REDESIGNING URBAN GOVERNANCE: CREATING RISK NEUTRAL CITIES FOR SUSTAINABILITY

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Organização:



Apoio:









Workshop : As mudanças climáticas e as cidades brasileiras - riscos e medidas de respostas

Data: 22 de junho (quarta-feira)

Endereço: Auditório da Cetesb - Av. Professor Frederico Hermann Jr 345,

Alto de Pinheiros, São Paulo - SP.

CONTENTS

- Introduction
- Revisiting recent urban crisis (2013-14 Ebola outbreaks in West Africa, 2015 Nepal earthquakes and 2015-2016 Zika Virus outbreaks)
- Cascading effects of disaster (eg. The 2015 Nepal Gorkha Twin Earthquakes)
- Challenges in urban risk and response governance
- Need of a local risk neutral planning for sustainability: how can we start?

INTRODUCTION

- Doctor of Philosophy (PhD), Northumbria University, UK.
- Thesis Title: Getting down to local level: exploring vulnerability to improve disaster management systems in Nepal.
- MSc (Disaster Management and Sustainable Development), Northumbria University, UK.
- B.Sc. (Environmental Sciences), University of Delhi, India.

Current research activities:

- -to develop a local risks based decision support tool with Dr. Roy Sanderson, Professor Qiuhua Liang and Dr. Sean Wilkinson from Newcastle University, UK
- -Affiliated International Researcher, The Gorkha, Nepal Earthquake: A Multilevel Approach to Disaster Resilience Measurement Project (2016-2017) with Dr. R.J Ferreira, Disaster Resilience Leadership Academy (DRLA), Tulane University, USA.

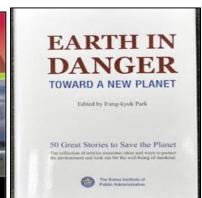


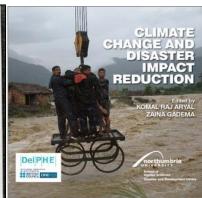


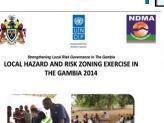






















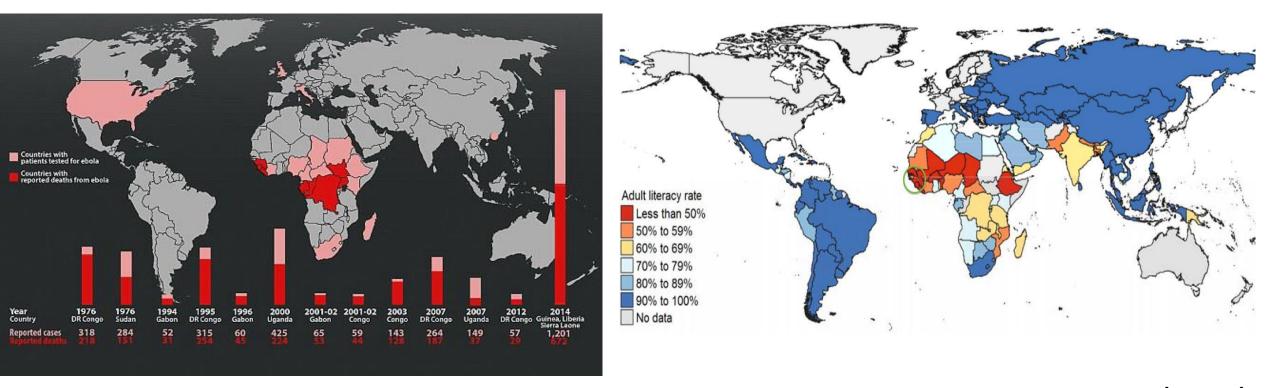




REVISITING RECENT URBAN CRISIS

- 2013-14 Ebola outbreaks in West Africa,
- 2015 Nepal earthquakes,
- 2015-2016 Zika Virus outbreaks.

2013-14 EBOLA OUTBREAKS IN WEST AFRICA AND GLOBAL IMPACT



Maps source: google search

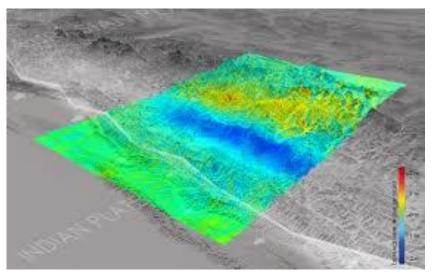
Education and disaster impact are closely related.

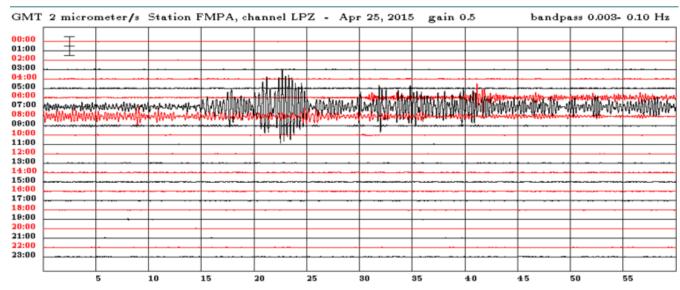
GLOBAL MAP OF ZIKA VIRUS: AS OF MAY 26, 2016 Reported active transmission See inset map Mexico Cape French Guiana Honduras Nicaragua El Salvador Panama Costa Rica Venezuela French Guiana Verde Marshall Is. Colombia Kosrae Suriname (Micronesia) Ecuador **New Guinea** Brazil **American Samoa** Bolivia Paraguay New Caledonia Cuba Argentina Dominican Rep. St. Martin Puerto Rico Sint Maarten /irgin Is. St. Barthelemy Guadeloupe Jamaica US Virgin Is. St. Lucia Martinique Aruba St. Vin. and Gren. Barbados Trinidad & Tobago Venezuela

http://www.cdc.gov/zika/geo/active-countries.html

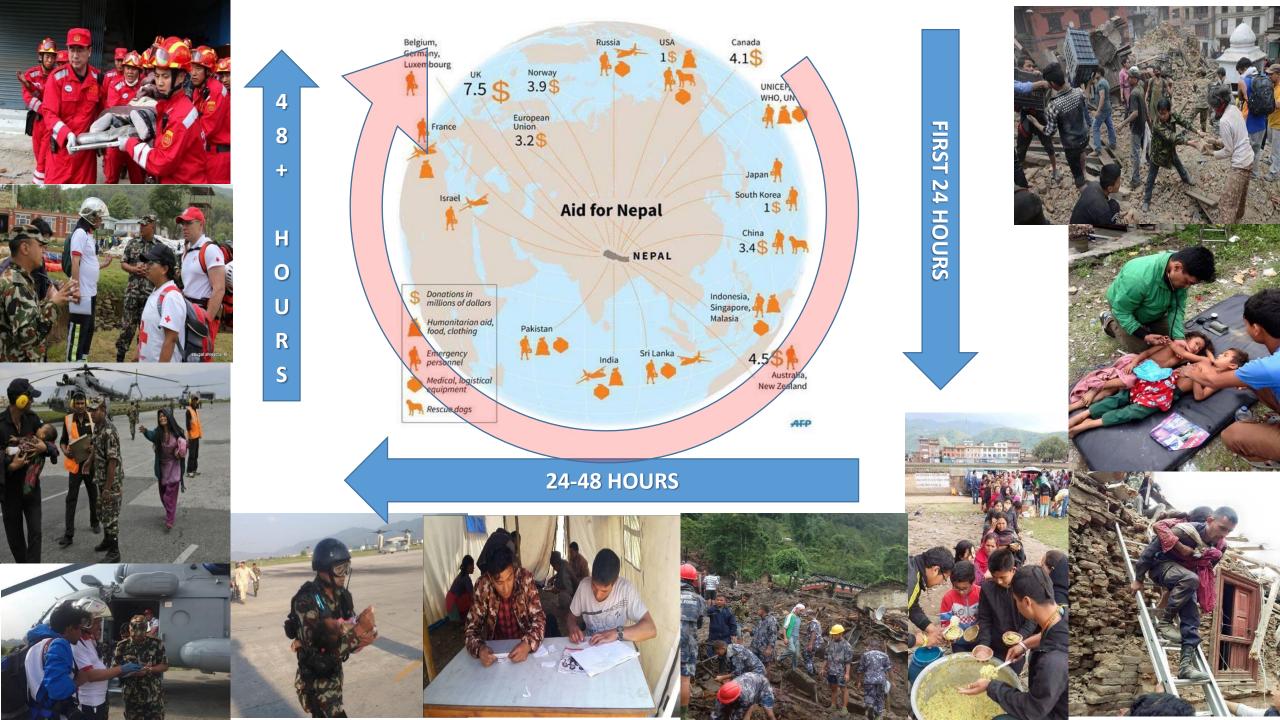


At 11:56:15 on 25th April, 2015 (Local Time, Nepal)







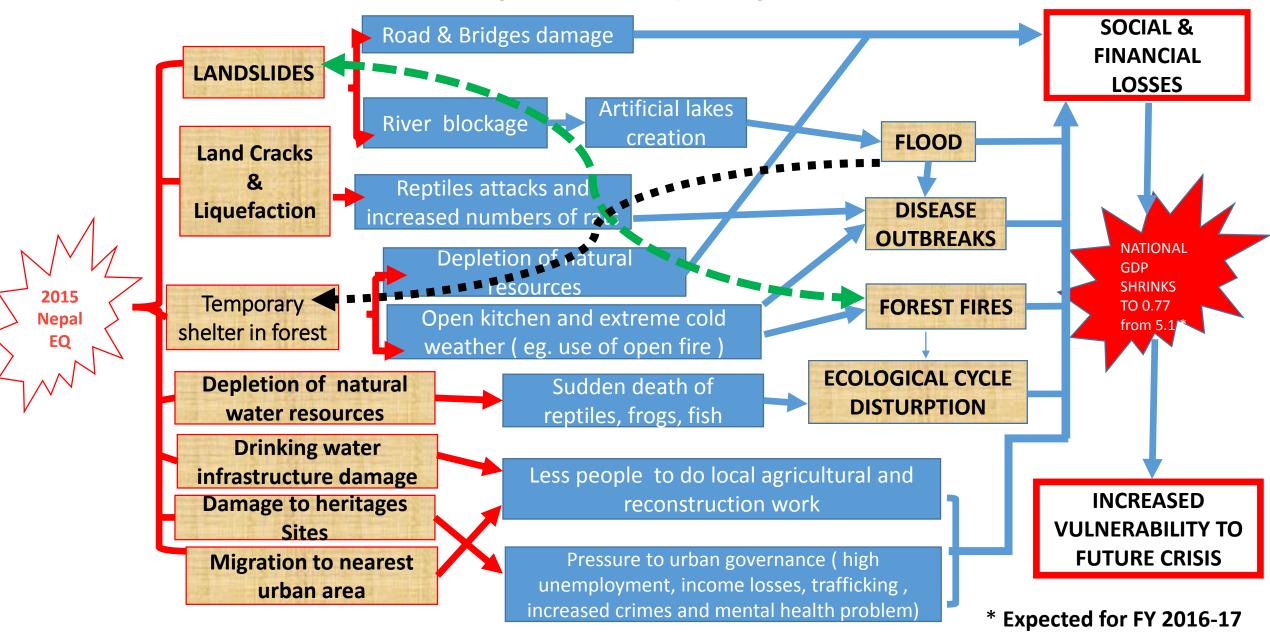




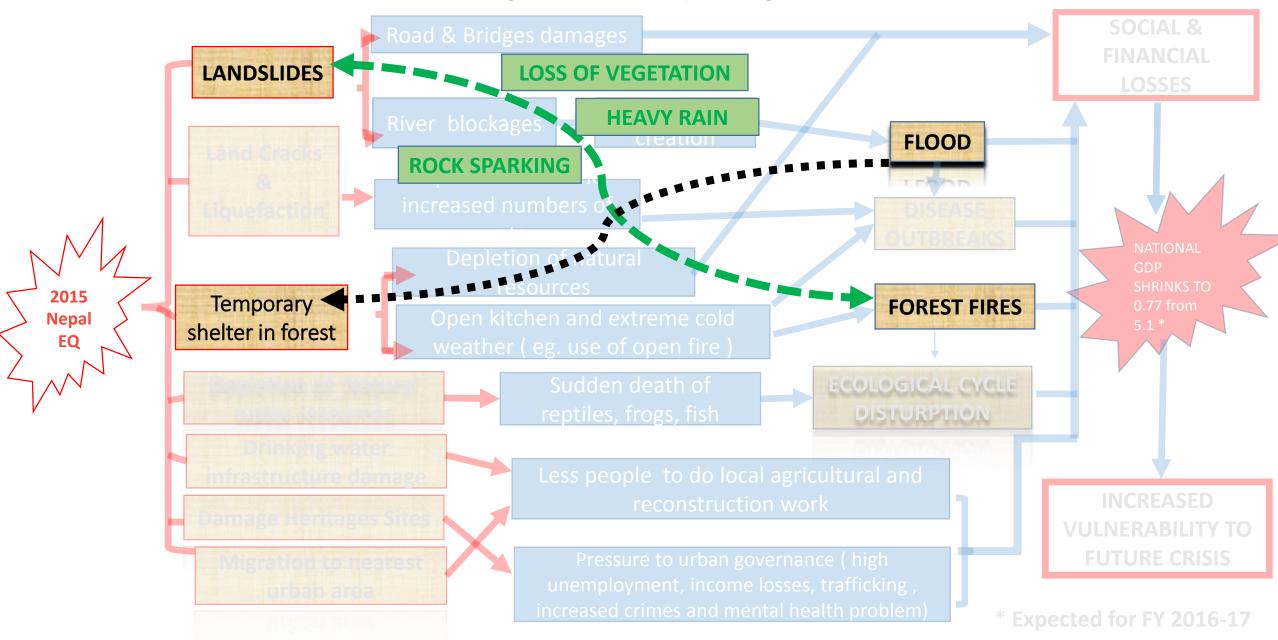
FROM 48 HOURS – 2 MONTHS

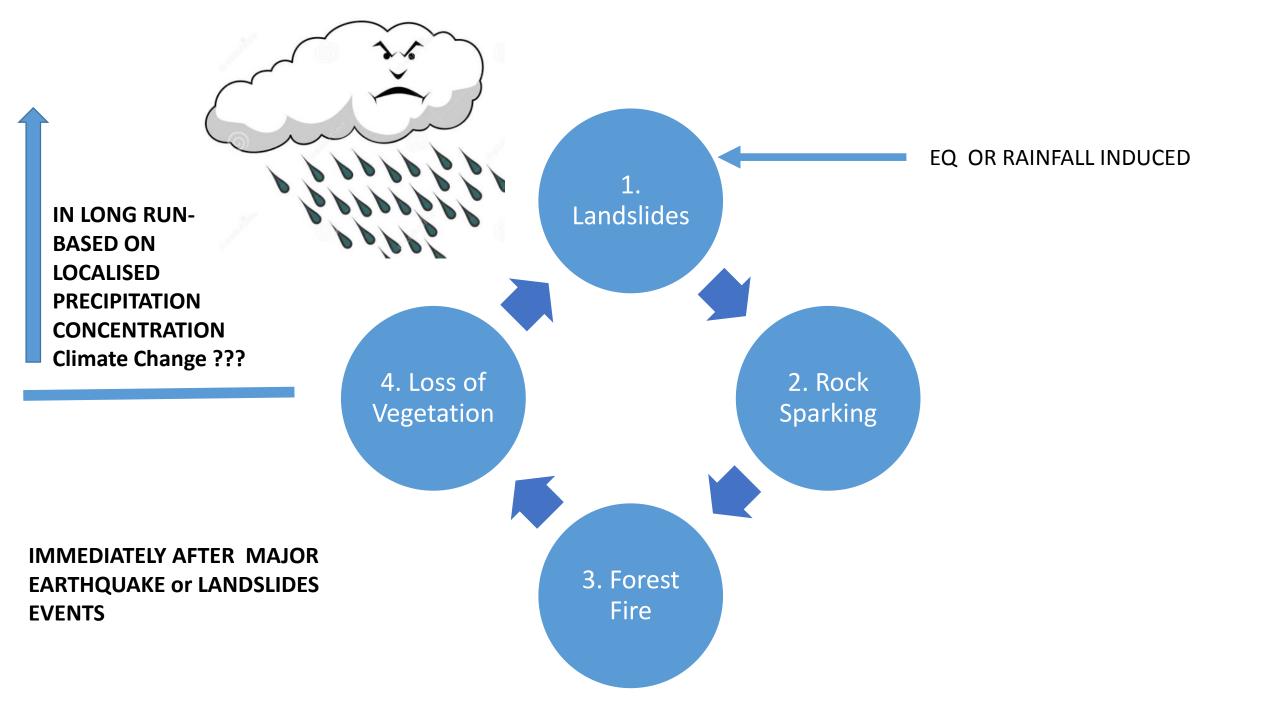


CASCADING EFFECTS OF THE 2015 NEPAL GORKHA TWIN EARTHQUAKES (as of 16 June, 2016)



CASCADING EFFECTS OF THE 2015 NEPAL GORKHA TWIN EARTHQUAKES (as of 16 June, 2016)





ARE OUR CITIES ADEQUATELY CAPABLE TO RESPOND FUTURE KNOWN AND UNKNOWN CRISIS?

Most of our cities are not

WHY THEY ARE NOT?

- ➤ High level of corruption due to local social inequity;
- Inadequate local disaster risk governance infrastructures;

Examples-

- -Not designated unit to deal with local disaster risk management.
- -Weak fire and rescue service.
- -Absence of an integrated local risks based data management system (collection, coordination and analysis) for decision support.
- ➤ Local risk management is yet to be considered as one of the key factors for local SUSTAINABILITY or local sustainable development.
- Most of international development activities are still "project based not process based".

When disaster strikes in city that lacks local risk governance infrastructure, it hits hard to local and national economy affecting sustainable development process. Examples:

THE GAMBIA



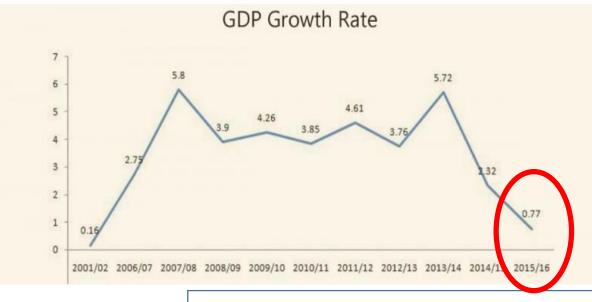
20 % of population affected by flood in September, 2010

2013- early 2014 Migratory birds attacks (Quelea) and the country highly exposed to Ebola outbreaks.

NEPAL

Govt unveils economic survey, projects 0.77 percent growth

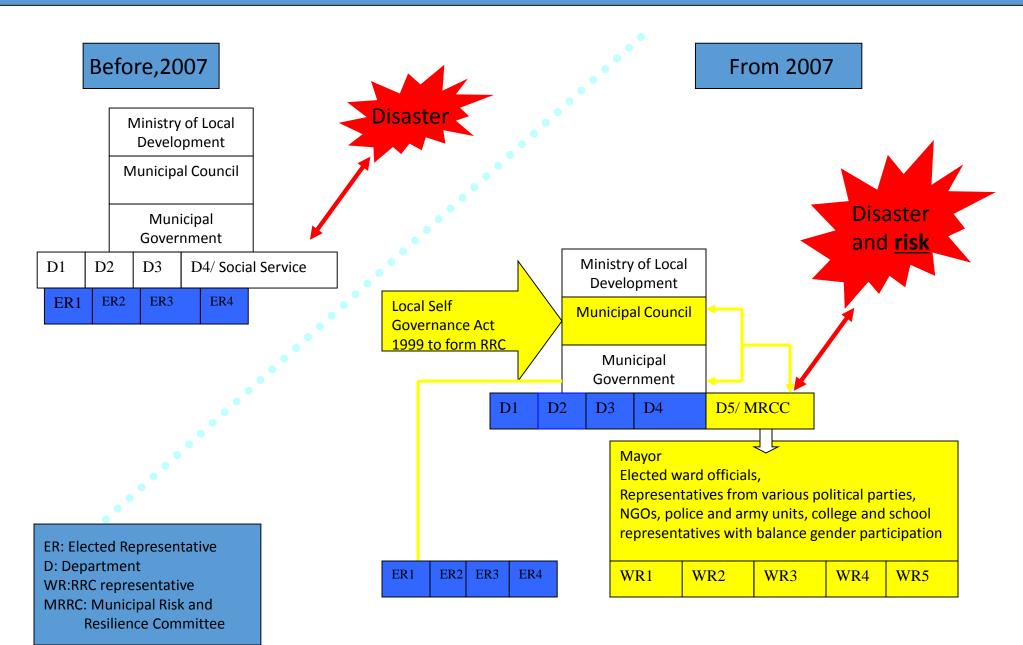
- Post Report, Kathmandu



Source: Kathmandu Post Daily, 27 May, 2016

LOCAL RISK NEUTRAL PLAN	NING FOR URBAN	I SUSTAINABILITY	: HOW CAN WE STAR	RT ?

Municipal Risk and Resilience Governance Model (A pilot study funded by British Council and UKaid 2007-2009 in Nepal)



January 2007 - May 2012

August 2012

July 2013 –March 2015

April 2015







- 10 fire response motor bikes form a local business house (local public –private partnership)
- Urban Risk & Response Training supports from JICA /UNDP/ Australia

- A carbon neutral landfill site in Dhankuta
- 8 Fire engines, and search & rescue equipment and training from the UK and Italy.
- Many municipalities started fire engine procurement process from Nepalese government fund.

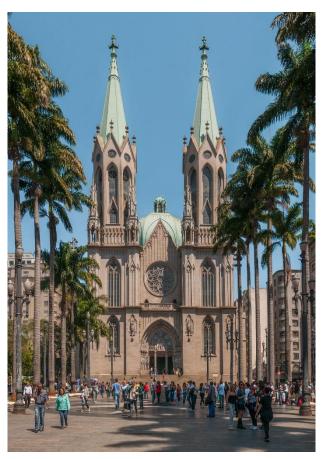


How project facilitated to maximise the impact of science for adapting risk governance activities and building local resilience?











THANK YOU FOR YOUR ATTENTION!

Supporting slides

Linking hazard, risk, vulnerability, disaster and resilience

