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CONNECTING **SPACE** TO



VILLAGE
SERVIR is a joint initiative of NASA, USAID, and leading geospatial organizations in Asia, Africa, and Latin America that partners with countries and organizations to address climate challenges

Using satellite data and geospatial technology, SERVIR co-develops innovative solutions through a network of regional hubs to improve resilience and sustainable resource management at local, national and regional scales.









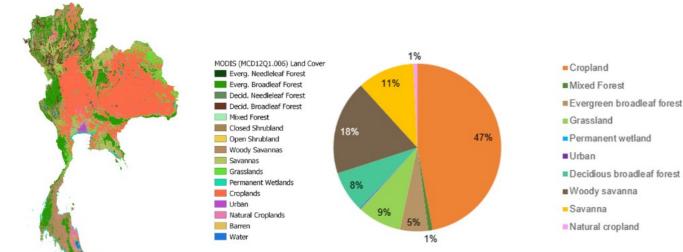


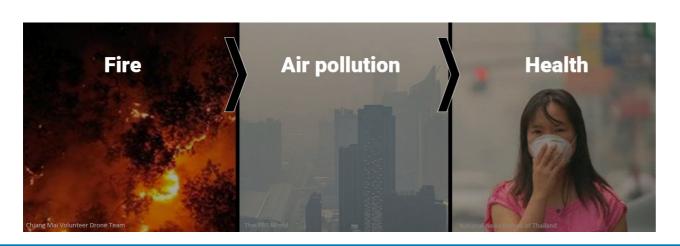






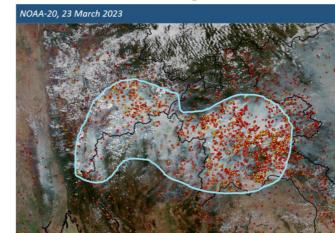
Land cover and Fire hotspot detection







Transboundary haze in Southeast Asia, 2023



Moderate to dense smoke haze observed over eastern Myanmar, northern Thailand, and northern Lao PDR on 23 March 2023, based on NOAA-20 satellite surveillance. (Source: ASMC)

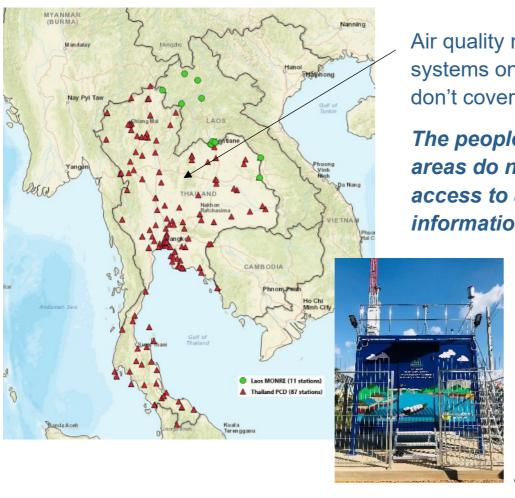








Satellite-based Air Quality Monitoring and Forecasting

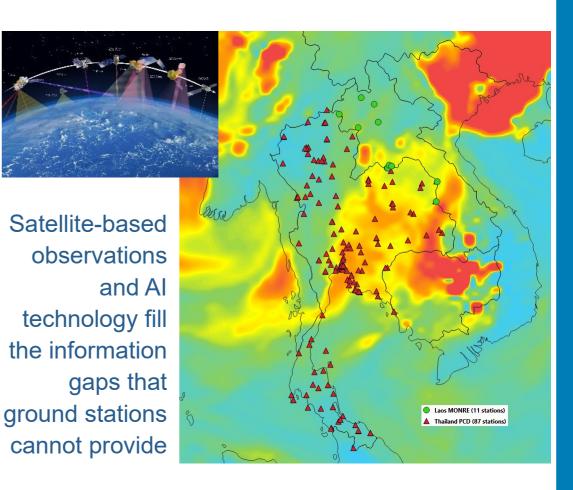


Air quality monitoring systems on the ground don't cover all areas -

The people in rural areas do not have access to air quality information









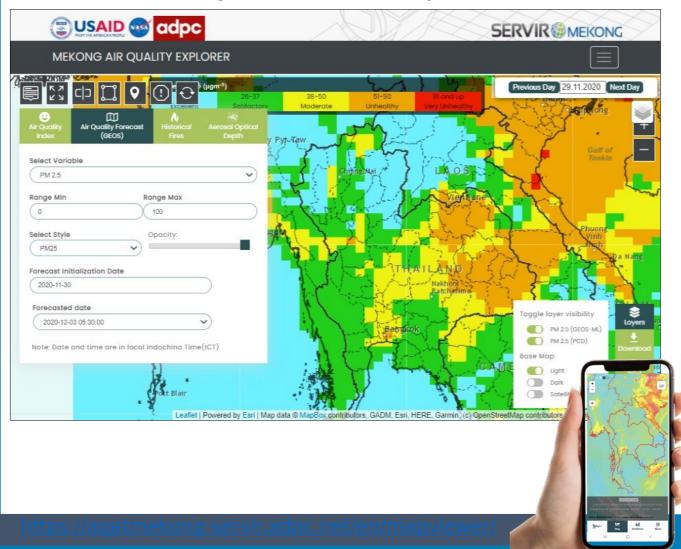




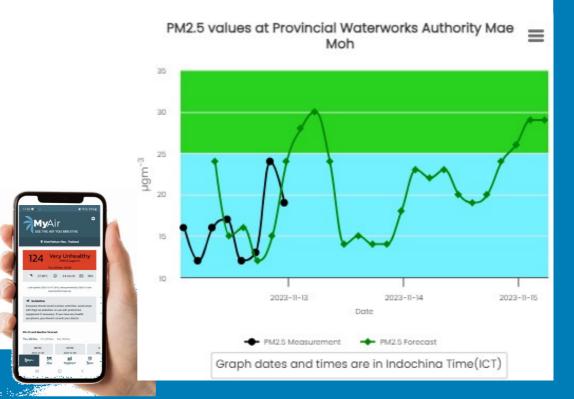


Mekong Air Quality Explorer Tool

Fire and PM2.5 regional information system



- ✓ Near-real-time wall-to-wall air quality parameters: PM2.5 and toxic gases such as Ozone and Nitrogen Dioxide
- ✓ 3-day forecasted of PM2.5
- ✓ Fire hotspots, updated twice daily



Turning Data into Action

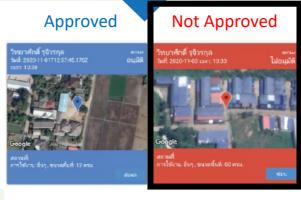
Request from a farmer



Decision Support System



3-day forecasted of PM2.5



Pending



Complete



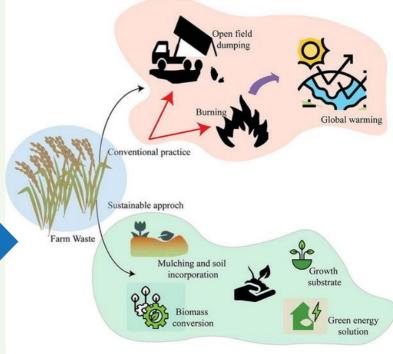








Alternative approaches



Carbon credits for farming





BURN

BUY

