



Artisanal and small scale mining.

Innovations in capacity building  
leading to global and local benefits



- Introduction to Artisanal and small scale mining
- Our project work
- Extension of capacity building for regional and global impact



# Artisanal and small scale mining (ASM)



Involves up to 30 million people worldwide contributing 15-20% of global mineral and metal production.



# ASM in Indonesia

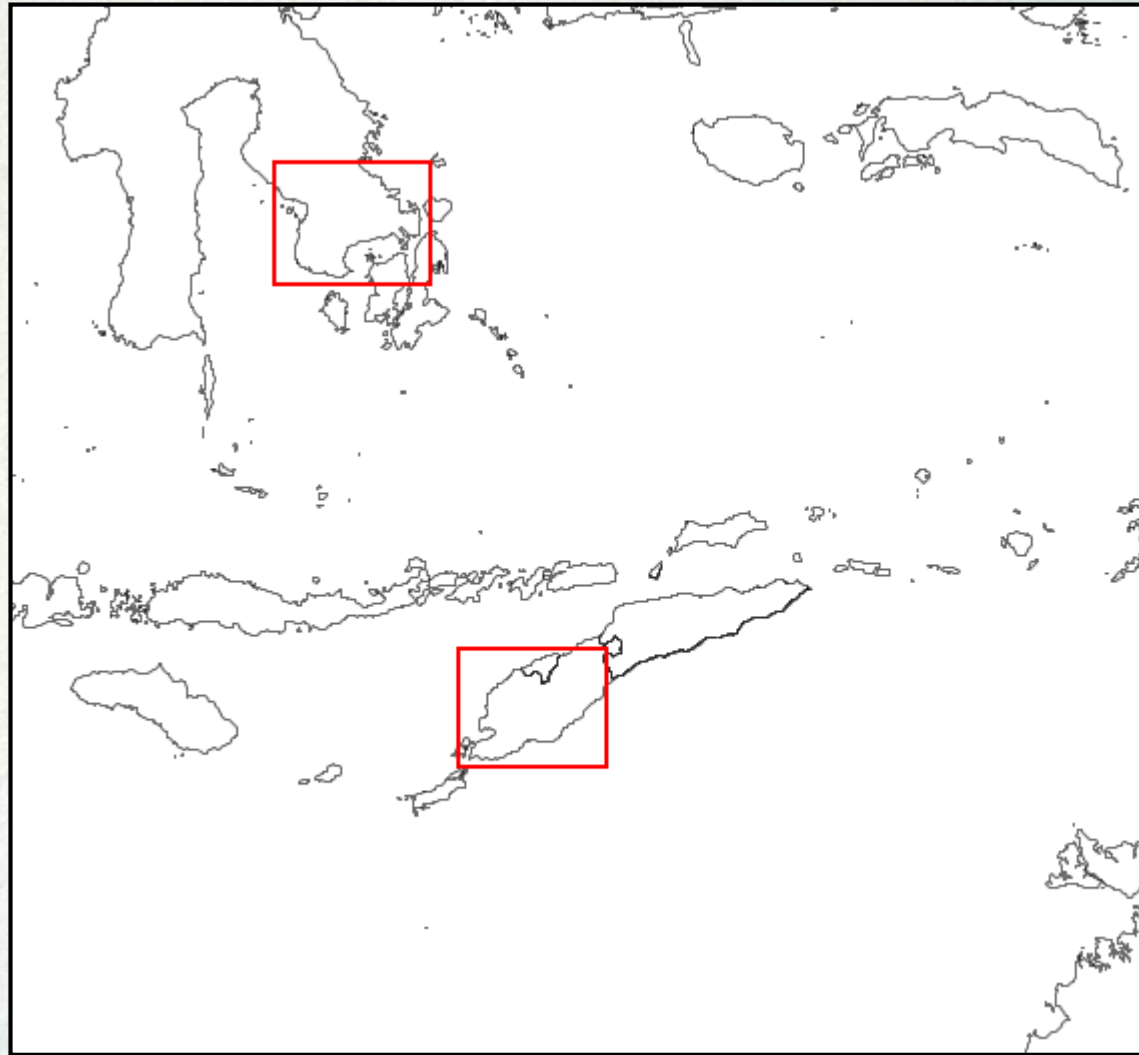
A black and white photograph showing a person in a light-colored t-shirt and dark shorts, crouching inside a deep, dark, and irregularly shaped pit. The pit is surrounded by high, crumbly, and fractured rock walls. The person appears to be working with a small tool or container. The foreground is filled with loose, broken rock fragments and debris.

It is estimated that up to two million people are involved in the artisanal and small scale mining sector across Indonesia.



# DFAT Project

- GPFD funding  
1.2 million
- 4 Years 2013-17
- Building on pre-existing  
connections to SE  
Sulawesi and NTT





# Manganese mining in West Timor





# Gold mining in South East Sulawesi





# *Overall Goal is towards Reducing the harm and maximising the benefits from ASM*

There are **significant livelihood and community resilience benefits** however the environmental and human health costs can be high.

- *Facilitating Knowledge exchange, finding 'best practice'*
- *Building networks and local capacity*



# Knowledge exchange

## *Legislative symposium*

**Raising the profile of ASM  
as a significant rural activity**

**Exploring paths to  
formalisation**

- What is informal?
- What is illegal?

***Providing forums for  
governance debates***





# Knowledge sharing in Australia

- NTG Department of Mines and Energy. Seminars and field trips.
- International conference (ANU Canberra) on ASM providing a global perspective.

*Context for local concerns*





## Engagement with farmer miners.

- Sharing best practice
- Supporting national community miner networks
- Provide a basis for collective responsible mining that is economically, socially and environmentally sustainable.
- Legitimising small mining as a rural livelihood co-existing with agriculture.

***Respecting local knowledge***





## Research Partnerships

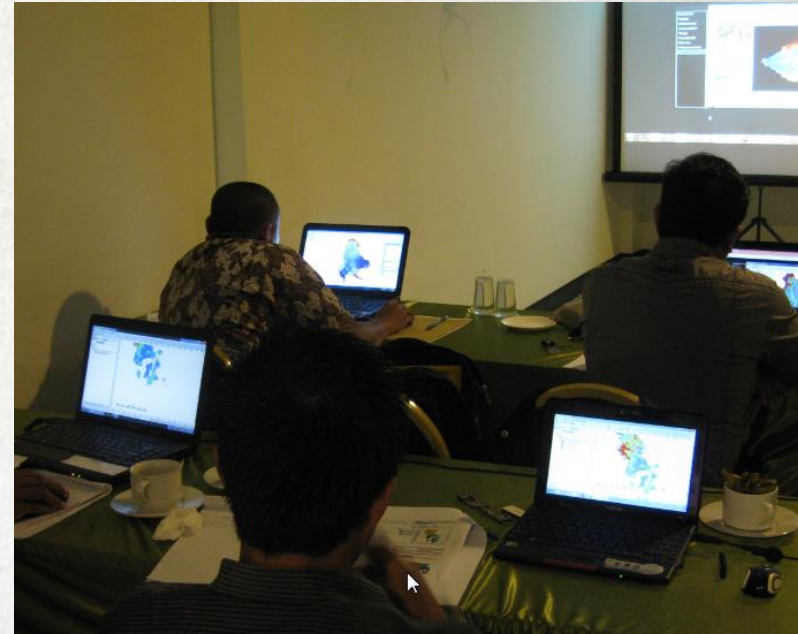
- Research partnerships with local universities, the ANU and the Crawford fund.
- Academic writing workshop, Soe May 2017





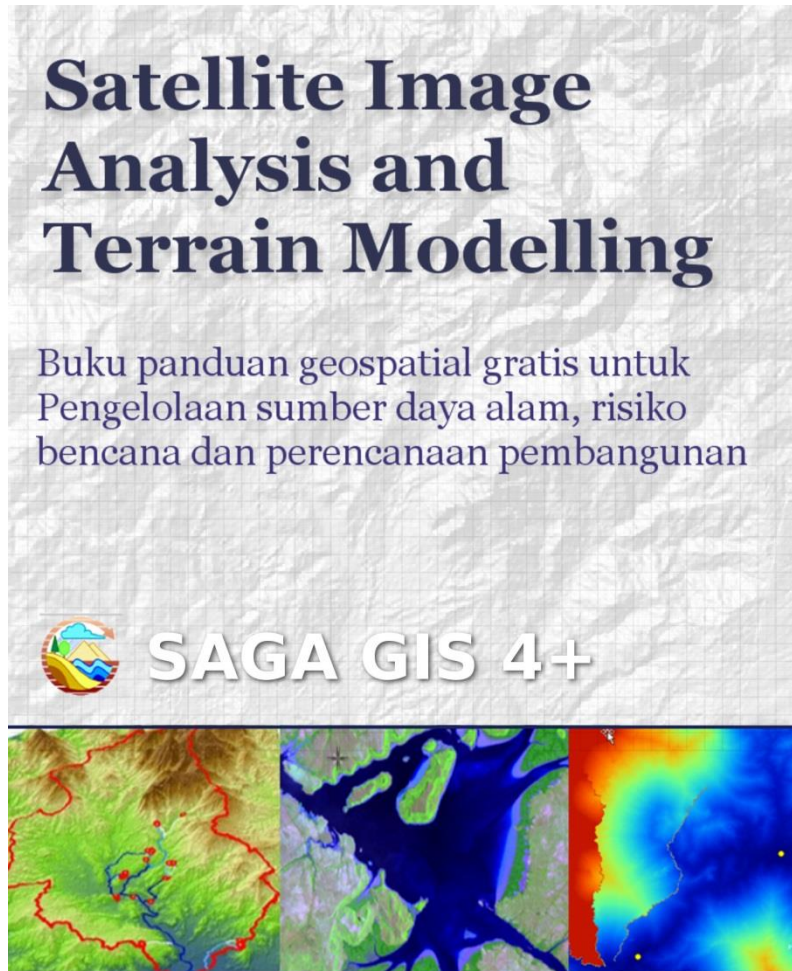
## Technical skills

- Providing extensive practical training workshops in geospatial applications for mapping, monitoring and modelling.
- Decentralising expertise





# Key to sustained outcomes: comprehensive, bilingual digital and hardcopy training materials

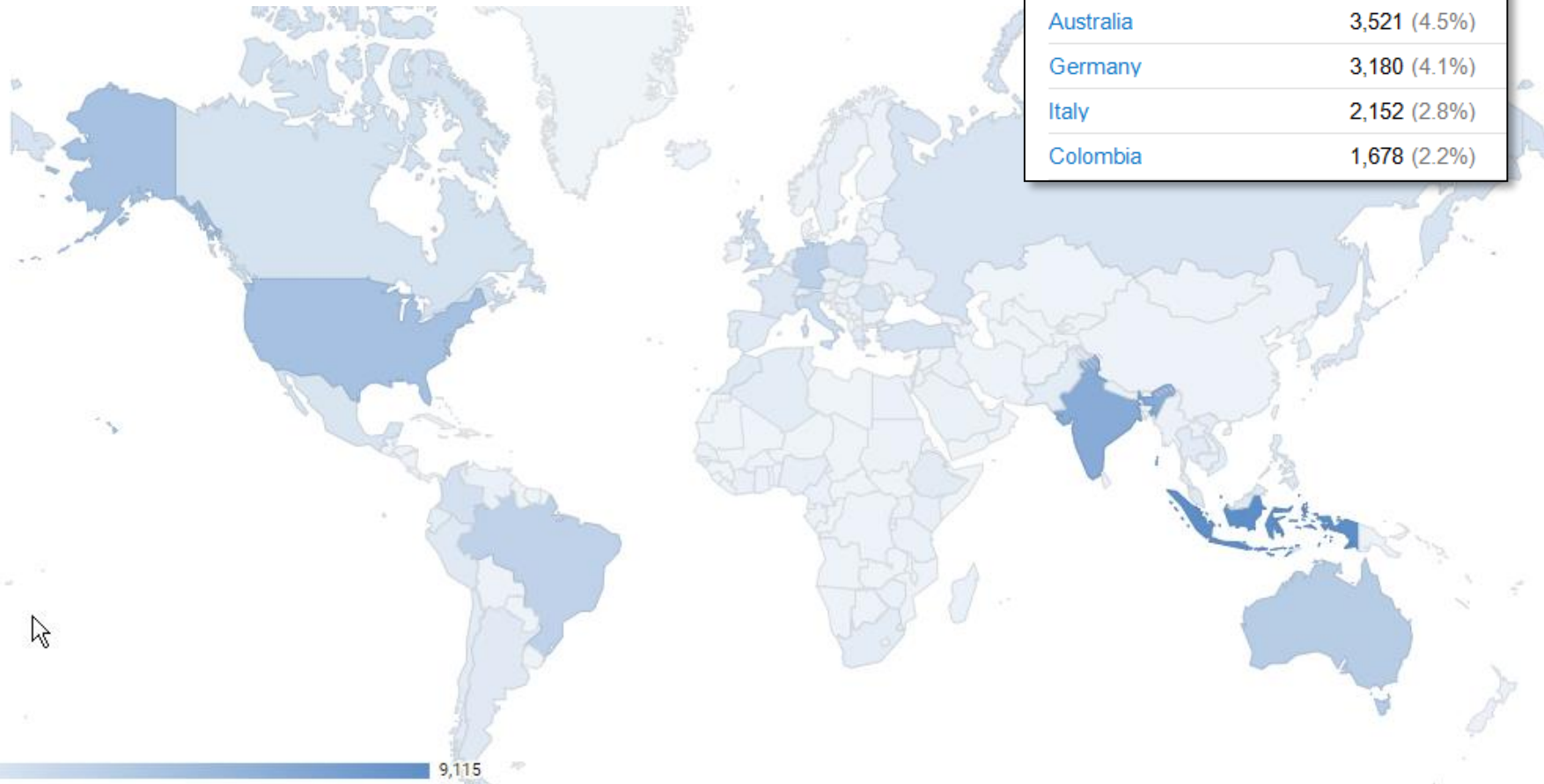


- Local data-local context
- Website & YouTube
- **High quality free and open training content for global out-reach**
- **Leading to Global impact**





# Global out-reach



You Tube metrics – monitoring access. 80k hits.





Global out-reach: Latin America



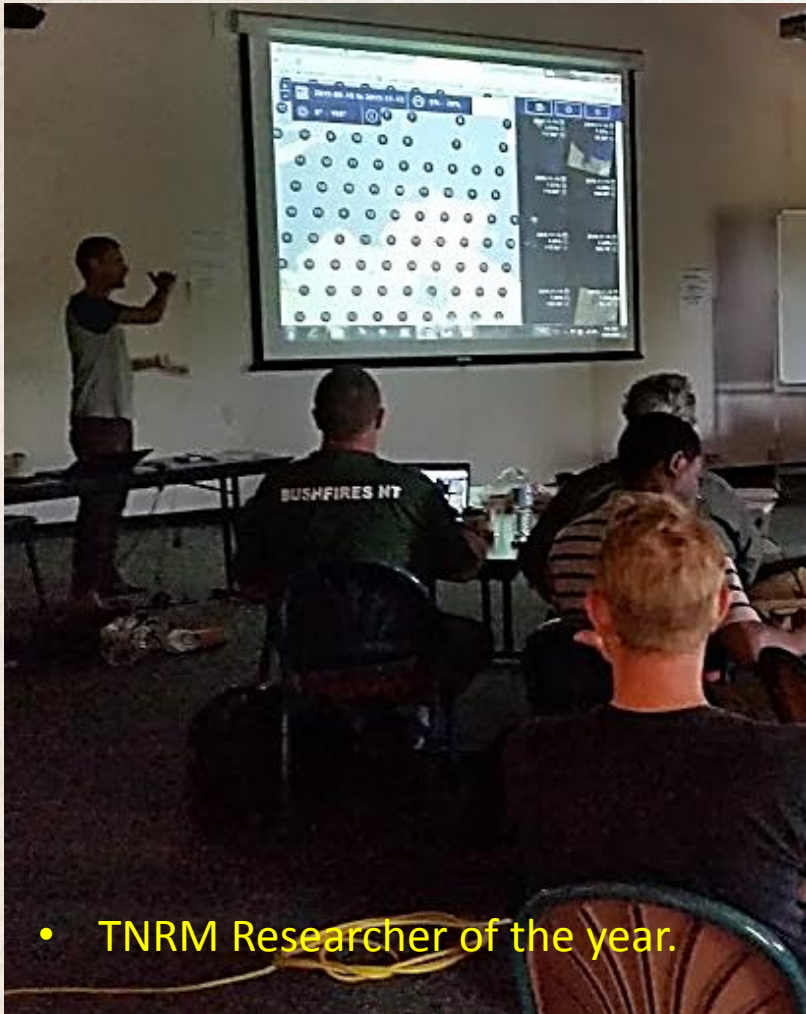
# Back in the NT



- Supporting training and capacity building with Government, Student and Industry groups.



# Back in the NT



- TNRM Researcher of the year.

