



School Safety Lessons Learnt workshop 15-16 September in Bangkok

Session 5: Good practice of risk assessment on Pillar 1

Ministry of Education and Sports, Lao PDR

Hazards and disaster in Lao PDR

Natural disaster:

- Flood (river flood and flash flood)
- Drought
- Storm
- Landslide
- Epidemic (human, animal disease), including birth flu
- Pest
- Earthquake
- Cold

Man-made disaster:

- UXO
- Fire (forest, houses)
- Accident (land, air, water)







Loss and damage on education from disaster

Types of natural disaster	Number of Provinces	Number of schools	Estimated damage cost
Floods, windstorm and landslide (2013)	4 provinces (North) 3 provinces (Central) 5 provinces (South)	229	4,299,953,000 kip (approximately USD 537,491)
Floods, windstorm and landslide (2014)	4 provinces (North) 2 provinces (Central) 3 Provinces (South)	70 1 TTC 1 PESS 1 DESS	2,816,598,647 kip (approximately USD 352,074)
Windstorms, floods, fire, drowning (2015)	1 province (North) 3 provinces (Central) 3 provinces (South)	21 5 staff injured/4 female 4 students injured/2 female 10 students died/8 female	2,004,197,000 kip (approximately USD 250,524)

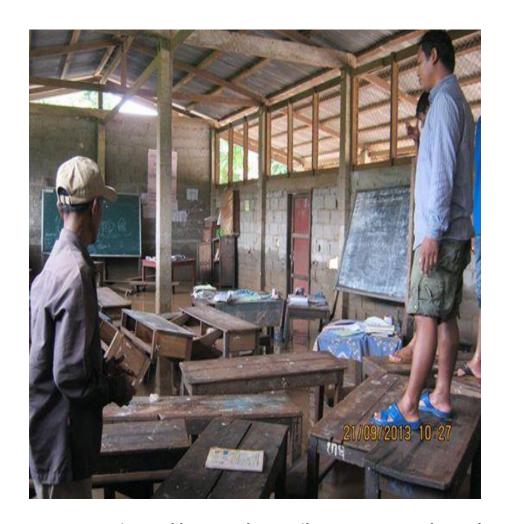
Source: MoES DM focal point reports 2013, 2014 & 2015

Loss and damage on education from disaster

Types of natural disaster	Number of Provinces	Number of schools	Estimated damage cost
windstorm and fire (January to May 2016)	6 provinces (North) 1 provinces (Central) 1 provinces (South)	612 Technology Center2 Student Dormitories2 Teacher Dormitories	1,653,981,000 kip (approximately USD 130,607)

Source: MoES DM focal point reports 2016

Schools were affected by floods in 2013





Pictured by Somphone Vilaysome, Secondary Education Department (2013)

Mixay secondary school was affected by windstorms in Phoukud district, Xiengkhouang province, 24 May 2014



Nongnok lower secondary school was affected by windstorms in Thateng District, Sekong Province, 4 May 2015





Schools were affected by floods in Xaysomboun Province, August 2015





Student Dormitory were affected by fire in Xayaboury Province, 2 January 2016



Schools were affected by windstorm in Phongsaly Province, 22 April 2016





Schools were affected by windstorm in Phongsaly Province, 24 April 2016



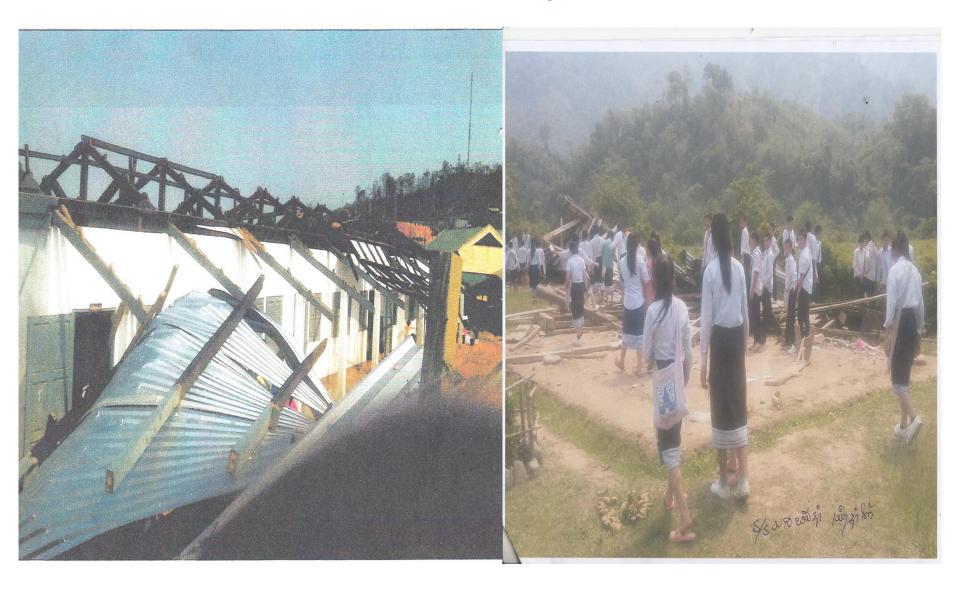


Technology Center were affected by windstorm in Phongsaly Province, 14 May 2016





Schools were affected by windstorm in Houaphan Province, 16 April 2016



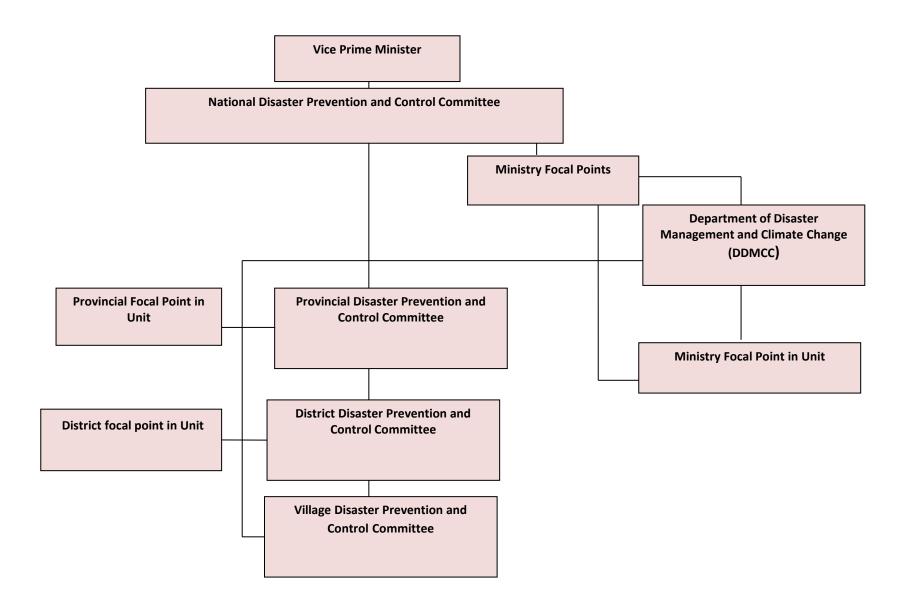
Policies for risk reduction

National	MoES
Law on Environmental Protection issued (2012)	School Construction Guidelines, ECDM, Department of Finance, MoES. (2009).
National Disaster Management Committee established (Prime Minister's decree No 158 dated 23 Aug 1999) chaired by Deputy Prime Minister.	Disaster Risk Management Committee formed (Ministerial decree No.2882/MOE.11 dated 24 Aug 2011) chaired by Deputy Minister
New Prime Minister Decree No 220/PM dated 28/8/2013 on National Disaster Prevention and Management Committee	New Ministerial Decree on Disaster and Climate Prevention and Control Committee and its TOR & members No 8128/MoES dated 30/12/2015
Drafting new TOR of Committee and members	Drafting TOR for each member
Drafting disaster risk management Law	Supporting Comprehensive School Safety

Organizational arrangements & coordination

National	MoES
National Disaster Management Office, Department of Disaster Management and Climate Change, Ministry of Natural Resource and Environment	Appointed two contact persons at MoES & Revising TOR of a focal point unit within MoES Appointed two contact persons in line departments within MOES
Provincial Disaster Prevention and Control Committee	Appointing two contact persons as a focal point in each PESS
District Disaster Prevention and Control Committee	Planning to establish a focal point in DESS
Village Disaster Prevention and Control Committee	Planning to establish a focal point in schools

Disaster Risk Management Structure in Lao PDR



Key activities at Central level

- Workbooks on Disaster and Risk Reduction
- Capacity Development for MOES DM Committee
- Capacity Development for MOES and PESS focal points
- Working with other ASEAN member states
- Study visit
- Disseminate DRR and CSS to Province and District
- Develop a specific school regulation concerning disasters prevention and protection
- Updated guideline for school design, school standard

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- Annual forum for alls donors



- PURPOSE
- CSS ASSESSMENT SUITE APPROACH
- ☐ CSS ASSESSMENT SUITE APPLICATIONS
 CSS First Step
 CSS School Safety Self-Assessment
 VISUS CSS



GOALS:

PREVENTION OF DEATH & INJURY **EDUCATIONAL CONTINUITY** Sector Policies

- Safe site selection
- Building codes
- Performance standards
- Disaster resilient design

Pillar 1.

Safe Learning Facilities
- Builder training
- Construction supervision LOSS PREVENTION (SAFEGUARD INVESTMENTS) **DEVELOP A CULTURE OF SAFETY** Awareness & Education MULTI-HAZARD, CHILD-CENTERED ASSESSMENT & PLANNING · Quality control Remodelling Structural safety Retrofit Aligned

Assessment & Planning

Physical & Environmental Protection

Response Skills & Provisions

Pillar 2. School

Disaster Management

Representative plan

Representative plan

School

Disaster Management

Representative plan

School

Grills

Construction as educational opportunity

Formal curriculum integrations & infusion

Teacher training & staff development

Resilience Education

Consensus-based key messages

Extracurricular & community-based informal education

Consinue to a staff development

Pillar 3.

Risk Reduction and Resilience Education

Consensus-based key messages

Extracurricular & community-based informal education Construction as

Designed for:

- Salience (relevant to comprehensive school safety)
- Scalability (designed for universal application)
- Sustainability (with local capacity)
- Effectiveness (outputs usable for action-planning)
- Efficiency (and affordability)
- Empowerment (rather than extractive)

- PURPOSE
- **CSS ASSESSMENT SUITE APPROACH**
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 VISUS CSS
 - ☐ CSSA STEERING COMMITEE

TRIAGED ASSESSMENT APPROACH

CSS ASSESSMENT SUITE

INPUTS Steps of data-approach **Assessment** Deep technical investigation **Detailed** investigation Quantitative analyses and design **Visual** Visual inspection /detailed data nspection Application of criteria by trained Quantitative analyses 3 surveyors TRIAGE FOR SCHOOL SAFETY • Photographic reoprtage • EMIS & geo-informatics SELF-ASSESSMENT SCHOOL-BASED • Pillars 1, 2, 3 quick survey **School-based** • Photographic reportage self-assessment • EMIS & geo-informatics **PLANNING FIRST STEP** • Hazard/Risks maps • Desk review of **Available and** available data crowd-sourced data • Crowd-sourced & other views

STARTING POINT

OUTPUT decision making information

In-depth assessment for design and delivery of retrofit or replacement

Characterization & recommendations Prioritization for in-depth assessment Allocation of funding for improvements Multi-criteria intervention strategies Cost-estimation and retrofit threshold exceedance

CSS

ASSESSMENT

SUITE

Local intervention suggestions Program development and capacitybuilding guidance Flagging for VISUS technical assessment

Local perceptions and interest Advocacy support Gross hazards exposure Prioritization by location, occupancy, construction type, year

♥ INPUTS & OUTPUTS

TOOLS:	INPUTS FROM:	OUTPUTS:	OUTPUTS FOR:
CSS FIRST STEP Step 1: Student/Community Awareness	studentscommunitymembers	e-mail to responderonline visualization	schoolscommunitylocal educationadministrators
CSS SCHOOL-BASED SELF-ASSESMENT Step 2: Internal Assessment (P.1, 2, 3)	school safety committeesvisiting education administrators	 School Report District Report online visualization searchable database 	school managementnational & district education admin
VISUS CSS Step 3: External Trained Surveyor Rapid Visual Inspection (P.1)	external technical survey teams	 School Report District Report online visualization searchable database 	school managementnational & district education admin

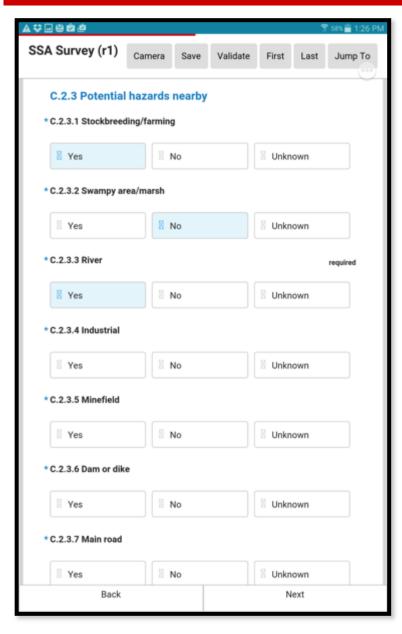
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Landing Page







AQBBB SSA Survey (r1) Save Validate Last Jump To B.4.P School Photos B.4.P.1 Photo 1: Full school site from a high view point P1-3 BB01, picture of the school complex 3-14_55_36.jpg B.4.P.2 Photo 2: Full school site from a high view point B.4.P.3 School entry B.4.P.4 Wide view from corner 1 of the school grounds B.4.P.5 Wide view from corner 2 of the school grounds Back Next

Single select questions

Photo question



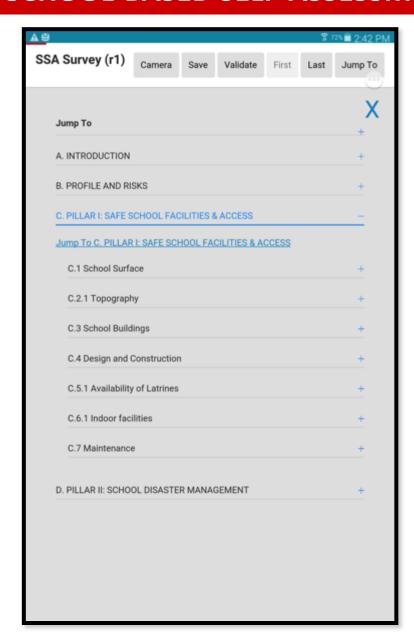


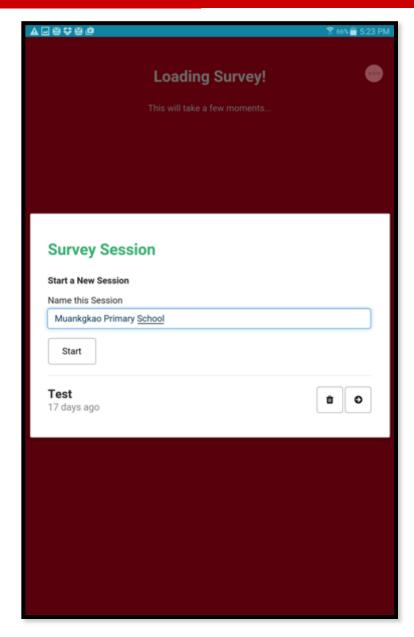
Text entry with soft keyboard

2. 本文品基础				_		From the man
SSA Survey (r1)	Camera	Save	Validate	First	Last	Jump To
, ,	Camera	Save	validate	FIRST	Last	Jump 10
B.1 School Cor	ntact Pers	son				
*B.1.1 Last name						required
Chistelle						
* B.1.2 First name						
This field is required.						
* B.1.3 Landline Pho	one					
This field is required.						
B.1.4 Mobile Phon	e					
408832807						
Please make sure that in between (e.g. 020)		d mobile p	hone number	with 10 dig	gits and n	o spaces
B.1.5 Email addres	ss					
Ι						
Back				N	ext	

Highlighted missed required answers



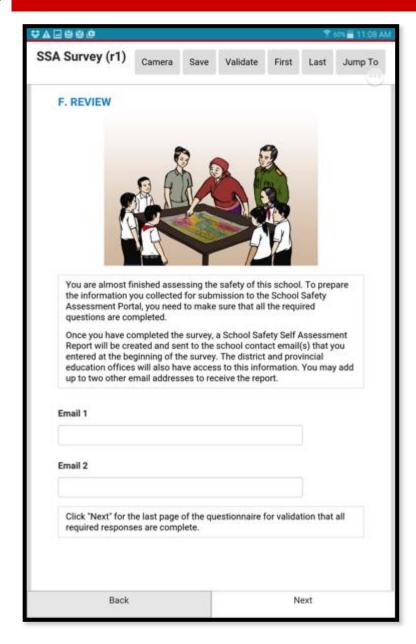




Navigation page

Session naming for offline operation





Pending Data Submissions

Name Size Created At

Muankgkao Primary School 21 KB 09/08/2016 12:13

Uploading saved survey sessions

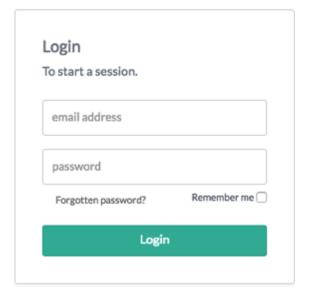




School Safety Self Assessment Portal

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Register	
o see safety	reports and maps
email addres	is
A temporary pass	sword will be sent via email
	Register









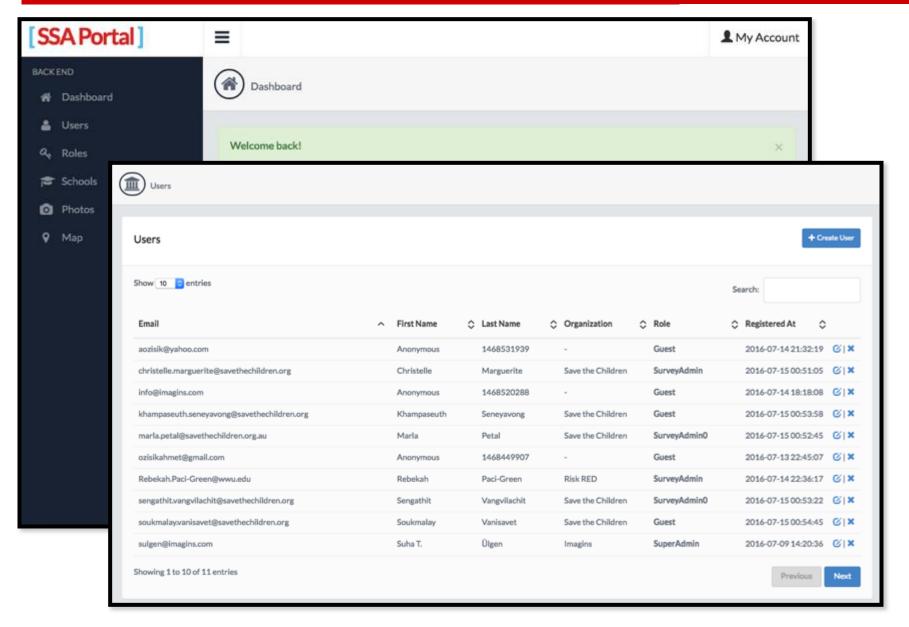








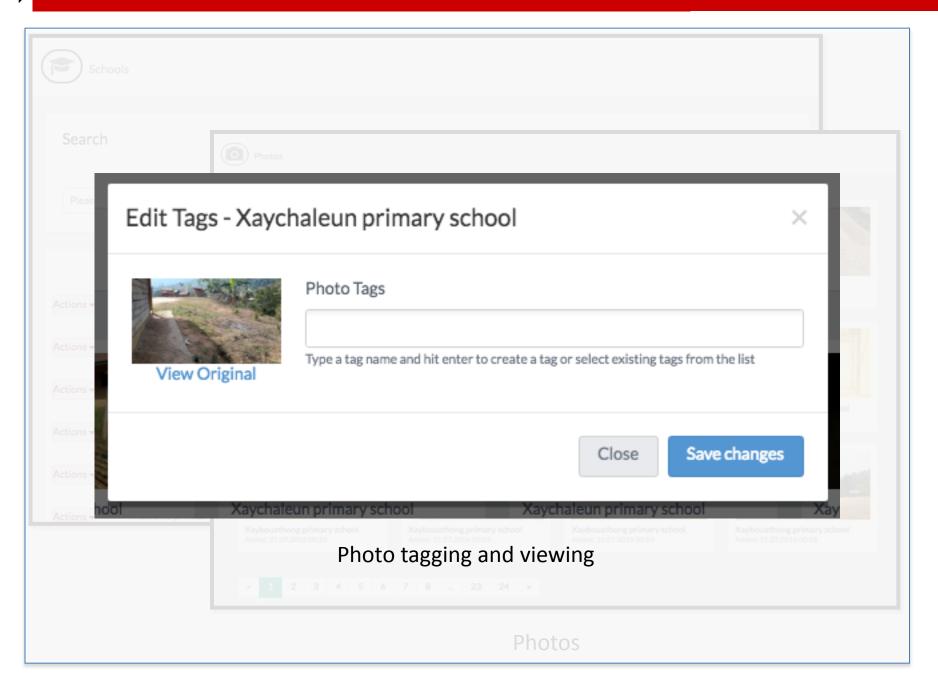
2. CSS SSA PORTAL



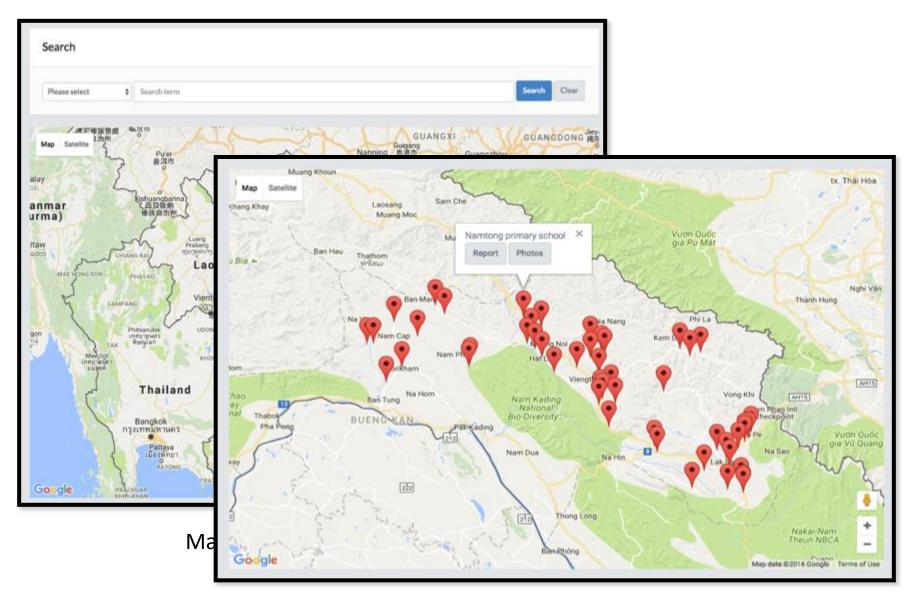
List of users and their roles



2. CSS SSA PORTAL



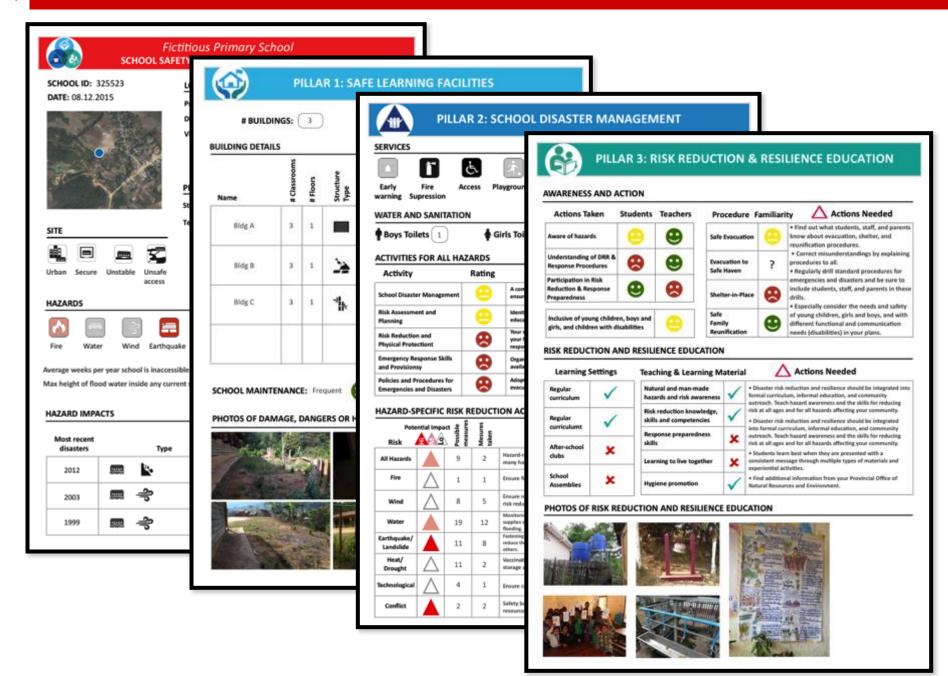




Access to school safety report and photos



2. CSS SSA SCHOOL REPORT

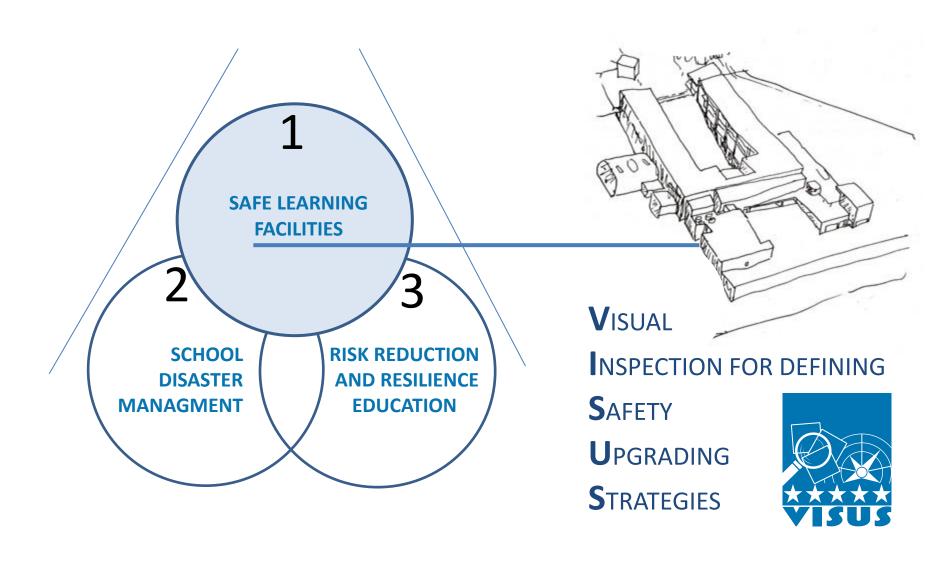






Tasks		Save the Children	Education Authority
Project Management			
Legal (MoU & ToR)	✓	✓	✓
Technical requirements (hosting, networking, data, etc.)	✓		✓
Administration (project team, roles and responsibilities)	\checkmark	✓	✓
Localization (3 months)			
Translation		✓	(✓)
Quality control and adaptation	✓	✓	✓
Provision of available data			✓
Production of country version	✓		
Implementation and testing (3 months)			
Installation and configuration	✓		✓
Training webinar	✓	✓	✓
On-site training		✓	✓
Operations and support (6 months)			
Outreach and dissemination		✓	✓
Data analysis and decision support		✓	✓
Support and maintenance	✓		
Monitoring and evaluation	✓	✓	✓







ASSESSMENT OF EXISTING FACILITIES

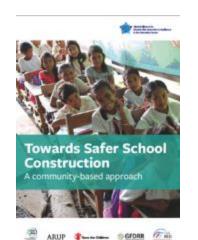
3. VISUS CSS APP

NEW CONSTRUCTION "EVERY NEW SCHOOL A SAFE SCHOOL"



- Building Codes
- School Design & Site Selection Guidelines
- Best Practices in Community-Based Construction

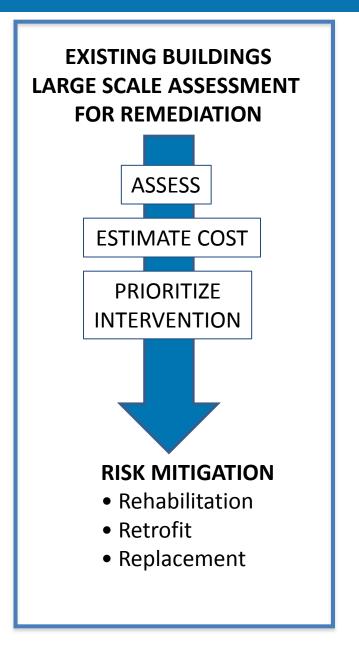






RISK PREVENTION

- Guidance
- Community Engagement
- Oversight & Approvals





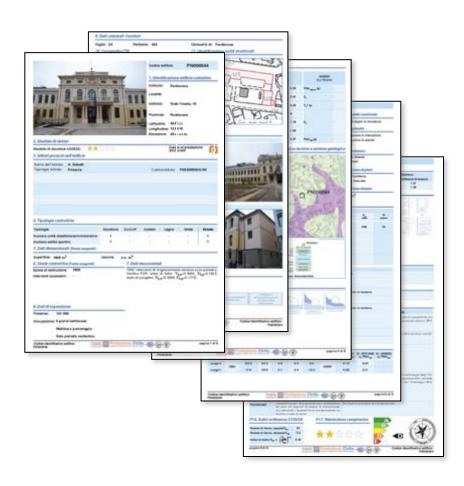
ASSESSMENT DOMAINS

SITE	STRUCTURAL RESPONSE	NON-STRUCTURAL ELEMENTS	FUNCTIONAITY
Water Wind, Earth Fire Impacts Site suitability and mitigation	Foundation Frame Columns / Beams Walls Roof Connections GLOBAL LOCAL	Doors / Windows Stairs / Ceilings HVAC Equipment Furnishing Haz materials falling, overturning, Sliding, floating flammable destruction	Safe access (ingress/egress) Water & Sanitation



SCHOOL & DISTRICT REPORTS

3. VISUS CSS APP



SCHOOL COMPLEX

EVALUATION SUMMARY



BUILDINGS

WARNINGS

WEAKNESSES INTERVENTION NEEDS







ASSI Project: Creating Awareness on DRR for Children in Bolikhamxay

50 Schools
10
17
19
4

SELF-ASSESSMENT 50 SCHOOLS

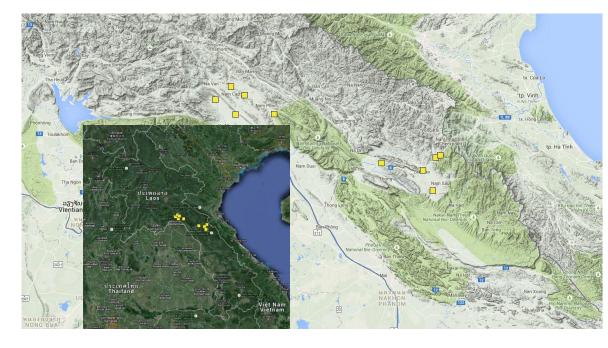


FIRST AND SECOND STEPS

VISUS ASSESSMENT 8 SCHOOLS



THIRD STEP





PREPARATION

SURVEY

DATA ENTRY







COURTYARD SURVEY



BUILDING **EXTERNAL**



BUILDING INTERNAL



BUILDING INTERNAL





"SCHOOL **COMPLEX** DESCRIPTION" **FORM**









"COURTYARD INSPECTION" **FORM**



"BUILDING **EXTERNAL** INSPECTION" **FORM**



INSPECTION - A" FORM



"BUILDING INTERNAL "BUILDING INTERNAL **INSPECTION - B" FORM**



Any questions and comments?

Khobchai lai lai
Thank you very much for
your kind attention

