

# Sat4Rice

G4AW Regional Workshop Bali

Nelen & Schuurmans



25-6-2019



## Introducing Sat4Rice

Provide smartphone advisory services to farmers and businesses, by using satellite data and IT solutions



# Sat4Rice



Cùng Nông dân phát triển bền vững



Nelen & Schuurmans



Netherlands  
**Space**  
Office

- › Mekong delta, Vietnam
- › Target: 50.000 rice farmers
- › Company: rice producer LTG



## Objectives of Sat4Rice project



**Improve the lives of rice farmers families,**

by provide better information, advices and support to the farmers,  
making use of new IT technologies and satellite data.



**Increase efficiency of work flows of rice miller,**

by improving logistics and use of resources for management,  
making use of IT to automate data collection and processing.

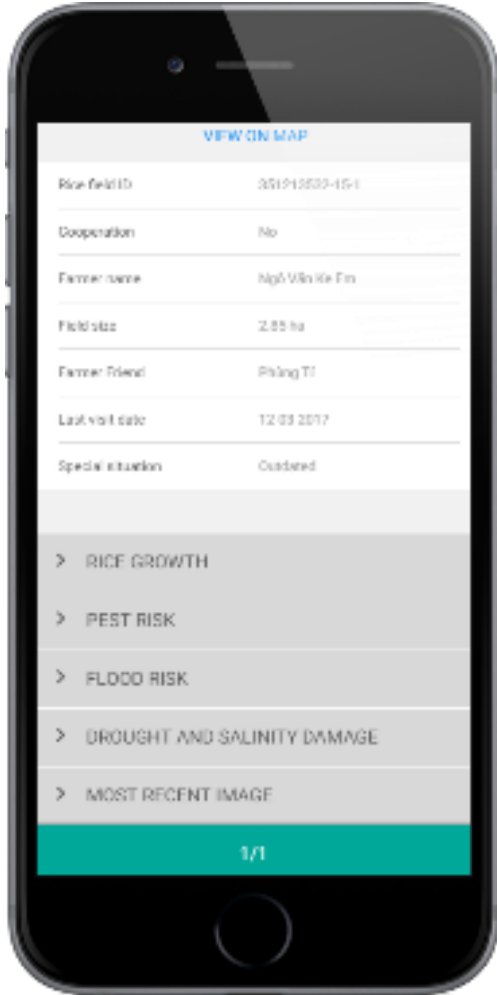
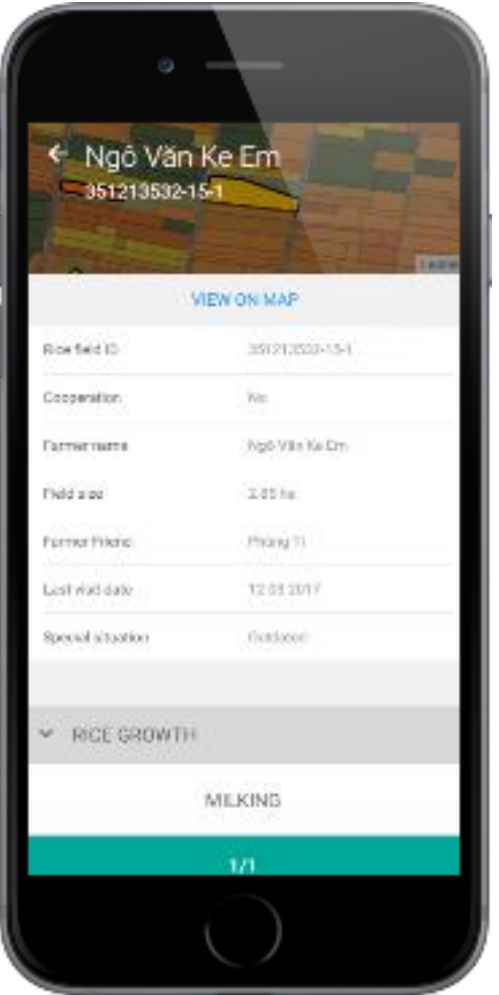
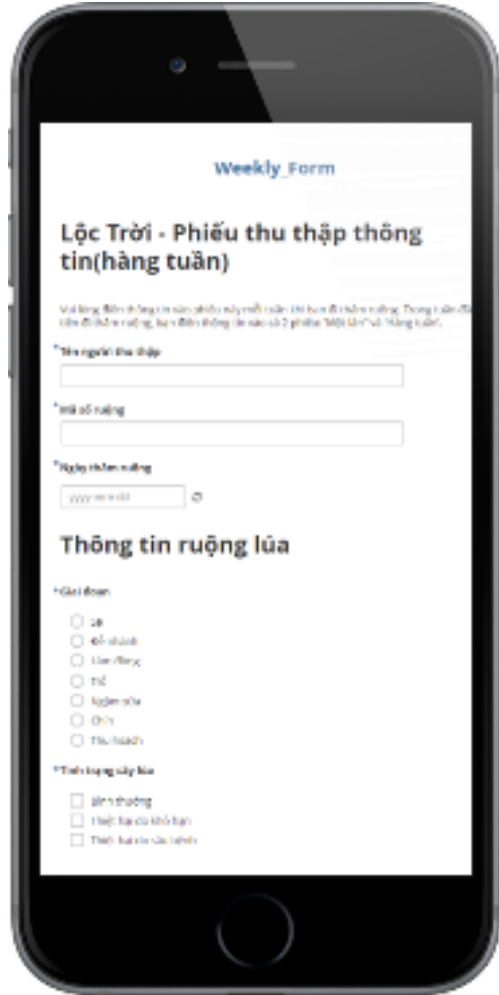




# Sat4Rice mobile web-app



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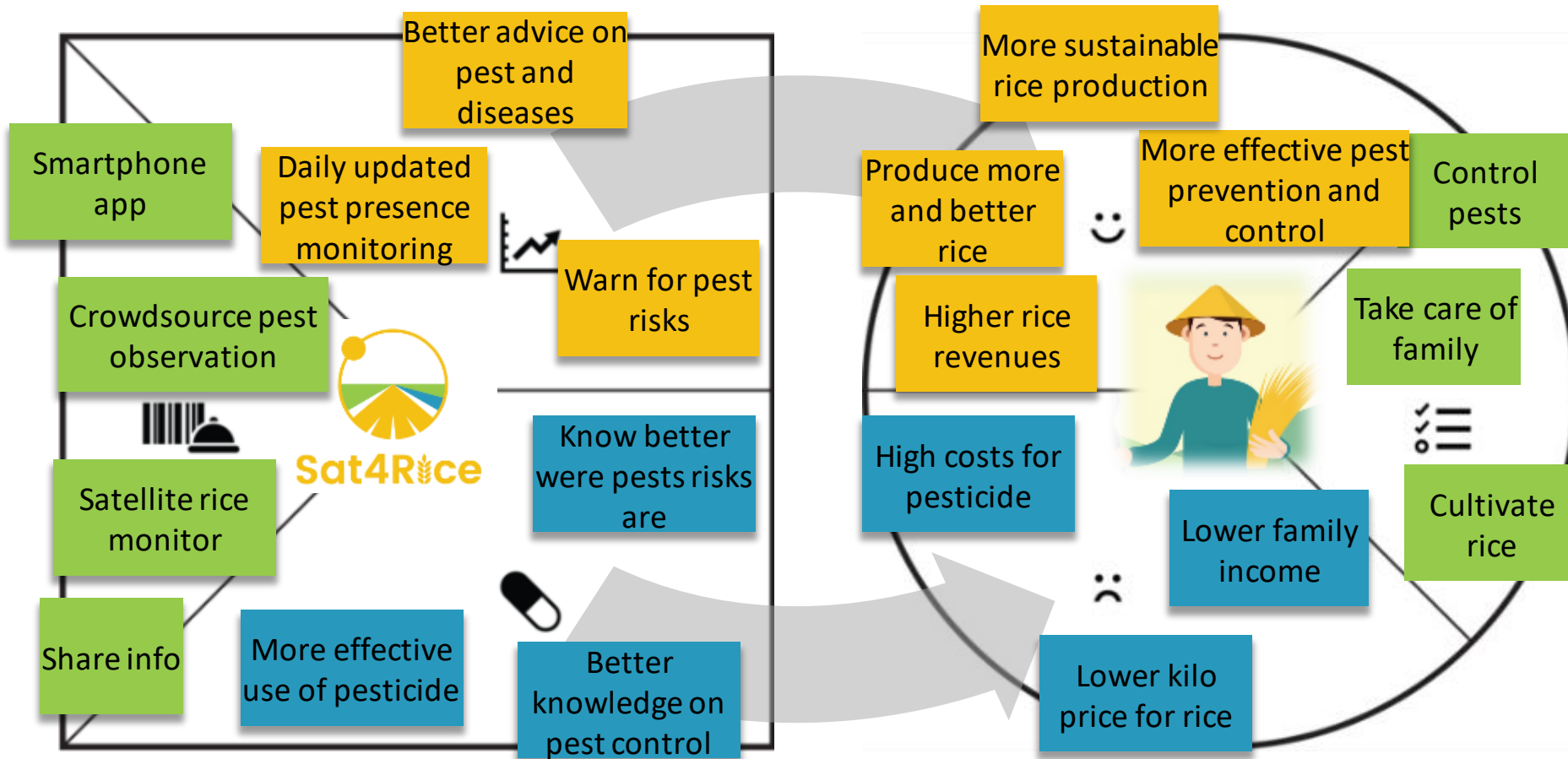




# Benefits for rice farmers



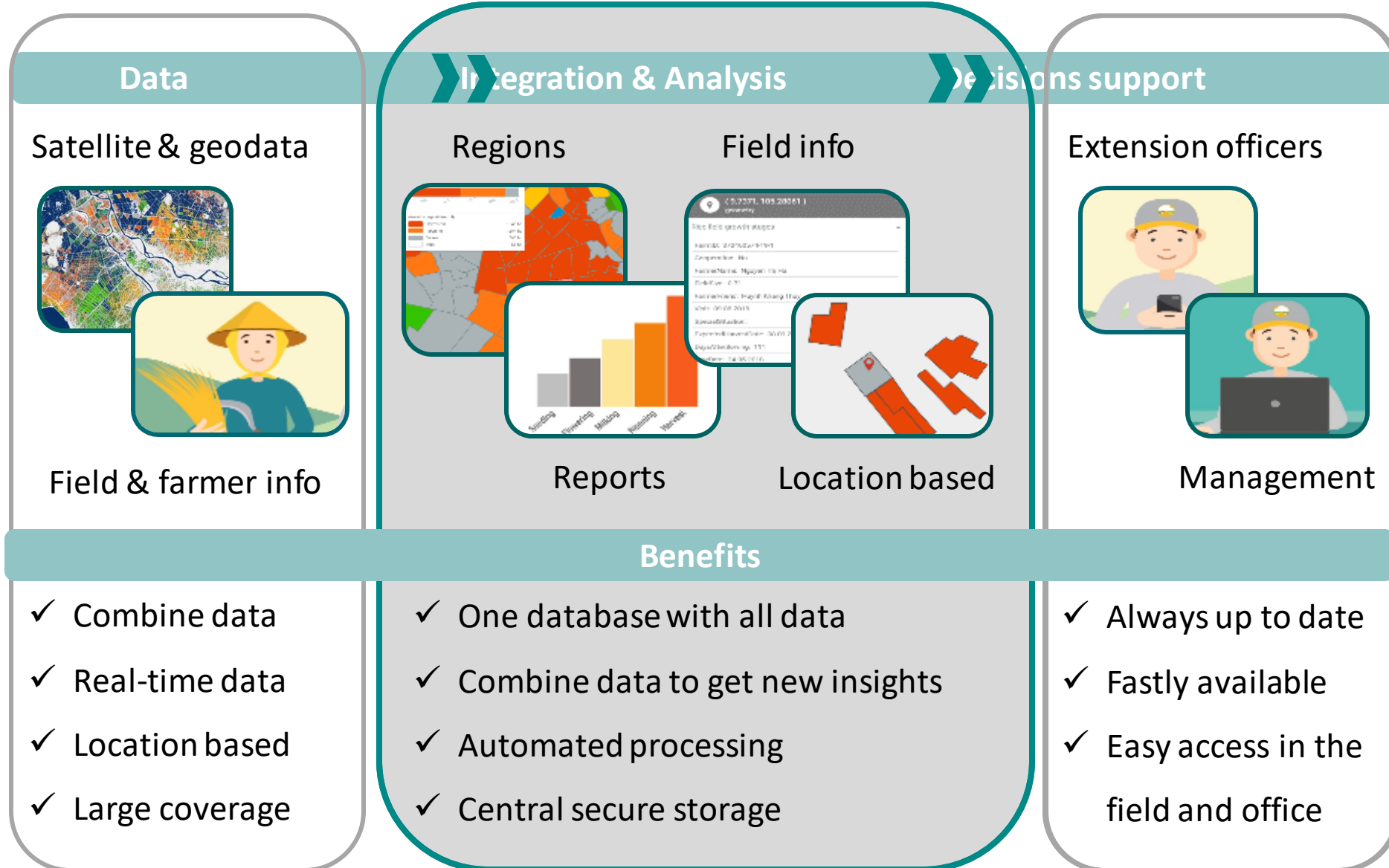
Sat4Rice







# How we setup the Sat4Rice information system

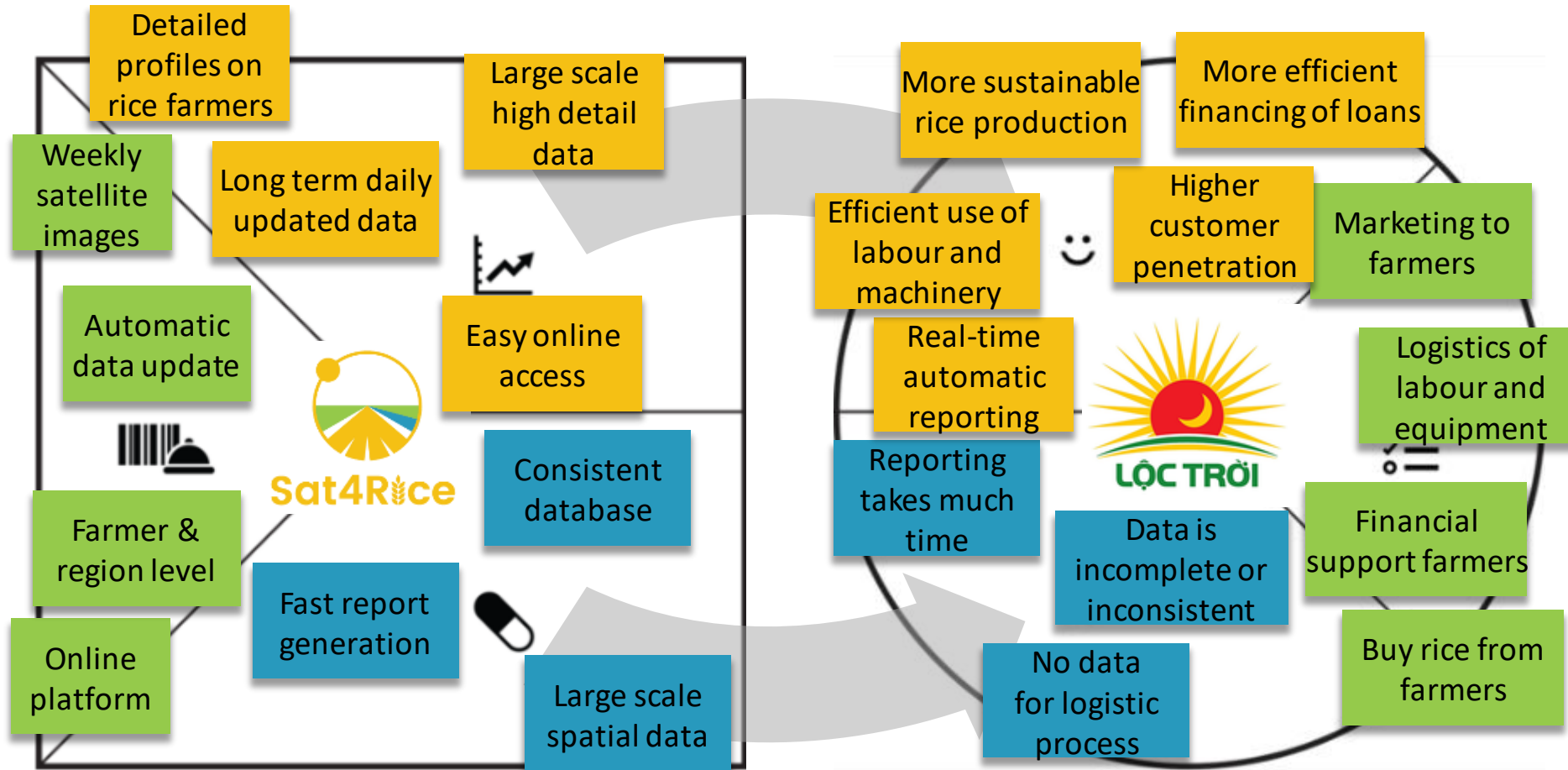




# Benefits for rice producer



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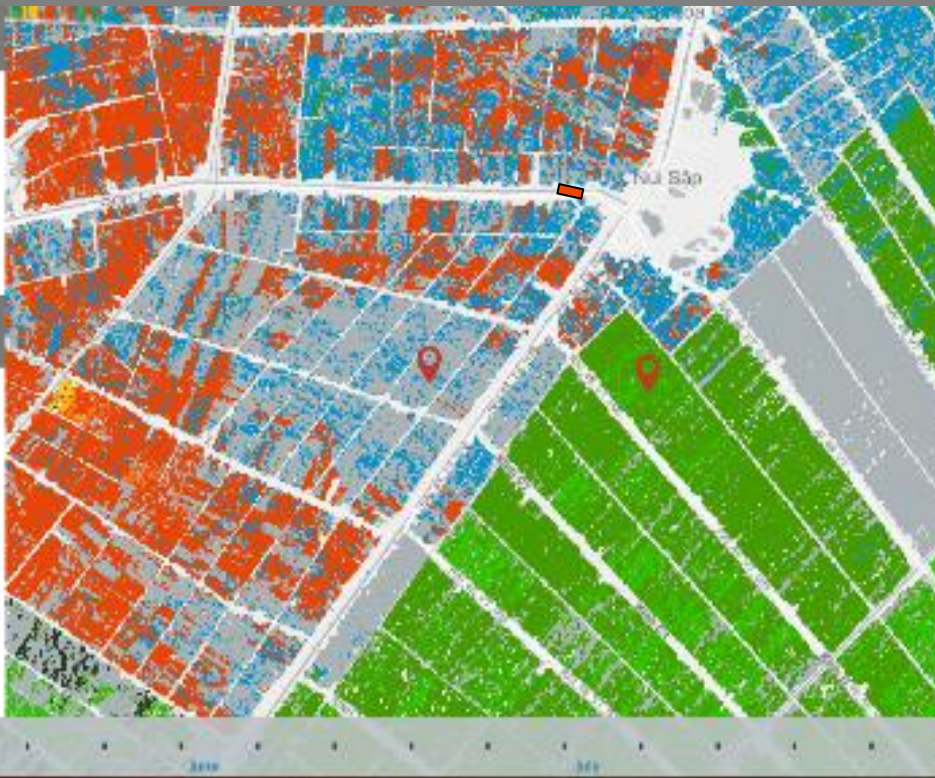
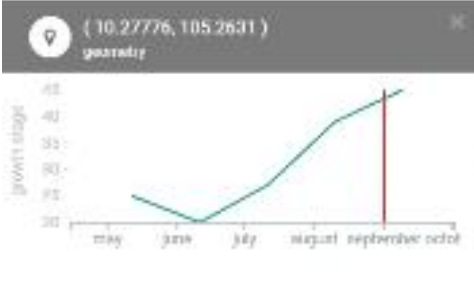
# Information analysis system

Rice growth monitoring and analyses in high detail.

Satellite data available every 6 days, with a resolution of 20 meter resolution, near real time, covering the whole Mekong Delta.

Details on: Farmers, rice growth, pest & disease and floods

Automate tools, and reports for direct access to important data.



Coordinates: (10.27945, 105.18911)  
geometry

### Rice field growth stages

FieldID: 880077060\_19\_1

Cooperation: No

FarmerName: Nguyễn Tuấn Cường

FieldSize: 8,76

FarmerPhone: Nguyễn Thành Vũ

Visit: 05-06-2018

SpecialSituation: Outdated Field survey conducted once

ExpectedHarvestDate:

DaysAfterSowing:

SowDate:

GrowthStage: Harvesting

PlantHeight: 0

CropCondition:

Variety: DM5451

LastSeasonField:

LastSeasonHarvestDate:

LastSeasonSowingDate:

LastSeasonVariety: DM5451

### Rice Growth Report

Report presents the status of the rice production as well as the growth of the rice field based on the growth stages of the rice field. The report is generated for the selected period.

Farmer: Nguyễn Tuấn Cường

Field: 880077060\_19\_1

Season: 2018-1

Field Size: 8,76

#### total rice area

Year	Area
2017-1	282
2018-1	278
2018-2	294
2019-1	282

#### Growth stages

Area	Harvested	Sowing	Germinating	Seedling	Young	Mid	Old
1	100	0	0	0	0	0	0
2	111	1	5	44	1	137	19
3	138	8	0	50	0	49	34
4	142	8	0	11	0	36	78
5	127	1	0	18	0	21	36
6	181	0	0	1	0	30	74
7	195	0	0	1	1	28	65
8	148	18	11	1	1	76	44
9	164	11	15	0	0	7	33
10	155	16	14	0	0	1	38
11	180	16	18	11	1	1	27
12	178	16	18	11	1	1	26
13	161	16	18	11	1	1	26
14	173	16	18	11	1	1	26
15	145	16	18	11	1	1	26
16	141	16	18	11	1	1	26
17	141	16	18	11	1	1	26
18	141	16	18	11	1	1	26
19	141	16	18	11	1	1	26
20	141	16	18	11	1	1	26





# Challenges & Solutions



3 challenges:

- › Project management & activity planning
- › Fitting the technological developments to the business case
- › Achieve high operational performance throughout the information chain





## Video



<https://youtube.com/watch?v=nppH86fNNw8>



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