

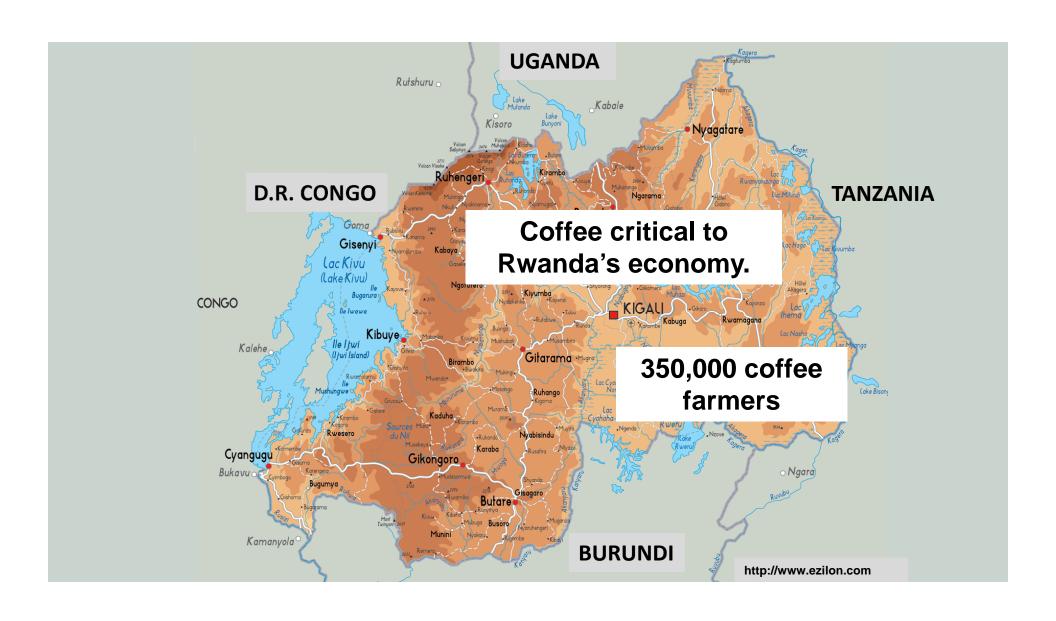
Re:Co Symposium, Seattle, April 19, 2017

**Empowering Evidence: What Motivates Farmers to Invest in Coffee in Rwanda?** 

Ruth Ann Church
Michigan State University

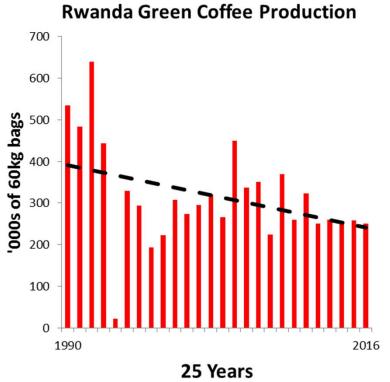


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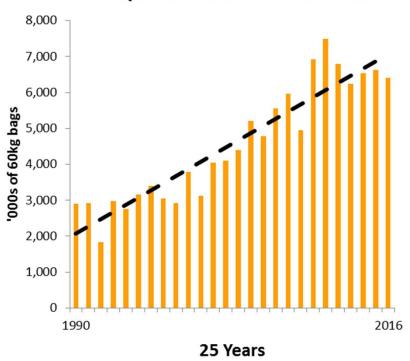


#### 25 Year Decline





#### **Ethiopia Green Coffee Production**



Source: International Coffee Organization (ICO)

# Potato Taste Defect (PTD)



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M! [7]1 Sample Slide - of full image covering entire slide, change in font and colour - provides great visual impact (please do not use this as unsure of license - example of aesthetic only)

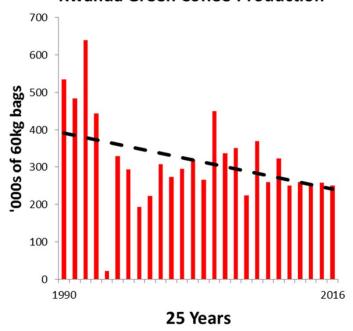
Matt !, 4/14/2017

M!1 This image I pulled from Google appears to be the SAME image you originally used, just better quality - where did you get that image from? If you have the permissions to use then go great!

Matt!, 4/15/2017

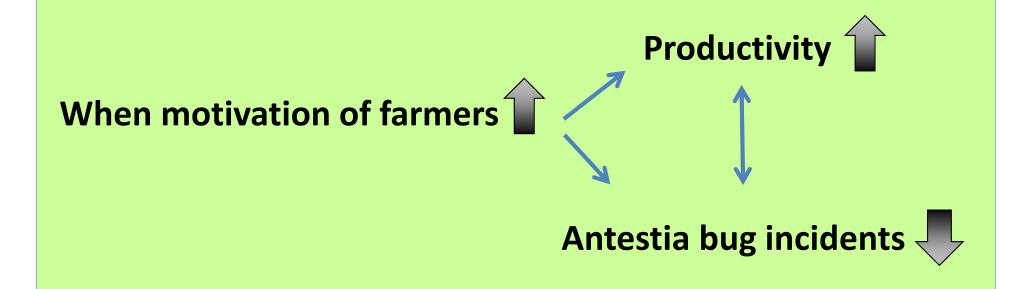
# Challenges

#### **Rwanda Green Coffee Production**





# **First Hypothesis**



# **Second Hypothesis**



Policy = Farmer Investment = Productivity





#### **Finding Root Causes: Fieldwork**



#### Field Work → Dialogue With Stakeholders





# **Empirical Evidence**

#### 177 RWF/Kg cherry

~ \$.10/lb cherry



1. Household Labor



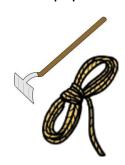
Wage Labor



3. Purchased Inputs (e.g. fertilizer)



4. Purchased Equip.

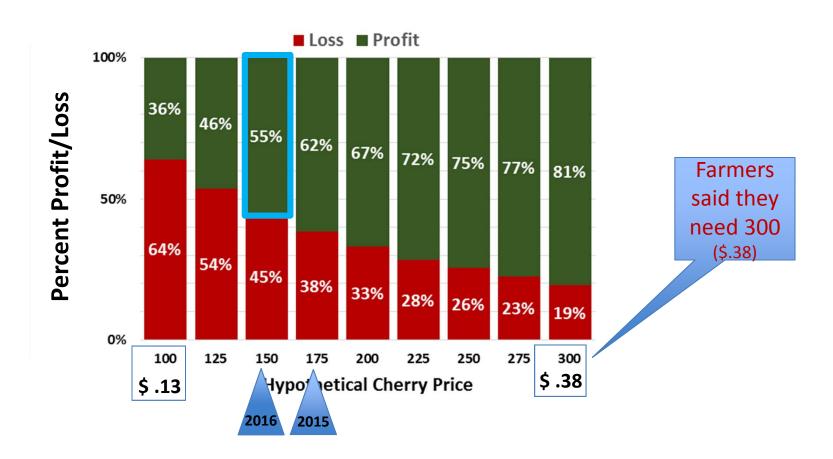


#### **Cost of Production by Number of Trees**



**Number of Trees on Farm** 

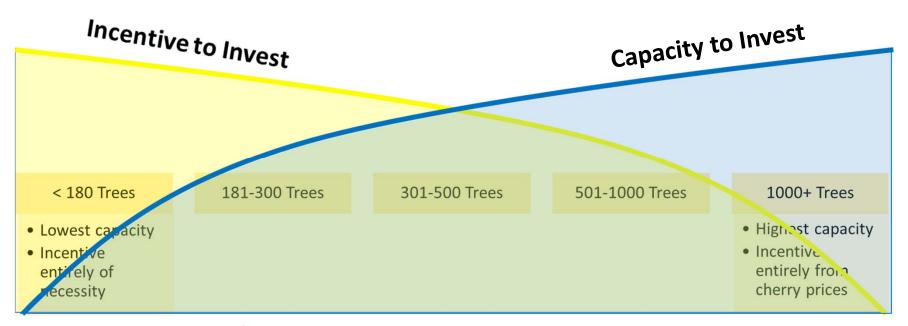
#### 1st Model - Profit/Loss



# **Further Analysis**

#### 2<sup>nd</sup> Model – Capacity vs. Incentives

Low cherry price scenario



Yield = 2.17kg cherry/tree

Yield = 1.08kg cherry/tree

#### **Evariste Habimana –**

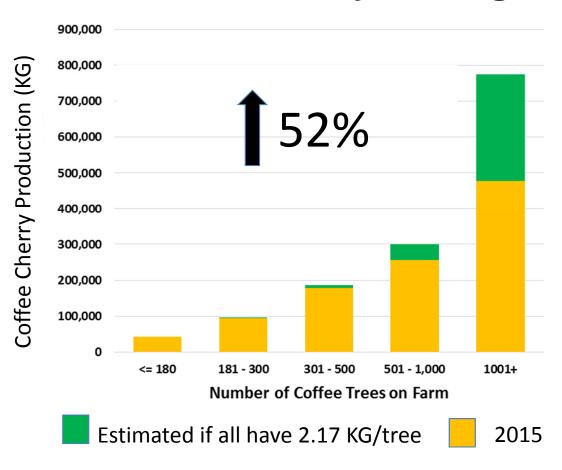


## **7,500** trees



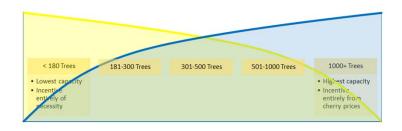
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#### 3<sup>rd</sup> Model –Productivity of Large Farms

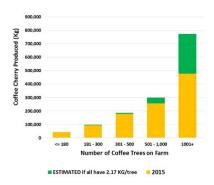


 Losses at Hypothetical Prices

2. Farmer Typology – Incentives vs. Capacity



# 3. Importance of Large Farms







Similar finding: raise prices to improve farmer profitability

# What about the people who buy cherry?

# Today, we're mostly only paying the floor price...

# What happened?



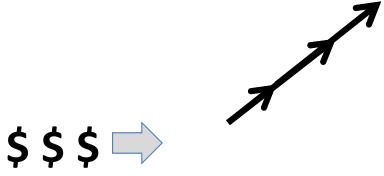
# **Challenges**

# 

25 Years



# **Solutions**





## Take-Aways

Check the incentives.

Invest in an evidence-based dialogue with stakeholders.

Coffee – an attractive business for everyone.





This publication/presentation/study/activity is made possible by the generous support of the American people through the United States Agency for International Development (USAID) under the Feed the Future initiative, name of the project, grant No. AID-OAA-LA-15-00006.

# Collaboration



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