



ONE ASEAN
ONE RESPONSE

SITUATION UPDATE TROPICAL STORM PODUL AND TROPICAL DEPRESSION KAJIKI Lao PDR

No. **6**

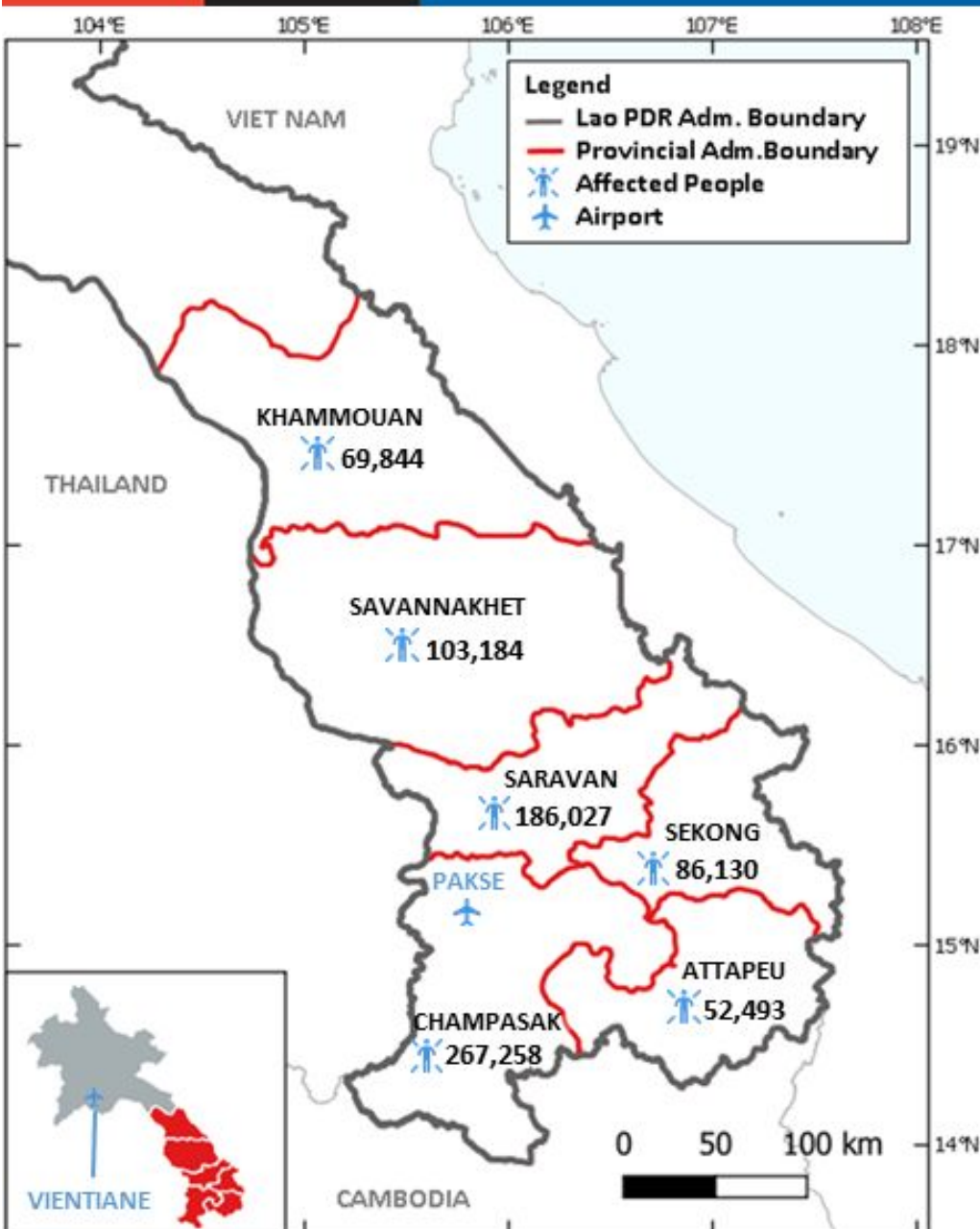
Monday, 14 October 2019, 18:30 hrs (UTC+7)

This Situation Update is provided by the AHA Centre for use by the ASEAN Member States and relevant stakeholders. The information presented is collected from various sources, including but not limited to, ASEAN Member States' government agencies, UN, IFRC, NGOs, and news agencies.

TROPICAL STORM PODUL AND TROPICAL DEPRESSION KAJIKI, LAO PDR



Figures are the latest updates, correct as of 10 October 2019



EFFECTS



765K*
AFFECTED PERSONS



282*
DAMAGED HOUSES



19*
DEAD



97*
AFFECTED BRIDGES



123K HA*
AFFECTED FARMLAND



747*
AFFECTED SCHOOLS

* Figures are based on data reported/confirmed by the National Disaster Management Organisation of Lao PDR and other verified sources

PRIORITY NEEDS



18K
TONS OF RICE



1,696
KITCHEN SETS



6,784
HYGIENE KITS



1,829
FAMILY KITS



1,696
FISH CAN/NOODLE SETS



1,608
BLANKET UNITS



SITUATION UPDATE

1. HIGHLIGHTS

- a. On 29 August (Thursday) and 02 September (Monday) 2019, the Lao PDR Department of Meteorology and Hydrology (DMH), Ministry of Natural Resources and Environment, Lao PDR reported potential affected areas in the central and southern part of Lao PDR due to the existence of a Low Pressure Area (LPA), Tropical Storm PODUL, and Tropical Depression KAJIKI. Subsequently, flooding was reported in six (6) provinces: **Champasak, Saravan, Savannakhet, Sekong, Khammouan, and Attapeu** (in descending order of most affected province).
- b. **The Ministry of Labor and Social Welfare (MLSW) of Lao PDR organised and led a National Multi-Sectoral Joint Disaster Needs Assessment in the 6 affected provinces**, to support information-based efforts to recover faster after the massive flooding. **The assessment was conducted from 21 September to 05 October 2019**, consisting of a total of 21 persons from several sectoral bodies of Lao PDR ministries - MLSW, Ministry of Agriculture and Forestry, Ministry of Health, Ministry of Education and Sports, Ministry of Planning and Investment, and also representatives from the Lao Red Cross Society, UN Humanitarian Country Team, Non-Government Organisations, and the AHA Centre.
- c. Based on the assessment results, **as many as 97 bridges, 747 schools, 43 health centres and hospitals, 462 road places, 275,114 livestock and poultry** were affected by the floods. Total damage is estimated to **cost US\$164 million (1.45 trillion Laotian Kip)**.
- d. **The AHA Centre supported the Government of Lao PDR by deploying its In-Country Liaison Team (ICLT) and sending Disaster Emergency Logistics System for ASEAN (DELSA) relief items to Vientiane on 12 September (Thursday) 2019**, which was attended by the AHA Centre Executive Director, Acting Director-General of Social Welfare Department of Lao PDR, and Ambassadors of ASEAN Member States based in Vientiane ([Press Release](#)).
- e. The AHA Centre also provided support in the planning and implementation process of the **National Multi-Sectoral Joint Disaster Needs Assessment led by the Government of Lao PDR**. In addition, continuous remote support, such as data analysis and mapping, was also provided by the AHA Centre's Emergency Operations Centre in Jakarta, Indonesia.



2. SUMMARY OF EVENTS

- a. Tropical Storm PODUL first made landfall in the Philippines on 26 August (Monday) 2019, before exiting and continuing west. On 29 August (Thursday) 2019, Tropical Storm PODUL made landfall in central Viet Nam and continued moving west over Lao PDR and towards Myanmar. This was quickly followed by Tropical Depression KAJIKI, which formed in the South China Sea close to the Vietnam coast on 02 September (Monday) 2019, made landfall in Vietnam and passed Lao PDR, before moving back out over Vietnam coast on 06 September (Friday) 2019.
- b. The Department of Meteorology and Hydrology (DMH), Ministry of Natural Resources and Environment, Lao PDR reported potential affected areas in the central and southern part of Lao PDR due to the existence of a Low Pressure Area (LPA), and tropical cyclones PODUL and KAJIKI. Subsequently, thunderstorm advisories and heavy rainfall warnings were issued for six (6) provinces: Champasak, Saravan, Sekong, Savannakhet, Attapeu, and Khammouan. This was followed by reports of flooding in all 6 provinces.



3. ASSESSMENT OF DAMAGE, IMPACT, AND HUMANITARIAN NEEDS*

- After the National Multi-Sectoral Joint Needs Assessment was conducted, Lao PDR has updated and validated impact figures.
- Affected figures and needs (total for the 6 provinces). The breakdown in impact data by province (in descending order of most affected persons) is given in Table 1 below.

Provinces	Affected Families	Affected Persons	Dead	Fully Damaged Houses	Partially Damaged Houses
Champasak	48,614	267,258	8	135	193
Saravan	40,174	186,027	3	118	50
Sekong	16,018	86,130	-	-	95
Savannakhet	17,159	103,184	4	16	117
Attapeu	15,164	52,493	4	12	22
Khammouan	16,670	69,844	-	1	-
Total	153,799	764,936	19	282	477

Table 1: Figures for impacts in the 6 affected provinces of Lao PDR. Data obtained from NDMO Lao PDR as of 10 October (Thursday) 2019.

- Breakdown of affected figures and needs per province (see Table 2 below).

Provinces	Affected persons	NEEDS					
		Rice (tons)	Kitchen Set (Set)	Personal Hygiene Kit (Unit)	Family kit (set)	Fish Can/ Noodle (set)	Blanket (Unit)
Khammouan	16,670	2,514	1,325	5,300	1,325	1,325	0
Savannakhet	17,159	5	0	0	133	0	532
Saravan	40,174	5,012	104	416	104	104	416
Attapeu	15,164	1,890	36	144	36	36	144
Sekong	16,018	3,101	95	380	95	95	380
Champasak	48,614	5,420	136	544	136	136	136
Total	153,799	17,942	1,696	6,784	1,829	1,696	1,608

Table 2: Figures for needs in the 6 affected provinces of Lao PDR. Data obtained from NDMO Lao PDR as of 10 October (Thursday) 2019.

*Access to an online interactive visualisation of the summary of effects is on this [link](#).



- d. As many as 97 bridges, 747 schools, 43 health centres and hospitals, 462 road places, 123,166 hectares of farm paddy fields, 275,144 livestock and poultry, and 18 piped water places were affected by the floods. Total damage is estimated to cost US\$164 million (1.45 trillion Laotian Kip).
- e. As a result of the assessment, **the province of Saravan constitutes 26% of the budgetary needs** for all 6 affected provinces across identified sectors which valued over US\$15 thousand. This was followed closely by provinces of Sekong (21%) and Champasak (17%) (see Table 3).
- f. **On the other hand, as much as 38% of the budgetary needs will address the sector of Public Works and Transport.** In this sector, 34% of the budget will be allotted to the province of Sekong, while 31% to the province of Saravan. In addition, **Relief Work for three months will entail 28% of the total budgetary needs** for the 6 provinces.

Province	BUDGETARY NEEDS BY SECTOR (in '000 USD*)							Total by province
	Relief Work	Agriculture & Forestry	Health Work	Public Works & Transport	Education & Sports	Energy & Mining	Other	
Khammouan	3,016	1,996	219	2,390	7	9	0	7,637
Savannakhet	3,199	3,430	222	2,733	145	35	0	9,764
Saravan	3,288	3,212	1,580	6,993	139	0	21	15,233
Attapeu	1,248	1,327	275	811	72	0	0	3,733
Sekong	2,067	1,179	816	7,469	301	248	0	12,080
Champasak	3,585	2,179	914	1,839	1,579	0	0	10,096
Total by Sector	16,403	13,323	4,026	22,235	2,243	292	21	58,543

Table 3: Budgetary needs by sector and province (*1 USD = 8,817.17 Lao Kip). Data obtained from NDMO Lao PDR as of 10 October (Thursday) 2019.

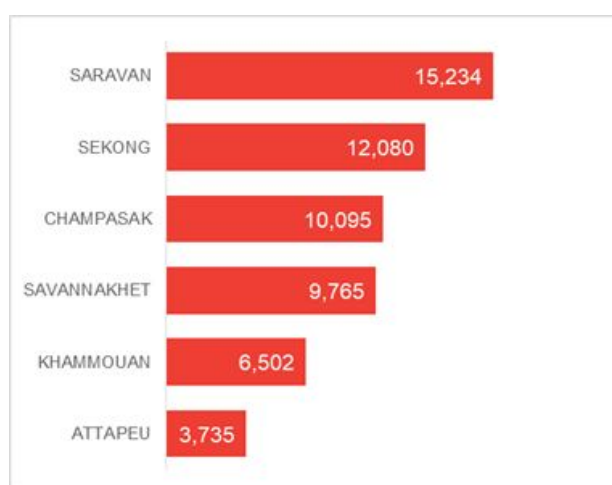


Figure 1. Budgetary requirement by province (in '000 USD)

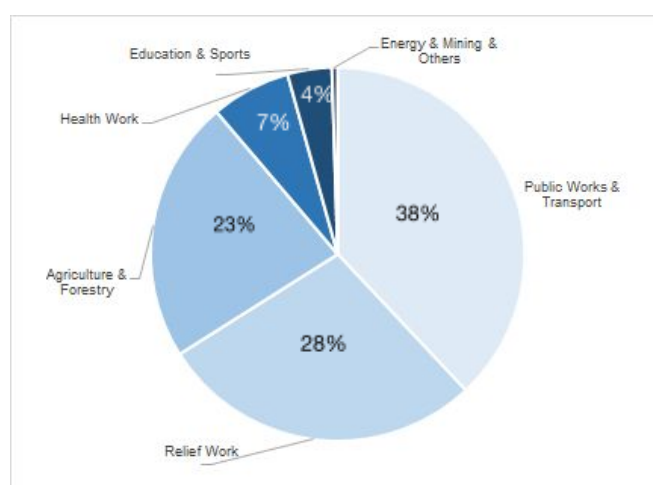


Figure 2. Distribution of budget needs by sector (in '000 USD)

4. ACTIONS TAKEN AND RESOURCES MOBILISED

Response by Government of Lao PDR

- a. According to the update released by Lao PDR's National Disaster Management Organisation (NDMO Lao PDR) on 05 September (Thursday) 2019 at 09:00 (UTC +7), the Provincial Disaster Prevention and Control Committee called for an emergency meeting and planning for response, especially to deploy rescue boats for evacuation in collaboration with the army and police. Emergency relief items had been distributed to the affected population.
- b. On 07 September (Saturday) 2019, the Prime Minister (PM), Mr. Thongloun Sisoulith, called for an emergency meeting and gave orders to the relevant agencies to quickly assist the affected areas. Working with the Local Disaster Management and Control Committees in the provincial and district levels, the Government has already deployed emergency response teams from the military, police, and health sectors, equipped with trucks, boats, vehicles, helicopters, other aircraft, tools, and other equipment to evacuate affected people and distribute several relief items such as **rescue boats, family tents, and packs of drinking water**.
- c. NDMO Lao PDR, through the National Focal Point (NFP), made a request for assistance to the AHA Centre on 08 September (Sunday) 2019, calling for logistical relief items support. The agency has distributed the AHA Centre relief items support, from Vientiane to the six affected provinces.



Figure 3: Distribution of mosquito nets by Chair of National Assembly and Provincial Governor of Savannakhet province.

- d. The Ministry of Labor and Social Welfare was tasked by the National Government to coordinate closely with the other sectoral ministries and provincial agencies to conduct a needs assessment.
- e. Other sectors also provided assistance to flood-affected provinces:
 - 1) The Ministry of Defense deployed personnel, as well as, transport vehicles, rescue boats and airplanes;
 - 2) The Department of Homeland Security also deployed assets to maintain security of property of communities, and transport vehicles to provide water to the people;
 - 3) The Ministry of Health sent medical teams and medicines;
 - 4) The Ministry of Public Works and Transport deployed assets to repair roads and bridges;
 - 5) The Ministry of Natural Resources and Environment monitored the weather and water levels of the Mekong River and its tributaries, and periodically provided alerts; and
 - 6) The Ministry of Information, Culture and Tourism deployed a team to ensure compliance of responding sectors to the agreed roles and responsibilities.
- f. **The Ministry of Labor and Social Welfare (MLSW) of Lao PDR organised and led a National Multi-Sectoral Joint Disaster Needs Assessment in the 6 affected provinces**, to support information-based efforts to recover faster after the massive flooding. **The assessment was conducted from 21 September to 05 October 2019**, consisting of a total of 21 persons from several sectoral bodies of Lao PDR ministries - MLSW, Ministry of Agriculture and Forestry, Ministry of Health, Ministry of Education and Sports, Ministry of Planning and Investment, and also representatives from the Lao Red Cross Society, UN Humanitarian Country Team, Non-Government Organisations, and the AHA Centre.
- g. With technical support from the AHA Centre, NDMO Lao PDR compiled the results and conducted gap analysis in the 6 affected provinces for the delivery of immediate needs and faster early recovery efforts.



Response by ASEAN Member States

- a. The National Disaster Management Agency (NADMA) Malaysia, together with the Royal Malaysian Air Force (RMAF), provided logistical support in transporting relief items from the DELSA regional stockpile in Subang, Malaysia to Vientiane, Lao PDR.



Figure 4: DELSA relief items loaded onto Royal Malaysian Air Force (RMAF) aircraft for transport to Vientiane, Lao PDR. Source: UNHRD

Response by the AHA Centre

- a. The AHA Centre has expressed condolences to Lao PDR and offered support from regional resources, including mobilising ASEAN Emergency Response and Assessment Team (ASEAN-ERAT), providing relief items from the Disaster Emergency Logistics System for ASEAN (DELSA) regional stockpile, and facilitating the deployment of capacities available in the region, such as from the ASEAN Standby Arrangements.
- b. The AHA Centre mobilised its ICLT, which met with the NFP of NDMO Lao PDR in Vientiane on 10 September (Tuesday) 2019 and participated in the coordination meeting at the Local Emergency Management Authority in Pakse on 11 September (Wednesday) 2019. ICLT facilitated the handover of the DELSA relief items in Vientiane on 12 September (Thursday) 2019 in support of the emergency response, while continuing to provide technical assistance to NDMO Lao PDR on designing coordination structures and needs assessment during emergency response.
- c. The following relief items have been delivered in a handover ceremony by the AHA Centre Executive Director, received by Mr. Vilayphong Sisomvang, Acting Director-General, Social Welfare Department, MLSW of Lao PDR, and witnessed by Ambassadors of ASEAN Member States based in Vientiane on 12 September (Thursday) 2019 in Vientiane, Lao PDR ([Press Release](#)):



- 330 Family Kits
- 2,596 Hygiene Kits
- 1,144 Kitchen Sets
- 1,400 Mosquito Nets
- 1,400 Jerry Cans (10 litres)

- d. As the Social Welfare Department, Ministry of Labour and Social Welfare of Lao PDR led the National Multi-Sectoral Joint Disaster Needs Assessment, covering the 6 affected provinces, the AHA Centre's Information Management specialist provided technical support in the planning and implementation of the nationally-led needs assessment, including the introduction and design of the assessment tool - KoBo, and training of assessment teams.



Figure 5: AHA Centre's ERAT Information Management Specialist, Lawrence Dimailig, attended Joint Disaster Needs Assessment Meeting, training, and implementation in the affected provinces.

- e. Together with partners such as mapping and GIS specialist from Map Action, as well as rapid needs assessment specialist member of ASEAN-ERAT affiliated with Arbeiter-Samariter-Bund (ASB) Indonesia and the Philippines, the AHA Centre also provided technical assistance in data processing and analysis through the Emergency Operations Centre based in Jakarta.
- f. Currently, the AHA Centre is still providing on-demand remote technical support.



Response by Other Humanitarian Partners

- a. The Pacific Disaster Center (PDC) produced a hazard brief on flood impact and exposure estimates on 08 September (Sunday) 2019, in collaboration with the AHA Centre.
- b. UNITAR-UNOSAT provided map data on the likely flood extent as of 06 September (Friday) 2019, and updated maps of 3 provinces based on imagery as of 10 September (Tuesday) 2019.
- c. MapAction provided a map for internal analysis and was also sending a map and GIS expert in AHA Centre EOC to provide geospatial data processing and analysis as a remote support to NDMO Lao PDR. In addition, Map Action had helped to provide map for assessment priority area which attached in Annex 1.
- d. The United Nations Humanitarian Response Depot (UNHRD) supported the logistical operations for the loading of relief items from the DELSA regional stockpile in Subang, Malaysia.

Response by Other Partners

- a. The AHA Centre, in lieu of NDMO Lao PDR, requested activation of Sentinel Asia's Emergency Observation Request (EOR) through the Asian Disaster Reduction Center (ADRC) on 06 September (Friday) 2019. We received first map data on likely flood extent from the ARIA-SG team at the Earth Observatory of Singapore based on satellite data as of 06 September (Friday) 2019.

5. RECOMMENDATIONS AND PLAN OF ACTIONS

The AHA Centre's plan

- a. The AHA Centre will closely coordinate and continue providing on-demand remote support to the NDMO Lao PDR.



6. IMAGERY

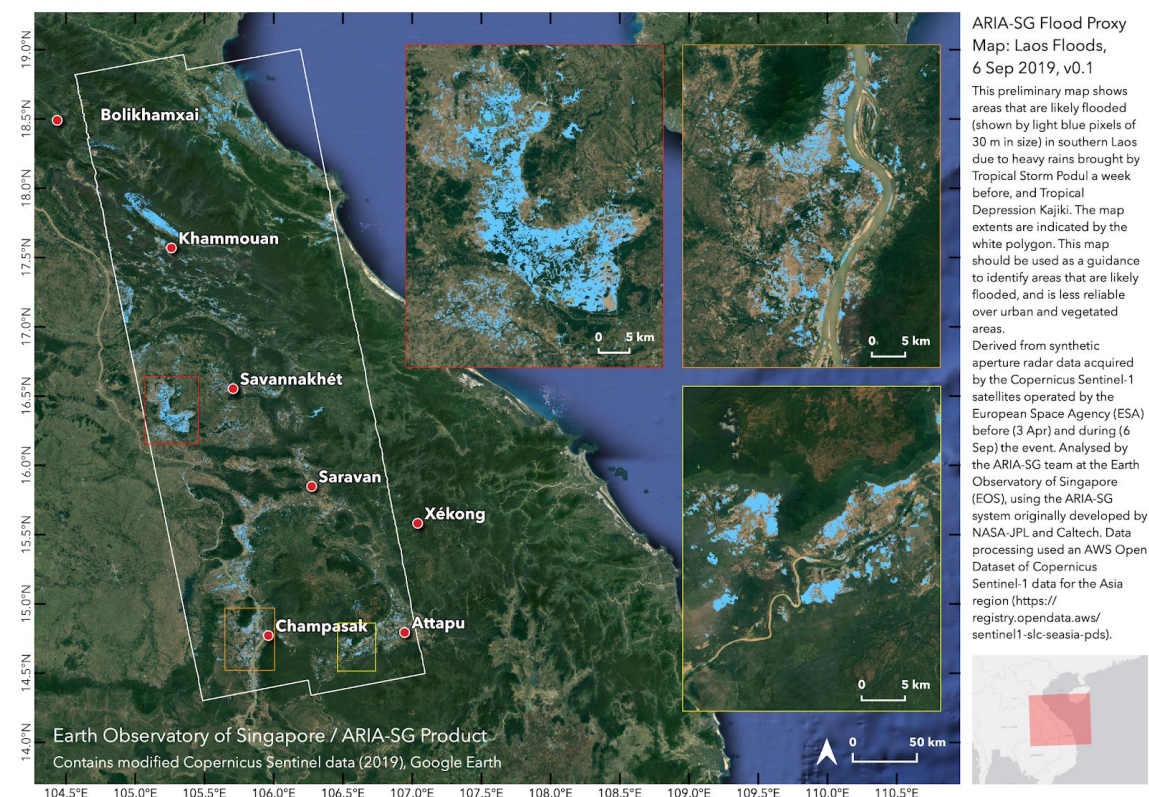


Figure 6: Map of affected areas in Lao PDR showing the likely flooded areas (light blue pixels), based on synthetic aperture radar satellite data before (03 April 2019) and during (06 September 2019) the flood event. Analysis was done by the ARIA-SG team at the Earth Observatory of Singapore (EOS) for Sentinel Asia.

Prepared by:

The AHA Centre - Emergency Operations Centre (EOC)

ABOUT THE AHA CENTRE

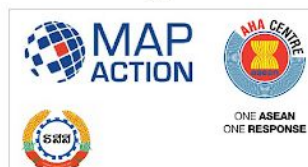
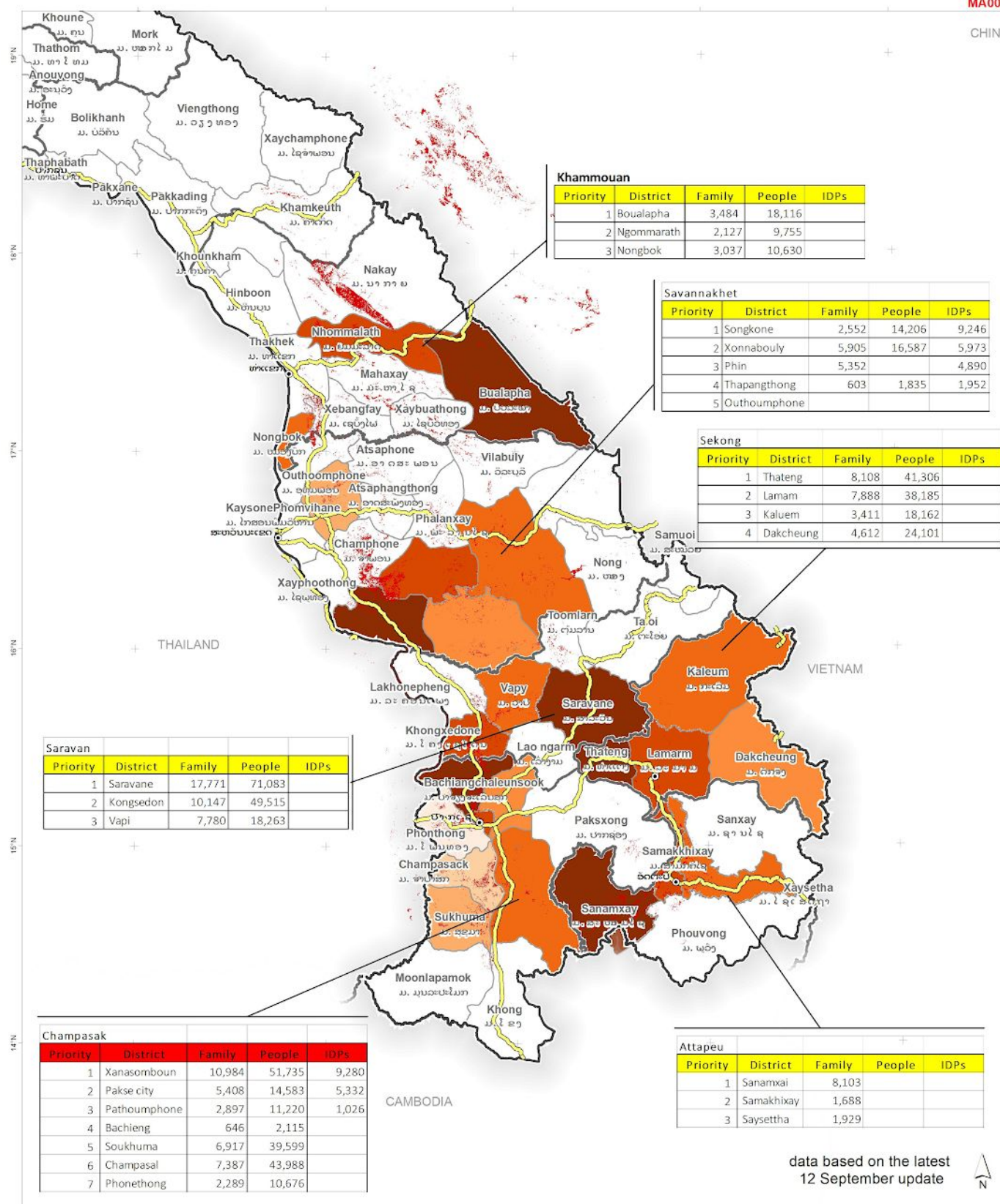
The AHA Centre - ASEAN Coordinating Centre for Humanitarian Assistance on disaster management - is an inter-governmental organisation established by 10 ASEAN Member States – Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Viet Nam - to facilitate the cooperation and coordination among ASEAN Member States and with the United Nations and international organisations for disaster management and emergency response in the region.

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Map of Priority Field Assessment Districts for Laos PDR



Settlements

○ CAPITAL

● City

Borders

— INTERNATIONAL

— ADMIN 1

— ADMIN 2

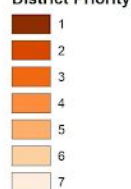
■ flood extent

— primary road

Data sources

OpenStreetMap, GADM, Social Welfare Department of Lao PDR, ADRC, Sentinel Asia, EOS ARIA-SG, AHA Centre

District Priority



0 20 40 60 80 100
kilometres
1: 3,250,000 (At A3)

Created 15 Sept 2019 / UTC+07:00

Map Document MA006_Laos_Priority_Districts

Projection & Datum WGS 1984 UTM Zone 48N /

Glide Number FL-2019-000103-LAO

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