



ICT for Disaster Management or How to Support Nepal Wireless Networking

現地訪問報告

Jul 2

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Nepal Earthquake

- Apr 25, 2015
- Killed 9,000 people for population of xxM

Nepal Earthquake 2015



Key Figures

People in need of humanitarian assistance



2.8M

People to be assisted

People reached with food assistance



1.8M

in 7 districts

Child friendly spaces established

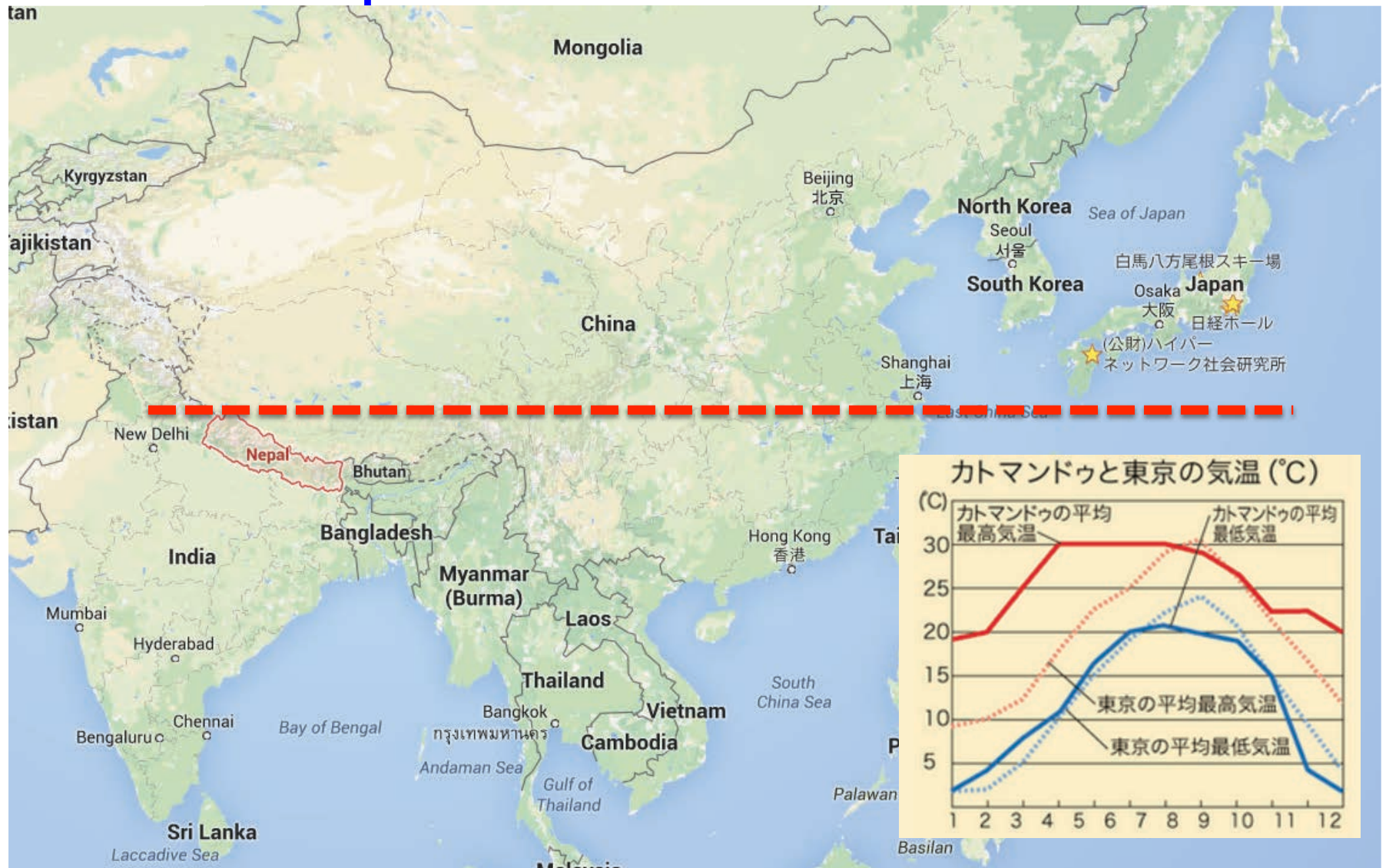


137

serving over 13,700 children

Where is Nepal?

It is quite in the South. Warm.



Kathmandu view



No obvious damage can be seen

Tribhuvan International Airport



Visa Online on Arrival, works great



Objective of my visit

- To know what is the real situation
 - What are really needed for effective support?
- How to support Nepal Wireless Networking Project
- Preparation for JST Rapid Research

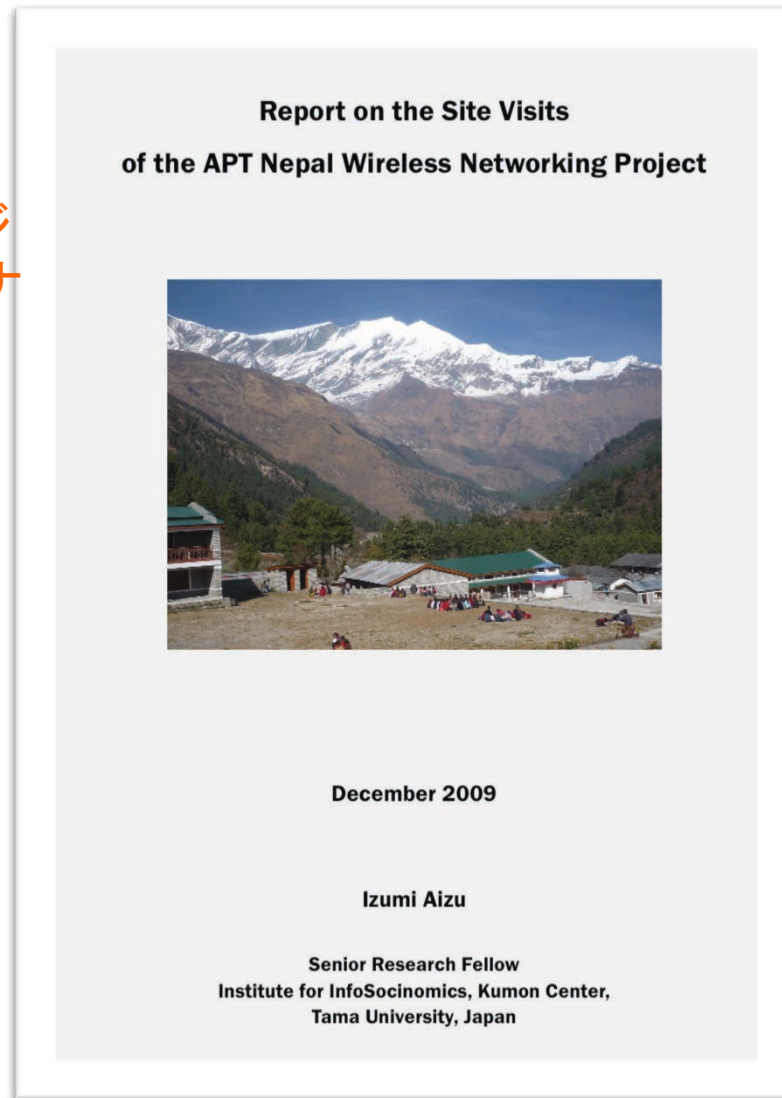
Nepal Wireless Networking Project

- Mahabir Pun started around 2001
- Build Internet connectivity inside mountains, rural areas in Himalaya
 - 140 hotspots
 - Several sites were damaged by the earthquake
- Provide direct benefit to the lives of people in the community, welfare, economy, education, medicine
- Received Ramon Magsaysay Award (2007)、Internet Hall of Fame (2014)



ITU, APT etc provided funding support

会津も2009年に
APTプロジェクトの
調査でムスタン、ジ
ヨムソン、ムクティナ
ートなど訪問

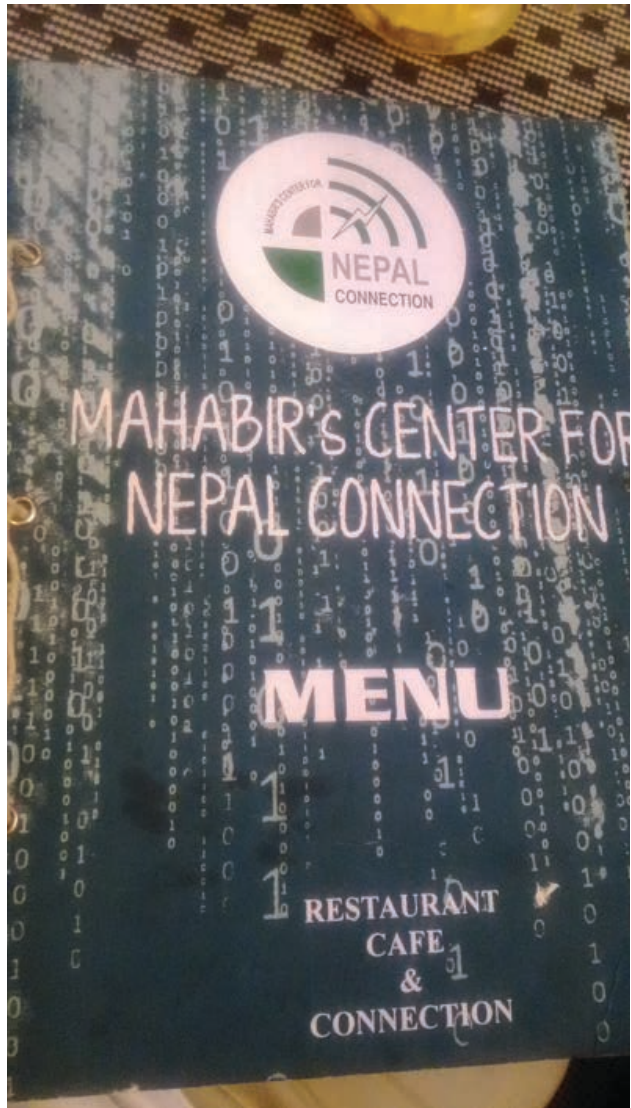


小学校に「OLPC」
コンピュータ
ネパール語教材独自開発



コミュニティの
診療所訪問

Mahabir's Center for Nepal Connection



Visit in Kathmandu



Tribhuvan Univ. Prof. Subarna Shakya



UN OCHA Office



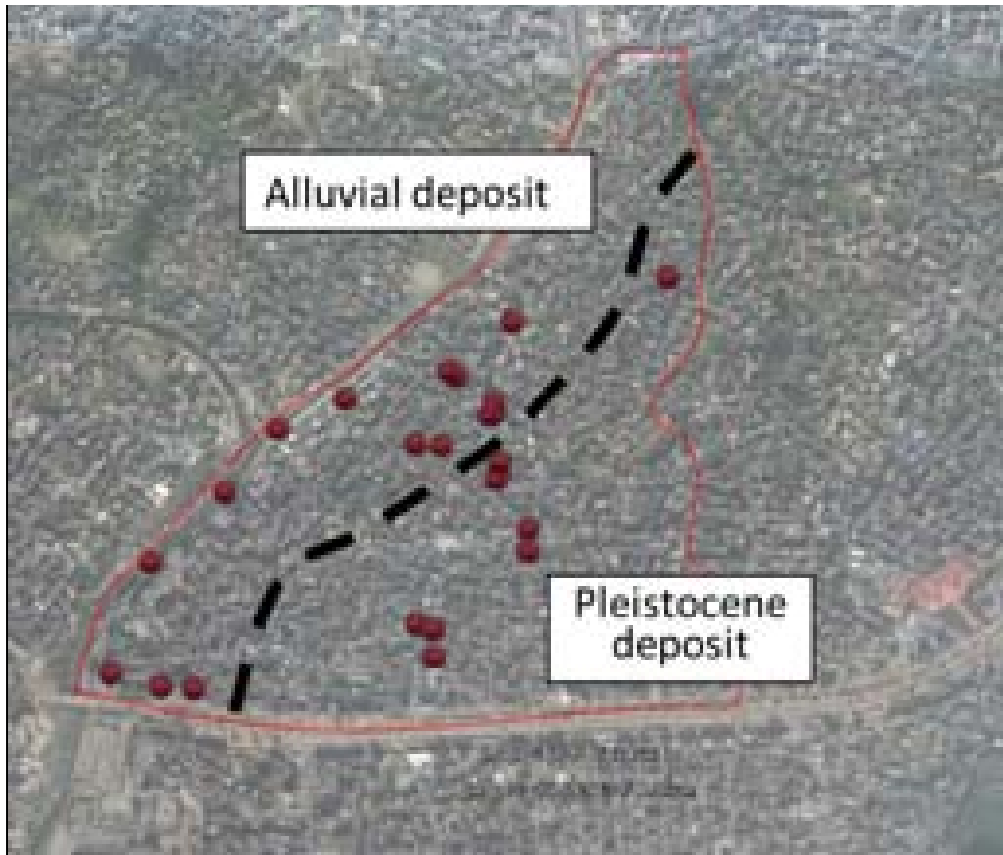
Kishor Panth and Indivir Badal
Sastra Network Solution

Damages in Kathmandu scattered most part were not affected...



Distribution of Damages in Kathmandu

Report from Kiyota Lab, U. Tokyo



- ・ カトマンズ市内で建物に非常に顕著な被害が発生した地区の様子。
- ・ 低中層構造物の倒壊や傾斜が多く確認。
- ・ Fig. 1は調査を行ったエリア(赤線)で確認された倒壊構造物の分布。
- ・ 多くの倒壊構造物は川に近い沖積地盤上にあり、洪積地盤上では被害が少ない。





Palace Wall
collapsed



No one could live in this building





Some buildings in North of Kathmandu





















倒壊したダラハラ塔



バクタプールのダルバール広場 再オープン

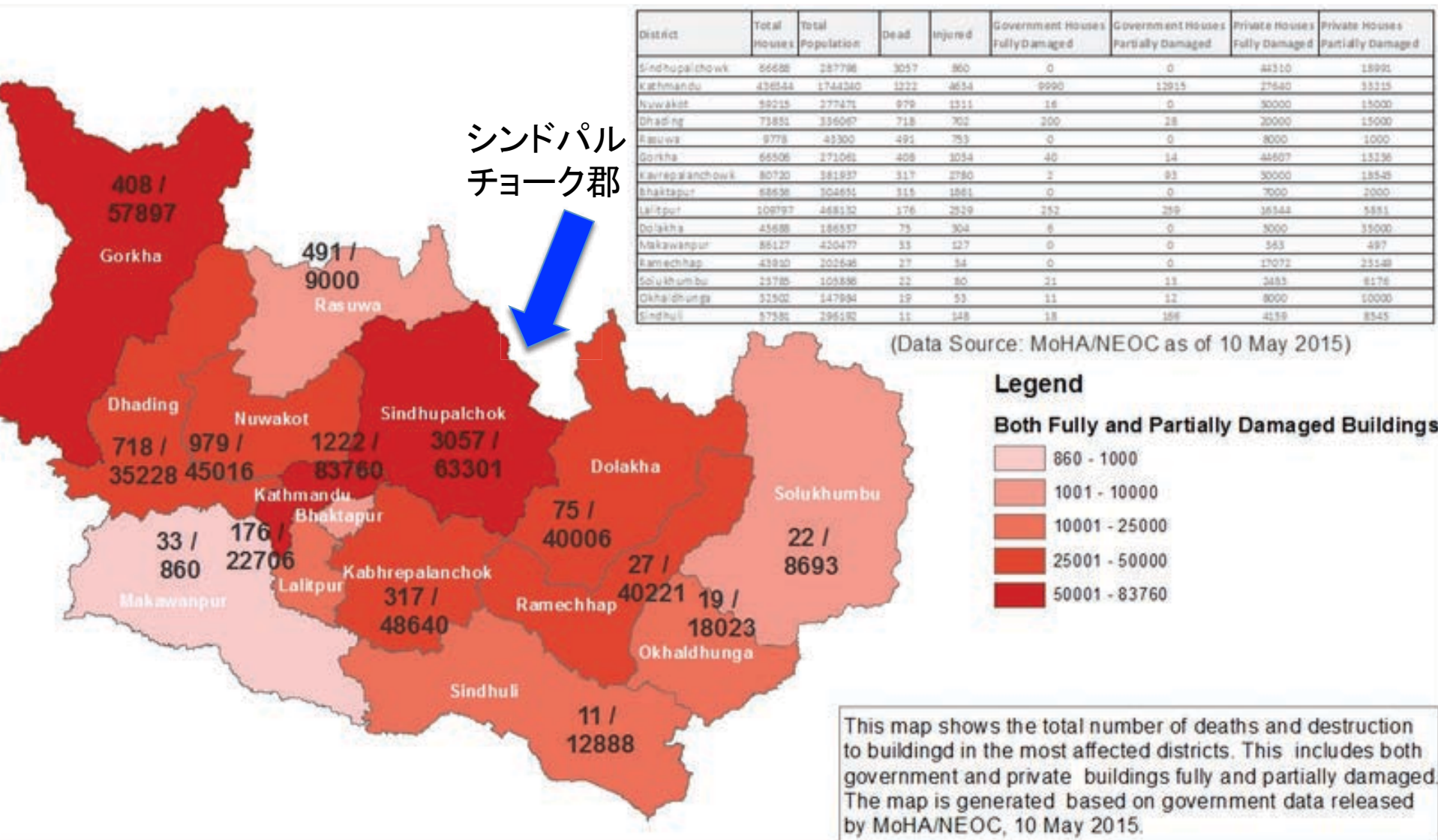


市街中心部 一見健在だが、、



最大の被害: シンドパルチョーク郡

死者3,057 全半壊63,301戸



シンドパルチョーク郡Sangachok村へ 6月16日



村出身のノルディンさん
「最初に入ったのは3日後、
車に食料などを積んで。他
の救援はどこもなく、初め
てだった」

カトマンズからサンガチョックへ
4WD車で約2時間



山の尾根上に町の中心部







サンガチョックの学校 土曜＝休日で幸いだった



学校、3棟とも全損

真ん中の建物は日本からの寄付で建設





事務室



仮設校舎で授業再開





ここを整備して
コンピュータを置く予定



低学年のクラス



農学・畜産も 高校の大事な授業



テントでも授業



倒壊した校舎から持ち出し、 仮置ききのコンピュータ



お昼をご馳走に



壊れた伝送器を
チェック



高校の先生と



マハビールさんの特別授業



私も「津波」などのお話をしました









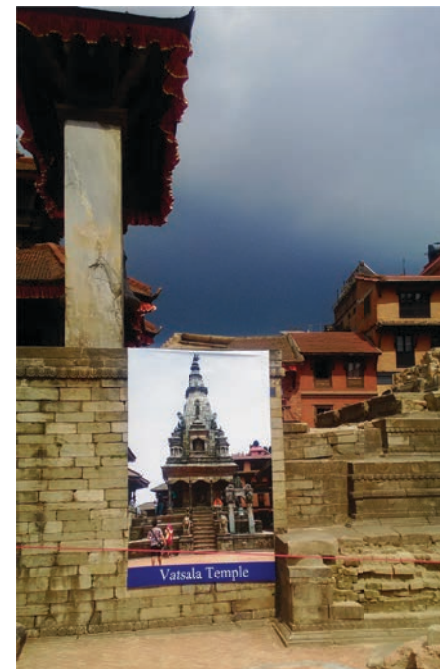






山の中腹も尾根の上も
散在して住んでいます

再開されたバクタプールの旧王宮へ



倒れなかった建物も多いが



国連 ETC訪問

- 空港入り口のすぐ横



Open Source Vehicle で イノベーションのお話



＜ソーシャル・アントレプレナー＞ マハビールさんのレストラン



復旧への歩みは遅い

Govt teams to identify houses to be demolished

POST REPORT
KATHMANDU, JUNE 17

The government has formed technical committees in every village development committee and municipality to ascertain whether the buildings damaged in the April 25 earthquake and its aftershocks need to be demolished.

Though it is exactly not clear how many buildings are



Most of the unsafe houses outside Kathmandu have been pulled down by their owners.

Devendra Lamichhane, the chief district officer of Dolakha, said the houses that were damaged in the quake are being demolished at the initiative of their owners.

"We are currently preparing the final report on the damage caused by the quake. It will take a few weeks to

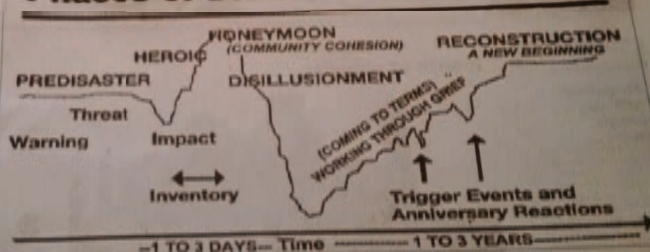
DAM
Ras
Nep
Jai
Lo
de

The honeymoon is over

Regardless of how the govt manages reconstruction, there is likelihood of some disillusionment creeping in

AS I LIKE

Phases of Disaster



ity to stay standing. Those with experience in post-earthquake Haiti have contrasted the Nepali spirit very favourably. Unlike the devastation in that faraway country as poor as us, Nepal in the affected area have demonstrated a vitality that has amazed outsiders. One factor could be the number of

otherwise engaged in activities that can be described as heroic. The honeymoon phase sets in immediately afterwards as people bask in their good fortune of having managed to make it alive and then engage in community efforts and help one another even as external help begins to arrive. We are stuck in the second phase now. As the

Build back better There has been a lot of anecdotal evidence of relief groups dropping off supply along the road without consideration those who live higher up the slopes, usually Tamangs, or in other marginal lands usually Dalits. Equally, for reasons of sex Tamangs would also be the ones

Drinking water shortage hits remote Dhading village

HARISHAR SINGH RATHOUR
DHADING, JUNE 17

The perennial drinking water problem in Salyantar VDC of the district has further compounded after the Great Earthquake. Altogether 21 villages in the district are facing acute water shortage due to pipes being swept away by landslides, drying up of water sources and damages to water tanks and reservoirs.

After four water sources and reservoir tanks were damaged in the April 25 earthquake and subsequent aftershocks, some 8,000 residents of the VDC are reeling under acute water shortage. Drinking water project had been initiated in the village in



People of Salyantar spend four to six hours ferrying water from the nearest water taps to their houses.

POST PHOTO

the new project was swept by landslides after the Great Earthquake, residents in wards 1 to 6 in the VDC are

Chatkuli, said. "As all joints in drinking water pipes have been broken, water cannot be pumped to the main tank." A water reservoir, established

Prem Narayan Shrestha, a local who has been given the responsibility to look after the tank, said.

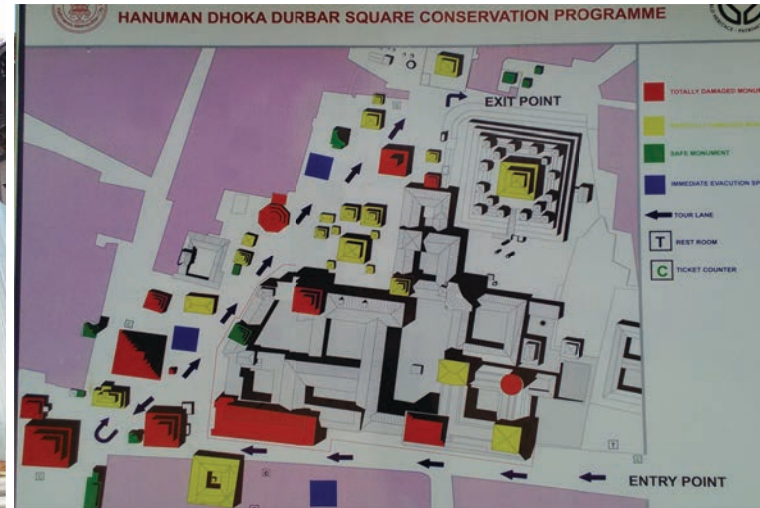
The severe water shortage has also affected livestock in the district. Owing to this reason, the locals have no option but to take their livestock to Mulpani River, Aankhu Kholi River and Budhi Gandaki River for water. Meanwhile, small stream near Budhi Gandaki is supplying water for residents of ward no. 1. Water sources on the hillsides have also begun to dry up due to the hot weather.

Some 1,600 households of wards 1 to 4 draw water daily consumption from three taps that have been installed nearby their

再建への道は重荷を運ぶこと？

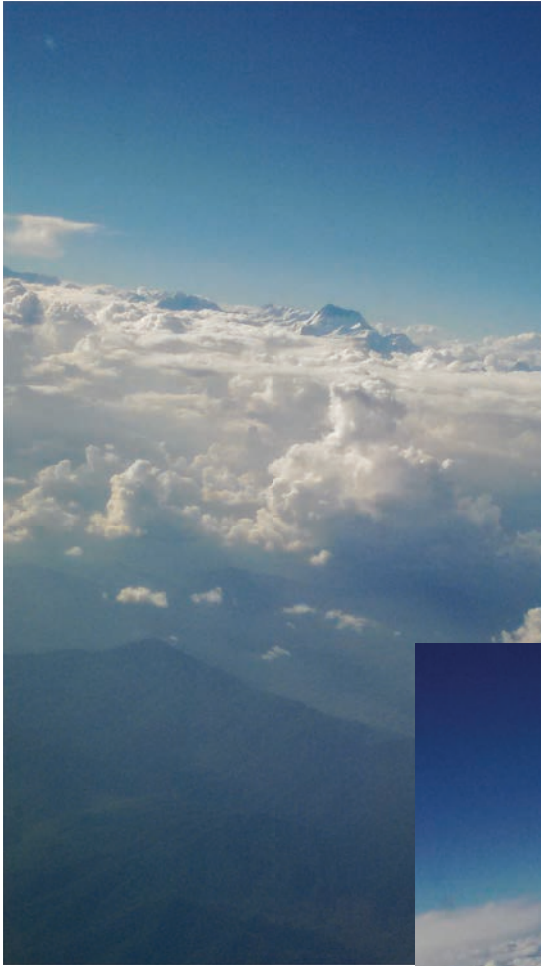


カトマンズの旧王宮 ダルバール広場



ネパールに行こう

コミュニティ・エコ・ツアーもあります
11月からは乾季で天候も安定



ほかに 何ができるでしょうか？

- みなさんの知恵と力を結集して、、
- 7月4日 情報支援連絡会第2回
- <マハビールさんを囲む会>にぜひご参加を