Mobile4D

Mobile Reporting, Data Integration, Analysis, and Information Sharing

What is Mobile4D?

Mobile4D is a mobile information and communication technology (ICT) for data collection and reporting, information integration and analysis, and knowledge sharing among individuals, communities, and organizations.

What are the components of Mobile4D?

Mobile4D consists of

• a smartphone app for generating reports, issuing alerts, and for sharing knowledge
• a web interface to control the overall system, to perform data analyses, and to display the resulting knowledge
• the Mobile4D server which organizes all reported pieces of information, maintains the user administration, performs data integration and evaluation, and communicates with all users and groups connected to Mobile4D

What are the core features of Mobile4D?

• Fast and secure flow of information among all users
• Location-based reporting and knowledge dissemination
• Mobile solution with intelligent offline / low-bandwidth functionality
• Real-time notification about critical incidents
• Full crowdsourcing capability
• Flexible user administration and access control
• Participatory adaptation of Mobile4D to your specific requirements

Mobile4D app for reporting natural disasters and locust sightings (interface in Lao language)
What are typical applications for Mobile4D?

The range of potential applications of Mobile4D is abundant. Whenever information involving temporal and/or geographical data is to be collected by mobile users (open crowdsourcing or restricted community) Mobile4D can do. Whenever fast information sharing between individuals, communities, or institutions is required, Mobile4D will be suitable as a tool for smart decision making.

Can you give an example?

Mobile4D has been employed in Lao PDR to report local disasters like floods, fires, infrastructural problems, or diseases in humans, livestock, and crop, as well as to issue the corresponding alerts to potentially affected users.

Mobile4D has also been used to collect data about the occurrence of the yellow-spined bamboo locust (*ceracris kiangsu*), which destroy a large portion of agricultural crop every year in Southeast Asia.

![Visualization of concentrations of locust reports in the affected areas](image)

Who is developing Mobile4D?

Mobile4D is developed by the International Lab for Local Capacity Building (Capacity Lab) at the University of Bremen in close cooperation with application partners and users. If you have an application for Mobile4D in mind or to learn more about Mobile4D please contact us at info@capacitylab.org.