

Making informed decisions for effective DRM programmes and actions

Dr. Carlos Villacis – GRIP Coordinator

Overview



- Applications of RA for effective DRM
- Next steps

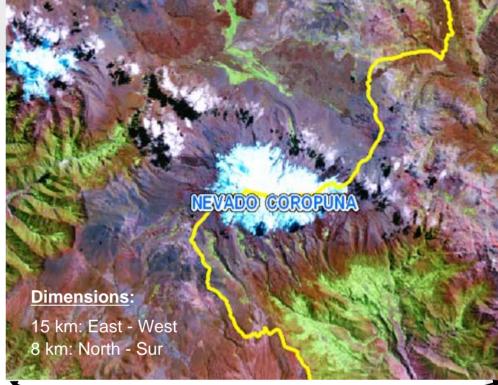


Applications of Disaster Risk Assessment

- Climate change adaptation
- Urban development planning
- Support to humanitarian activities
- New policy for High-Risk Countries

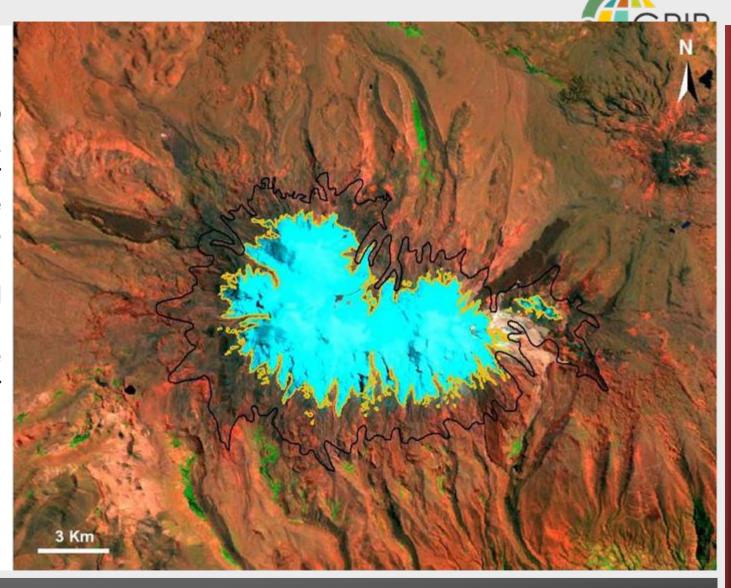
Climate change adaptation Arequipa-Peru







Nevado Coropuna glacier coverage for 1955 (outline in black) and 2003 (in orange outer boundary).



Tangible results

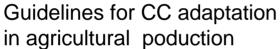






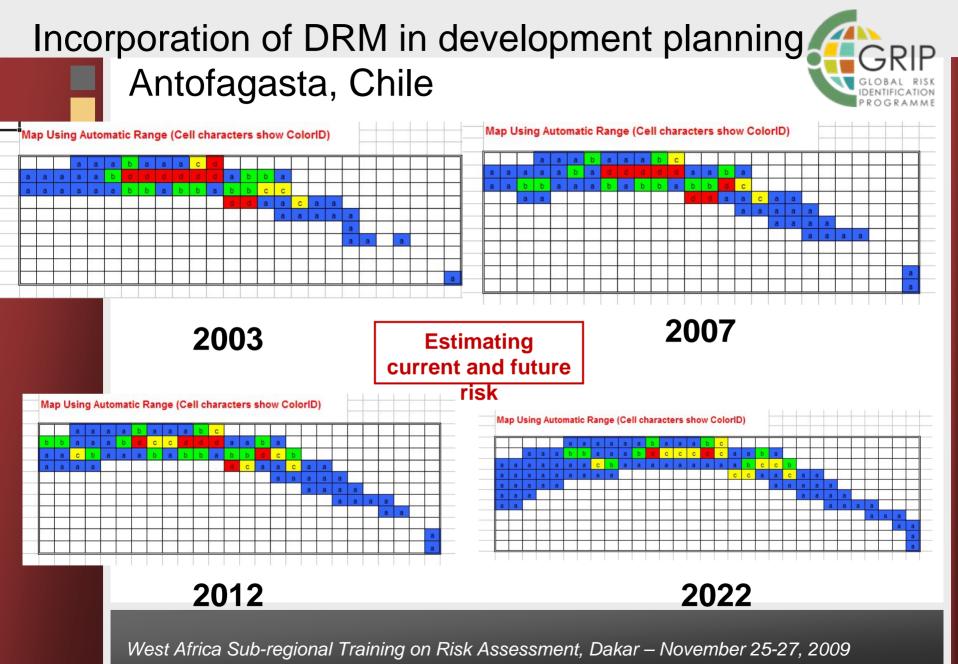


ncorporation o adaptation in development plans









Engaging all stakeholders in the process





Working session with city planners

Public seminar to discuss the project results



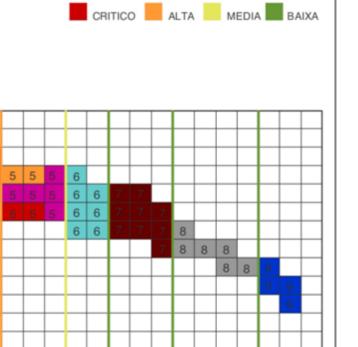
Planning development



New land-use zoning considering levels of risk

NIVEL DE RISCO - Antofagasta Chile

UT LA CHIMBA



West Africa Sub-regional Training on Risk Assessment, Dakar – November 25-27, 2009

UT SALAR

UT CENTRO

UT NICOLAS

Support to humanitarian activities







Risk Mapping for Strategic Planning of Shelter Response in Tijuana, Baja California, México.



H. AYUNTAMIENTO TIJUANA B.C. AGREEMENT OF COOPERATION

between

UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

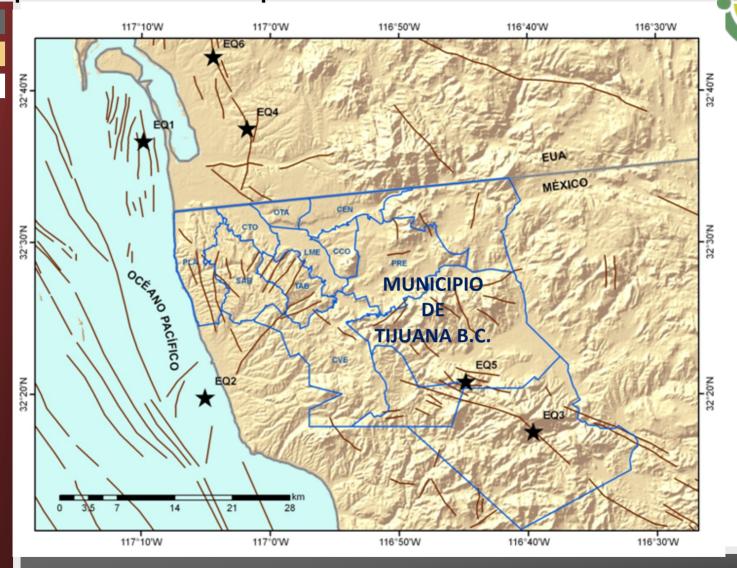
Antonio Rosquillas and Luis Moreno

Municipio de Tijuana



CENTRO DE INVESTIGACIÓN CIENTÍFICA Y DE EDUCACIÓN SUPERIOR DE ENSENADA.

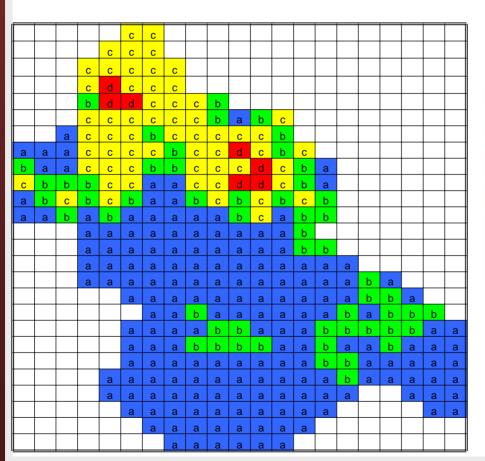
6 possible earthquakes



Damage Evaluation



Estimated distribution of buildings damage



Color	Automat	ic Range	Manual Range			
ID	From	То	From	То		
а	0	18	0	18		
b	18	35	18	35		
С	35	53	35	53		
d	53	70	53	70		



Results

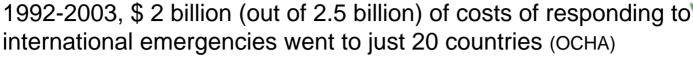


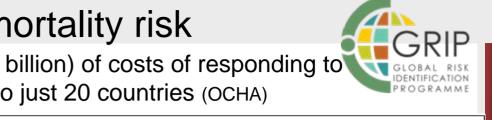
	SAB	CEN	СТО	ССО	CVE	LME	PRE	ОТА	PLA	TAB	Total
EQ1	10,000	4,622	8,917	3,282	1,226	5,839	7,276	4,497	6,372	6,246	58,277
EQ2	12,392	4,593	6,853	3,661	3,184	7,012	8,576	3,341	5,335	9,503	64,449
EQ3	3,025	2,792	1,942	2,400	1,360	2,751	8,457	1,266	947	3,648	28,588
EQ4	12,465	10,140	11,085	6,676	1,703	9,942	15,133	7,984	6,019	10,169	91,316
EQ5	4,986	4,504	2,900	4,289	2,581	5,317	16,561	1,993	1,456	6,338	50,925
EQ6	6,411	6,063	5,761	3,581	1,032	4,979	8,437	3,985	3,216	4,979	48,444

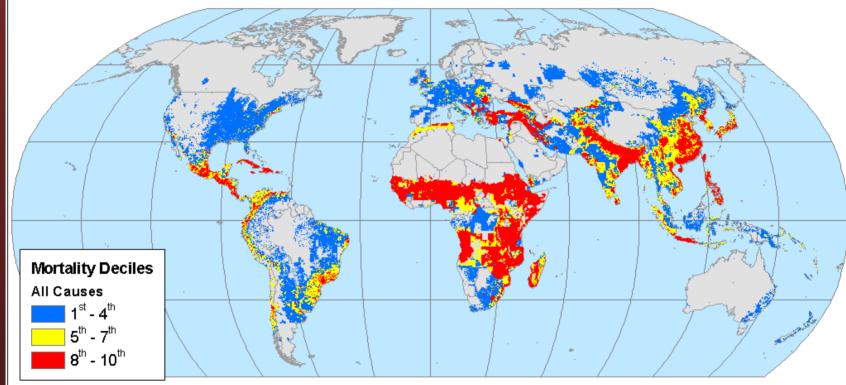
Number of persons with shelter needs estimated for the six earthquake scenarios

Shelter plan uploaded on Google Map National City San Miguel Diego Bay (54) Chula Vista MORELOS Last Updated by Tijuana Earthquake Shelters on Jun Мар Traffic Satellite Terrain Rancho San Diego SECUNDARIA GENERAL ESTATAL NUM. 115 Last Updated by Tijuana Earthquake Shelters on Jun San Diego (125) NOMBRE: SECUNDARIA GENERAL ESTATAL National City INMUEBLES2: SECUNDARIA GENERAL ESTATAL NUM. 115 (54) Bonita DOMICILIO: CIRCUITO LOMA DORADA S/N CODPOST: 22214 Rancho Chula Vista TGRUPOS: 18 TALUMNOS: 653 SUPTERRENO: 4442 SUPCONSTRU: 1362 NUMEDIFIOS: 4 Beach Get directions - Search nearby Naval Outlying Nestor Munici Zoom here - Send 905 Tecate Tijuana Redondo Colonia Rancho

Global distribution of mortality risk

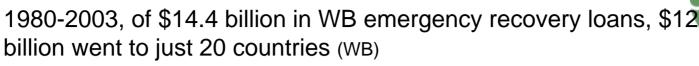




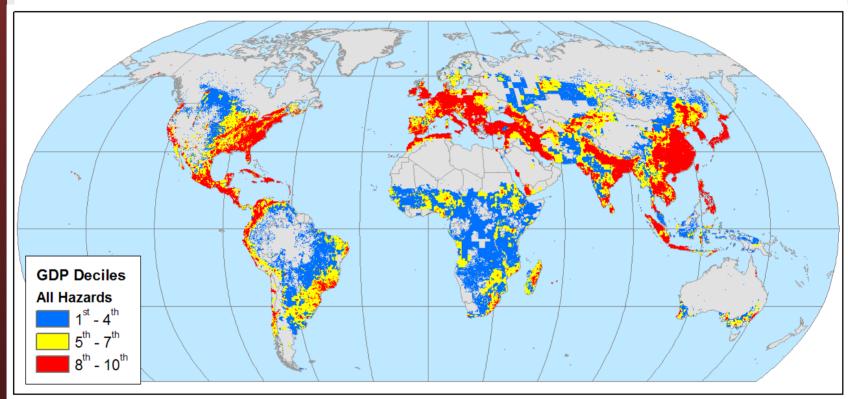


China, India, Bangladesh, Egypt, Mozambique, Turkey, Afghanistan, El Salvador, Kenya, Iran, Pakistan, Indonesia, Peru, Democratic Republic of Congo, Poland, Vietnam, Colombia, Venezuela, Tajikistan, Cambodia

Global distribution of financial risk







India, Turkey, Bangladesh, Mexico, Argentina, Brazil, Poland, Colombia, Iran, Honduras, China, Chile, Zimbabwe, Dominican Republic, El Salvador, Algeria, Ecuador, Mozambique, Philippines, and Vietnam



Next steps

1- Current situation assessment



- Standard assessment of the current situation in the countries of the region
- Systematic inventory of existing work, capacities, institutional frameworks → Comparable country profiles
- Identify common needs and challenges that can be addressed as regional efforts to maximize impact and promote collaboration

1- Concrete proposal



- 16 countries of the region
- Coordinated by ECOWAS
- Duration ~ 6 months
- Resulting country profiles accessible online
- Basis for delineation of regional DRR strategy

2- Regional Disaster Database



- Start National Disaster Observatories in 2-3 pilot countries
- Involve all the countries in the process
 - Capacity development
 - Sharing of experiences
 - Prepare a regional initiative
- Start the development of Regional Disaster Database
 - Support national DRR programs
 - Support regional DRR programs
 - Integrate to global efforts

2- Concrete Proposal



2-3 pilot countries selected
Coordinated by ECOWAS
Advisory committee formed by other countries
Technical support committee → technical institutions of the region
Capacity Development as a priority

2 years to complete the first phase Start the regional effort in the 2nd year

3- Urban risk assessment



Risk assessment with participation of all sectors
Revision of contingency plans
Long-term DRM action plans
Incorporation of DRM in Urban Planning

3- Concrete proposal



3-5 pilot cities selected
Coordinated by ECOWAS
Close collaboration with UN-Habitat
Advisory committee formed by other countries (local authorities)
Technical support committee → technical institutions of the region
Capacity Development as a priority

2 years to complete the first phase Start the regional effort in the 3rd year