



Biosecurity for backyard and semi-intensive small-scale poultry flocks

**FAO ECTAD
Indonesia**

APEC Workshop on Avian Influenza Risks in the Live Bird Market System

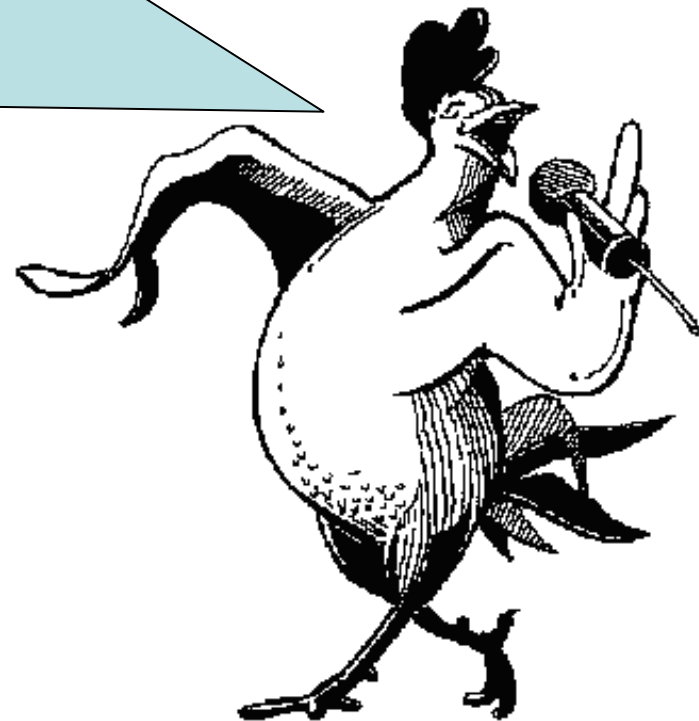
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Bali, Indonesia

Acknowledgements



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USAID & USDA
Australian Government
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Farmers, extension workers,
veterinarians, researchers and
NGOs



The task given to FAO today ...



- How good biosecurity can positively impact the backyard flock and the LBM System
- Can we use GIS to identify our LBM activities?
- Can we make a difference?

A few definitions



Backyard flock

- extensively raised poultry
- usually local breeds
- usually for home consumption
- 1 – 50 birds

Semi-intensive small scale commercial poultry

- free range during the day with supplementary feeding
- night housing
- local breeds, crossbreeds or commercial breeds
- raised primarily for sale
- 100 – 200 birds

Getting a grip on Biosecurity ...



Biosecurity

- the implementation of policies and practices that create barriers to the introduction and spread of disease agents
- requires the adoption of a set of attitudes and behaviours by people to reduce risk at all points along a market chain
- locally the term itself is often meaningless unless translated into its component parts in local language

Village poultry production: a very efficient system



- Practiced for thousands of years
- Often mixed species and mixed household enterprises
- Few inputs
- Opportunistic harvesting
- Premium market prices
- Multiple uses

Very different production systems



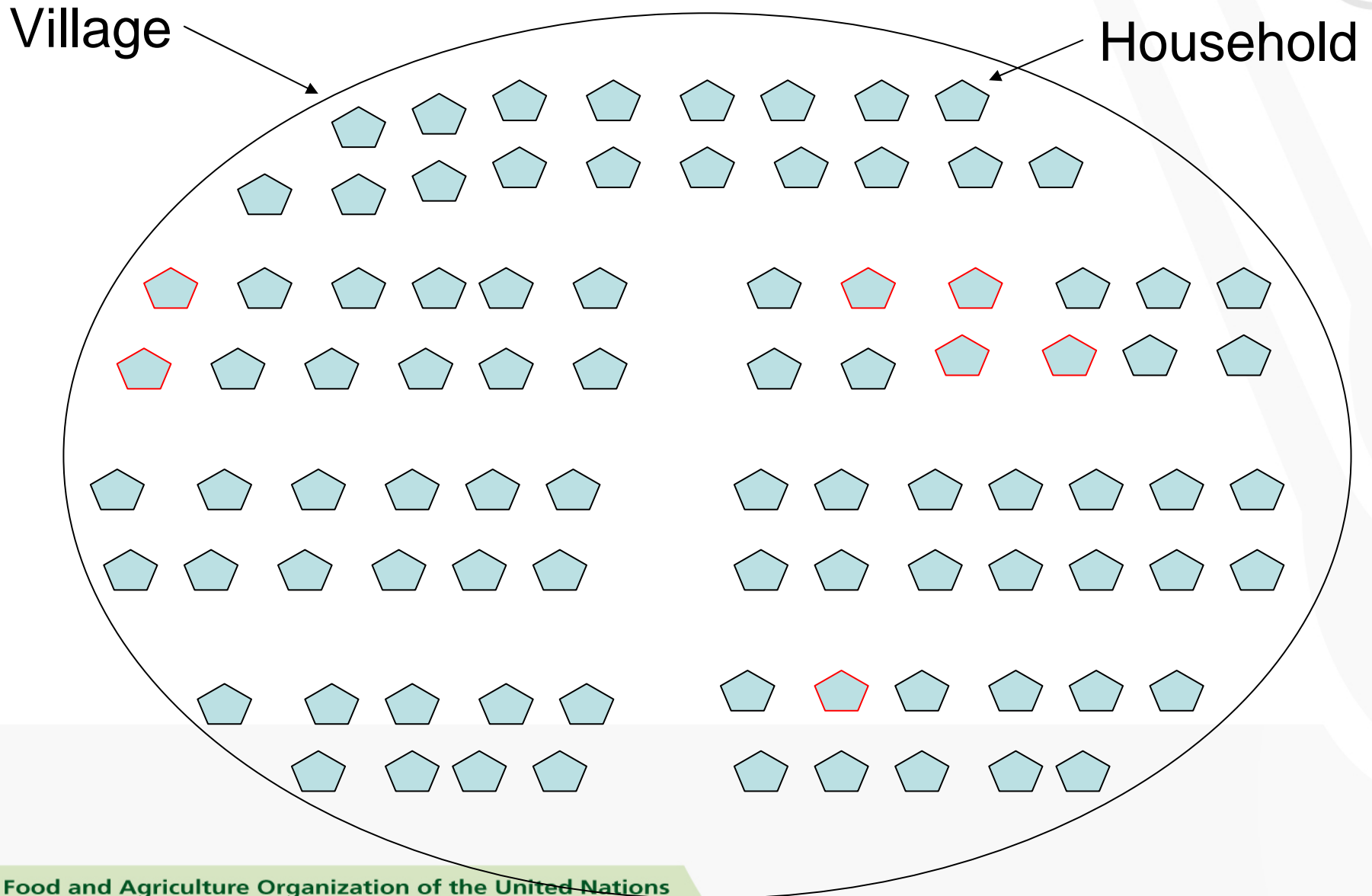
Intensive



Extensive

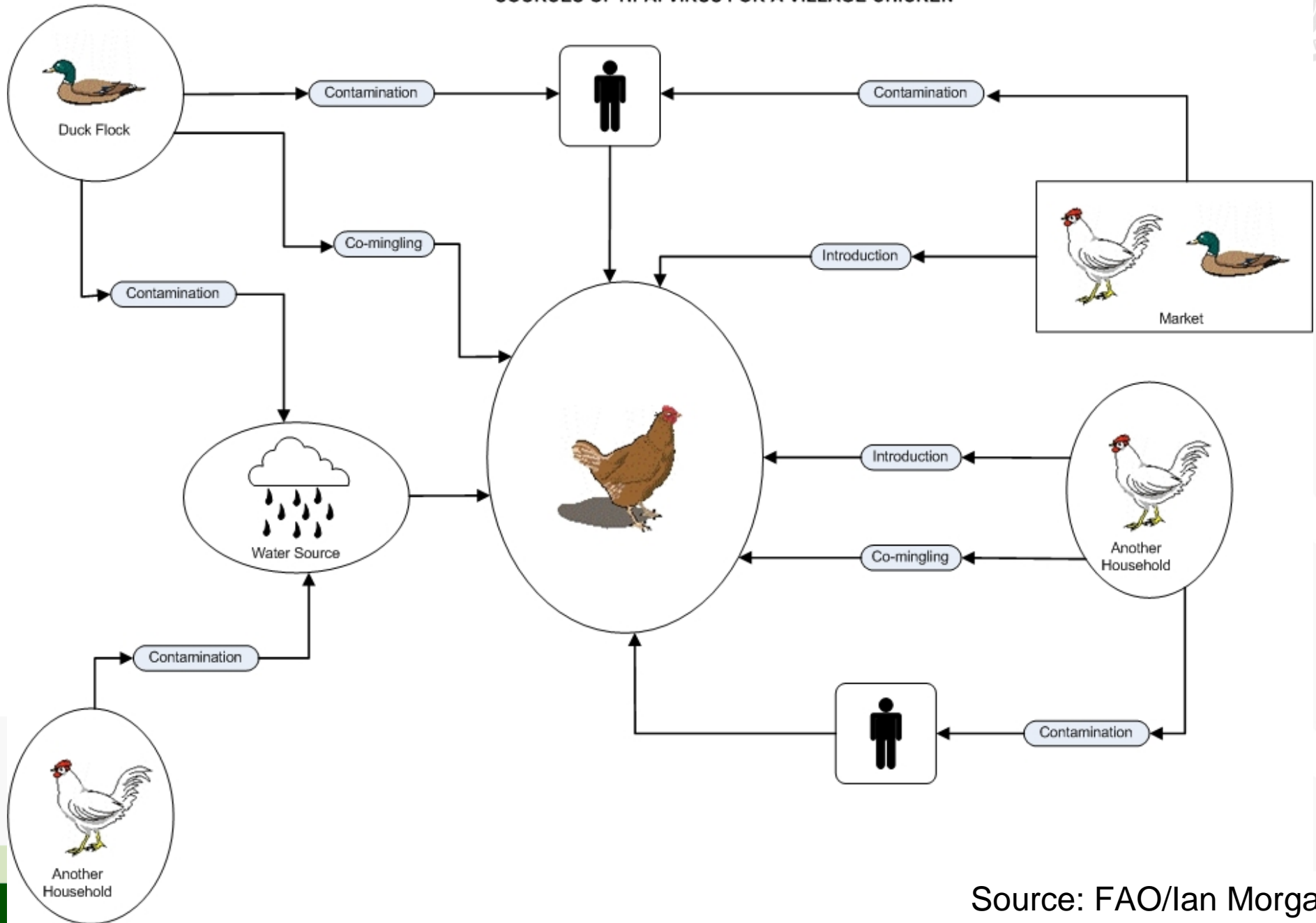


The village epidemiological unit



Sources of HPAI for a village chicken

SOURCES OF HPAI VIRUS FOR A VILLAGE CHICKEN



Source: FAO/Ian Morgan



Keeping disease out of villages: Working with farmers, traders and communities

- Education, communication, coordination
- Animal movement management
 - Temporary separation of new birds for 14 days
 - Restriction of trader movement
- Safe disposal of sick and dead birds and manure
- Separate night housing
- Cleaning and disinfection of housing, cages, etc
- Supplementary feed provided under cover
- Vaccination against Newcastle disease +/- Fowl cholera
- Vaccination against HPAI in high risk areas



Disinfection options for cages & trays on entry and exit



Organic materials

- Burn
- Smoke
- Sunlight +/- black plastic
- Agricultural lime or wood ash

Inorganic materials

- As above
- Soapy water
- Commercial disinfectants



Minimizing disease spread via LBMs

- One way movement
- Species separation and zoning within markets
- Inorganic caging, benches and floors with drainage and waste disposal in 7 day a week markets
- Rest, clean, disinfect
- Branding of producer associations and direct linkage to clients via slaughter houses

One way movement



Appropriate infrastructure



GIS and LBM activities



- Useful for provincial, national and international authorities
- There is no substitute for pencil and paper at the local level that record details in a meaningful way, i.e. local map making
- Included in the new PDSR information system in Indonesia

Can we make a difference ?



We can't afford not to

Many reasons why safe and efficient poultry production is important

Increasing urbanisation

Increasing food costs

Increasing transport costs

It all starts with appropriate education and effective dialogue

Healthy poultry, healthy people, healthy villages



Thank you
Kob-kun-ka
Ahkun
Terima kasih
Merci
Obrigada
Kob jai

