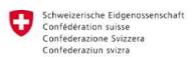


### OneMap Myanmar: Spatial data for empowerment

Co-producing data and knowledge through transformative partnerships for evidence-informed and equitable land governance

Swisstopo 23th March 2018 Andreas Heinimann, Joan Bastide



Swiss Agency for Development and Cooperation SDC



UNIVERSITÄT

CDE
CENTRE FOR DEVELOPMENT
AND ENVIRONMENT





# In agricultural and natural resources based economies, land puts many, and often competing, interests at stake



ANIALMIST.

COME CENTRE FOR DEVELOPMENT AND DEVELOPMENT















## In Myanmar, the situation remains highly conflictual, and the level of trust between key stakeholders is very low



**ENIMINAL** 

CENTRE FOR DEVELOPMENT AND INVISIONMENT







One source of data is not enough



#### But data and information alone is not enough



**GRIALITY** 

EDM CENTRE FOR DEVELOPMENT AND INVIDENMENT



Sustainable land management **Goal oriented** and equitable decision making

Navigating trade-offs (sectors and scale)

Knowledge

Data / information

**Co-production** 

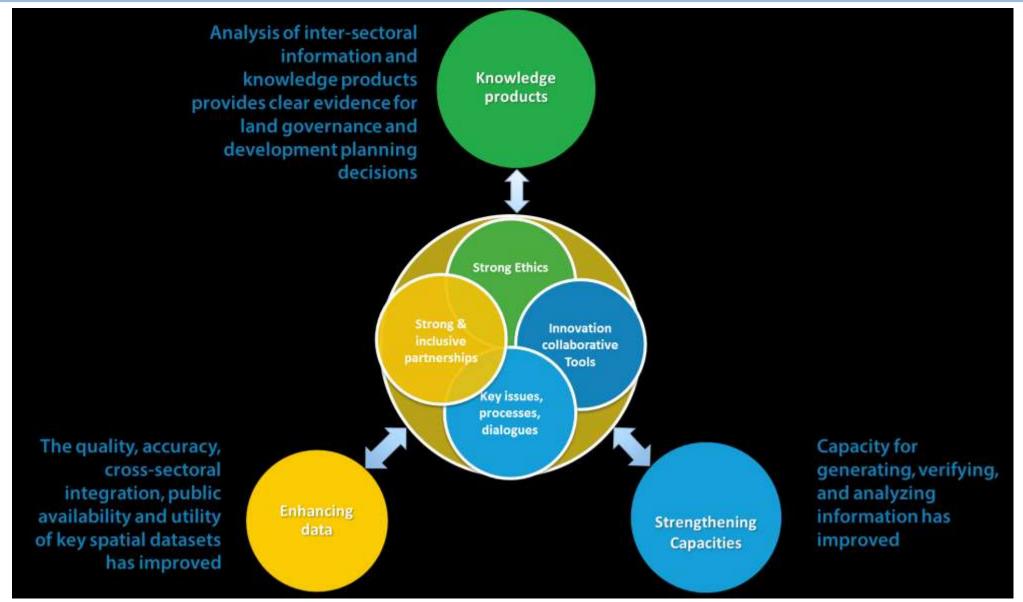


#### The OneMap Myanmar Initiative



RHIABMICY

CENTRE FOR DEVELOPMENT AND PROVIDENMENT



# Example of activities: The case of palm oil in the southern region of Tanintharyi



**CHIVEMICS** 

CENTRE POR DEVELOPMENT

# Enabling an evidence-informed multi-stakeholder environment to address complex land issues

The case of Palm Oil in Tanintharyi





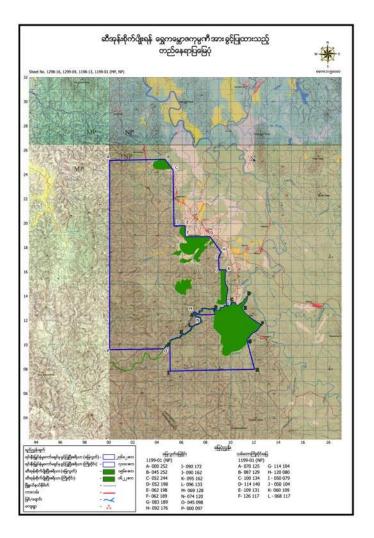


# Compiling contract information from different sources/agencies



SHIVE MICKS

CENTRE FOR DEVELOPMENT





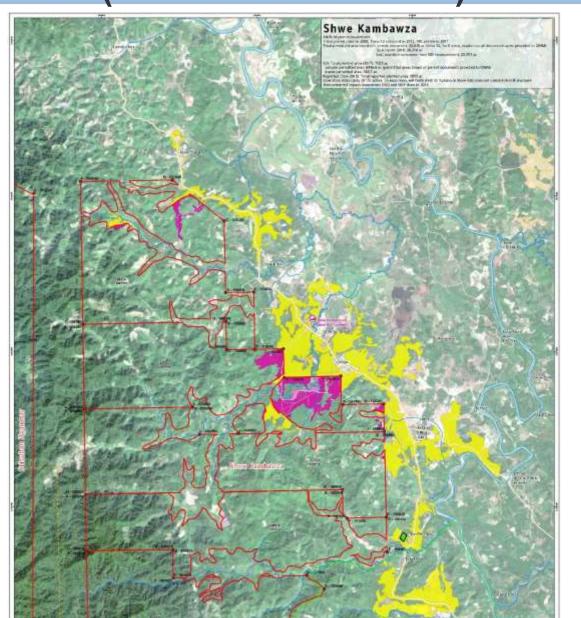


# Mapping of planted areas using satelite images (Visual based on PL)



**ENIABRICY** 

COME CENTRE FOR DEVELOPMENT AND INVINCEMENT





 $u^{b}$ 

eniversität Veen

CONTRE FOR DEVELOPMENT AND INVIDENMENT



 $oldsymbol{u}^{\scriptscriptstyle b}$ 

ONIVERSITÄT VARA

CONTRE FOR DEVELOPMENT

#### $u^{\scriptscriptstyle b}$

### Co-production using technical means

delvereige Teen

CENTRE FOR DEVELOPMENT AND INVIDENMENT

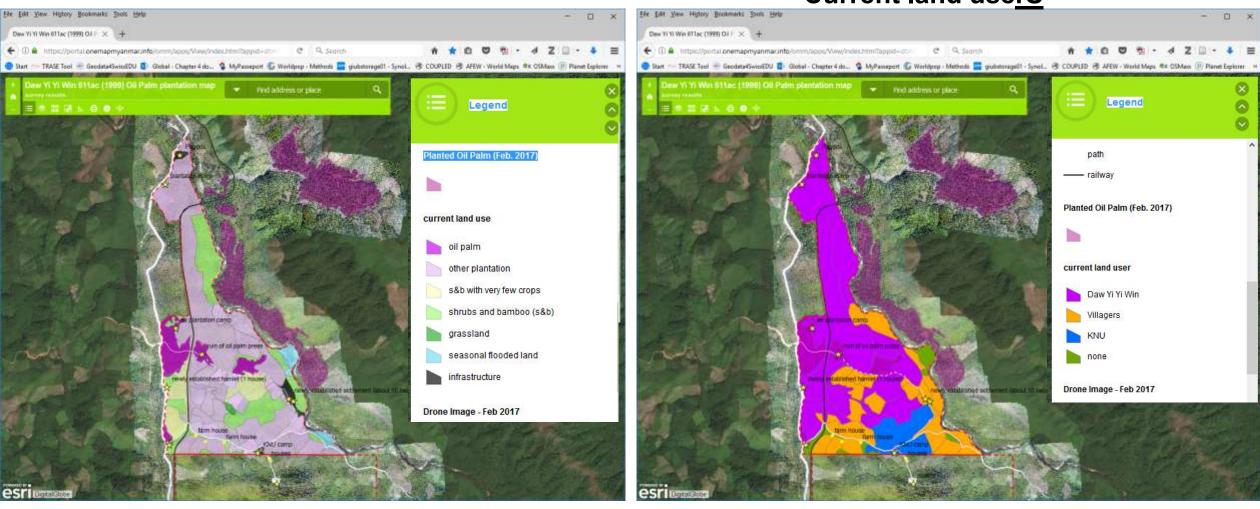


# Co-production of land use and claims towards navigating conflicts and finding solutions



**Current land use** 

Current land users





### Planted or not?



WHIPEMENT WHIPEM

CONTRE FOR DEVELOPMENT AND INVIDENMENT





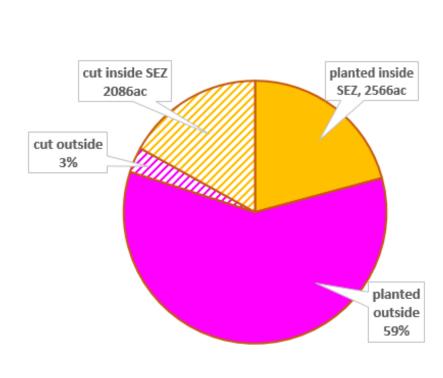


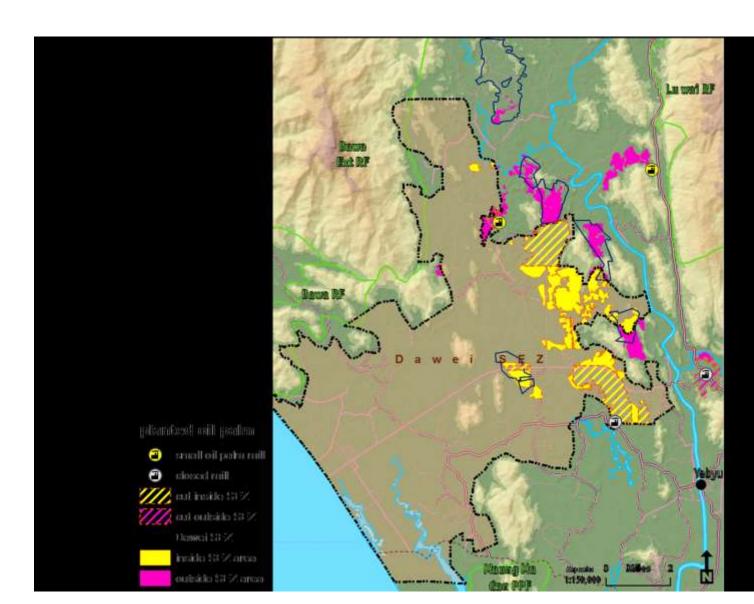
## Dawei Special Economic Zone and planted/cut Oil Palm



ONIVERSITÄT TERR

CENTRE FOR DEVELOPMENT





# From mapping to policy processes and land redistribution to villages



**ENIABRICY** 

CENTRE FOR DEVELOPMENT AND DEVELOPMENT





# Example of activities: Putting shifting cultivation and customary land claims "on the map"



**ENIAMINY** 

CENTRE POR DEVELOPMENT

# Putting shifting cultivation and customary land claims "on the map"





# Participatory mapping and documentation of customary lands in Nagaland



RIVERIES

CENTRE FOR DEVELOPME





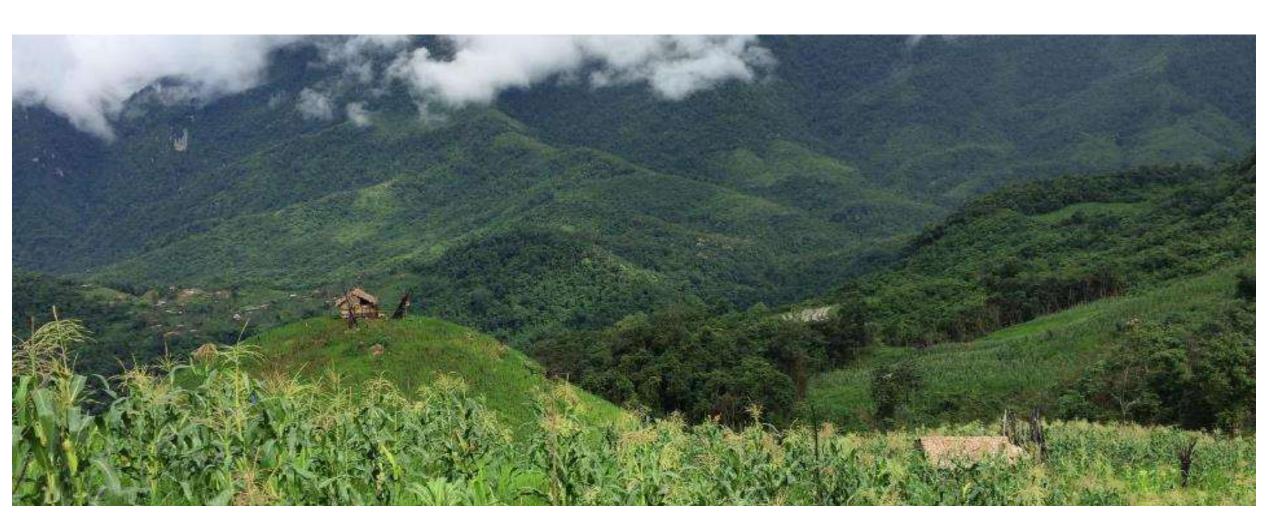
### Nagaland





### **Land Use Types**

CENTRE POR DEVELOPMENT





#### **Land Use Types**

CONTRE FOR DEVELOPMENT

**Customary forest** Bee rock **Fallows** Orchard Terrace



#### **Land Use Types**

UMIVERSITÄT

CONTRE FOR PEVELOPMENT

AND INVIRCUMENT



# Participatory mapping of: Current land use and land tenure



**ENIMENTS** 

COM CENTRE FOR DEVELOPMENT AND INVIDENMENT

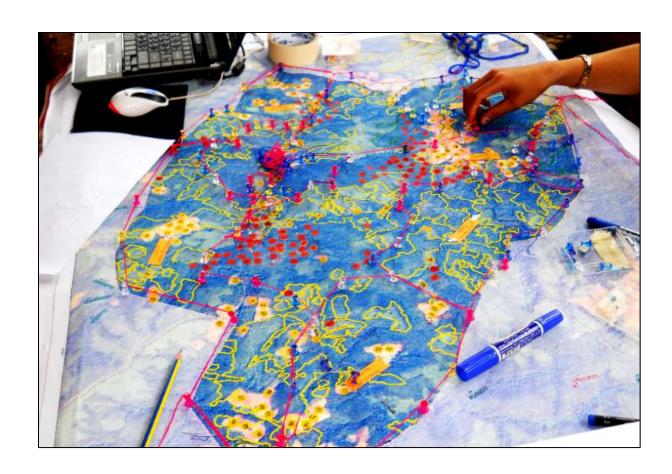


# Participatory mapping of: Current land use and land tenure



**ENIABRICY** 

CENTRE FOR DEVELOPMENT AND INVIDENMENT



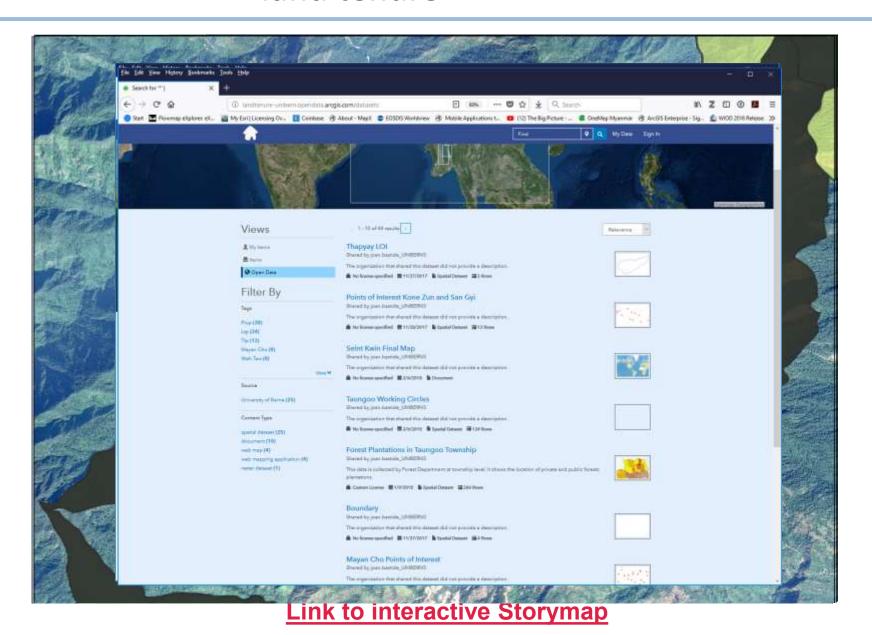


## Participatory mapping of: Current land use and land tenure



émivemiels Per

CENTRE FOR DEVELOPMENT
AND INVIRCINITIES

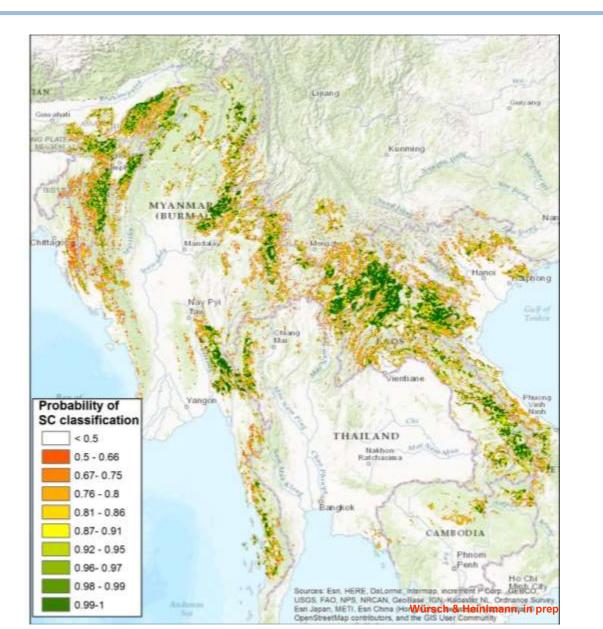


# Regional shifting cultivation probability map (using Google Earth Engine)



RIVERIES

CENTRE FOR DEVELOPMENT AND INVIDENMENT



# Example of activities: Putting shifting cultivation and customary land claims "on the map"



**ENIAMIN** 

CENTRE FOR DEVELOPMENT

AND INVIRCINITIEST

# Putting shifting cultivation and customary land claims "on the map"









Swiss Agency for Development and Cooperation SDC



UNIVERSITÄT RERN

CENTRE FOR DEVELOPMENT AND ENVIRONMENT





# Co-production of knowledge: Putting shifting cultivation on the map

Support communities documenting their land resources (aim n> 70)





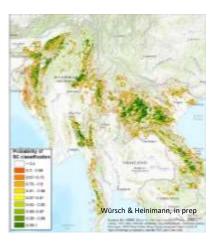
Understand local contexts through case studies and engagement with Local communities

Strategically work with policy makers at all levels to alter policies and zonings

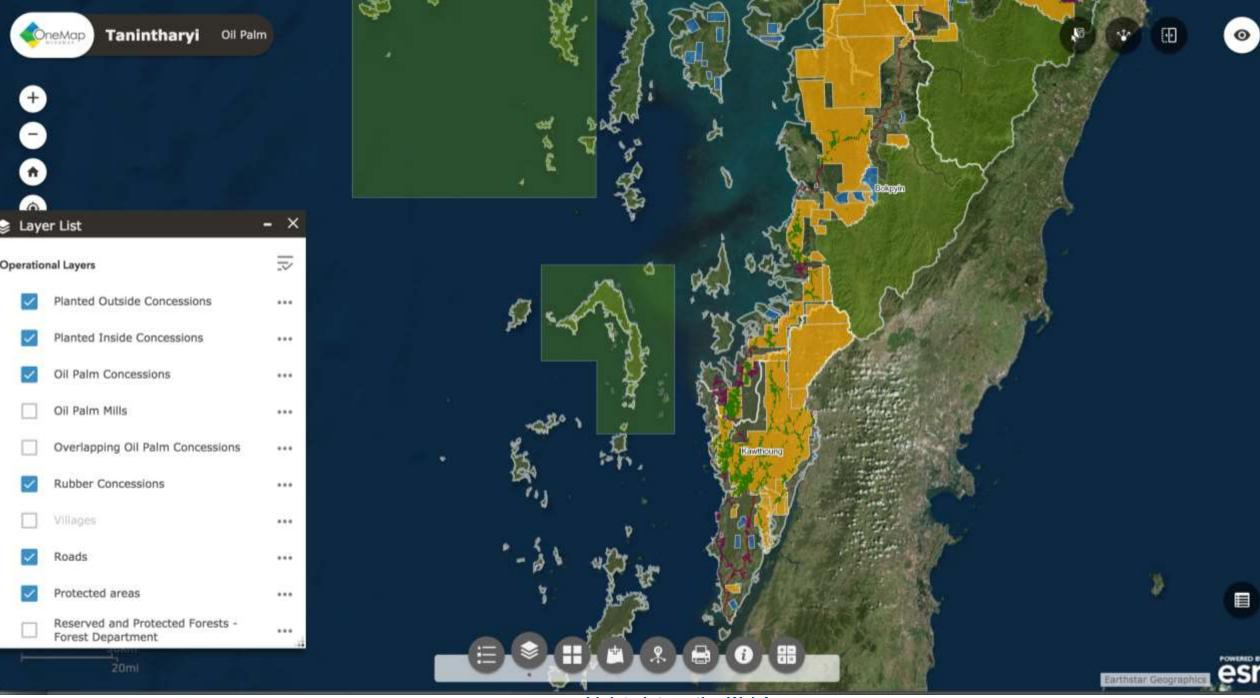


#### Work with technical staff in gvt





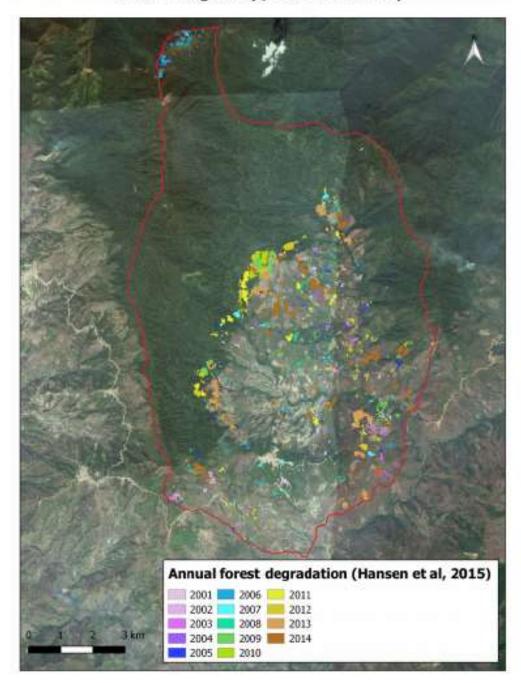
Use new technologies to put SC on the map



Link to interactive WebApp



#### Kuki Village Map, Lashi Township



# Basel data outside government structures: Crowed sourcing through OpenStreetMap



## OneMap(s)? An constellation of interlinked tools, modules, platforms and processes

Metadata Platform

MY GIS Wiki







**Department 2** 

Department 3

ONE MAPS MYANMAR Central viewer

Participatory
Mapping
Platform

Mobile Application

**Data Repository** 

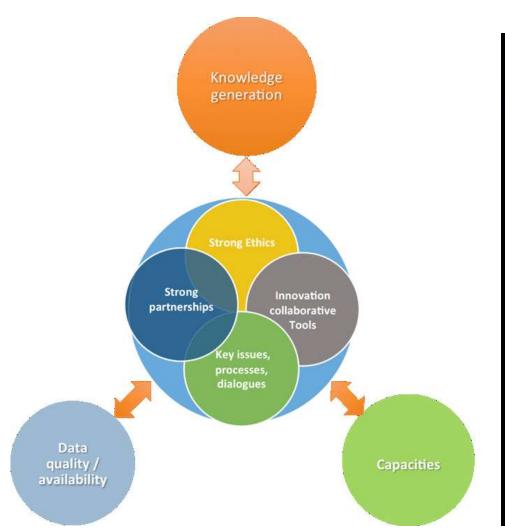
Land Observatory

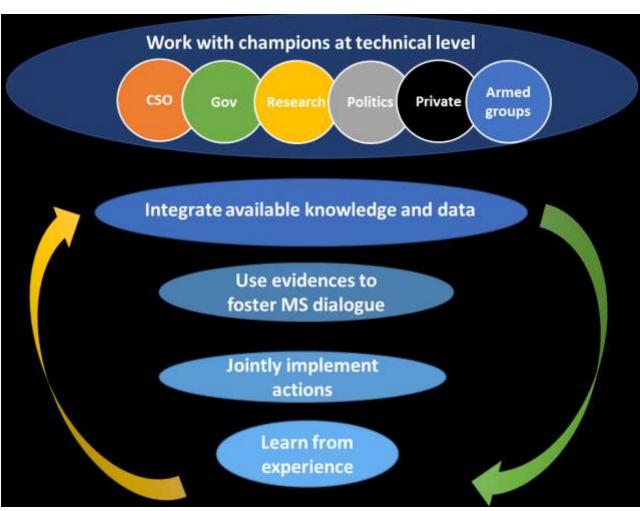
Mobile apps





### OneMap(s)? An constellation of interlinked tools, modules, platforms and processes





#### Infrastructure to Application Mapping (OneMap Myanmar)

