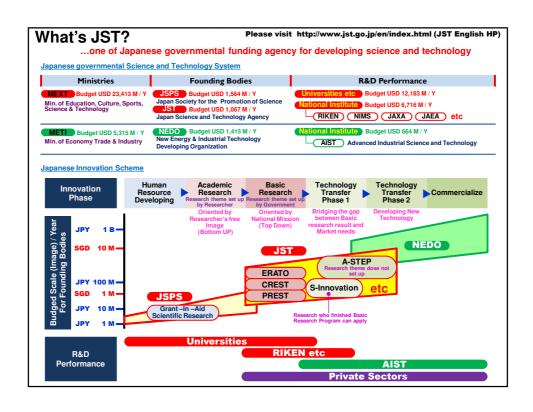
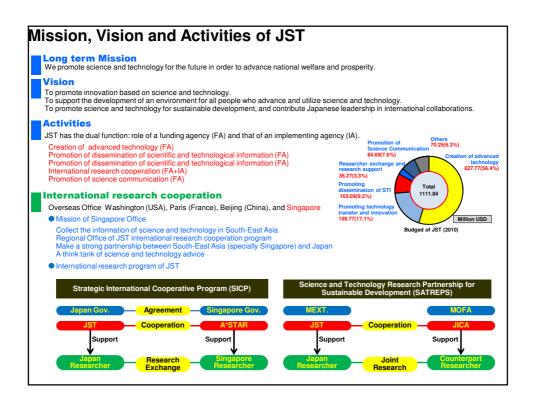
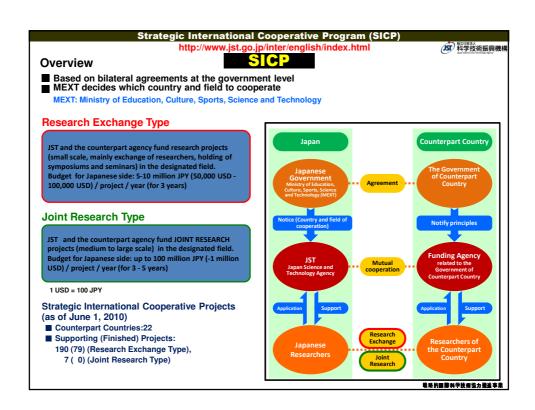


Japan Science and Technology Agency (JST)

Sri Lanka, June 2011







Strategic International Cooperative Program (SICP)

料学技術振興機構

(1) Research Exchange Type 190 on-going projects and 79 completed projects in 21 countries and 1 region

(as of June 11, 2010)

Country	Research Field	Ongoing Projects (Finished Projects)	Counterpart Agency
Brazil	Biomass / Biotechnology	to be started	National Council for Scientific and Technological Development (CNPq)
Mexico	Life Sciences	to be started	National Council on Science and Technology (CONACYT)
USA	S&T for a Secure and Safe Society	12 (12)	National Science Foundation (NSF)
Croatia	Materials Science	under review	Ministry of Science, Education and Sports (MSES)
Denmark	Clinical Research	8	Danish Agency for Science, Technology and Innovation (DASTI)
England	Systems Biology (Finished projects in Bionanotechnology, Structural Genomics and Proteomics)	8 (19)	Biotechnology and Biological Sciences Research Council (BBSRC)
	Advanced Materials	9	Engineering and Physical Sciences Research Council (EPSRC)
EU	Environment	under call	European Commission, Directorate-General of Research (EC-DGR)
Finland	Functional Materials	12	Academy of Finland (AF) Finnish Funding Agency for Technology and Innovation (TEKES)
France	Life Science (Marine Genome & Marine Biotechnology)	9	Le Centre National de la Recherche Scientifique (CNRS)
	ICT including Computer Science	5 (10)	
		3	Agence Nationale Recherche (ANR)
Germany	Nanoelectronics	23	Deutsche Forschungsgemeinschaft (German Research Foundation) (DFG
Spain	Materials Science	8	Ministry of Science and Innovation (MICINN)
Sweden	Multidisciplinary Bio	6 (15)	Verket for Innovationssystem, SSF: Stiftelsen for Strategisk Forskning (VINNOVA)
Switzerland	Life Sciences	8	Swiss Federal Institute of Technology Zurich (ETHZ)

吸咯的国际科学技術協力推進事業

Strategic International Cooperative Program (SICP)



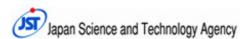
(as of June 11, 2010)

Country	Research Field	Ongoing Projects (Finished Projects)	Counterpart Agency
China	S&T for Environmental Conservation and Construction of a Society with	18 (18)	National Natural Science Foundation of China (NSFC)
	Less Environmental Burden	10	Ministry of Science and Technology (MOST)
	Climate Change	6	
Korea	Biosciences	5	National Research Foundation (NRF)
China-Korea	Materials Science	3	Korean Research Institute of Standards and Science, NIM: National Institute of Metrology (KRISS)
	Global issues and important issues in Northeast Asian region	3	Ministry of Science and Technology (MOST, China) National Research Foundation (NRF, Korea)
India	Multidisciplinary ICT	18	Department of Science and Technology, Ministry of S&T (DST)
Singapore	Functional Applications in Physical Sciences	3	Agency For Science, Technology And Research (A*STAR)
Thailand	Biotechnology	under review	National Science and Technology Development Agency (NSTDA)
Australia	Marine Science	3	Department of Innovation, Industry, Science and Research (DIISR)
New Zealand	Bioscience and Biotechnology	2	Foundation for Research, Science and Technology (FRST)
South Africa	Life Sciences	4	National Research Foundation (NRF)
Israel	Life Sciences	4	Israel Ministry of Science Culture & Sport (MOST)

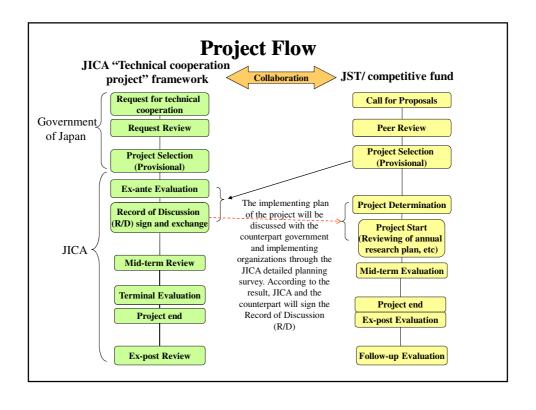
■ Other Finished Projects: 4 projects w/ China-Korea-Japan framework 1 project w/ South Africa

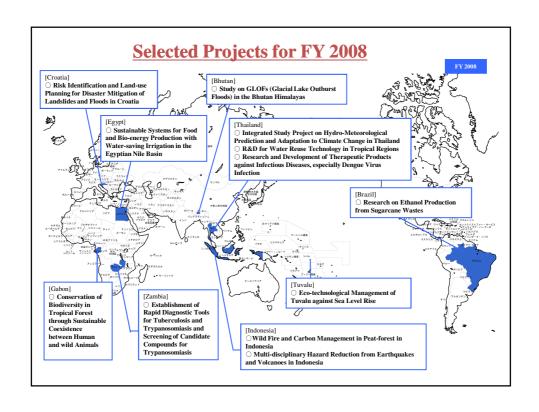
吡咯的国际科学技術協力推進事業

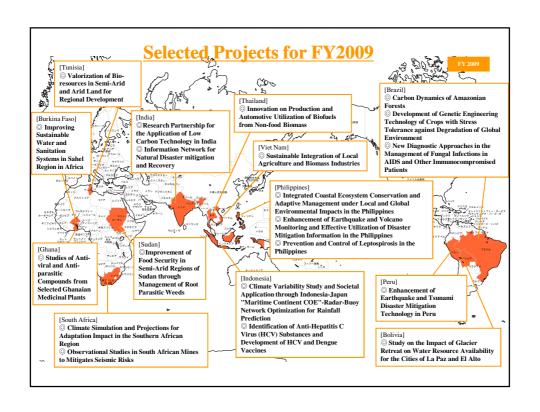
Science and Technology Research Partnership for Sustainable Development (SATREPS)

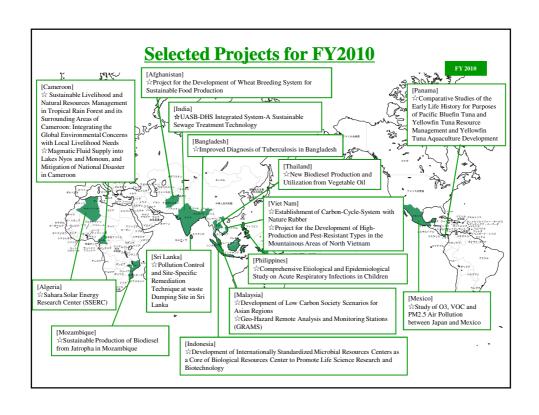












	Projects for Nat	ural Disast	ter Mitigation	
Year	Project Title	Primary Investigator	Affiliation	Count
	Magmatic Fluid Supply into Lakes Nyos and Monoun, and Mitigation of Natural Disasters in Cameroon	Prof. OHBA Takeshi	School of Science, Tokai University	*
2010	Research and Development for Reducing Geo-Hazard Damage in Malaysia caused by Landslide & Flood: Geo-Hazard Remote Analysis and Monitoring Stations (GRAMS)	Prof. NISHIO Fumihiko	The Center for Environmental Remote Sensing, Chiba University	(*
	Enhancement of Earthquake and Volcano Monitoring and Effective Utilization of Disaster Mitigation Information in the Philippines	Principal Senior Researcher INOUE Hiroshi	Earthquake Research Department, National Research Institute for Earth Science and Disaster Prevention	*
2009	Observational Studies in South African Mines to Mitigate Seismic Risks	Prof. OGASAWARA Hiroshi	College of Science and Engineering, Ritsumeikan University	>
	Information Network for Natural Disaster Mitigation and Recovery	Prof. MURAI Jun	Faculty of Environment and Information Studies, Keio University	•
	Enhancement of Earthquake and Tsunami Disaster Mitigation Technology in Peru	Prof. YAMAZAKI Fumio	Graduate School of Engineering, Chiba University	۱
	Multi-disciplinary Hazard Reduction from Earthquakes and Volcanoes in Indonesia	Prof. SATAKE Kenji	Earthquake Research Institute, The University of Tokyo	
2008	Study on GLOFs (Glacial Lake Outburst Floods) in the Bhutan Himalayas	Prof. NISHIMURA Kouichi	Graduate School of Environmental Studies, Nagoya University	A.
	Risk identification and land-use planning for disaster mitigation of landslides and floods in Croatia	Prof. MARUI Hideaki	Research Center for Natural Hazards & Disaster Recovery, Niigata University	

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

*	esearch Period	5 Years			
Prof. MARUI Hideaki / Research Center for Natural Hazards & Disaster Recovery, Niigata University					
International Consortium on Landslic	des, Kyoto Universi	ity			
Republic of Croatia	Research	University of S	plit		
	mitigation of landslides and floods in Prof. MARUI Hideaki / Research Center for Natural Hazards Niigata University International Consortium on Landslic	Prof. MARUI Hideaki / Research Center for Natural Hazards & Disaster Recove Niigata University International Consortium on Landslides, Kyoto University	mitigation of landslides and floods in Croatia Prof. MARUI Hideaki / Research Center for Natural Hazards & Disaster Recovery, Niigata University International Consortium on Landslides, Kyoto University Republic of Croatia Counterpart Research University of S		

研究課題の概要 General Description of the Research Project

Croatia locates in the active tectonic zone along which is similar to Japanese archipelago, so, its geology and geomorphology are complex and suffers from many earthquakes. Landslide and flush flood disasters occur frequently in those areas of limestone, flysch and marl deposits. In this project, the master plan of land-use to mitigate natural disasters will be established, for the areas under development and the districts with important infrastructure, by applying reliable risk identification methodology, obtained through the analysis of complex ground structure and hydrologic characteristics.

1.3

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

Project Title	Enhancement of Monitoring Capab Process Studies of Earthquakes and Philippines	Research Period	5 Years				
Principal	Principal Senior Researcher INOU	incipal Senior Researcher INOUE Hiroshi /					
Investigator	Earthquake Research Department,	arthquake Research Department,					
(Affiliation)	National Research Institute for Ear	th Science and Disa	aster Preventio	on			
Collaborators	Collaborators Nagoya University, Tokai University						
ODA Recipient Country	Republic of the Philippines	Counterpart Research Institutions	Philippine I Volcanolog (PHIVOLC	y and Seismology			

General Description of the Research Project

In this project, we install the real-time networks of broadband seismometers, strong motion accelerometers, and seismic intensity meters to automatically estimate ground shaking and damage when an earthquake occurs in the Philippines. We also measure crustal deformations to evaluate the potential of large earthquakes in and around Mindanao. A real-time volcano monitoring systems will be installed at Taal and Mayon volcanoes. We provide earthquake and volcano disaster information through an Internet portal site, and promote its utilization in order to contribute to disaster preparedness of the national, local governments, and communities of the Philippines.

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

Project Title	Studies of Seismic Hazard Mitiga South African Mines	Research Period	5 Years		
Principal Investigator (Affiliation)	Prof. OGASAWARA Hiroshi / College of Science and Engineering, Ritsumeikan University				
Collaborators	Tohoku University, The University of Tokyo				
ODA Recipient Country	Republic of	Research	Council for Sciend Industrial Researc		

General Description of the Research Project

Mining-induced seismicity is a serious safety hazard to mine workers as natural earthquakes are to those who live on surface. In order to control and mitigate the seismic risks, this project aims to upgrade the schemes of seismic monitoring and risk assessment for deep mines. A highly sensitive microfracture monitoring system will be implemented in the area of high seismic potential to identify the source fault of impending earthquakes. Mining-induced stress field will be tracked using numerical modeling and sensitive strain observations. In addition, near-fault dynamic stress will be monitored during the mainshock rupture to improve the assessment of strong shake.

15

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

Project Title	Information Network for and Recovery	Research Period	5 Years				
Principal Investigator (Affiliation)	Prof. MURAI Jun / Faculty of Environment and	of. MURAI Jun / aculty of Environment and Information Studies, Keio University					
Collaborators	The University of Tokyo	he University of Tokyo					
ODA Recipient Country	India	Research	Indian In Hyderaba	stitute of Techn ad	ology		

General Description of the Research Project

For a number of years, researchers have investigated the use of information technology to mitigate damage and suffering during natural disasters via early detection, rapid and optimal resource distribution, and information utilization. However, the infrastructure to realize these benefits has not yet been established. This pilot collaboration between India and Japan aims to deploy infrastructure for continuous data collection, using earthquakes and weather as test cases, and to develop the technical basis for rescue and recovery.

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

Project Title	Evaluation of Seismic Ri and Mitigation of Disaste and Intermediate Cities in	Research Period	5 Years					
Principal Investigator (Affiliation)	rof. YAMAZAKI Fumio / kraduate School of Engineering, Chiba University							
Collaborators	Tohoku University, Build	Tohoku University, Building Research Institute, Tokyo Institute of Technology						
ODA Recipient Country		Counterpart Research	Engineering	Center for Earth and Disaster M National Univer	litigation			

General Description of the Research Project

This project aims to conduct a comprehensive research towards earthquake and tsunami disaster mitigation in Peru considering regional characteristics, under strong collaboration among researchers of Peru and Japan. Five main research activities are the followings: 1) Strong motion prediction and development of seismic microzonation; 2) Development of tsunami countermeasures based on numerical simulations; 3) Enhancement of seismic resistance of buildings based on structural experiments and field investigation; 4) Development of spatial information database using remote sensing technology and earthquake damage assessment for scenario earthquakes; 5) Development of earthquake and tsunami disaster mitigation plan and its implementation to the society.

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

Project Title	Research and Development for Reducing Geo-Hazard Damage in Malaysia caused by Landslide & Flood: Geo- Hazard Remote Analysis and Monitoring Stations (GRAMS)	Research Period	5 Years
Principal Investigator (Affiliation)	Prof. OHBA Takeshi / School of Science, Tokai University		
Collaborators	The University of Tokyo, National Research Instant Disasrer Prevention(NIED), VisionTech Inc		Science
ODA Recipient Country	Republic of Cameroon Counterpart Research Institutions	Institute for Geo Mining Research	0

General Description of the Research Project

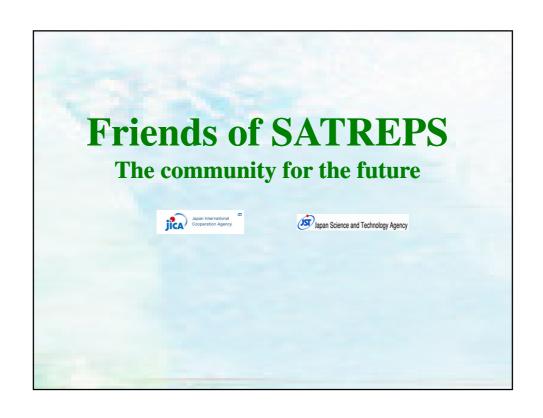
It has been pointed out that recurrence of the CO2 gas burst (limnic eruption) at Lakes Nyos and Monoun (Cameroon) as happened in mid-1980s is highly likely, since there is a permanent supply of magmatic CO2 to the lakes. Although the artificial controlled degassing of the lakes started in early 2000s as a preventive measure, a huge amount of dissolved CO2 still remains in the deep water of the lakes. It is essential to know the rate of natural CO2 recharge and the rate of gas removal in order to assess the safety of the lakes. Lake monitoring is indispensable for this purpose. Moreover, no research has been made on the detailed mechanisms of the limnic eruption. This project aims mainly at the capacity building of Cameroonian researchers who should be responsible for a sustainable monitoring and studies of the recharge mechanisms for Lakes Nyos and Monoun.

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries" Research and Development for Reducing Geo-Hazard Research Damage in Malaysia caused by Landslide & Flood: Geo-Project Title 5 Years Period Hazard Remote Analysis and Monitoring Stations Prof. NISHIO Fumihiko / Principal The Center for Environmental Remote Sensing, Chiba University Investigator (Affiliation) The University of Tokyo, National Research Institute of Earth Science and Disaster Prevention(NIED), VisionTech Inc.(VTI) Collaborators Counterpart **ODA** Recipient Multimedia University Malaysia Research (MMU) Country Institutions General Description of the Research Project

In Malaysia, social and economic loss due to landslide is a big and serious problem and it is important to reduce the risk. To reduce the risk, landslide hazard, risk assignment and its mapping can be good measures for mitigation of the risk and is an important tool for effective management and planning. In this project, we develop a new methodology for mapping by using space satellite remote sensing technology focusing on Malay Peninsula. Index and weight will be given to each factor of the risk, such as vegetation, topographic information, watershed, land slope, etc., which are extracted from satellite data. A landslide hazard map will be generated with three different scales by using those parameters obtained in this way, and it will be verified by the field survey and the ground observation data. The result of this project will be used for the GRAMS which was being planned by the association of Universities in Malaysia.



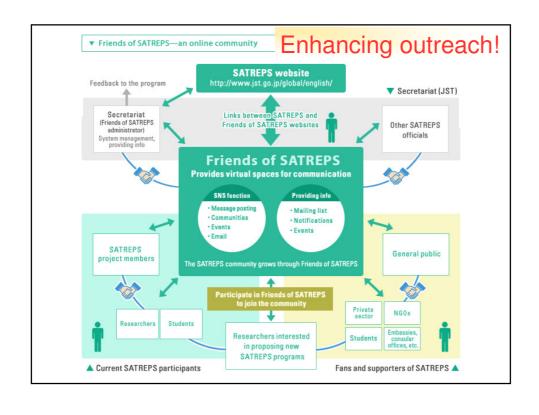




Friends of SATREPS

- ✓ Friends of SATREPS is an **online community** for people involved in SATREPS projects or with an interest in SATREPS.
- ✓ SATREPS participants, supporters, friends, and fans can register as members of *Friends of SATREPS* to join the conversation and take part in the SATREPS community.





Friends of SATREPS

Through Friends of SATREPS, you can:

- Receive news about the SATREPS program, current projects, and information about related events. (Mailing list)
- Take part in SATREPS by cooperating with one of the current projects. For instance, this area is ideal for students with an interest in the environment or for companies/NGOs involved in related initiatives. (SNS)
- 3. Meet and communicate with people not involved in current projects. For instance, this area is ideal for putting together a project team for a new SATREPS project proposal, finding potential teammates, or brainstorming on research topics. (SNS)
- Communicate with other participants in existing projects. (SNS)

Natural Disaster Prevention "Research on natural disaster prevention measures attuned to the needs of developing countries"

Project Title	Study on GLOFs (Glacial Lake the Bhutan Himalayas	in Research Period	3 Years			
Principal Investigator (Affiliation)	Prof. NISHIMURA Kouichi / Graduate School of Environme	rof. NISHIMURA Kouichi / raduate School of Environmental Studies, Nagoya University				
Collaborators	Japan Aerospace Exploration Agency, Earth System Science Co., LTD					
ODA Recipient Country	1 IKingdom of Bhilfan Research 1 1					

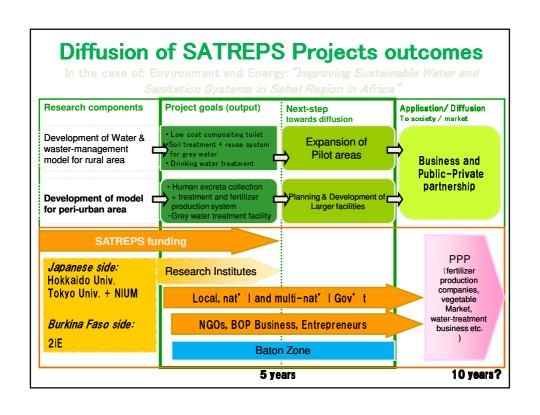
General Description of the Research Project

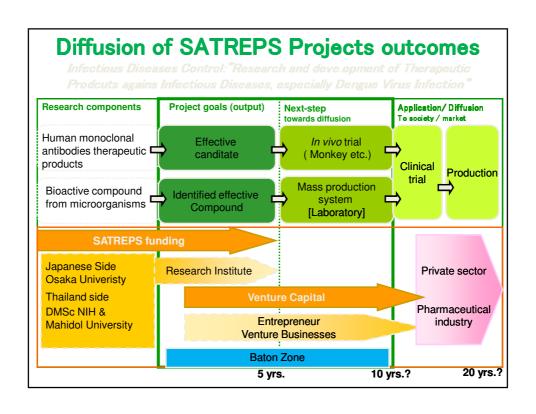
Outburst Flood (GLOF) is a major hazard concern faced by mountain communities in the . The purpose of this research is to evaluate GLOFs' hazard level in for mitigation. Its primary focus is on , for which the GLOF hazard level is believed to be high but yet information for mitigation is lacking. On the basis of satellite data analysis and field survey, we will complete a flood hazard map for the region and provide information necessary for the construction of an early warning system. Throughout the project it is strongly emphasized that technology on GLOF hazard mitigation is transferred to local organizations.



What you can get

- Disseminate your academic research and interest to the world
- Find opportunities to extend your research project (Post-SATREPS project phase)
- Expand your research work in collaboration with other similar research projects
- Empower young researchers to interact with new researchers/stakeholders and formulate new ideas.
- · Disseminate your academic success to the world
- Brainstorm the ideas of new projects
- Make more people understand the importance of your dedication to the society through your research







"Rese	earch on natural	disaster pr	Disaster Prevent evention measu oping countries"	res att	uned to the n	eeds of
Project Title	Multi-disciplina Earthquakes and	•			Research Period	4 Years
Principal Investigator (Affiliation)	Prof. SATAKE Kenji / Earthquake Research Institute, The University of Tokyo					
Collaborators	Tohoku University, Nagoya University, Kyoto University, FujiTokoha University					
ODA Recipient Country	Republic of Indonesia		Counterpart Research Institutions		donesian Instit IPI)	tute of Science
Five research ti conducted to for volcanic eruption method for volca based on engine communities, an of community. I	ion of the Research heme are proposed ecast earthquakes, in s will be made by unic eruption, (3) Elering technologies, d (5) Practical stud Finally, a trial will ficers, to autonomo	as follows: (tsunamis and strengthened ngineering st, (4) Social lies on educabe made to	I strong motion, (2) activity monitoricudies will be conducted will be mation and outreach o establish a research.	2) Shorting, and lucted to ade to archers'	-term and long- we try to prope o strengthen soc overcome vuln- mmunity and al- community, pe	term forecasts of ose the evaluation cial infrastructurerability of local so for restoration ossibly includin

