**The Comparative Study of Youth-**Related Agriculture **Initiatives:** Optimizing the Role of Indonesian Youth in Improving **Food Security** 



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# Today's Presentation

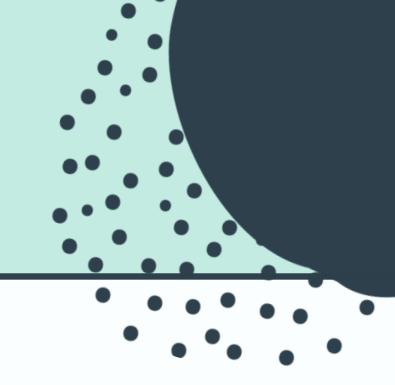
Challenges Opportunity Objective Method Results Discussion



# Definition



This study adopts the broad definition of agriculture: *the science, art, or practice of cultivating the soil, producing crops, and raising livestock and in varying degrees the preparation and marketing of the resulting products* [merriam-webster].



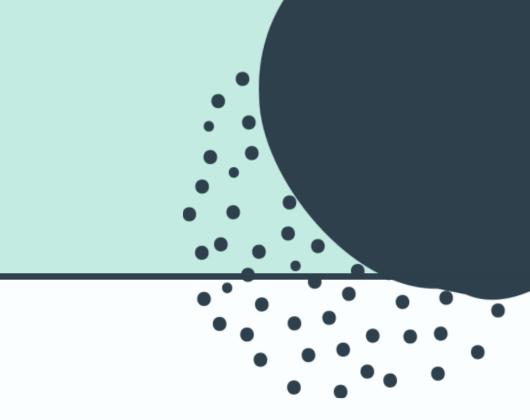
### Agriculture

# Challenges

# Farmers

Many people, including youth, associate agriculture as working as a field farmer only when in fact there are also agricultural engineer, food scientist, agronomist, conservation planner, water management specialist, or wetlands biologist.

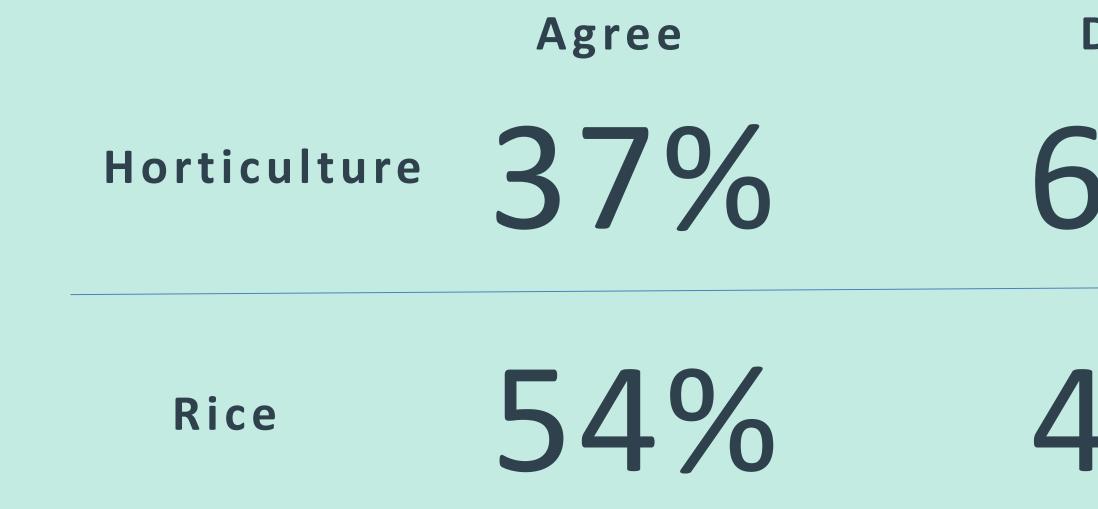
Indonesian youth aged < 25-34 working as a farmer.



# By 2018, only **4.5%**

--Inter-Census Agricultural Survey 2019

Will you continue your parents' occupation as farmers?



"For people like us with no land, there is no future in agriculture." – Hara, child of farmer.

# Disagree 63%

46%

Koalisi Rakyat untuk Kedaulatan Pangan (KRKP) Survey 2015

# Food Production

Indonesia's Food Security Index rose to 54.8 (2018). Yet, the food import level increased to nearly 10 million tonnes.

THE WORLD WOULD NEED TO PRODUCE 75% MORE FOOD TO FEED 10 BILLION OF PEOPLE BY 2050



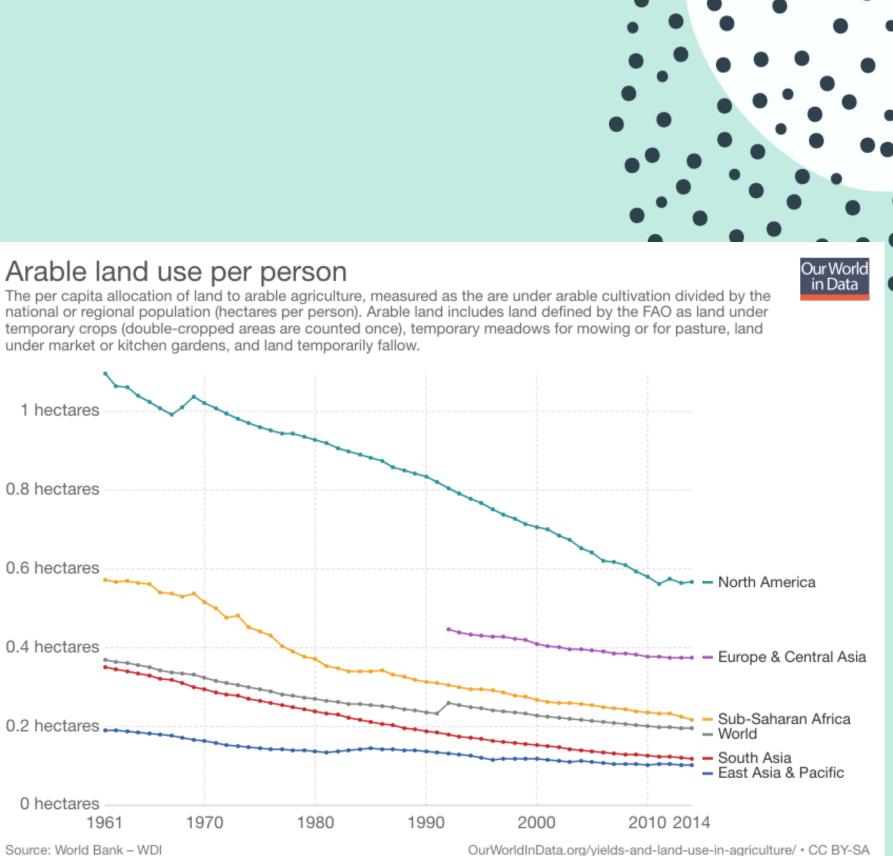
# Arable Land

On average, arable land per person is shrinking from 0.38 ha in 1970 to 0.23 ha in 2000, with a projected decline to 0.15 ha per person by 2050.

In Indonesia alone, the number has decreased from 0.2 Ha in 1961 to 0.09 in 2016.

Arable land use per person 1 hectares 0.8 hectares 0.6 hectares 0.4 hectares 0.2 hectares 0 hectares 1961 Source: World Bank - WDI

--FAO & World Bank



### In summary, humanity is in dire needs to solve the problem of:



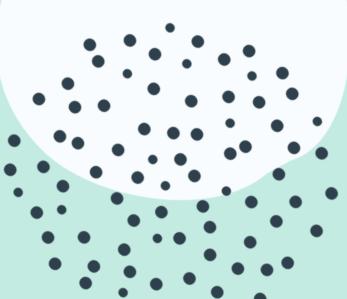
# Limited arable land

# Opportunity

### Available platforms for youth

There is a rising trend of initiatives which provide platforms for better access to agriculture sector.

In principle these efforts allow youth to acquire agriculture skills, from enabling land access for youth to exposing the agriculture sector to the digital world.





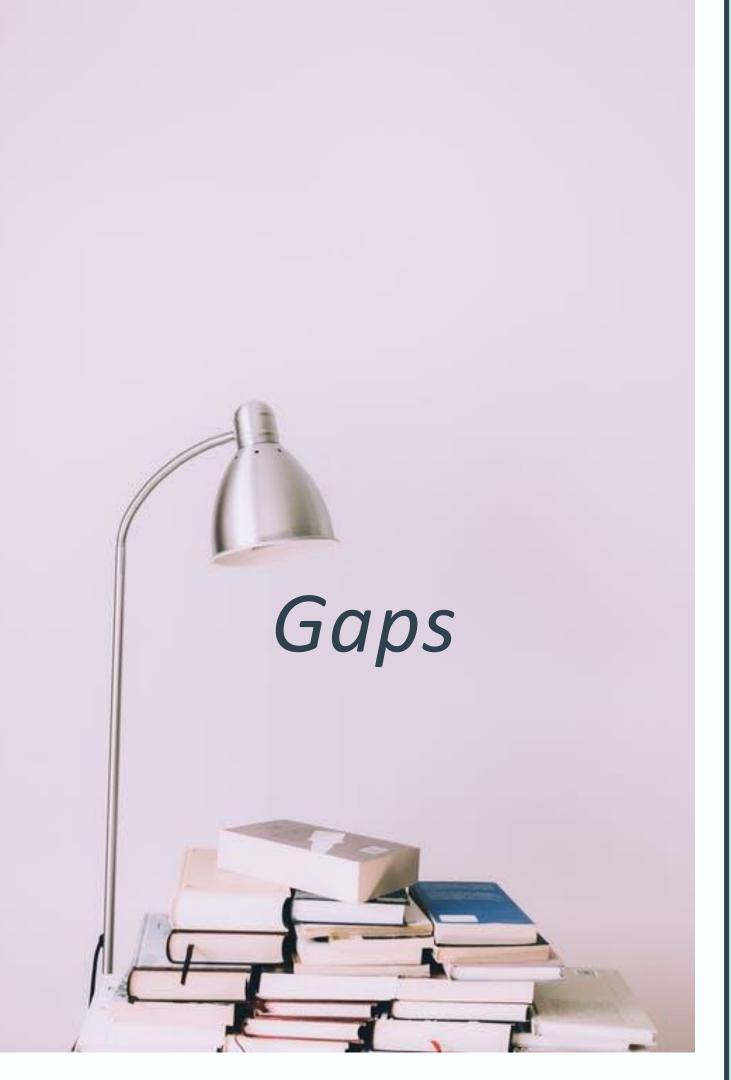
As a result, there is a new generation of young professionals that have the ideas and aspire to become successful entrepreneurs, farmers, tech-savvy, researchers and policy makers.

-- YPARD Report 2017

### but there are still many challenges

- Agriculture is not seen as a profitable career Difficulty in accessing suitable land Disconnect between education and
- ullet• Low market price
- practice
- Being excluded from decision making





agriculture in general.

Author	Title	Year
V. Ningrum & A. Wiratri	Youth and Sustainable Agriculture	2017
SH. Susilowati	Farmers Aging Phenomenon and Reduction in Young Labor: Its Implication for Agricultural Development	2016
Ambarwati et.al.	Youth and Agriculture in Indonesia	2015
S. Wiyono	KRKP Report: Farmers Regeneration Study	2015
Feighery et.al.	Intersections of Youth & Food Security	2011

### The existing research are mostly only identify youth interest to become a farmer, not working in



# **Objective & Method**

This study aims to compare and measure the impact of the program implementation of youth-related initiatives to accelerate youth participation in agriculture sector.

- - Α

### **Desk research**

- Stakeholder analysis
- Initiative analysis using the **four**
- pillars of food security as the main
- indicators

Availability	Accessibility	
Utilization	Stability	

# Result

	Government
Village Fu Reforma Agraria	
Kredit Usaha Ra Machineries Assistance	akyat
Conventional	
Indonesia Berkebun	CRO
IAAS Petani Muda	
Konsorsium KIARA Pembaruan Agraria	
CISDI	Community



### npita

### Crop Insurance

### PWMP

Polbangtan



Desa Apps

### **WDE**

Tanijoy

iGrow

### SayurBox

Regopantes

### Tanifund

Tanihub

### Stakeholder Analysis

### 

<b>Comparative A</b>				
Initiative	Availability	Accessibility	Utilization	Stability
Reforma Agraria	0	+	0	0
Village Fund	+	+	0	+
Crop Insurance	+	+	0	0
Polbangtan	0	0	0	+
Konsorsium Pembaruan Agraria	0	+	0	0
CISDI	0	+	+	+
Tanihub	0	+	0	0
Desa Apps	+	0	+	0

### Scale: (0) Not covered, (+) Covered

### **URBAN YOUTH**

Mainstreaming digital platform such as peerto-peer lending, local product promotion, and vertical farming.



## Discussion

Based on the result, this study categorize the existing initiatives into two large categories:



### **RURAL YOUTH**

Land access, crop insurance, and incentive for youth farmers in rural area.

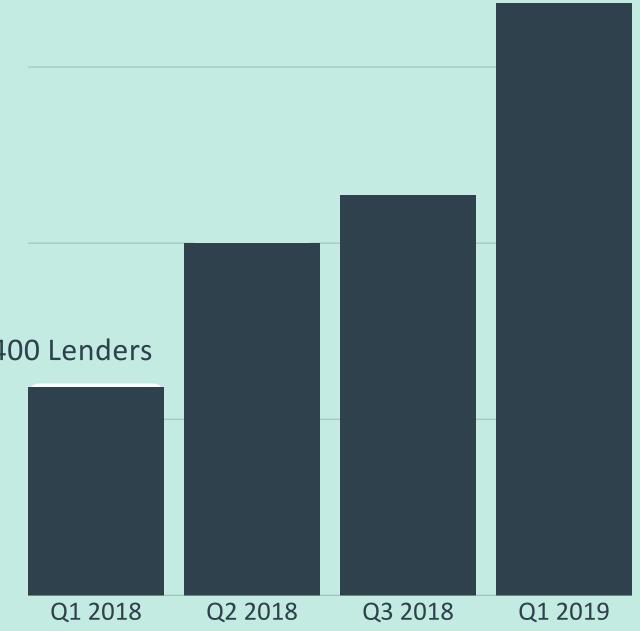
Promoting youth interest in investing in agriculture

### **70% OF P2P LENDERS IS AGED 19-34 WITH TOTAL INVESTMENT OF IDR 37 TRILLION**

--OJK & CNBC Indonesia, 2019



162.400 Lenders



### **NUMBER OF P2P LENDERS JAN 2018 - APRIL 2019**

456.352 Lenders

--Katadata 2019

### Enabling better life for rural youth farmers

### TECHNOLOGY

Digital platforms Mechanization Crop Intensification Supply chain efficiency

### FINANCE

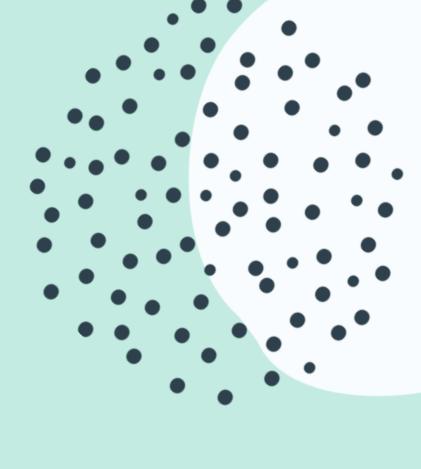
Land and capital access

Financial management

Fair pricing

CAPACITY BUILDING

Sustainable practice Education & training Business management



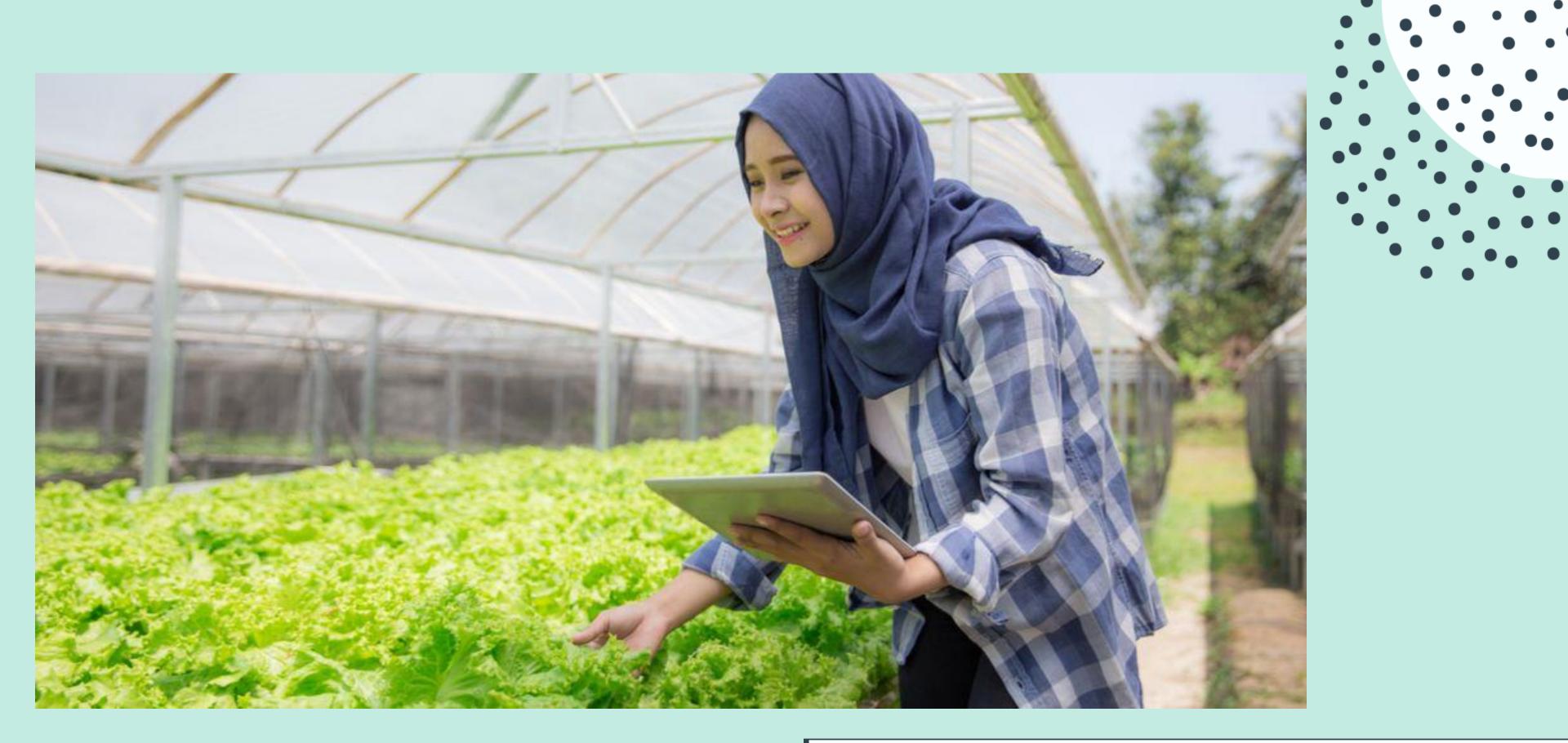
### GOVERNANCE

Incentive

Crop insurance

Market & distribution

Technical assistance Protection of local product



### Invest in youth to invest in farming to invest in the future!