



# FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative



## Safe Food, Fair Food for Cambodia project

### Progress highlights for the first year

Phnom Penh, September 5<sup>th</sup> 2018

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## SFFF ANNUAL MEETING (5.9.2018)



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## Outline

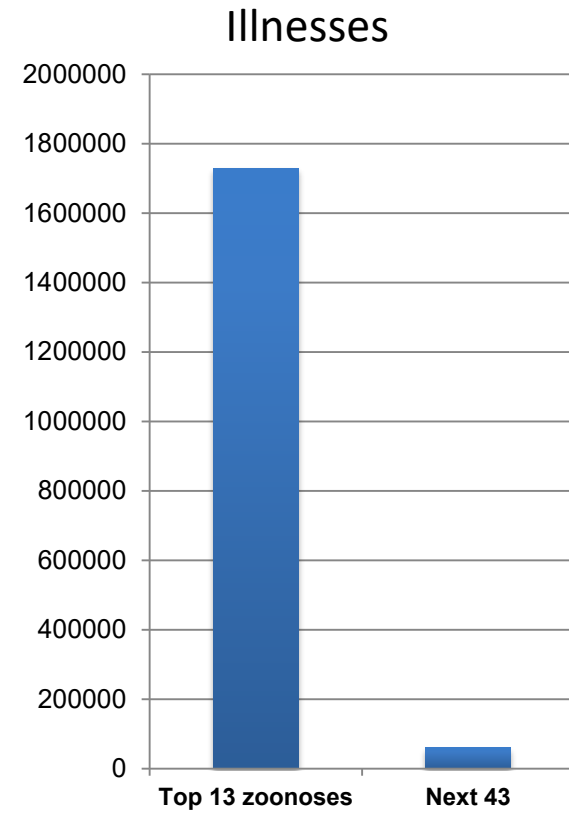
- Reminder of the objectives
- Findings: prioritization, trainings, field works
- Partnership and project link
- Next steps



## From hazard-based to risk-based The vital few and the trivial many

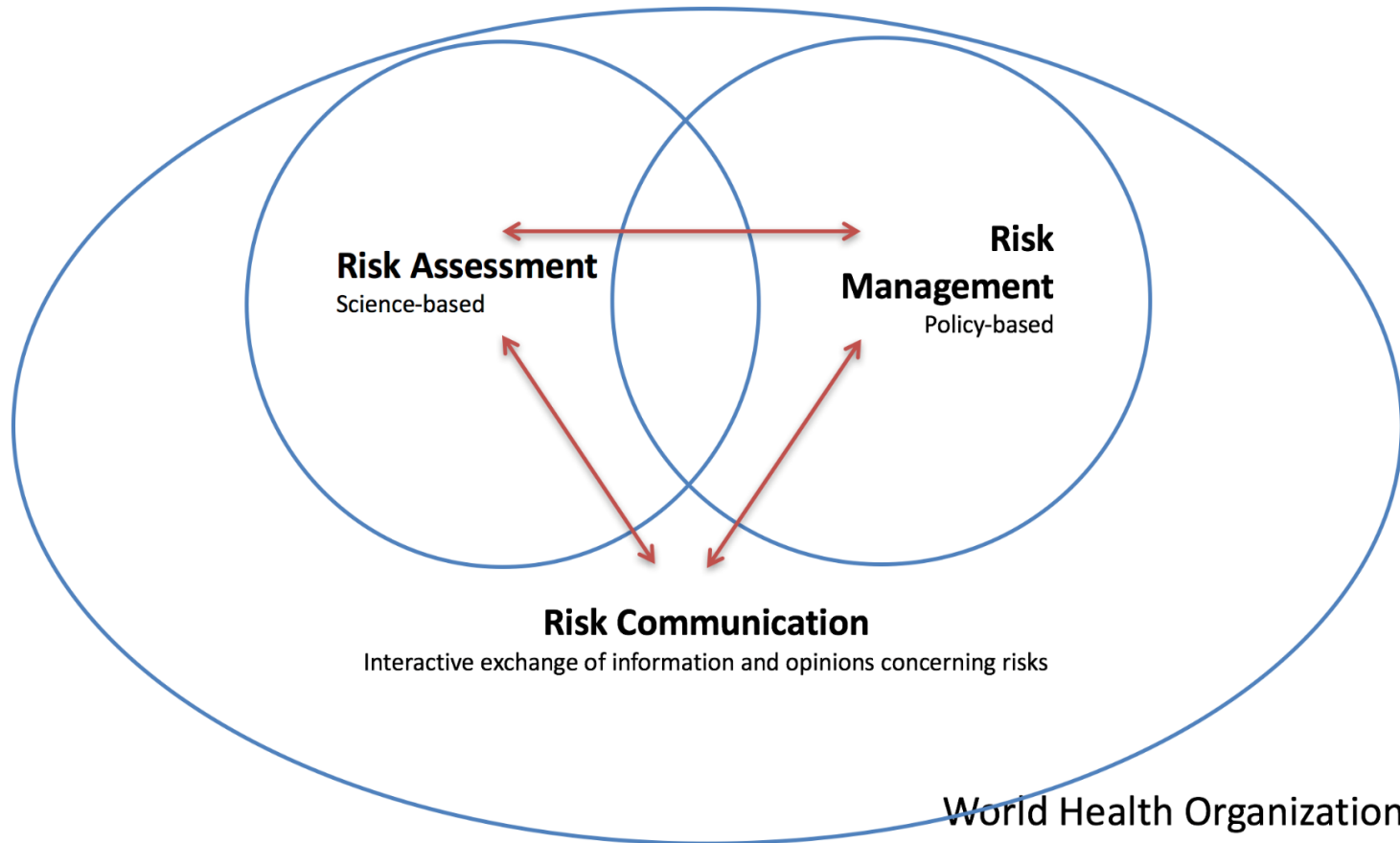
### Systematic prioritisation

- Convene Task Force
- Synthesise evidence on consumption, hazards and risks
- Select a priority animal source food value chain
- Select 2-3 priority hazards





## Approach: risk analysis or risk-based decision making





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## Project objectives

1. Actionable evidence on FBD burden associated with animal source foods
2. Pilot incentive-based approach to improving food safety among ASF traders
3. Cambodian-led Theory of Change for improving food safety
4. Gender and equity research
5. Building capacity in food safety risk assessment, management, communication



**Gender**

**TOC**

**Impact**

**Nutrition**

**1. Risk profiling**

1. Scoping visits
2. Systematic literature review
3. Training in risk ranking
4. Stakeholder prioritisation

**Markets**

**QMRA**

**Household**

**2. Generate evidence on FBD  
Five Urban Survey Study**

**Cost of  
Illness**

**Nutrition**

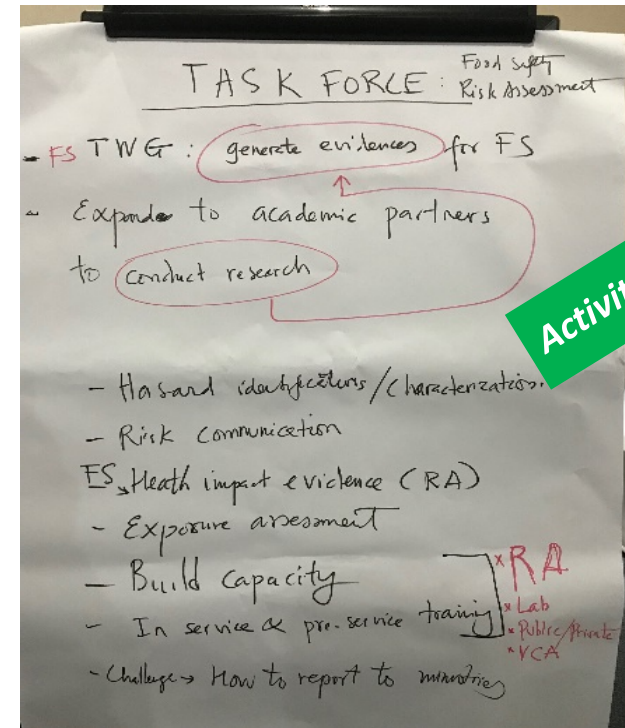
**3. Develop & test solutions  
for wet markets  
RCT intervention**

**Taskforce**



# 1. RISK PROFILING

## Stakeholder consultation, Taskforce – December 2017





# Food safety risk assessment for informal value chains

- Organized by NAHPRI in partnership with ILRI and WHO
- 15-17<sup>th</sup> Jan 2018
- 30 participants (70% male, 30% female)
- National state agencies, research academia, universities and international organizations





## Gender and livestock training

- Organized by CelAgrid in partnership with NAHPRI and ILRI
- 22-23 Jan 2018
- ILRI Gender trainer, Nicoline De Haan & 2 co-facilitators
- 9 participants (3 females, 6 males)
- National state agencies, research academia and university





## PRIORITIZATIONS

- Pork and poultry
- *Salmonella*, *Staphylococcus aureus*, (*Campylobacter*), trichinella and cysticercosis
- Traditional markets and supermarkets in 25 provinces
- Urban focus: Phnom Penh and Siem Reap



Where we work

## 2. GENERATE EVIDENCE ON FBD

### 1. Household survey

- 7 districts in **Phnom Penh** (Tuol Kouk, Steung Meanchey, Ruessei Kaev, Sen Sok, Pou Senchey, Chrouy Changvar, Chbar Ampov)
- 200 households
- Pork Consumption Practices and Healthcare-Seeking Behavior







## HOUSEHOLD SURVEY FINDINGS

- Limited knowledge of food safety and foodborne health risks.
- Food safety is a concerns of consumers.
- The most commonly use retailers (mobile vendors) are considered less safe and less clean. Preference is driven by convenience/accessibility, not by food safety concerns.
- GI diseases is common and people often treat themselves or seek healthcare support (depending on age of ill).
- Use of medicines to treat symptoms was very common.



## 2. GENERATE EVIDENCE ON FBD

### 2. Nutrition survey

- I. Assess current nutritional practices and consumption of ASF
- II. Determine perception of the risk of food safety and how it relates to diet, health and decision making
- III. Identify barriers preventing children and mothers from accessing safe animal source food products



*Photo by Participant 2*





## Methods



### In-depth interview

- 26 qualitative interviews on practices and perceptions on nutrition and food safety in their family
- Loan camera



### PhotoVoice Interview

- 2-3 days later, discuss each photo
- How is food purchased, prepared and distributed? What influences decision making?



## PRELIMINARY RESULTS

- Chemicals in the food (primary food safety concern),
  - “Mostly, as I understand our food may not be very safe, because now days everything uses chemicals.”  
“...if any vegetables uses too many chemicals, a stomach ache occurs immediately after eating.”
- Special diet for pregnant and lactating women,
- Food insecurity, cost of food, infant and child nutrition, decision making, gender equity, market location, time, and family influences.



*Photo by Participant 25*



## 2. GENERATE EVIDENCE ON FBD

### 3. Cost of Illness in Phnom Penh and Siem Reap

- 104 cases: 64.4% female and 35.6% male, age 24.8 years in average, LOS: 2.04 days in average
- Main diagnosis: Food poisoning (60.6%) and acute diarrhea (36.5%)
- In general, average cost: **USD 92.58 per-episode of hospitalization and USD 43.79 daily.**
- Direct medical cost: The largest share (63%)
- Direct non-medical cost (24%) and indirect cost (13%)

## 3. Student training

1. PhD student: Rortana Chea at ILRI and SLU (4 years)
2. MSc student: Morgan Brown, Emory University (1 year)
3. SEAOHUN / KOICA /RUA fellow: Phally Pha DVM (5 months)







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## 4. PARTNERSHIP DEVELOPMENT



USAID Innovation System Labs (fish, harvest)

# ILRI

INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE



EMORY UNIVERSITY



Global processes on food safety (WHO FERG, GFSP, WB, FAO, OIE, CGIAR, Donor initiatives...)

**Food Safety Technical Working Group**



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## Next steps

1. National hazard survey
2. Quantitative nutrition
3. Taskforce operation, impact pathway
4. Intervention: Pilot incentive-based approach to improving food safety among ASF traders
5. Continuous activities on building capacity in food safety risk assessment, management, communication

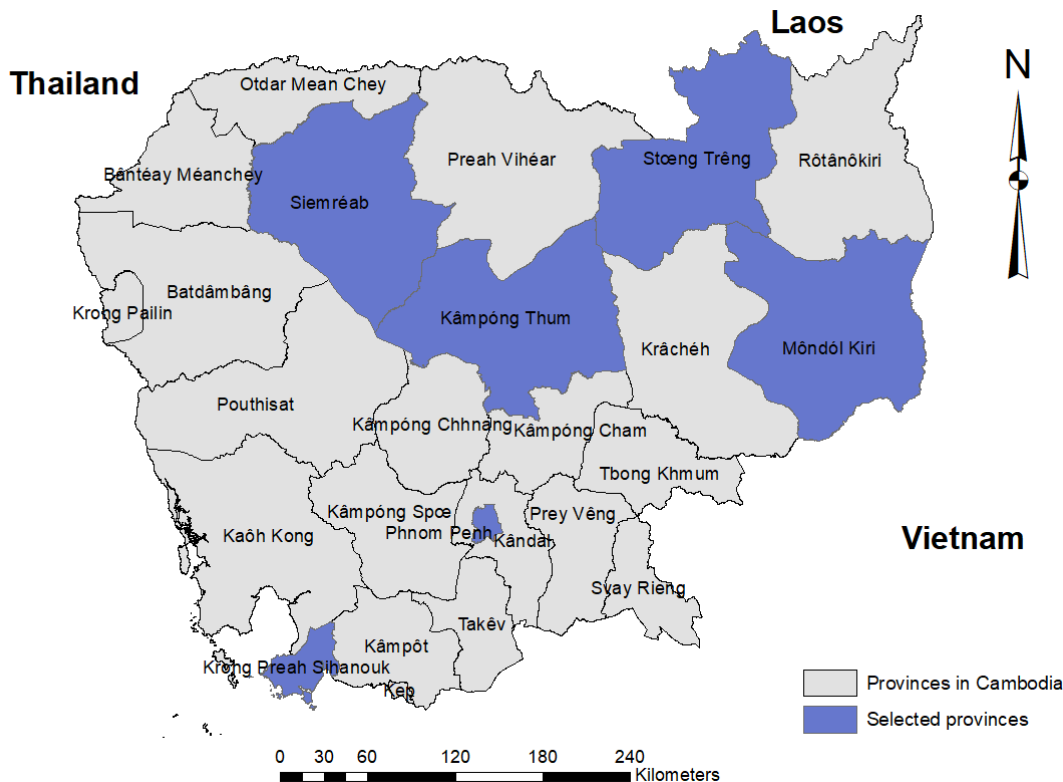




## 5. Hazard survey and intervention

25 provinces for market sampling

6 provinces for repeated sampling





## 6. Taskforce: research translation

- Support food safety technical working group of Cambodia
- Risk assessment expertise and case studies
- Linking to other projects of food safety
- Training



# Multi-sectoral Technical Working Group for Food Safety

## Members

Secretariat (coordinator) – CDC/MoH

## Acronym

### Full name

#### - Chairperson

Focal persons from each of the 6 Ministries will alternate in chairing.

MoH Ministry of Health (MoH)

MAFF Ministry of Agriculture, Forestry, and Fisheries (MAFF)

MoC Ministry of Commerce (MoC)

MIH Ministry of Industry and Handicraft (MIH)

MEF – GDEC Ministry of Economic and Finance (MEF)

MoT Ministry of Tourism (MoT)

### Members:

- Other technical persons from all 6 Ministries
- Representative from National Institute of Public Health (NIPH)
- Representative from National Health Products Quality Control Center (NHQC)
- Representative from Institute Pasteur of Cambodia (IPC)
- Representative from Food and Agriculture Organization (FAO)
- [Representative from The United Nations Industrial Development Organization \(UNIDO\) \(SOK, Narin N.SOK@unido.org\)](#)
- Representative from World Health Organization (WHO)
- Other technical agencies and development partners, as appropriate



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## OUTPUTS OF Y 1

- Project profile: <https://cgspace.cgiar.org/handle/10568/89199>
- Taskforce for Food Safety Risk Assessment and Project Stakeholder Workshop and Project Stakeholder Workshop (December 14-15 2017) [https://www.dropbox.com/home/2018\\_SFFF%20Cambodia\\_outputs/20171214-15\\_Taskforce%20for%20Food%20Safety%20Risk%20Assessment%20and%20%20Project%20Stakeholder%20Workshop](https://www.dropbox.com/home/2018_SFFF%20Cambodia_outputs/20171214-15_Taskforce%20for%20Food%20Safety%20Risk%20Assessment%20and%20%20Project%20Stakeholder%20Workshop)
- Training on Food Safety Risk Assessment (15-17 January 2018) [https://www.dropbox.com/sh/0up5fxu6eo261d4/AAAq5E9y\\_f2AAf0DVtD0giwza/Presentations?dl=0](https://www.dropbox.com/sh/0up5fxu6eo261d4/AAAq5E9y_f2AAf0DVtD0giwza/Presentations?dl=0)
- Presentation by Delia Grace, SFFF project PI at First International Sustainable Agricultural Intensification and Nutrition Conference, Royal University of Agriculture, Phnom Penh, Cambodia January 10-13, 2018
- [https://www.dropbox.com/home/2018\\_SFFF%20Cambodia%20Risk%20Assessment%20training%2015-17Jan2018/20180110-13\\_International%20Sustainable%20Agricultural%20Intensification%20and%20Nutrition%20Conference\\_presentation](https://www.dropbox.com/home/2018_SFFF%20Cambodia%20Risk%20Assessment%20training%2015-17Jan2018/20180110-13_International%20Sustainable%20Agricultural%20Intensification%20and%20Nutrition%20Conference_presentation)
- On ILRI Asia blog:
  - <https://asia.ilri.org/2017/09/29/new-project-to-strengthen-food-safety-in-cambodia/>
  - <https://asia.ilri.org/2018/01/11/collaboration-between-government-and-researchers-to-improve-food-safety-in-cambodia/>
  - <https://asia.ilri.org/2018/02/08/bridging-the-gender-gap-in-livestock-projects-in-vietnam-and-cambodia/>
- On ILRI Safe Food, Fair Food blog
  - <https://safefoodfairfood.ilri.org/2017/09/29/new-project-to-strengthen-food-safety-in-cambodia/>
  - <https://safefoodfairfood.ilri.org/2018/01/11/collaboration-between-government-and-researchers-to-improve-food-safety-in-cambodia/>
- On A4NH blog
  - <http://a4nh.cgiar.org/2017/10/02/new-project-to-strengthen-food-safety-in-cambodia/>
  - <http://a4nh.cgiar.org/2018/01/16/collaboration-between-government-and-researchers-to-improve-food-safety-in-cambodia/>
  - <http://a4nh.cgiar.org/2018/02/13/bridging-the-gender-gap-in-livestock-projects-in-vietnam-and-cambodia/>





## CONCLUSION

- Inception and project partners, other admin done
- The team of SFFF Cambodia conducted activities in partnership development, capacity development and research as planned.
- However, we had some delayed in contract preparation and in developing partnership with national public health partners.
- Project is on a good track to enter in the second year with more laboratory and risk assessment work as well as partnership engagement in food safety.



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