



# *Gender and social dimensions of pest and disease control: a call for collaboration*

**Nozomi Kawarazuka (CIP), Vishnumurthy Chadag (WorldFish), Zoe Campbell (ILRI), Anne Rietveld (Alliance of Bioversity and CIAT), Béla Teeken (IITA), Steven Cole (IITA)**

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UNLEASHING THE POTENTIAL  
OF PLANT HEALTH



RESEARCH  
PROGRAM ON  
Roots, Tubers  
and Bananas

In celebration of



INTERNATIONAL YEAR OF  
PLANT HEALTH

2020

# Gender and social dimensions of pest and disease control: a call for collaboration

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# Call for collaboration to biophysical scientists

Most constraints can be managed by using already existing technologies and best agronomy/husbandry practices. The challenge is how to apply it in the field with varied social and cultural contexts.

Failure to address gender and social norms runs risks of farmers rejecting your technologies, and/or your technologies are not reaching to targeted social groups.

Collaboration between social and biophysical scientists is essential.

Campbell et al. (2021). Prioritizing smallholder animal health needs in East Africa, West Africa, and South Asia using three approaches: Literature review, expert workshops, and practitioner surveys. *Prev. Vet. Med.* 189, 105279. <https://doi.org/10.1016/j.prevetmed.2021.105279>

Kawarazuka et al. (2020). A gender perspective on pest and disease management from the cases of roots, tubers and bananas in Asia and sub-Saharan Africa. *Frontiers in Agronomy*, 2, 7. <https://doi.org/10.3389/fagro.2020.00007>

# Challenges

## A distance between social and biophysical scientists

Mr. Rooted,  
please come  
here to discuss.



**Ms. Gender Person**

You should  
come here.



**Mr. Biophysical Tree Rooted**

Fear Languages Epistemological differences Distrust  
Full of barriers



## ILRI veterinarian Herry Kiara talks about gender

Gender? No.  
First, I was not  
convinced at all.

Just made a list of  
women  
participants for  
the donor.

What really changed  
my mindset was a  
study on adoption of  
vaccine.



Gender in livestock development: Herry Kiara

163 views • Mar 6, 2019

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<https://www.youtube.com/watch?v=Pmv0GHk0xvs> (English)

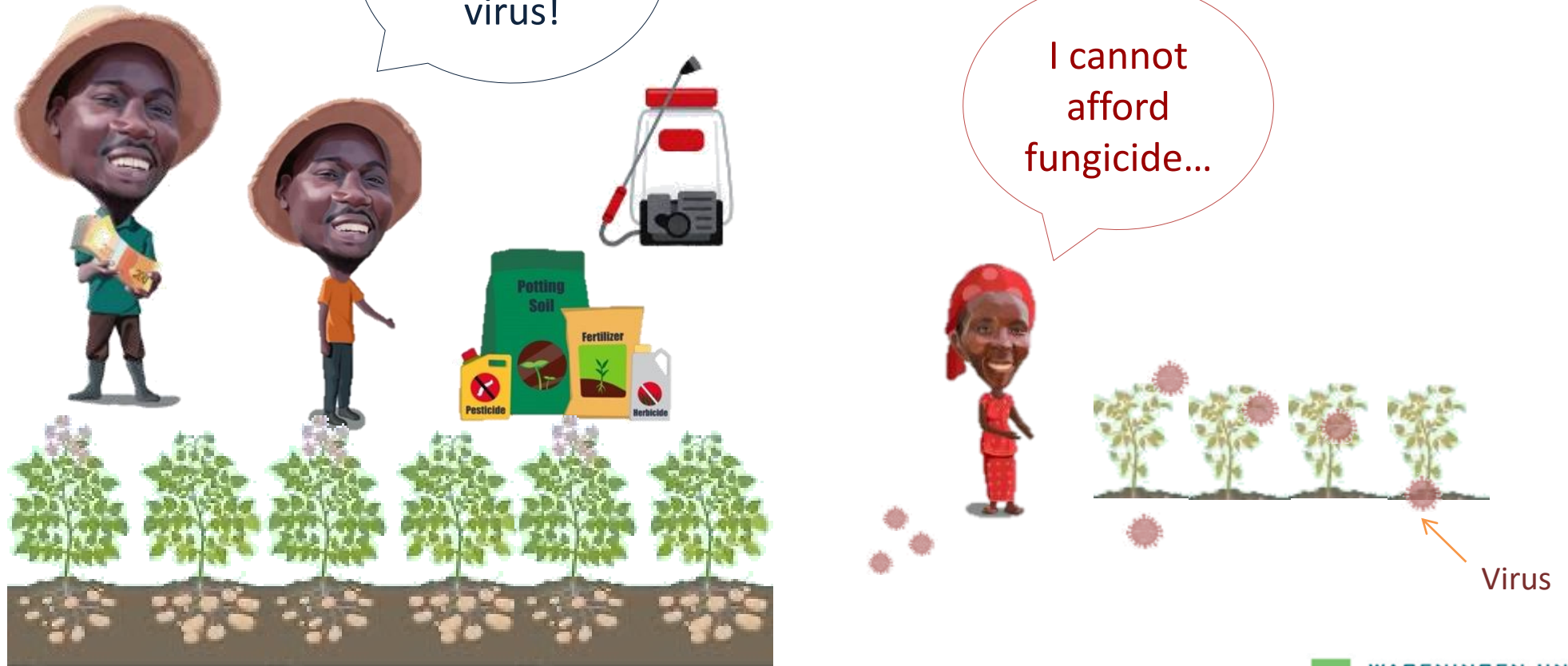
<https://www.youtube.com/watch?v=DOVOKkVRc3Q> (French)

# Case 1: Gender matters in collective action in a community

Those who do not follow the rules should pay fine!

You are spreading virus!

I cannot afford fungicide...



## Case 2: Gender matters in banana disease management

My husband's bananas are sick. My beans are fine....



I learnt that I should cut the stem.



Please look after my bananas. I go to work.



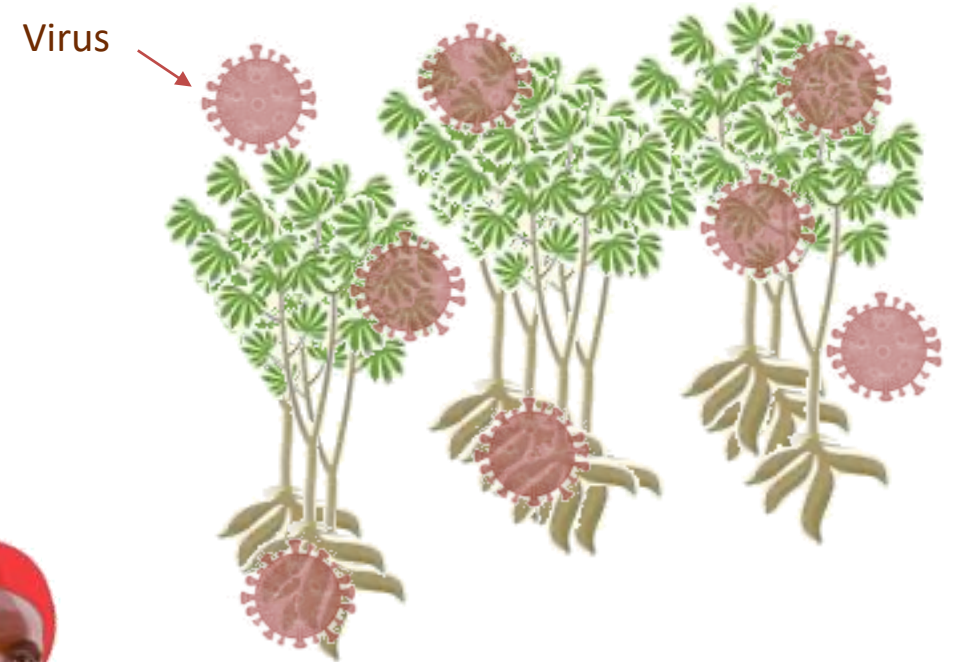
migration

## Case 3: Breeders' best choice may be rejected by women

This is the best disease tolerant variety! You should replace this with your variety. Yield is also high.



No thanks. Yours is not suitable for processing.





# Case 4: Early collaboration makes a big difference



Overuse of antibiotics



Salmonella

We haven't developed a product yet.

Let's do research first to understand farmers' needs



Ms. Lab



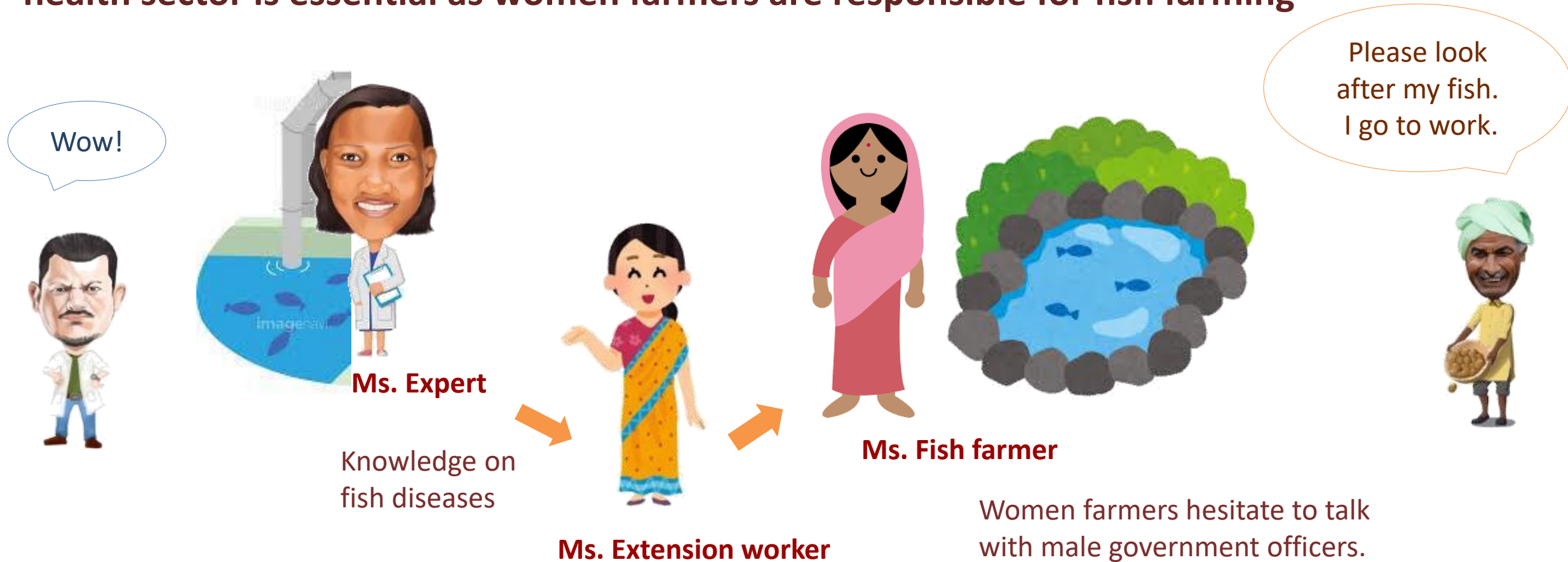
Ms. Gender

Alternative biocontrol technology

(bacteriophages)

"Phage project" funded by IDRC

# Case 5: Involving women experts and extension workers in this male-dominated fish health sector is essential as women farmers are responsible for fish farming



# Frequently Asked Questions: Gender and pest and disease management



Kiswahili



Luganda



French



Vietnamese



Georgian



Spanish

Frequent questions	Gender-responsive questions
Respondent's gender <input type="checkbox"/> Male <input type="checkbox"/> Female	Respondent's gender and type of household: <input type="checkbox"/> Male in a male-headed household <input type="checkbox"/> Male in a female-headed household <input type="checkbox"/> Female in a male-headed household <input type="checkbox"/> Female in a female-headed household <input type="checkbox"/> Others ( )
Who is the household decision-maker in agricultural production? <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Both	Who decides how much to invest in pesticide application? <input type="checkbox"/> Mostly husband <input type="checkbox"/> More husband than wife <input type="checkbox"/> More wife than husband <input type="checkbox"/> Mostly wife <input type="checkbox"/> Other family members ( )
Who is in charge of pest and disease control? <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Both	Who purchases the pesticide? Who sprays the pesticide? Who is in charge of weeding? Who washes the clothes? <input type="checkbox"/> Mostly husband <input type="checkbox"/> More husband than wife <input type="checkbox"/> More wife than husband <input type="checkbox"/> Mostly wife <input type="checkbox"/> Other family members

<https://cgspace.cgiar.org/handle/10568/108969>

# Potential areas for collaboration towards One CGIAR

## Co-design innovations and interventions

Not adding gender as an afterthought

Good example: ILRI “Phage project” funded by IDRC

## Gender disaggregated data collection and analysis

To identify gender gaps and assess impacts of technologies on men and women

## A platform to facilitate interactions

Interactions to share interdisciplinary experiences and lessons learnt

## The concept of One health

Multidisciplinary collaboration in human health, animal health and environmental health

Lessons learnt from experiences of gender and social research in one health

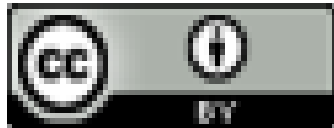




# More

Kawarazuka, N.; Damtew, E.; Mayanja, S.; Okonya, J.S.; Rietveld, A.M.; Slavchevska, V.; Teeken; B. (2020). Considering gender in pest and disease management: FAQs for gender-responsive data collection and extension work. Lima, Peru: International Potato Center.

<https://hdl.handle.net/10568/108969>



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