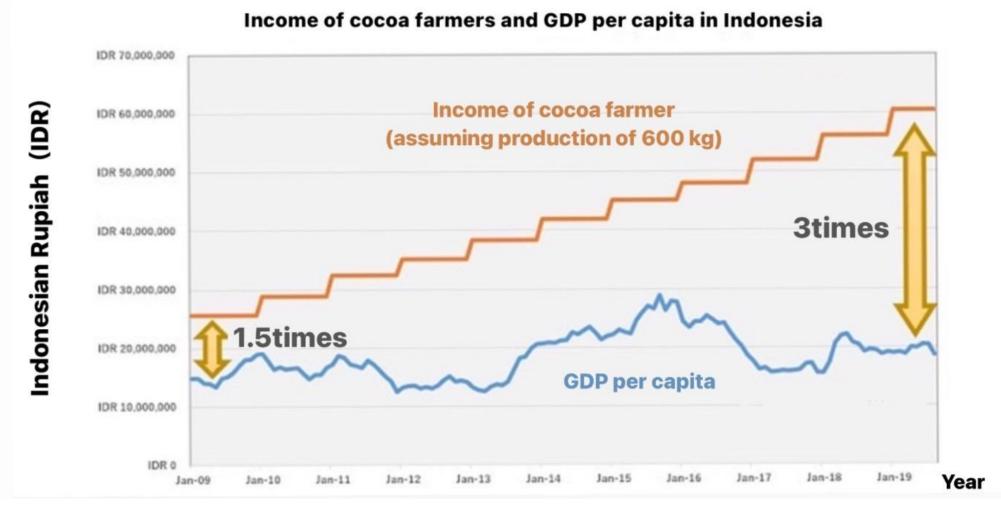
AURS November 27, 2021 **Creating New Cacao Markets** 61622 Mana KONO **Ritsumeikan University** Shiga Japan to Achieve Sustainable Cacao Production

Background

• Low wages for cacao growers → Decreasing number of cacao producers



Study 2 : New Market Development

- **Cacao Drink**
- > Can spend as little as possible on initial costs > Can be easily stored locally with minimal processing
- > No worry about melting



(Quoting from Dari K HP)

 Some excellent physiological effects X^1

 \rightarrow Low blood pressure, preventing arteriosclerosis, beauty effects, improving allergies, activating the brain, improving bowel movements, reduce the incidence of depression

- > However, almost no cacao consumption in cacao producing countries.
- > Moreover, cacao production is decreasing.

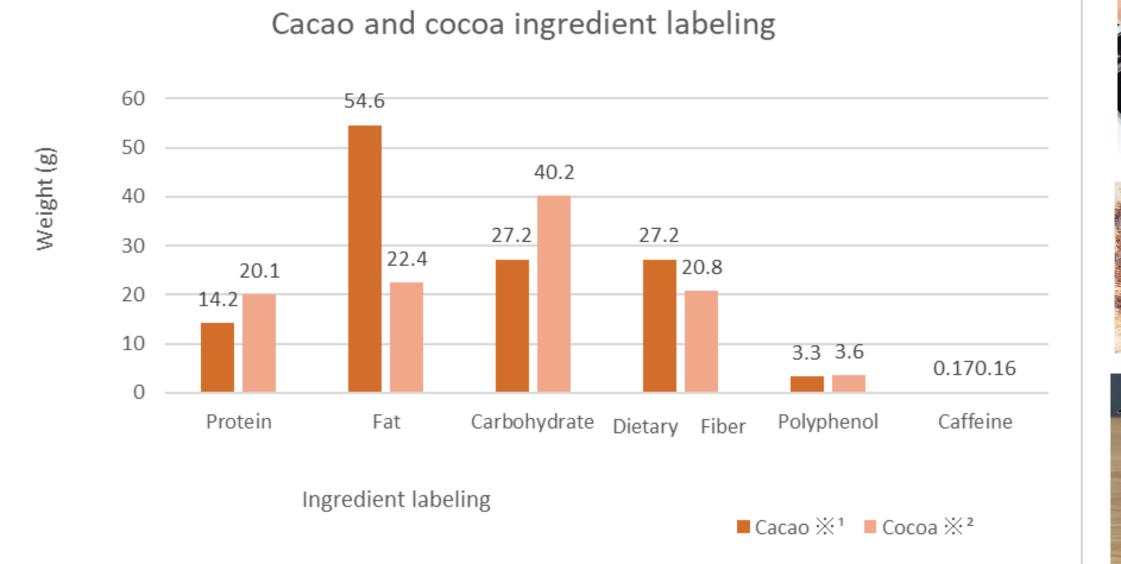
Purpose

[Ingredients] Cacao : Milk = 1 : 6 (Sugar) Tools Cacao grinder, Mixture, Hot pot How to make

1, Grind cacao beans 2, Add milk

3, Stir while warming

	Cacao X1	Cocoa X ²
Calories	657 kcal	360 kcal
Protein	14.2 g	20.1 g
Fat	54.6 g	22.4 g
Carbohydrate	27.2 g	40.2 g
Dietary Fiber	27.2 g	20.8 g
Polyphenol	3300 mg <i>≫</i> ³	3600 mg
Caffeine	0.17 g 💥 4	0.16 g ≫⁵









Examples of Cacao Use in Indonesia

- Create "new cacao markets"
- By growing and eating cacao themselves, farmers will become aware of appeal of cacao.
- Farmers themselves do the processing directly.
- > Hope that this will become a new source of income and solve the problems of cacao production.

Study 1 : Visiting cacao-producing regions

- Indonesia, Vietnam, Thailand, Australia
- Most of the Farmers never made chocolate \rightarrow The warm climate causes chocolate to melt, \rightarrow Not enough knowledge how to process cacao.







- Add Spices → Cacao Source
- Use condensed milk for regular milk [Cacao Syrup]
- No grinding, add Sugar and Spices →Boil
- Perfect for Indonesia, who prefer sweet drinks





How to make it locally

- No Electricity and Gas
- Anyone can make it in any place.

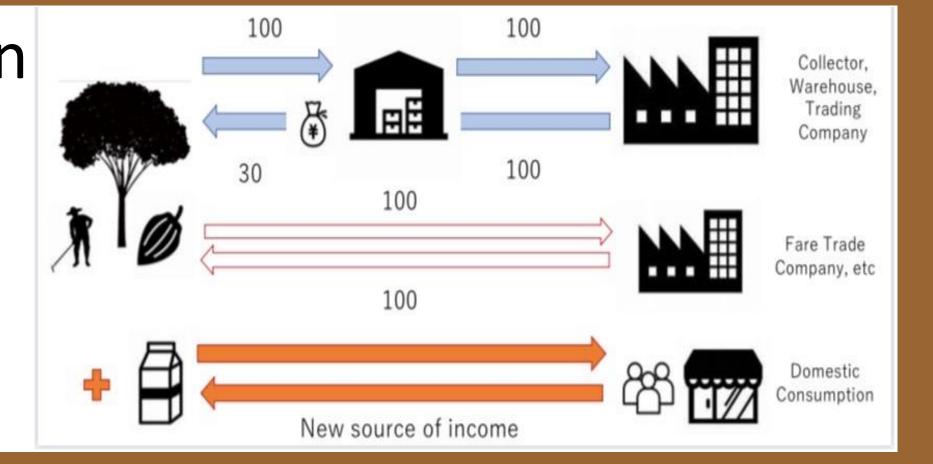


[Grinder] Millstone or Stone plate, Stone stick



A Sustainable System

- Prevent middleman exploitation
- Encourage cacao farmers to become independent



(Just like grinding coffee beans or pepper) [Mixture] Whisk, Pot (Mexican Method)

Conclusion

- First, I want farmers to realize that they can make such delicious products from cacao.
- Clarify the physiological functions of cacao drink and energize farmers.

Reference

 X^1 <u>https://www.meiji.co.jp/chocohealthlife/efficacy/</u>, Is there a relationship between chocolate consumption and symptoms of depression? (Quoting from : October 2019, Wiey, depression suicidality and health) 🛛 💥 Per 100g, 💥 Values vary by region and growing year https://tomiz.com/item/00199702, X² https://www.morinaga.co.jp/sp/products/detail.php?id=PRD2009-08-0159, X³ Dari K 's results of a survey, X⁴ <u>https://www.lifecollection.co.jp/c/gr23/gd58</u>, X⁵ https://www.kataoka.com/enjoy/library/cocoa/about.html