## Food Safety and Informal Markets: Animal Products in Sub-Saharan Africa

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## Large burdens of agriculture on human health

WHO 2012:

### 56 million deaths per year

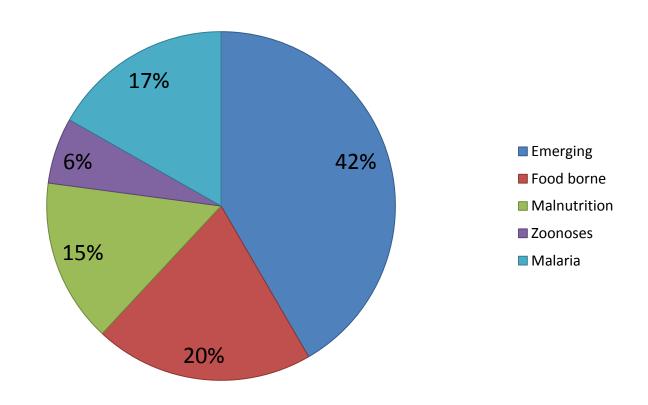
38 million from non-communicable diseases

13 million from communicable diseases, maternal, neonatal and nutritional conditions

5 million from injuries

3 mio deaths per year are associated with agriculture

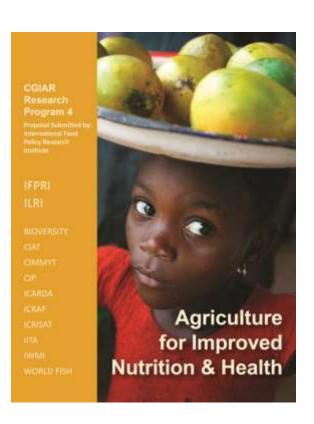
## Large burdens of agriculture on human health



### **Anti-poor:**

Almost all of these occur in developing countries Zoonoses & FBD cost \$84 billion a year





### 4 components

- Value chains for enhanced nutrition
- Biofortification
- Integrated agriculture, nutrition and health programs and policies
- Prevention and control of agricultureassociated diseases
  - Emerging infectious diseases
  - Neglected zoonoses
  - Ecohealth/ OneHealth
  - Food borne diseases

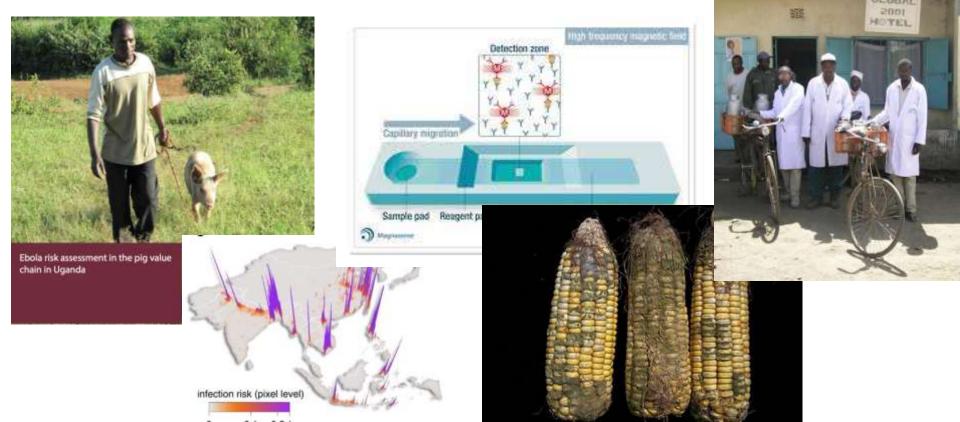
http://www.a4nh.cgiar.org/

http://aghealth.wordpress.com/

### Approach ILRI FSZ program

- Evidence: Mapping, measuring, targeting
- Technology: diagnostics, vaccines, decision support

Impact: Safe food in informal markets



### FOOD SAFETY AND INFORMAL MARKETS

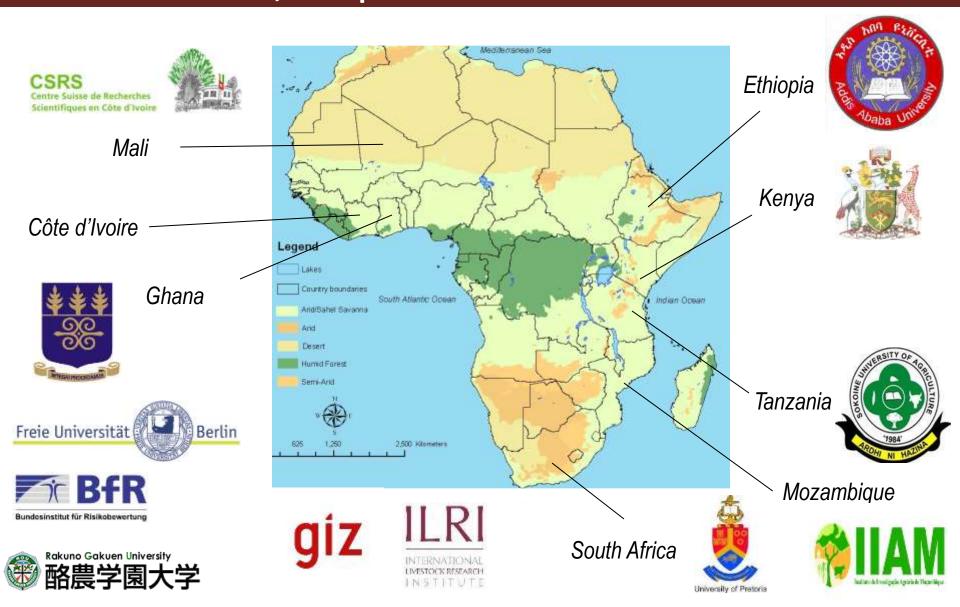
Animal products in sub-Saharan Africa



Edited by Kristina Roesel and Delia Grace



# ILRI/BMZ "Safe Food, Fair Food" project 8 countries, 10 partners



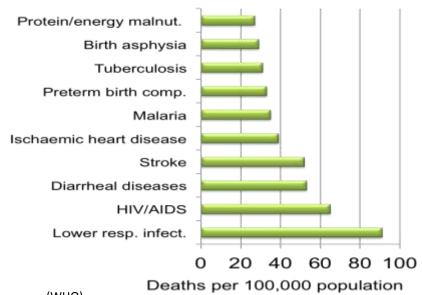
### Food safety in sub-Saharan Africa

- World wide per year>2 billion cases of diarrhea
- 760,000 children <5 die of diarrhea/ year</li>
- Causes mostly water- and foodborne disease
- Animal source foods are single most important source of food borne disease
- In sub-Saharan Africa >80% of animal source foods sold through informal markets





Top 10 causes of death in low income countries (2012)



(WHO)

# 1. INFORMAL MARKETS major role in food security and safety

- Accessible, affordable and highly preferred
- < 39% of the national GDP</li>
- Involve many actors
- No taxation, no licensing, no inspection
- Prone to activities that may compromise safety
- Perceived to be unsafe























# 2. HAZARDS are common but don't always translate into RISK

- Hazards = any agent that can cause harm
- Risk = probability of that harm to occur + consequences
- Food safety management in developing countries is hazard-based and therefore inefficient





Pork chopped usely for preparation. Kampala Capital City Authority team has found that most pork abbettoin assessed the city do not meet the required standards, putting the health of many people at risk, rism to surven.

## Most pork in Kampala is unsafe - health experts

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> SV ROBBET MWANT inversible partition to be be-

HAMPALA Majority of purk suppilled in Kampala for human con-Sufretionis contaminated the Karapala Cepital City Authority public figurity department has warned.

Or Emilia Ahimbishove, the KCCA octant volunteery officer, said the peck sold in the city is socreasingly becoming risky for human consumption, citing the reported ambycowir vature in which mest is being slaugteened, manaported and prepared

"A big percentage of pury slaughtered in Kempala are not deared for human consumption," Dr Ahlesbistowe told counsilists in Kongelaspatierday,

He warried that have purk convamers face the danger of contractme eptiepsy or running mad among

The city is littered with illegal purk abetients in vacious saburbs. including Asambya- Kamwanni fone, Kinawataleka amil Wambieza in Lubaga Division," Scientifi.

Dr Ahlimhinibwe said pork contains tape worms which couse. epilepsy when consumed without excellent preparation and warned consumers against feasting on mest which is not thoroughly epoked.

INSPROVED PROVIDE

The percentage of indepts that KCCA says it gits to lespect, of the 200 saughtered sale.

"We are drafting new laws to guide butchery attendants and swimai transportation to and this food insecurity in the city," be said.

Pork is a delicacy enjoyed by a vast number of people who putchase that meat at different pork joints around

In 2008, a government-health fearn raided and closed five popular pork journs in Kampela's suburbs, arresting 14 owners in the meles.

The fearn of 20 officials who in cloded policemen, city authority law enforcement personnel and inspectors from the Ministry of Agriculture midded perk loints in Naumbya. Makindye and Luzira.

A dozen pigs were carried away and more than 200 kilogranuses of fresh pork impounded.

Meanwhile, as many as 800 cours are sinughtered every day in Rampale and unlike park, boof is usually contaminated at the different shotfairs due to poor hysiene.

### Mwondha case: Lawyers plan to meet on June 29

WESTERN PRESENTED Daily Monitor

processors was

BY SECRETARIAN

KAMPALA LANGER IN a clear pr was former in Fath Managha turn Montay Palestanes and allogal detacation, pesterlar informed over that they now recharged the terrosary three says. they overed to pely on daffing the

Mr. James Star garde, Mr. George Ourselyologi and Ma Mescadia made the revelation to the prior ing High Grant Indias, Mr Klos Managarya, on the progress. the task.

"My Lord, we have us for a changed proposed achebal potes. We are yet to humour both yesitlery. I need to show a client (Mwondha) duramoute got from Mr Naugania cortes? (Monday), Mr Ground-Lorent

Mr Nangwala in response usid does not object to any docume given to him, before saying beonly cross counting on them.

The judge set June 29 to h the two parties sect out any o tentious issues before they not a hearing date.

Core to this case is that Mwoodhs allegedly carned a my meant for judges become was higher while at the same taking allowerse as 166 been was higher them that of judge Ms Morandha dersies 40

neegations. Earlier, Mr Nacuprola eyel to Justice Moungarya that s to a case of defamotion, the be fewer issum to seet our prod meeting scheduled to

Mr. Nangweds said the p tion-does not deay put the two articles in contents added that the articles into ten out of qualified privile involves some purliment ments and that the accimade were a fair comment.

### SECREMO JUSTIO

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By Hope Muhairwe

AMPALA CAPITAL City Author-Ity has opened a fresh war on pork joints claiming that most of them are dirty and operate illegally. · All pork supplied in Kampala for human consumption is contaminated, KCCA public health department said, threatening to close all pork joints around the city. Economy Watch spoke to some abattoir owners in different parts of the city and this is what they said; ... "We are so frustrated over this warning because this has

put our business at risk since being the job that helps us earn income. Butchers said they make awesome profits from the business ranging from Shs8,000 a kilo. Emilia Ahimbisibwe, a KCCA Senior Veterinary Officer said that pork sold in the city is increasingly becoming risky for human consumption, citing the reported unhygienic nature in which meat is being slaughtered and prepared.

\*A big percentage of pigs slaughtered in Kampala are not cleared for human consumption," Ahimbisibwe said. He threatened that loyal pork consumers face

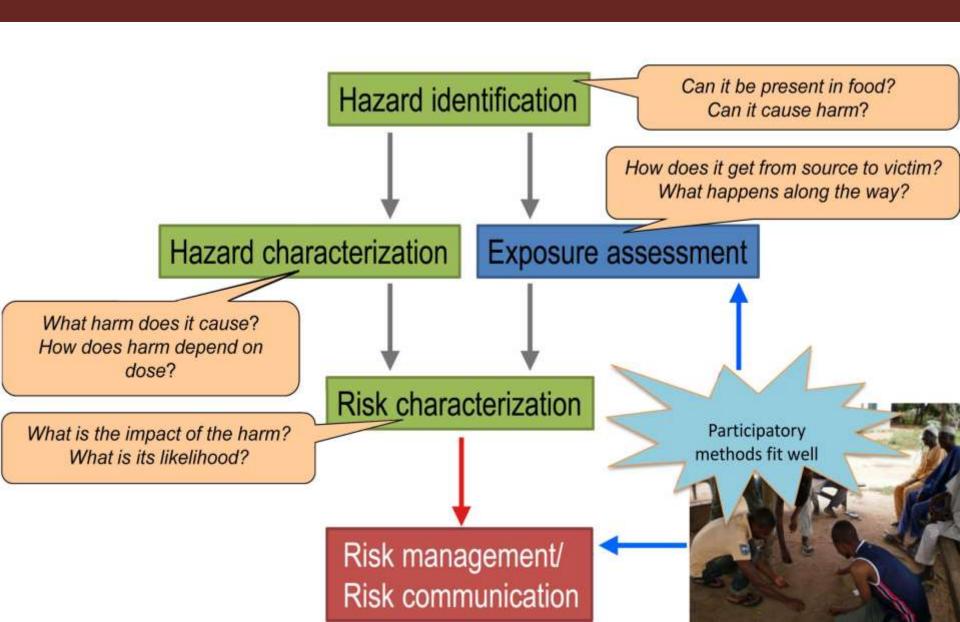
ing epilepsy or running mad among other related ailments. "The city is littered with illegal pork abattoirs in various suburbs such as Bweyogerere commonly known as Ekimezza, Nsambya-Kamwanyi Zone, Kinawatakka and Wambizzi in Lubaga Division and many more," he added. He explained that pork

contains tape worms which cause epilepsy when consumed without excellent preparation and warned consumers against feasting on meat which is not thoroughly cooked. Ahimbisibwe sald they are drafting new laws to guide

tion to end this food insecurity in the city. A team of officials who included Policemen, KCCA law enforcement personnel and inspectors from the Ministry of Agriculture raided pork joints in Nsambya, Makindye and Luzira. A dozen of pigs were carried away and more than 200 kilogrammes of fresh pork impounded.

Pork is a delicacy enjoyed by a vast number of people who purchase the meat at different pork joints around the city. In the recent years, it has become a profitable business to venture into.

## Codex Alimentarius Commission framework for food safety risk assessment



## 3. Informal markets are not necessarily dangerous, nor formal safe

- Informally marketed food often safe
- Biggest challenges: improper harvest and postharvest handling, often because of lack of prerequisites
- Business-oriented attitudes are a major risk to food safety
- Some risks in both markets are underestimated because they do not cause immediate harm

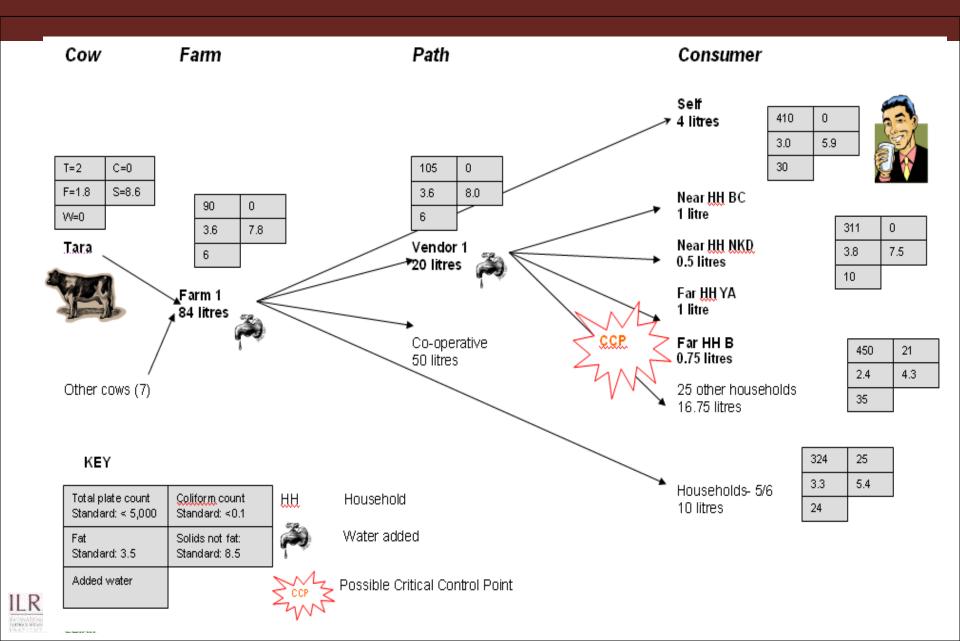




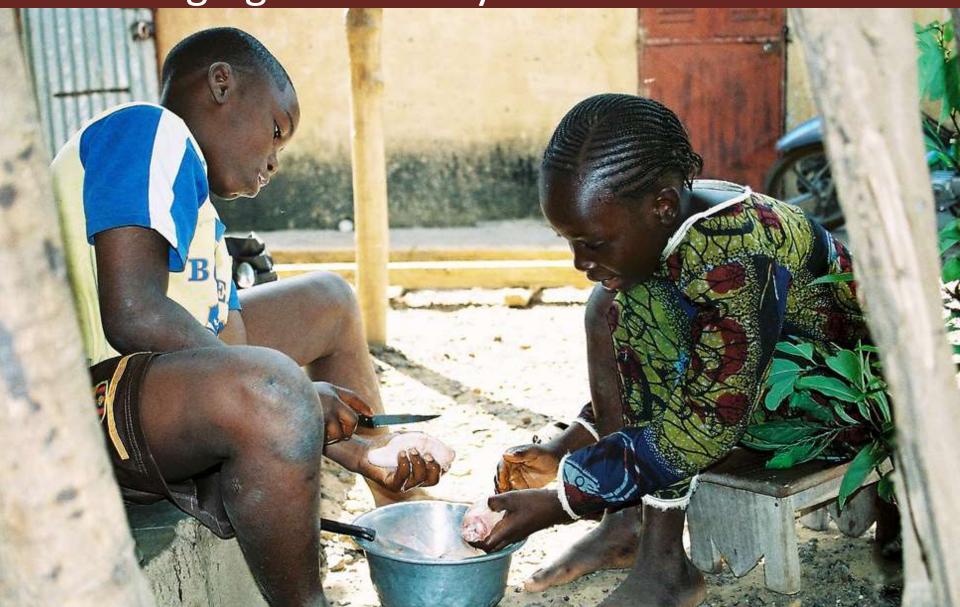
## 4. Farmers, traders and retailers are risk managers in informal markets

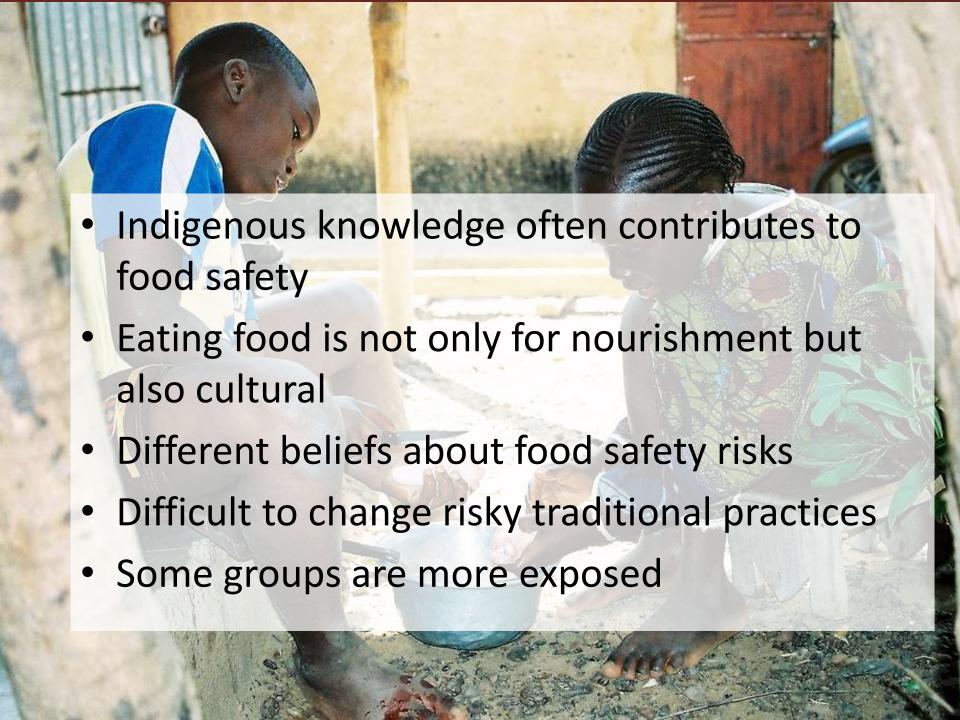
- Contamination of food may occur at any stage in the food chain
- Risk pathway analysis helps identifying CCPs
- Everybody handling and benefiting from the product, must take responsibility
- Interventions often simple but lack prerequisites





5. Understanding values and culture is crucial for managing food safety in informal markets





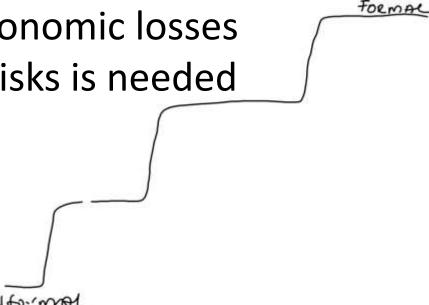
6. Food safety management also requires a gender perspective





# 7. Efforts in managing food safety in informal markets must be pro-poor

- Poor more prone but cannot afford to fall ill
- Risk management needs training, skills development and prerequisites
- Linking formal and informal markets
- Impact assessment on economic losses and gains of food safety risks is needed

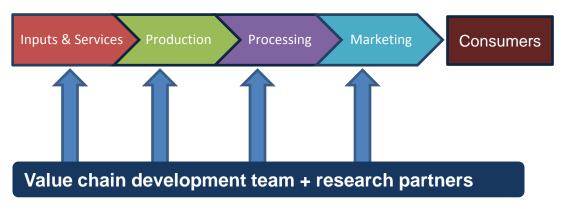


### Summary

- Informal markets are vital for food security and economies in SSA
- Informally marketed ASF is often not as dangerous as perceived
- Participatory methods useful in closing data gaps
- interventions should be risk-based and incentivebased

# Outlook: integrated research with CRP L&F "more meat, milk and fish for and by the poor"

R4D integrated to transform selected value chains In targeted commodities and countries.

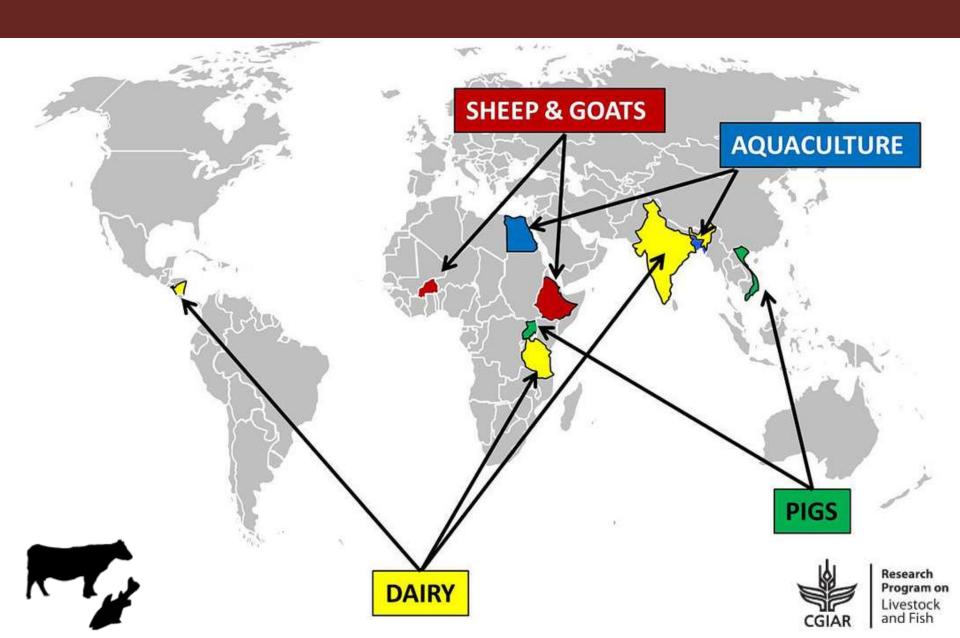


To sustainably increase the productivity of small-scale livestock and fish systems to increase the availability and affordability of animal-source foods for poor consumers.





### 9 target livestock & fish value chains





### THANK YOU!

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https://safefoodfairfood.wordpress.com/

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