Population Mobility Mapping (PMM) in COVID-19 Context Nong Khai, Thailand 2021-2022



Rationale

Under the Centers for Disease Control and Prevention (CDC), PMM is currently being implemented on Lao-Thai and Cambodia-Thai borders in Thailand. The selected locations are Nong Khai (Lao-Thai) and Sakeo and Chanthaburi (Cambodia-Thai). This dashboard shows the results in Nong Khai.

About Population Mobility Mapping (PMM) methodology

Population Mobility Mapping is a tool developed during the Ebola outbreak in East Africa. The mechanism generates information about cross-border movements amongst the mobile population and helps develop forecasting ability in target locations. The complete mechanism consists of three phases, i.e., phase one is the participatory mapping exercise (PME) with key informants; phase two is site observation consisting of visits to the point of entries (POES) and congregation points identified in phase one to generate more granular information on the presence of health screening mechanism, presence of WASH facilities, law authorities, etc., the third and final phase is to implement DTM flow monitoring activity in the point of entries identified during phase 1.

Phase one, participatory mapping exercise was conducted and completed in Nong Khai on 2-3rd December 2021. Phase two XXX COMPLETE XXX.

Navigation panel

Mobile population data

Points of Entry (POE) and migration flows

Congregation points and migrants' presence

Sites observation

Government authorities presence

NGOs and UN agencies presence

Health facilities

Public health measures

WASH

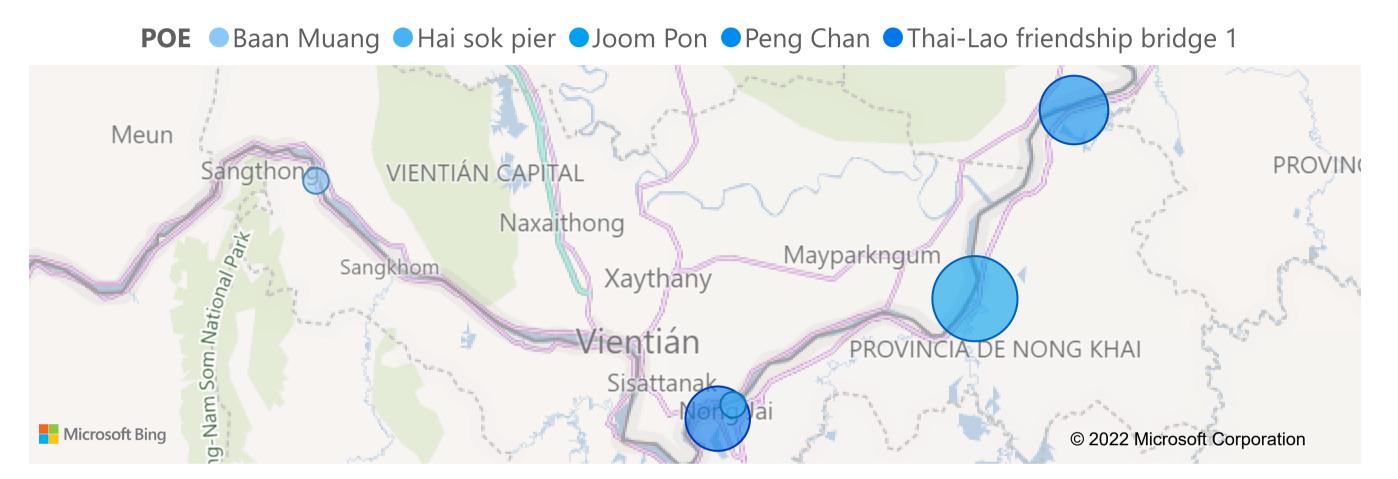


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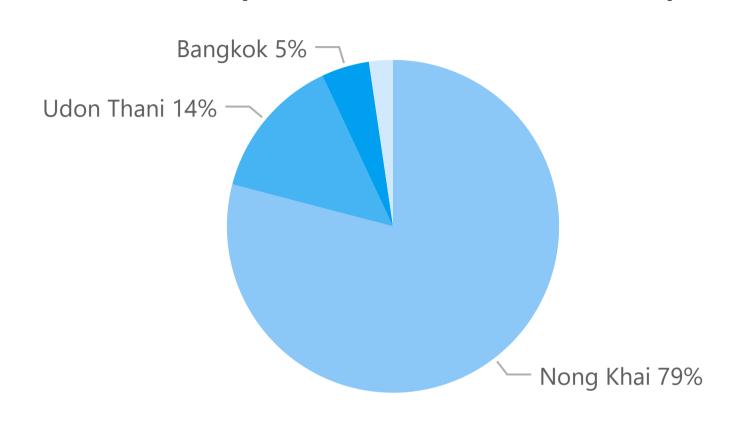


POE and migration flows

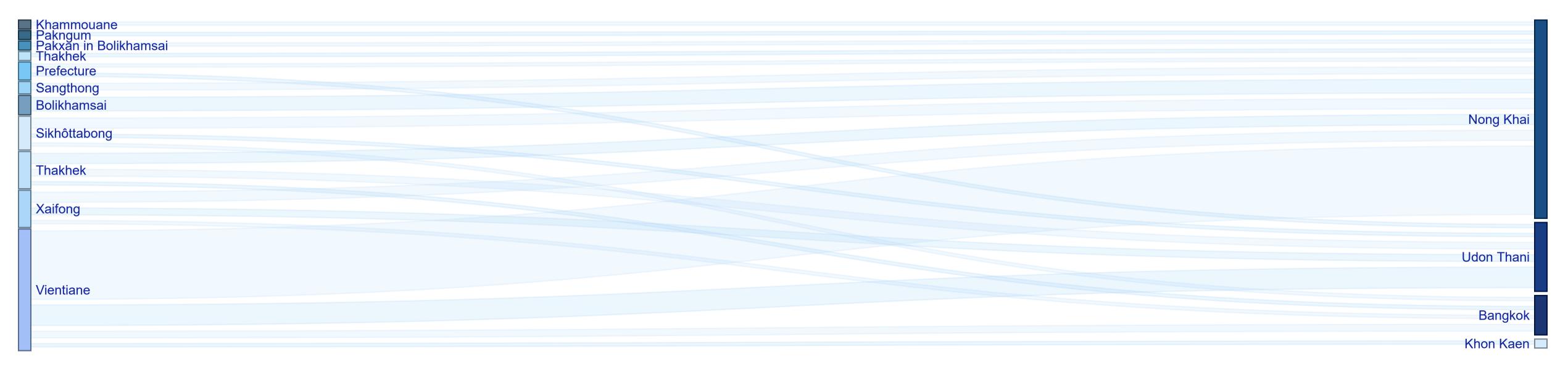
Average estimations numbers of migration flows before COVID-19 pandemic by POE



Main destination provinces before COVID-19 pandemic



Migration flow by departure location and province of destination

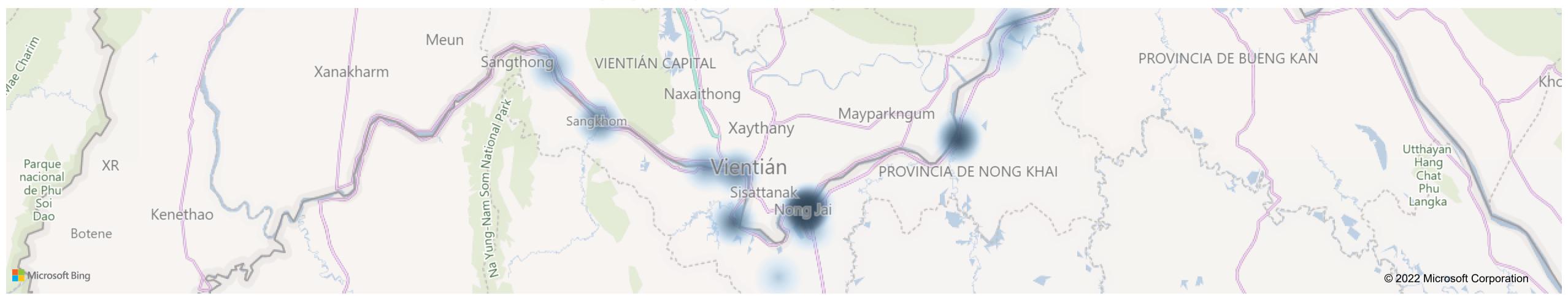


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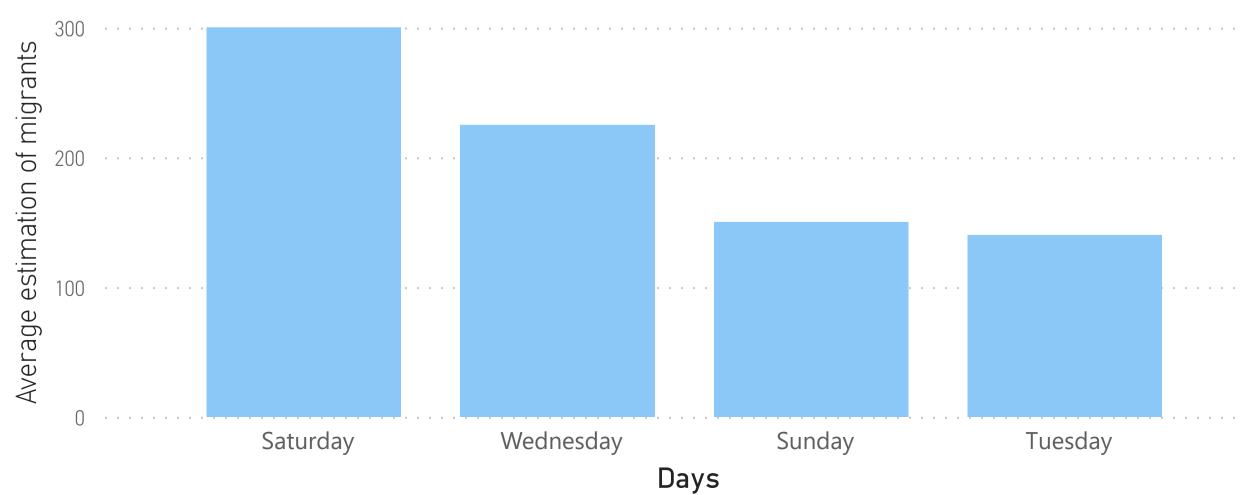


Congregation points and migrants' presence

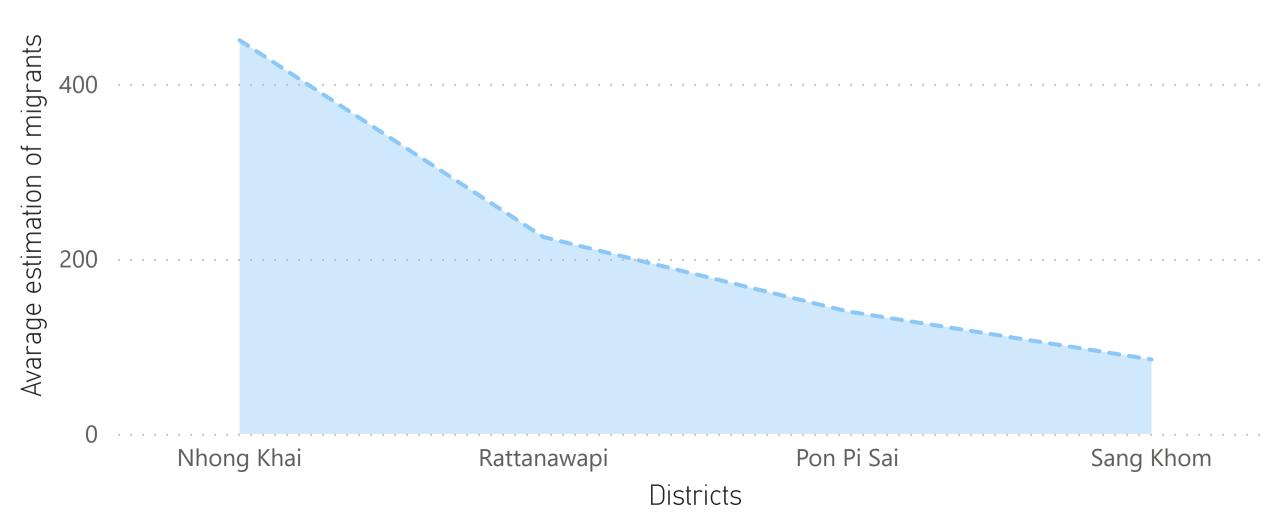
Congregation points heatmap before COVID-19







Average estimation of migrants' presence by districts



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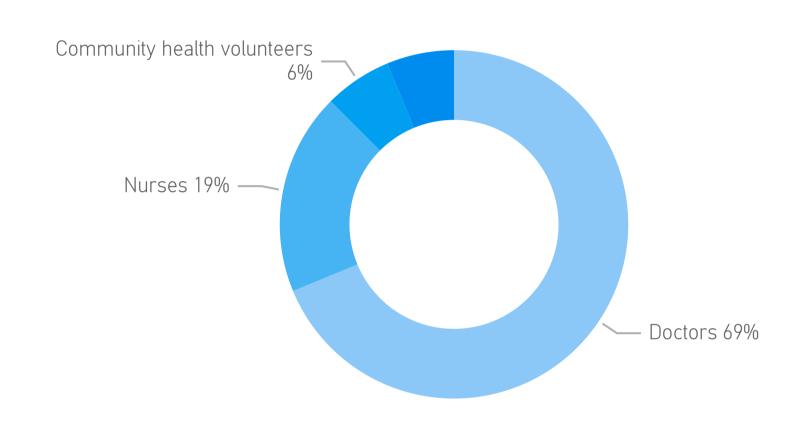
Site category

Todas



Presence of Government authorities

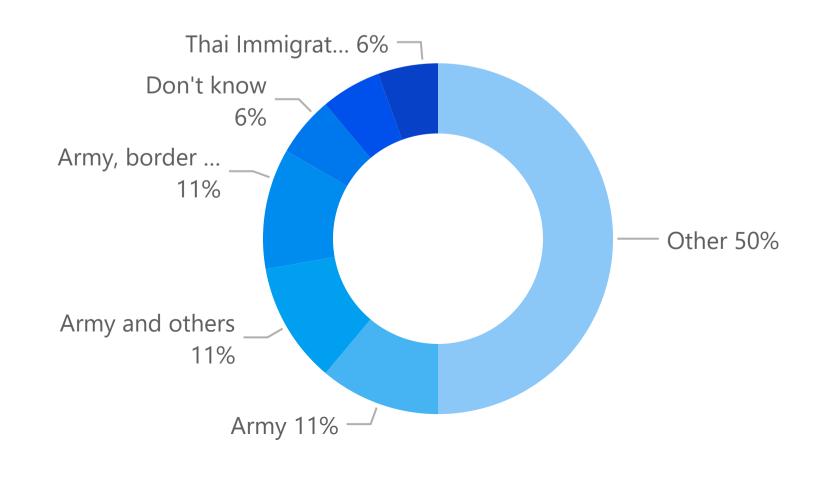
Health worker



Health workers numbers by type and sites

Site name	Community health voluntee	rs Doctors	NGO health vokunteers	Nurses
Wattana Hospital Nong Khai				More than 20
Thai-Lao friendship bridge		More than 20		
Thabo Crown Prince Hospital		More than 20		
Snag Kom hospital		More than 20		
Shop in Pon Pi Sai market				1 to 5
Ruampat Hospital		More than 20		
Pon Pi Sai hospital		More than 20		
Po Chai fresh market	1 to 5			

Law enforcement



Law officials numbers by type and sites

Law official type	Army	Army and others	Don't know	Other		^
Site name		Security guard		Government Health Voulunteer	Patrol officer	Security
Hai Sok pier						
Sri Chiang Mai hospital					1 to 5	
Bangkok Sukee resturant (seafood buffet)				1 to 5		
Joom Pon in Pon Pi sai district						6 to 10
Lotus Nong Khai						11 to 15
Nong Khai hospital						6 to 10
Po Chai fresh market						>

Sites

Population Mobility Mapping (PMM) in COVID-19 Context Nong Khai, Thailand 2021-2022

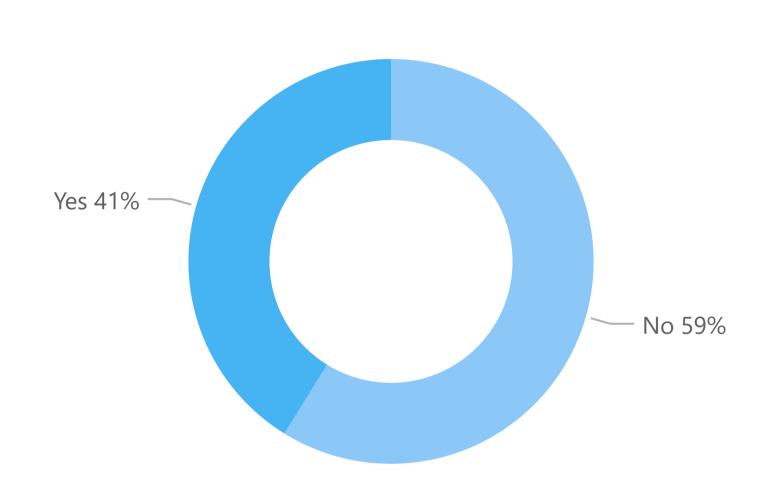
Site category

Todas



Presence of NGOs and UN agencies

KI awareness of partners presence in sites



Type of activities implemented by partners in sites

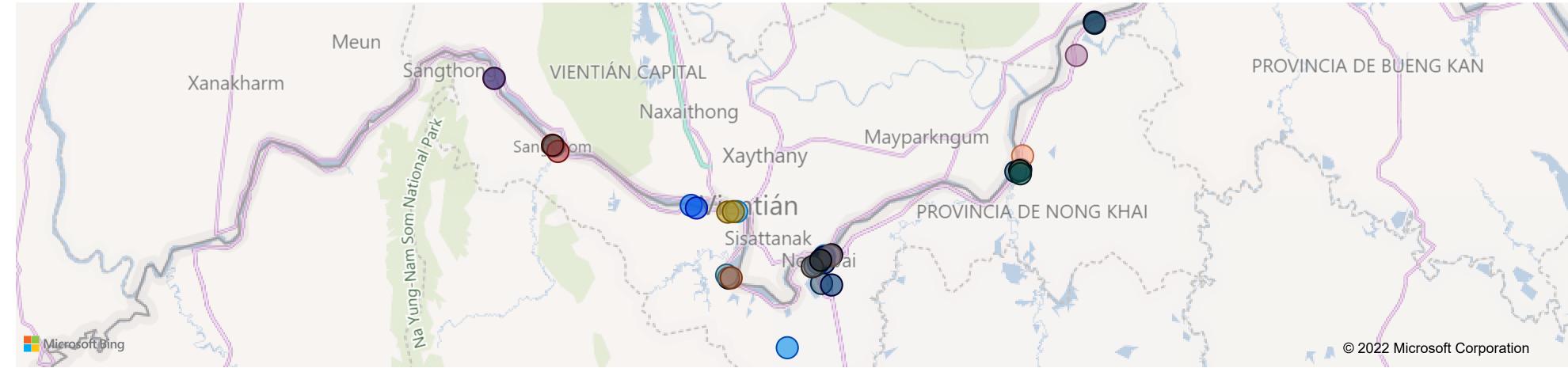
Site name	Giving COVID-19 related information	Supporting with health screening for incoming migrants
Hai Sok pier	True	True
Baan Mor District Health Promotion Hospital	True	False
Bangkok Sukee resturant (seafood buffet)	True	False
Joom Pon in Pon Pi sai district	True	True
Makro	True	False
Nong Khai hospital	True	False
Po Chai fresh market	True	False
Rattawapi market	True	False
Snag Kom hospital	True	False
Thabo Crown Prince Hospital	True	False
Thai-Lao friendship bridge	True	False

POE and sites of congregation

Hai Sok pier Sri Chiang Mai hospital Apinya-Koson Polyclinic X-Rays Lab Baan Kao Noi Fresh Market Baan Moa in Sri Chiang Mai district

Baan Mor District Health Promotion Hospital

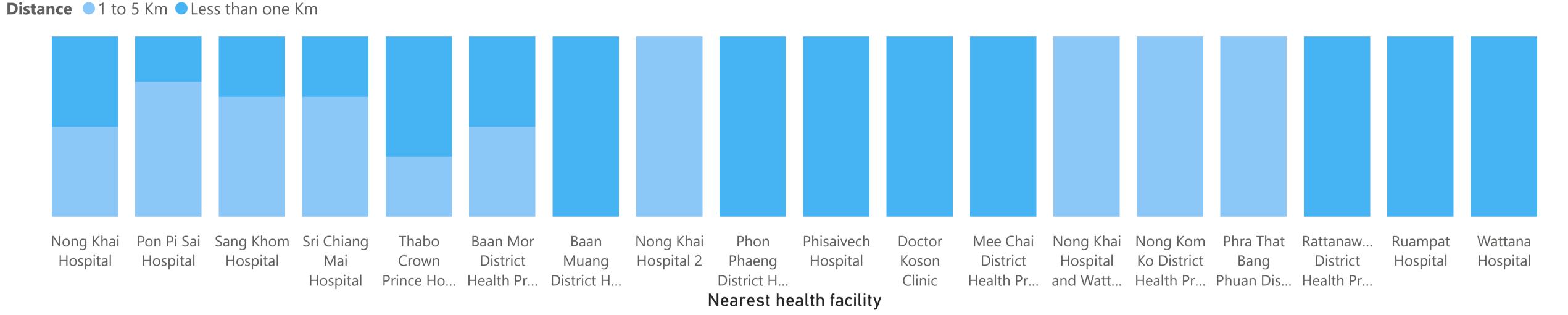
Baan Muang in Sang Khom district



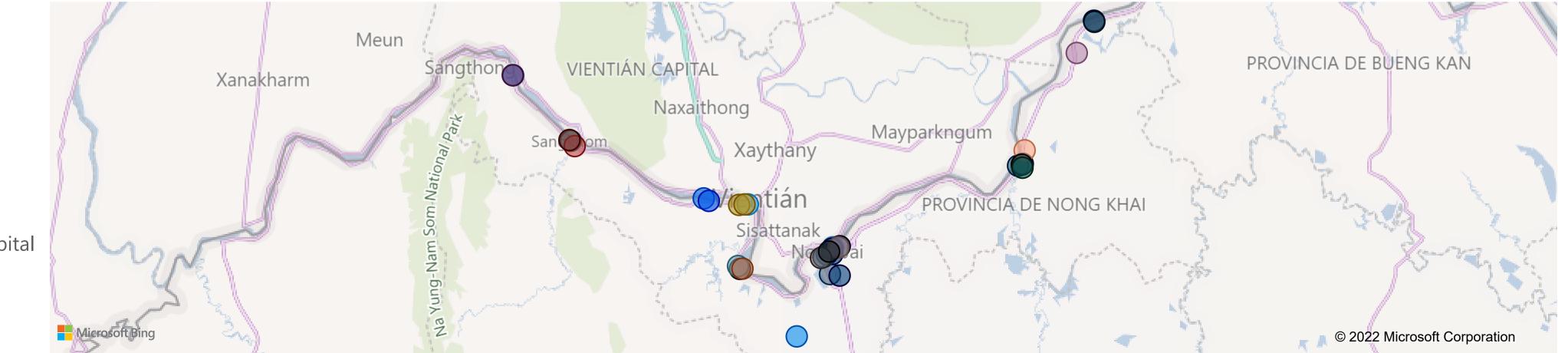
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Health facilities

Nearest health facility by distance according with KI awareness



POE and sites of congregation



Sites

- Hai Sok pier
- Sri Chiang Mai hospital

Site category

Todas

- Apinya-Koson Polyclinic X-Rays Lab
- Baan Kao Noi Fresh Market
- Baan Moa in Sri Chiang Mai district
- Baan Mor District Health Promotion Hospital
- Baan Muang in Sang Khom district

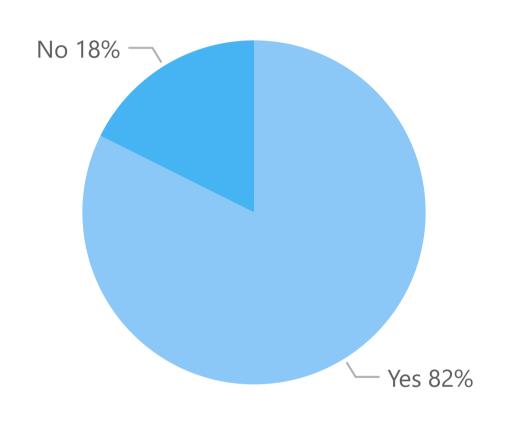
Population Mobility Mapping (PMM) in COVID-19 Context Nong Khai, Thailand 2021-2022

Site category

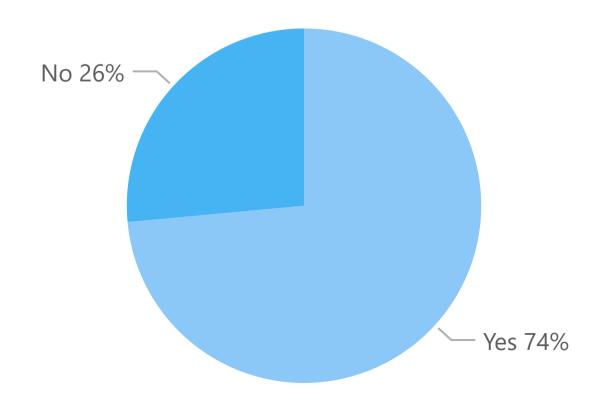
Todas	\checkmark	

† Public health measures

Hand washing facility available in sites



Screening presence in the sites



Information on COVID-19 risks available at the site

Site name	Loud speaker announcement about COVID-19	Pamphlet on COVID-19	Posters on COVID-19
Lotus in Pon Pi Sai	False	False	False
Hai Sok pier	False	False	True
Apinya-Koson Polyclinic X-Rays Lab	False	False	True
Baan Kao Noi Fresh Market	False	False	True
Bangkok Sukee resturant (seafood buffet)	False	False	True
Chaeng Sawang fresh market	False	False	True
Makro	False	False	True
Rattawapi market	False	False	True
Sang Khom market	False	False	True

Screening available at the site

Site name	Antigen test	Declaration form	RT PCR result	Sanitizer	Thermometer	Vaccine certificate
Hai Sok pier						
Sri Chiang Mai hospital	True	False	False	True	True	True
Apinya-Koson Polyclinic X-Rays Lab	False	False	False	True	False	True
Baan Kao Noi Fresh Market	False	False	False	True	True	False
Baan Mor District Health Promotion Hospital	False	False	False	True	True	False
Bangkok Sukee resturant (seafood buffet)	False	False	False	True	True	False
Chaeng Sawang fresh market	False	False	False	True	True	False
Joom Pon in Pon Pi sai district	True	False	False	True	True	False
Lotus in Pon Pi Sai	False	False	False	True	True	False
Lotus Nong Khai	False	False	False	True	True	True
Malera	Ealco	Ealco	Ealco	Truc	Trus	Ealco

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Distance to the water source by

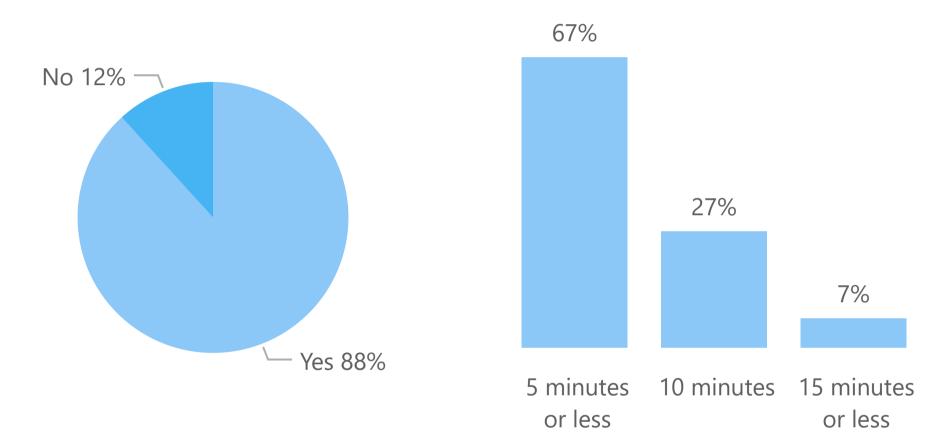
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Site category

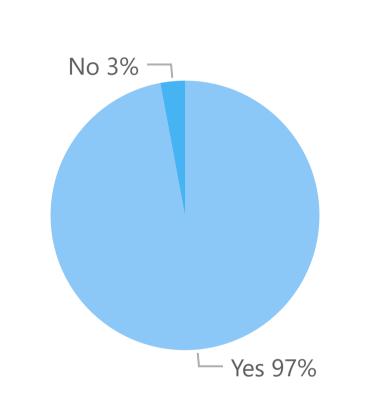
Todas



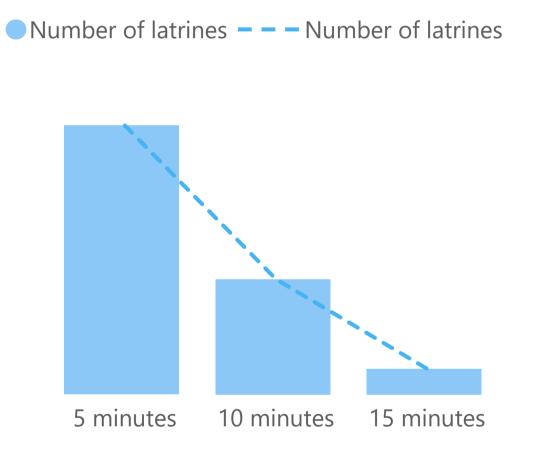
Presence of functional water source



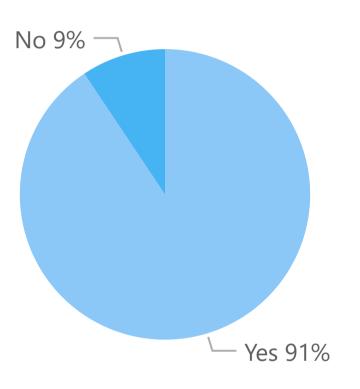
Presence of latrines



Distance by foot and numbers of latrines available



Latrines disagregated by gender



POE and sites of congregation

Sites

- Hai Sok pier
- Sri Chiang Mai hospital
- Apinya-Koson Polyclinic X-Rays Lab
- Baan Kao Noi Fresh Market
- Baan Moa in Sri Chiang Mai district
- Baan Mor District Health Promotion Hospital
- Baan Muang in Sang Khom district

