

Concluding workshop on Using RT-Work app to implement real-time farming diary and traceability. A map of herbicide use in maize crops



Đoàn Thu Thủy---February, 27-2019--- Tam Đường, Lai Châu

Mountainous in Northern Viet Nam

Unsustainable agricultural practice : intensively use of chemical fertilizer, Pesticide and Herbicide

Consequence: soil degradation and cause of poison to human health and environmental pollution...



From April to May, 2018

78 people in Moc Chau and 70 people in Son La province has been suffered the poison by contaminated herbicide in the water resource in both surface and ground

Quality and safe of Agricultural products

- ❑ Priority attention of the all peoples and government
- ❑ Promote the safe agricultural process for consumers
- ❑ Certificate issue: VietGap, Global Gap, Organic approvalment

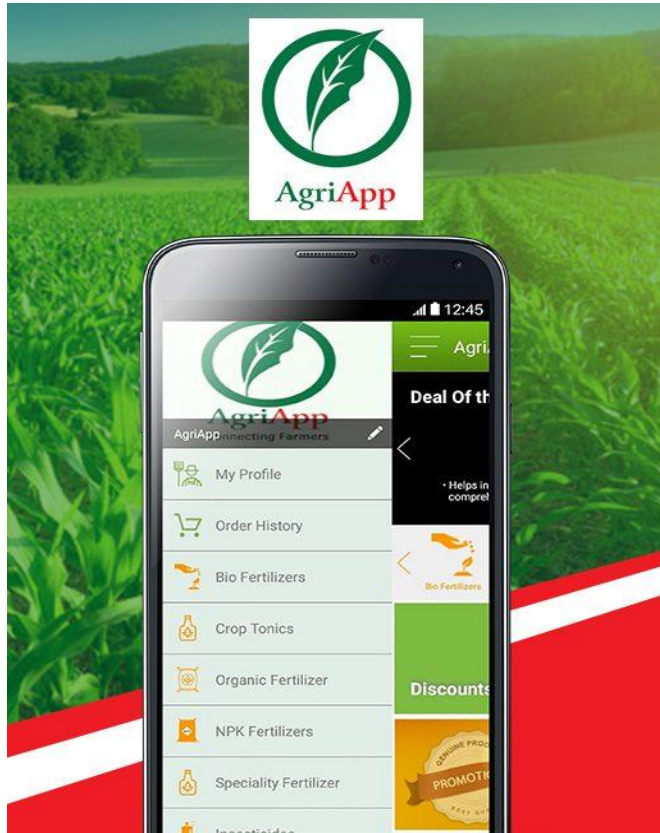
➤ Requirements: real-farming dairy book



Challenges: the truth of real-farming dairy book in management and implement the required steps during the production process

Requirements: provide the effectiveness management to increase the income and traceability of products via QR code

Smart phone and rt-work



Take note/save the data



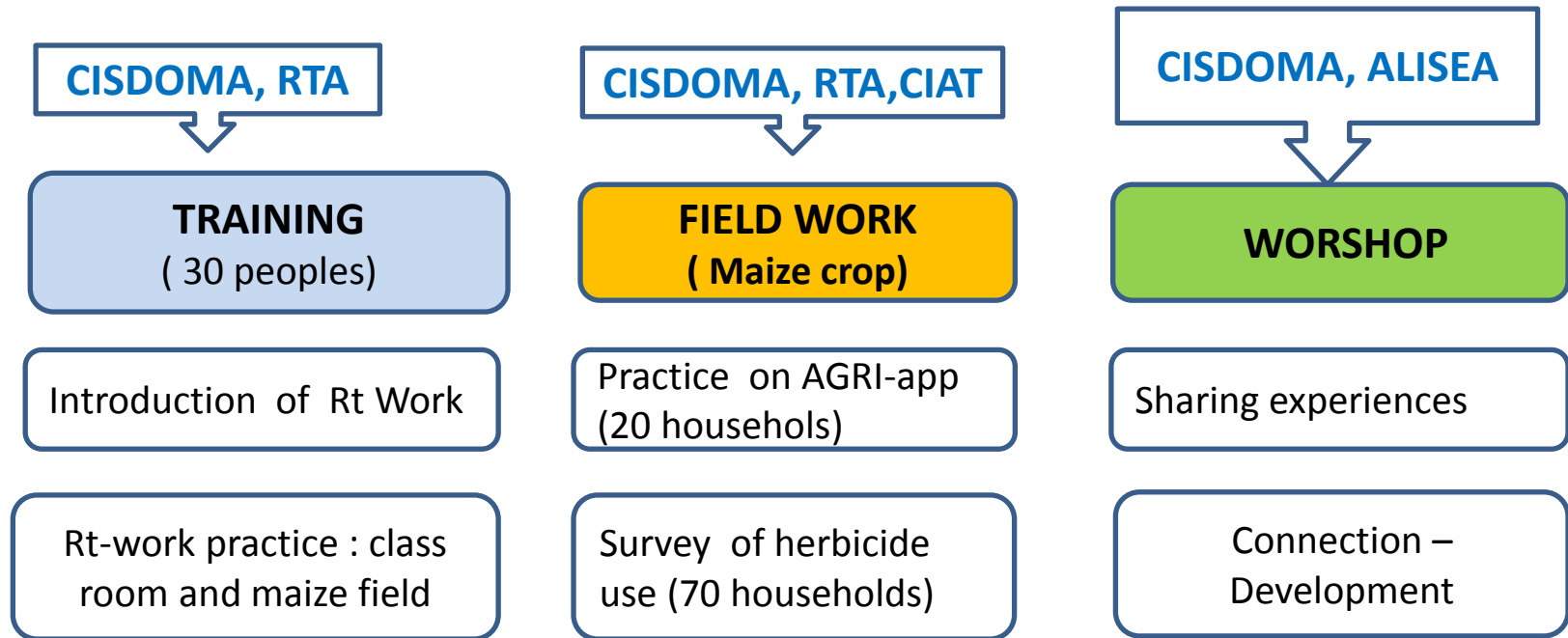
Product traceability/QRcode



Group chat/discussion and market connection



Implementing schedule- Tam Duong, Lai Chau



25-26/7/2018

Farmer, extension officer

3/8-30/11/2018

Household, local officer

27/2/2019

Farmers, enterprise, agricultural bureaus



Results of Rt-Work training

CISDOMA, RTA

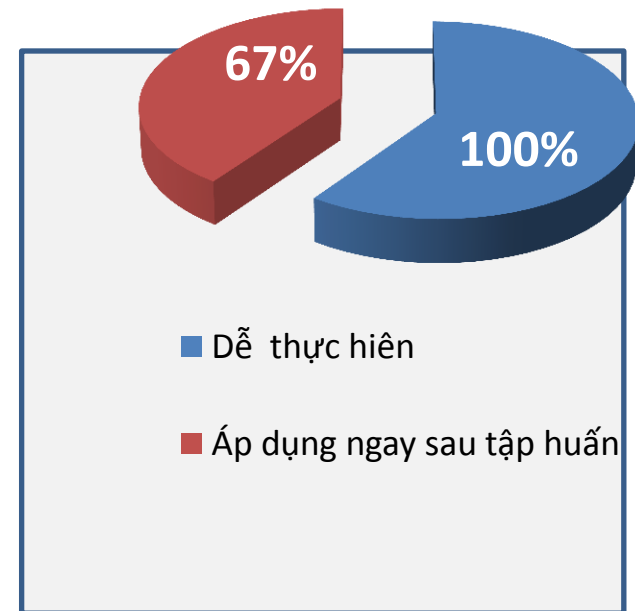


❑ Completed steps of data inputs relating the maize crop: chemical fertilizers, Pesticide and Herbicide use

❑ Questionnaire collection: **100%** participants agreed Rt-work was a simple practice and working-group create. **67%** participants confirmed the possibility of application AGRI app on the field

❑ 20/30 households admitted using AGRI app on their maize crop for 3 months

❑ 02 local officers from CISDOMA and Extension bureau who can directly facilitate to the farmers on using AGRI app



**Sharing from Vu Viet Hoang, farmer
from Tiên Bình community, Tam
Duong Dist.**

*“If the training on practice using RT-
Work was held earlier, I was able to
prove to the owner of the corn feed
shop to find out the cause of the
dead ducks. I did not suffer all total
loss of 30 million VND.”*



Results of *AGRI app* practice on the maize crop

Phạm Khắc Vũ- local officer of CISDOMA ,Tam Duong



Survey of herbicide use for maize crop at the authorized plant protection Tam Duong shop

Type	Name	Made in	Chemical composition	Poison level	Use
Slow died	HELOSATE48SL	Việt Nam	Glyphosate isopropylamine salt 480g/lit	High	at the grass height 15-20 cm
	Dragoanong 700EC	Việt Nam	Cypermethrin+chlorpyrifosethyl	High	at the 60 days after plantation
	Nitrazin800wp	Việt Nam	Atrazine	high	Before soil tilage
	Chiến Mã 410SL	Việt Nam	Glyphosate IPAsalt:480g/l và phụ gia đặc biệt 520g/l	high	Before soil tilage
	D480SL	Việt Nam	Glyphosate IPAsalt:480g/l và phụ gia đặc biệt 520g/l	High	Before soil tilage
Fast died	OWen20SL	Việt Nam	Paraquat 20% và phụ gia 80%	High	at the beginning of the rain season

- Still remained herbicide made in China available at other shops
- Difficulty in herbicide management

Survey of herbicide use for maize crop at the Nà Hum Bình Lư community

Recognize the herbicide name
following:

Logo and picture printed on the box

Do not care about production
resource

Used herbicide box located
on the road, under the sunshine

Risk of herbicide toxic to children



Need to improve a simple AGRI app for herbicide data
collection

Survey of herbicide use for maize crop at the Khèo Thầu-Hồ Thầu community



Herbicide sprays after finishing housework

Unsafe: noon time, under the sunshine, without labor protection as the recommendation



Herbicide used box was discarded everywhere

Herbicide used box at the common irrigation resources



High poison: Keep away from children.
Composition: Paraquat



Herbicide used box behind the house



Thực hành rt-Work



**100% completed
job!**

Maize plantation(T 8- T11,2018)

Traceability of maize products
(20 households)

Herbicide mapping
(70 households)

Time of data collection:
before plantation, period
of 4-5 and 7-9 leaves

Working with
farmers on the field

Data input directly to the
AGRI-app for Herbicide use



Findings

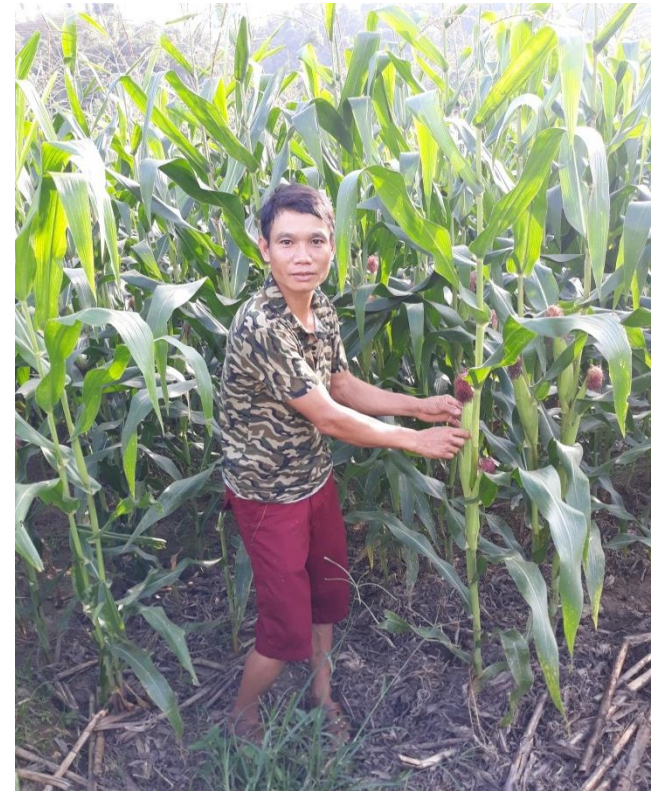
- 1. GEOGRAPHICAL CHARACTERISTICS:** topographic, traffic road, people's intellection should be considered
- 2. ALLOCATION OF MAIZE FIELD:** affected by the bad weather conditions: rain, frog
- 3. DATA COLLECTION:** at the herbicide use to get accurate data. Need to prepare a questionnaire
- 4. RT- Work PRACTICE:** farmer understand well the use of AGRI-app with office staff supervision
- 5. LANGUAGE :** Mother tongue language should be included in the conservation

PROPOSED:

- Continue supporting the AGRI_APP both in farming and livestock
- Continue keeping the long-term use of RT-work to change people's perception through group exchanges

Sharing from Mr. Phàn Tiến Ly, Dao ethnic at Ho Thau community : Rt-work has promoted him to efficiently manage the input materials that leads to increase the maize yield . What about AGRI-app for livestock management?

After being trained, Mr. Ly used the App to select the updated information and traceability of products for maize crop likes: seed, fertilizer and plant protection as well as the benefits and warnings of that products. The maize yield was also increased. He expects to learn more the AGRI-app for livestock management such as breed, food, vaccine and cattle care guidance.



EXPECTATION

1. AGRI-app for the VAC farm management

“Mr. Vu Viet Hoang had the opportunity to visit the smart farm models in other localities facilitated by Tam Duong district leadership . Applying the gained knowledge, he is currently building a closed VAC production model (4ha) according to VietGAP standard. He wishes can be able to use RT-Work for his farm management ”



EXPECTATION

2. Applying Rt-Work to Organic tea Company of Tam Duong for the traceability of tea products

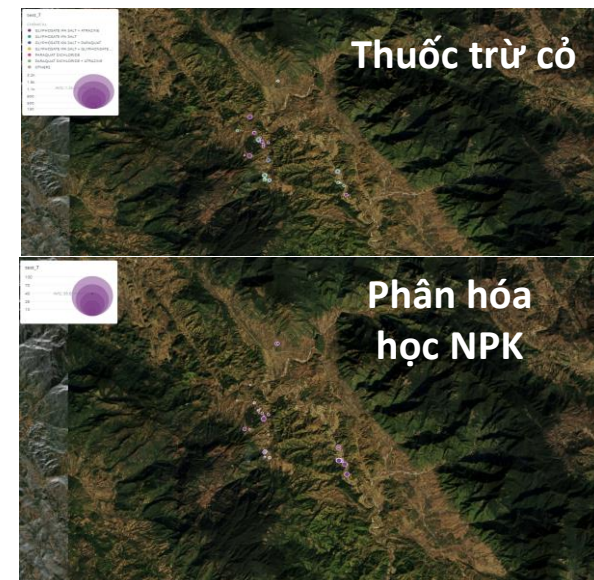
3. Improve efficiency in warning the negative impacts of pesticide use to the environment presented on the map form.

4. Good study site for students

5. Improving efficiency in management and planning of local production areas



@Can Truong, CISDOMA & Trung, RTA



@Dharani Dhar Burra, CIAT

**Thank you for your attention !
Many thanks to relating organizations**



**UBND THỊ TR
TAM ĐƯƠNG**

