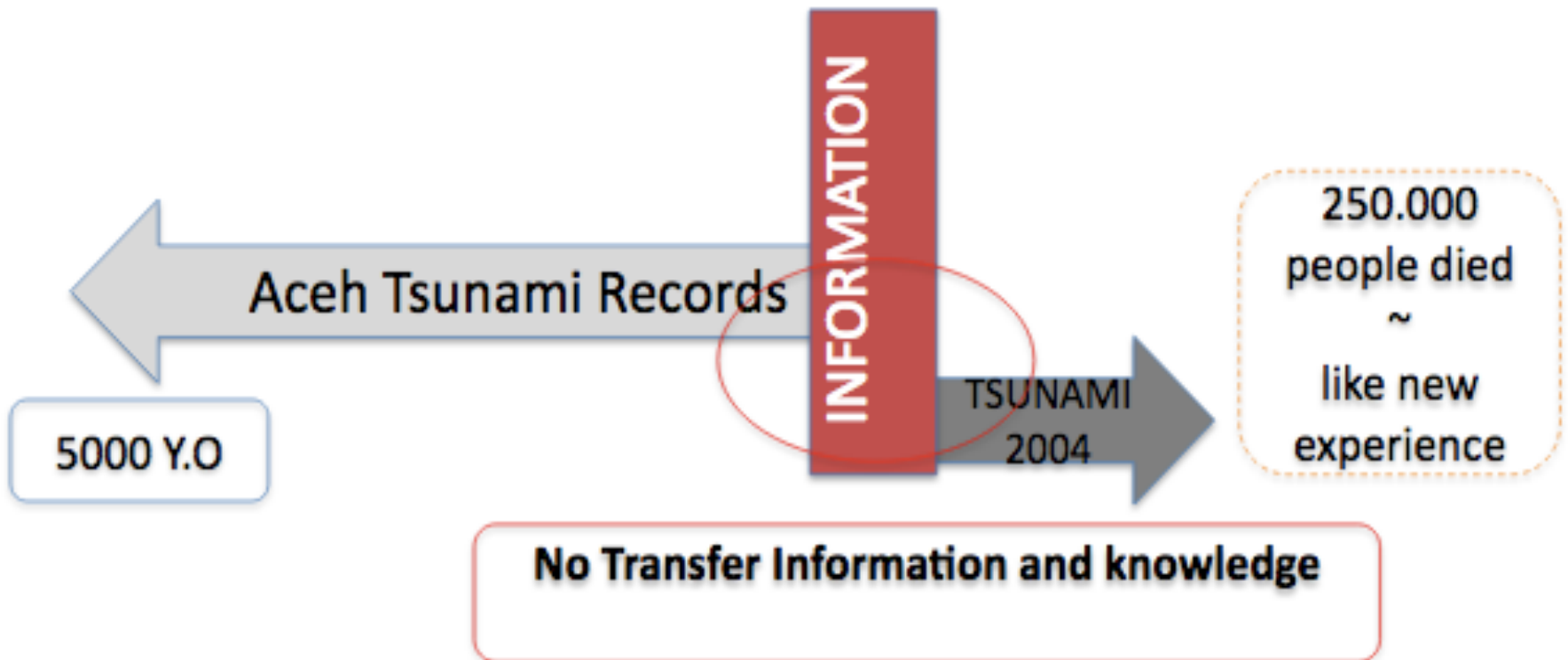


Previous Research

- Comparison Study of Indian Ocean Tsunami to Great East Japan Earthquake FOR GLOBAL INFORMATION (Nurjanah, H., Watanave, Ichiko T.)

Background

Gap information from past disaster in Aceh



General Objectives

(1) to fill in the gap information from past disaster to **young generation by using multimedia data, friendly-visual-open source-data platform** and display **attractively** multimedia and share it as a **global information**

(2) to **transfer knowledge** from **Indian Ocean Tsunami experiences in Aceh-especialy dark tourism** to **Japan**

(3) to **transfer knowledge** from **GEJE in Japan** to **Aceh**

General Method

3.1.1 Historical approach to collecting data

~ Primary data: questionnaire, in depth interview, observation used purposive random sampling.

3.1.2 Scientific approach: ~Secondary data: literatures

3.1.3 Technological approach

a. to developing the archive:

~ Mash-uping & Visualizing data Using open source platform

~ Linked the URL with Social Network Services (SNS)

b. to making documentary film

3.1.4 Social approach

a. to building community DRR:

~ Continuing Risk Community activities

~ Empowering community to capacity building for disaster prevention

b. to comparing study between Japan and Indonesia

Aceh Experiences

GAP Information
Tsunami 2004

THE

1. Reconstruction
(paleo)-tsunami base on
historical, science and
interview

2. Aceh Paleotsunami
Documentary Film

3. Disaster Heritage as a
Dark Tourism Sites

4. Lesson learn from
Rehab and Recon:
Housing Program

5. Building Community
Base on DRR for
Sustainability

ALTERNATIVE DRR-MULTIMEDIA DATA: map, photo, film, visualization etc

ACEH ARCHIVE FOR DRR

LINK TO SNS

GLOBAL
INFORMATION

F
I
L
L
I
N
N

Develop Aceh Archive for DRR



<https://nurjanahjane.github.io/>

Evaluation

WORKSHOP

Syiah Kuala
Unversity

1 Hour

1st Grade
Various
Faculties

52-
participants

30mins **Manual**

30mins **Digital**

5mins
Introduction

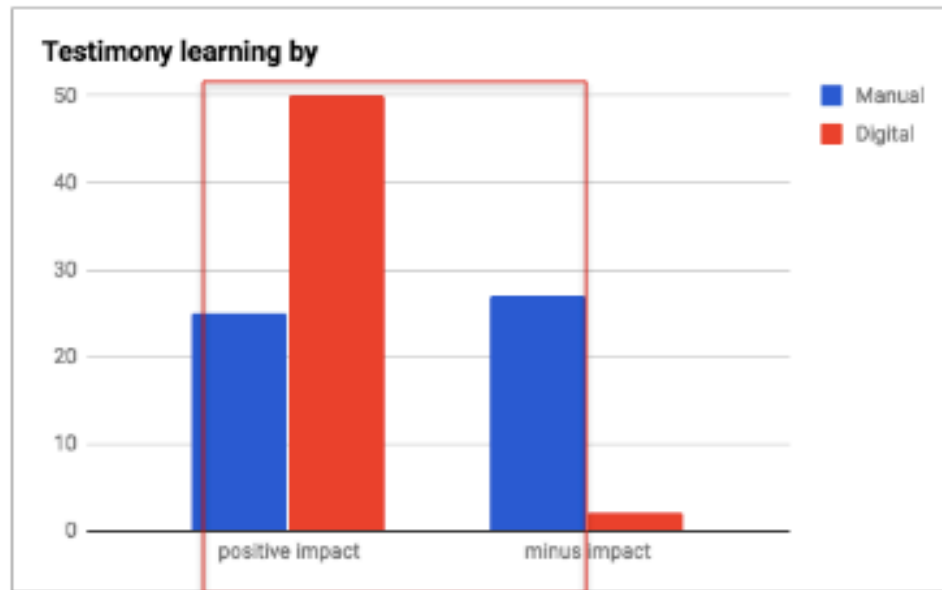
25mins Learning
Historical Disaster

5mins
Q & A

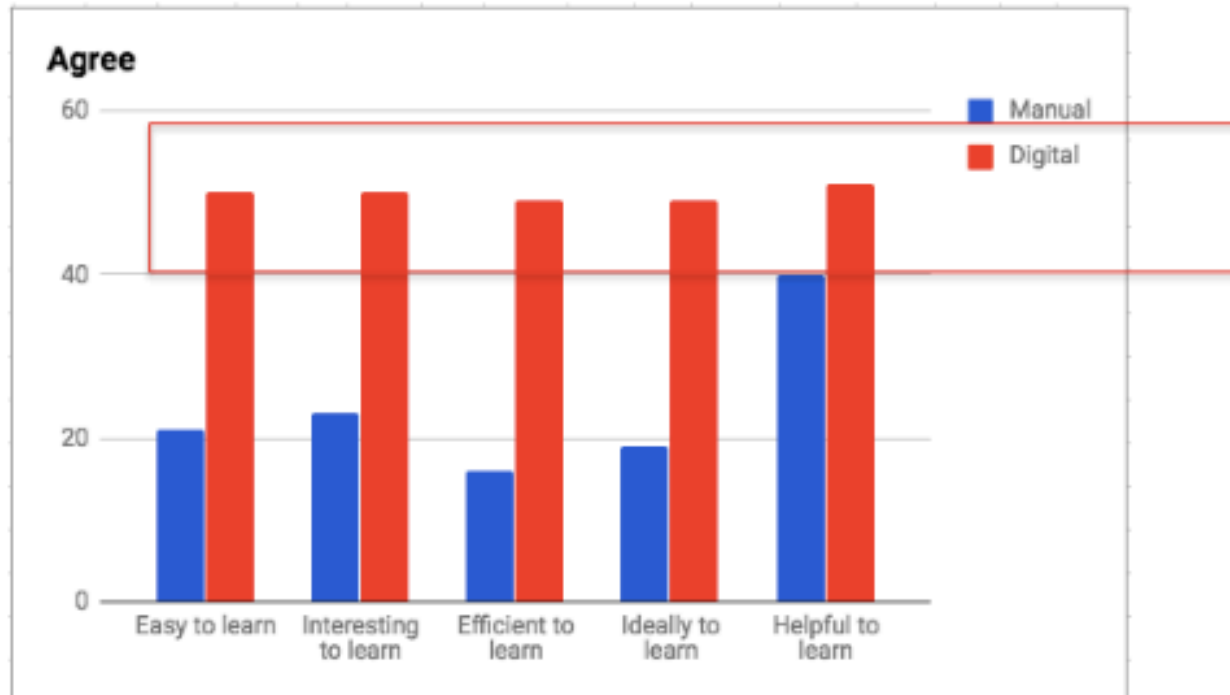
Paper, Proceeding,
browsing

Practice by
Digital devices:
PC, MP etc

Result



49% of the students gave their impressions by learning from each media. They enjoyed and exited learning about the disaster more with the digital archive than by learning the traditional manual way.



show that student felt that learning with the Aceh Disaster Digital Archive was easier and more interesting, efficient, ideal, helpful than traditional learning, and it also improved their skills and knowledge.

Conclusion

- We contributed to an **historical-anthropological data collection**, related to the past disasters.
- We proved that our digital archive **method is attractively** digital earth interface to display multimedia data and displayed better of knowledge by open-source platform make **information on past disasters more accessible** to communities to **fill in the gap information** from the past disaster for young generation
- We established a DRR-based community as a **better function to transfer information** about disasters more accessible to the younger generation, especially by connecting them to the SNS.
- The pluralistic disaster digital archive will **remind people around the world** that local knowledge from the past disaster offers invaluable lesson for DRR and global information.

We back to the topic:
To Promote below for Resilient Community

3. Disaster Heritage as a
Dark Tourism Sites

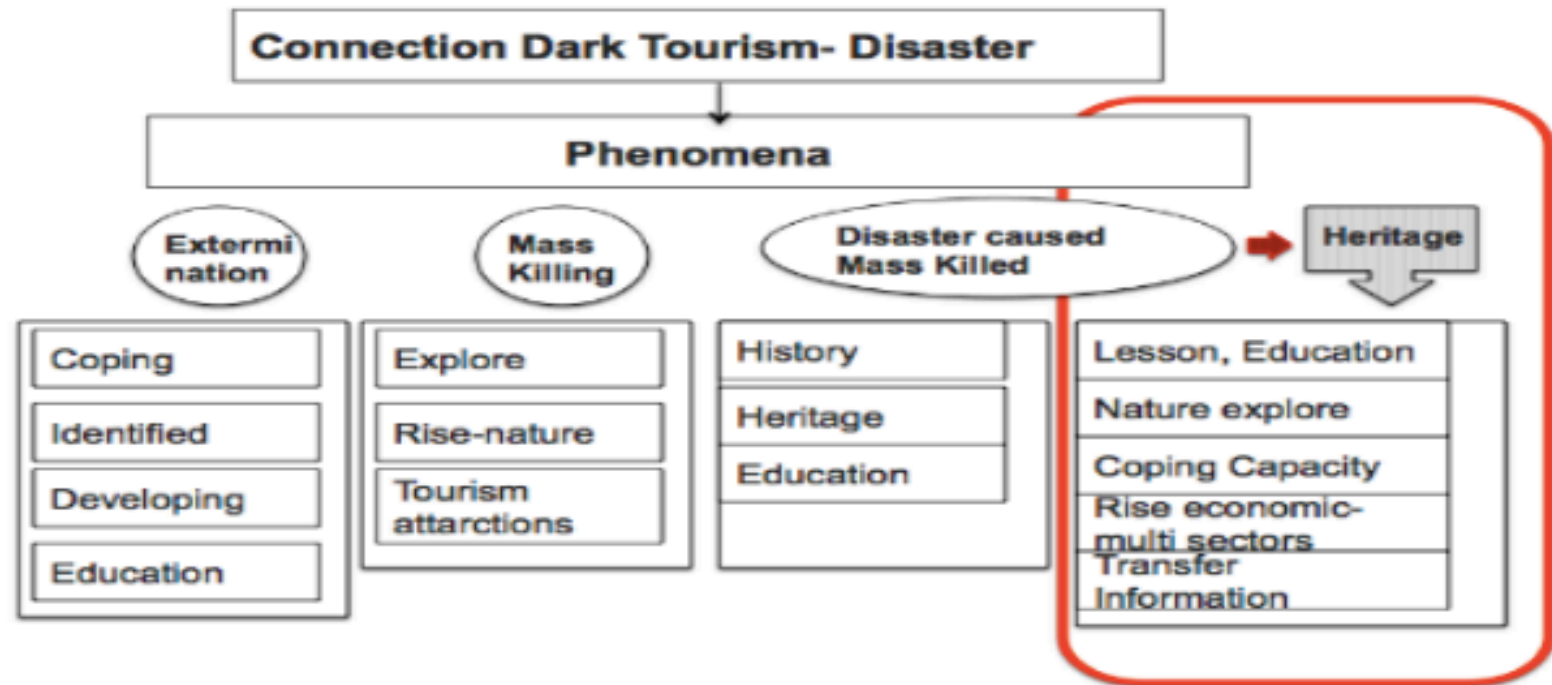
What is Dark Tourism?

Although it is only in recent years that it has been collectively referred to as dark tourism, travel to places associated with death, disaster and destruction has, occurred as long as people have been able to travel (Sharpley & Stone 2009).

Popularity of destination association with war battlefields, prisons, genocide areas, natural disaster etc, are increasing in the recent years, open possibility to add these destinations in special interest tourism destinations (Kurnaz et al, 2013).

There is no globally accepted framework of dark tourism, and globally accepted definition of dark tourism (Yunus Topsakal and Remziye Ekici, 2014).

Disaster Heritage as Dark Tourism Sites



Man-made and **natural disaster caused mass killed**, leave heritage, lesson learned of education, historical, coping capacity and **attract tourist** to travel.

Disaster heritage of Indian Ocean Tsunami 2004, in Aceh- Indonesia



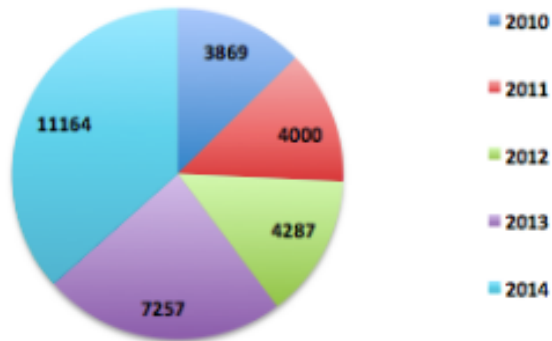
Stranded Ship, Lampulo



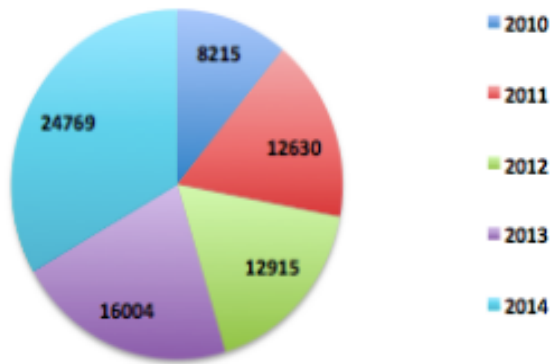
Stranded Diesel Power Floating Ship, Punge

Disaster Heritage in Banda Aceh affected to the neighborhood

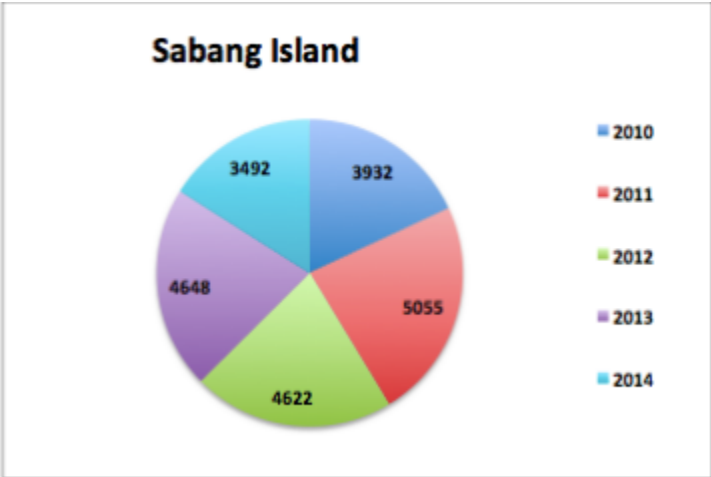
Banda Aceh



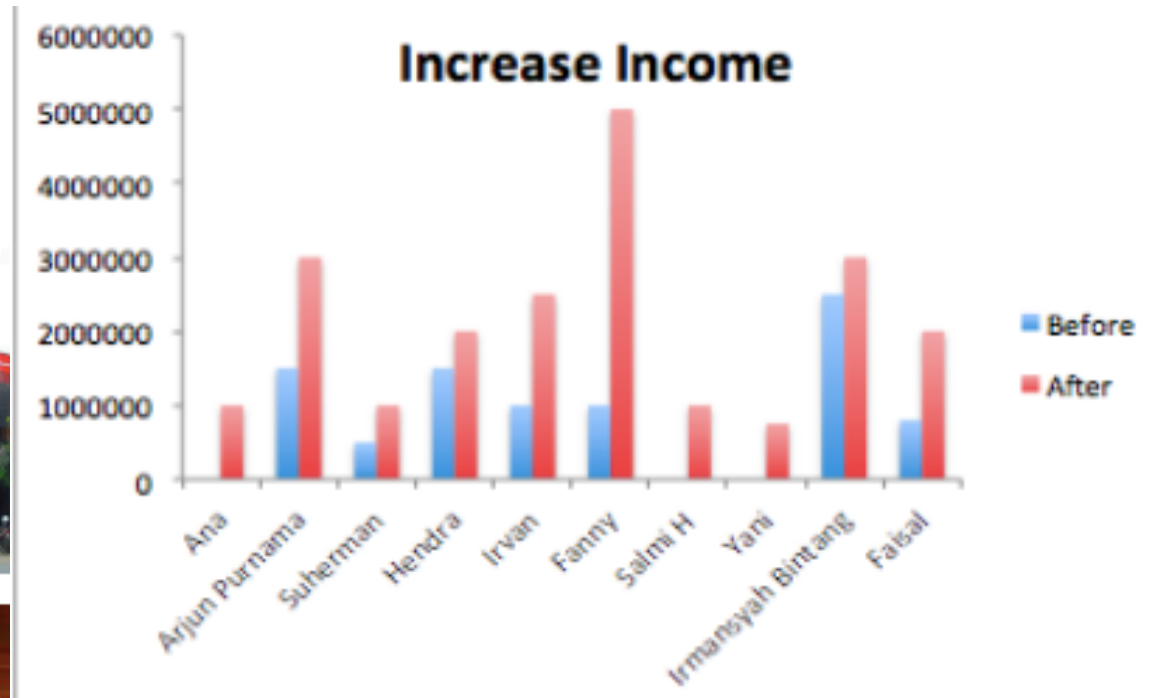
Aceh Besar



International Tourist came to Banda Aceh and surrounding



Create Economics in disaster heritage sites in Banda Aceh



Developing Innovation and Tools of DRR Education:

Media

Film

The Aceh Paleotsunami Film



YouTube

https://www.youtube.com/watch?v=yNhVwxQ2kI8&fb_action_ids=1025813297429646&fb_action_types=og.share_s&fb_source=other_multiline&action_object_map=%5B846503525385687%5D&action_type_map=%5B%22og.share%22%5D&action_ref_map=%5B%5D

Analysis of user's behaviour

Top geographies

Watch time

United States (87%)

Japan (7.0%)

Greece (5.8%)



Traffic sources

Watch time

● YouTube search (77%)

● External (16%)

● Direct or unknown (7.0%)





Inamura-no-Hi no Yakata

稲むらの火の館

歴史民俗資料館

津波防災教育センター

Hamaguchi Goryo Archives Tsunami Educational Center

Light a fire of rice sheaves that will last forever in your heart

ホーム > 稲むらの火の館 > Inamura-no-Hi no Yakata > Tsunami Educational Center

Tsunami Educational Center



Permanent Exhibition in Inamura no Hi no Yakata
Tsunami Museum

Outreaching and Acceptance of the Film

Dark Tourism Archive for DRR



The heritage of disaster and the testimony of tsunami survivors on the site lets it serve as Dark Tourism attraction.

In the Process of Film's Production



Participatory Open Source Information

Banda Aceh LocalWiki <https://localwiki.org/bandaaceh/>

localwiki Explore About Blog Donate API Help or

Banda Aceh

Front Page



Welcome to the Banda Aceh LocalWiki!
A website about Banda Aceh that anyone can edit

I want to make a page about

Welcome to the new LocalWiki region for Banda Aceh!
Click on Explore at the top to see what's here now.

- **open source data: Open street map (OSM)**
- **community participation**
- **spreading information**

Community Facebook Fanpage: Emergency Response Kumamoto Earthquake, April 14, 2016

Post Details

analysis of user's behaviour



Code4Aceh

Published by Nurjanah Nur (7) · May 19 · 4h

Berita terkait Gempa Kumamoto di TribunNews

<http://m.tribunnews.com/.../tanggap-antisipasi-keadaan-darura...>



Tanggap Antisipasi Keadaan Darurat, WNI Bantu Pemda Jepang - Tribunnews.com

WNI di Jepang ternyata aktif dan tanggap dalam mengantisipasi bencana yang terjadi 40 hari lalu di Kumamoto sebelah selatan Jepang.

TRIBUNNEWS.COM



Get More Likes, Comments and Shares

Boost this post for \$3 to reach up to 8,000 people.

1,765 people reached

Boost Post

1,765 People Reached

22 Likes, Comments & Shares

18

Likes

3

On Post

15

On Shares

0

Comments

0

On Post

0

On Shares

4

Shares

3

On Post

1

On Shares

63 Post Clicks

0

Photo Views

25

Link Clicks

38

Other Clicks (i)

NEGATIVE FEEDBACK

0

Hide Post

0

Hide All Posts

0

Report as Spam

0

Unlike Page

Community Organization



Search for posts on this Page



Very responsive to messages

100% response rate, 15-mins response time

Disaster Heritage 3D Model



- Preserving disaster heritage and displaying the testimonials of tsunami survivors is important
- its serve as a lesson for other disaster areas such as Japan, where many disaster relics have been destroyed
- From the experience of Aceh, we know that the heritage of disaster does not only include sorrow, but education and other benefits.

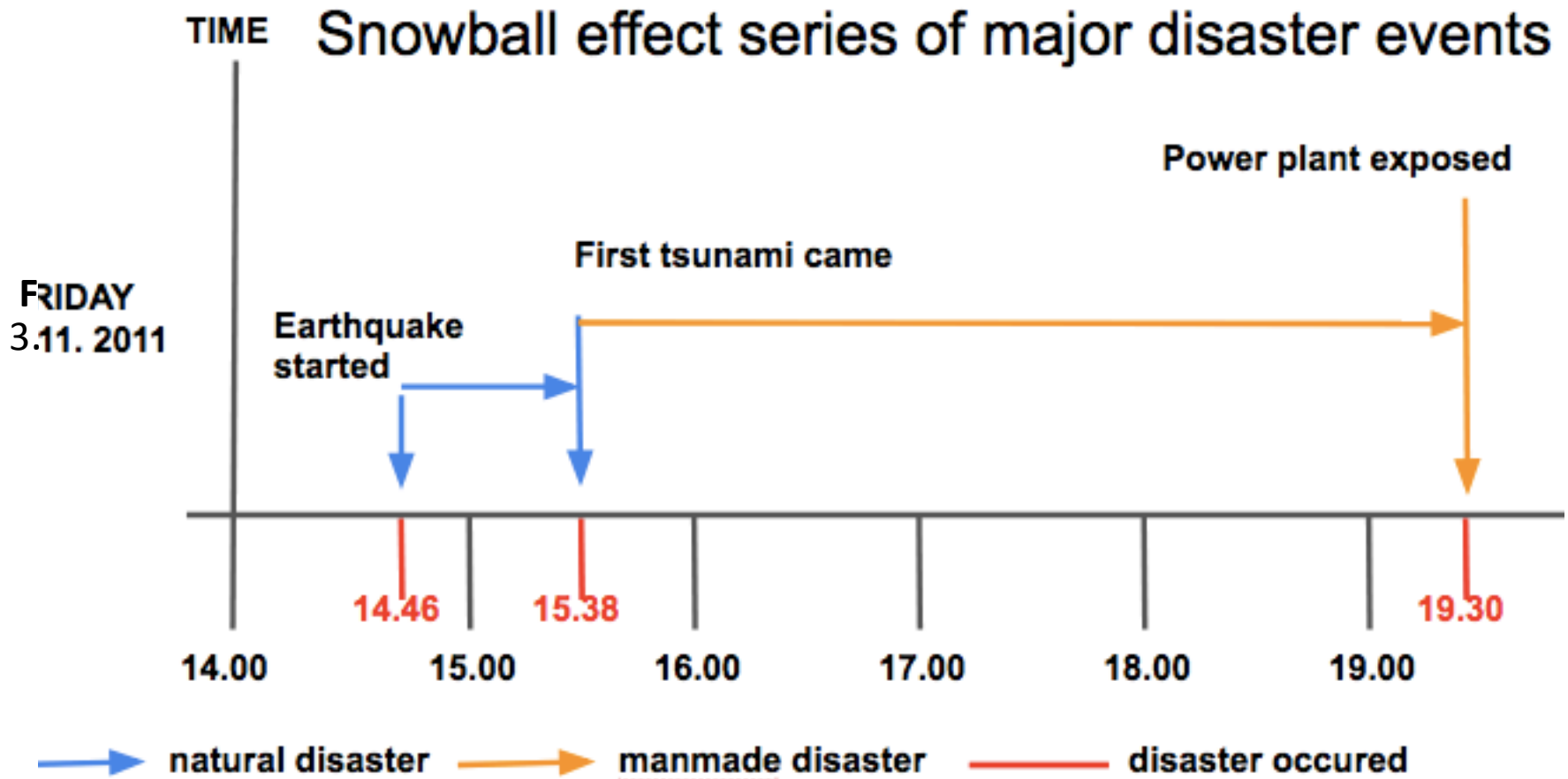
2. Great East Japan Earthquake 2011 - Tohoku



15,897 people died,
2,532 people missing

Image source: National Geographic

Disaster heritage of Great East Japan Earthquake Tsunami 2011, Fukushima



Challenge of DRR Education to promote Dark Tourism in Fukushima for Resilient Community



People from all over the world interesting about Fukushima: Tourist, scientist, students etc.



Dark Tourism of Fukushima potential to rise up economic

- Japanese

https://www.youtube.com/watch?v=qj31xx1V8q8&feature=youtu.be&fbclid=IwAR3miCVUpu6r4Q1VQhAi2mzJUKzk0KTITVqKrqv7XZ7OgVVnu7L_IFNed0k

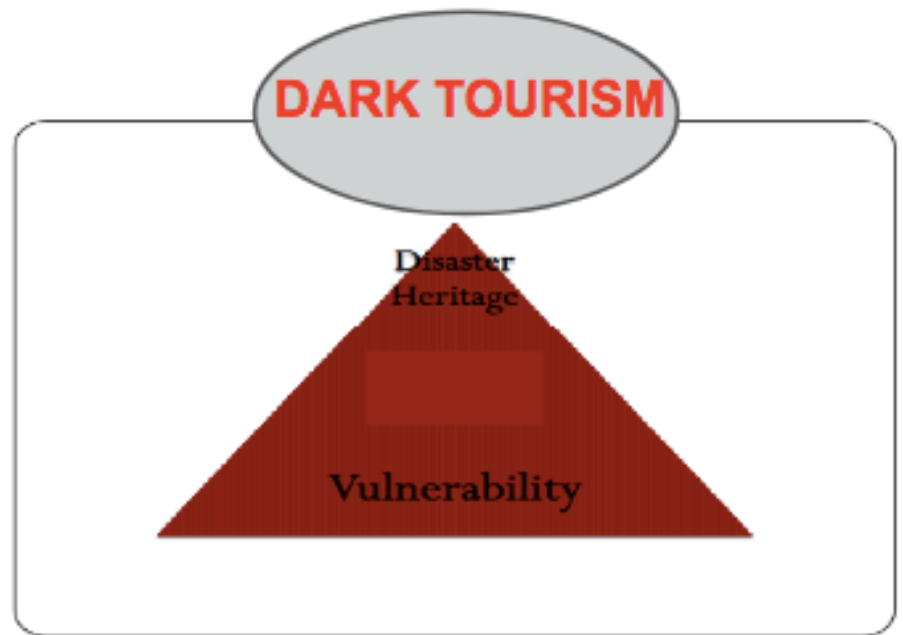
- English

<https://www.youtube.com/watch?v=mdmmgNCVUOk&feature=youtu.be&fbclid=IwAR0vjjBHDP3gHC9A5IHNo4Te1MIh6OJsFc6O-KD6AQgnTn-xAVO3lugy1Nc>

- France

https://www.youtube.com/watch?v=s1VO_8jTJWU&fbclid=IwAR1z--iGMllpbncQmS5C_lwVvDi8a9Z45YOZFIyLSlqtDdQL0XcCZcz7kW8

Now we are still working to find the right formula to measure the potential of disaster heritage to reduce community vulnerability post-disaster



Final Conclusion

One important message based on Indian Ocean Tsunami experiences in Aceh is, **Disaster Heritage** not only shows but has a **good impacts to social, economic, infrastructure, sustainability of Disaster Risk Reduction education and Resilient Community** post disaster.