



- Participatory Epidemiology
- Things to concern when conducting PE
- PE preparation & steps
- Summary

# **Participatory Epidemiology**



# What is participatory epidemiology?

Participatory Epidemiology (PE) is an emerging branch of veterinary epidemiology.

Based on principles and methods of Participatory Rural
Appraisal (PRA)Focusing on animal health issues.
Working with communities to study specific disease problems and identify best-bet solutions.
Using for improvement of information reliability; standardized and repeated.

# **Approaches and Methods for PE**

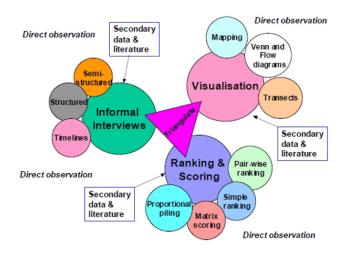
Successful PE use requires attention to the attitude and communication skills of practitioners, plus the correct application of specific PE methods.

PE methods can be categorized into 3 main groups;

- Informal interviews
- Visualization methods
- Ranking and Scoring methods



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CONTINUE

Participatory epidemiology is the use of participatory methods to improve understanding of animal health issues.

# Key features are summarized below:

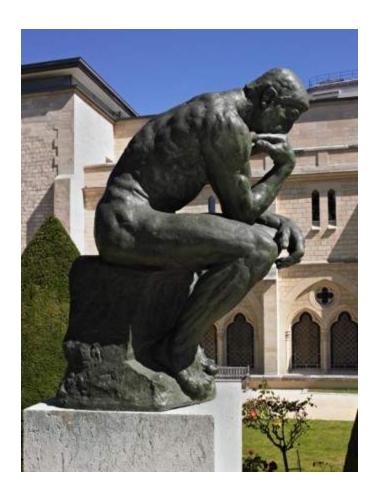
Attitudes and behavior

- Combined methods and triangulation
- The use of key informants Action orientated
- Methodological flexibility, adaptation and development

Source: http://www.fao.org/docrep/007/y5510e/y5510e0p.htm

# Things to concern when conducting PE

# Things to concern when conducting PE



Source: http://www.musee-rodin.fr/en/collections/sculptures/thinker-0

### 1. Attitudes and behavior for PE

- The important aspect of participatory approach is the way we interact with other people.
- The interaction determines the relationship and trust between researcher and local people, and affects the types of issues and information that people are willing to discuss in an open manner.
- The outsider must be constantly aware of their own attitudes and behavior.

### Indigenous knowledge VS Scientific knowledge





### 2. Verbal & Non verbal communication



Source: http://www.viaggiovagando.com/2014/06/23/part-culture-play-verbal-non-verbal-communication/









Source: https://openanswer.wordpress.com/tag/non-verbal-communication/

### CONTINUE

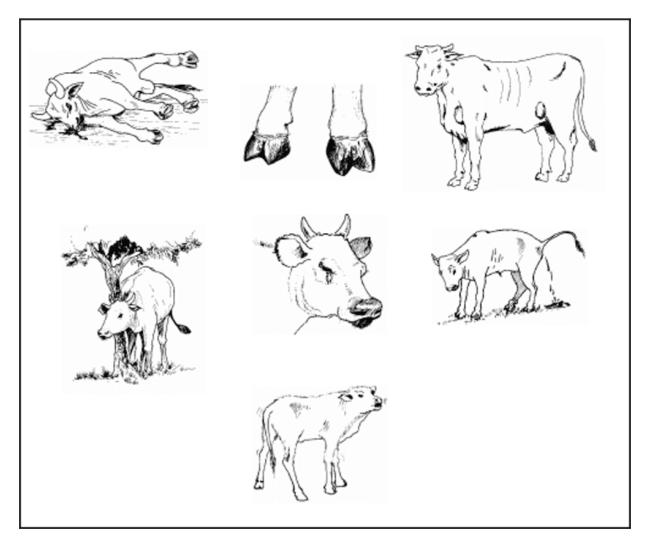
## 3. The important of clear instructions

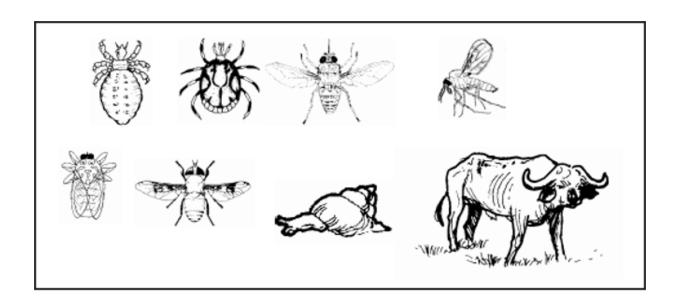
The folding paper game



4. Using picture and other aids

# **Example pictures of clinical signs**





# Cause of diseases

### CONTINUE

# 5. Dealing with dominant talker

- Divide the group into smaller group and disperse the groups to different places
- Direct questions at particular individuals. If the dominant talker interrupts, says something like "Thanks for your useful contribution. We can now hear what other people have to say"

- Assign a physical task to the dominant talker to distract them e.g.., visit his/her animals
- Stop the discussion and resume later
- Make the dominant talker part of the team



# PE preparation & steps

# PE preparation & steps

- 1. Clarify topic and objectives
- 2. Stakeholders and entry points
- 3. PE team: facilitator, note taker and observer
- 4. Checklist
- 5. Conduct PE: data collection and triangulation
- 6. Data analysis



# • PE team • Participants

- Facilitators
- Key informants (definition....)
- Note takerStakeholders
- Observer

### Some methods for PE

Click  ${\boldsymbol \sigma}$  to reveal PE methods suitable for information required

Any information	Informal interview
Social organization	Natural resource maps, Venn diagram
Relative livestock ownership	Proportional piling

Animal husbandry	Seasonal calendar, Transects
History of livestock diseases	Time line

Livestock disease priority	Scoring
Livestock disease and impact on livelihood	Matrix scoring

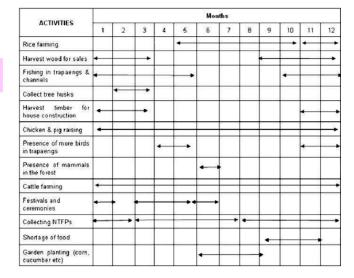
# Mapping



- Geographical boundaries of the community
- Main human settlements
- Road and main footpaths
- Rivers, wells and other water resources
- Farm area, forest and other natural resources
- Services
- Ethnic groups
- Others eg., seasonal movements, high risk area

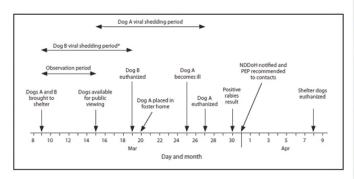
# Seasonal calendar







# **Time lines**





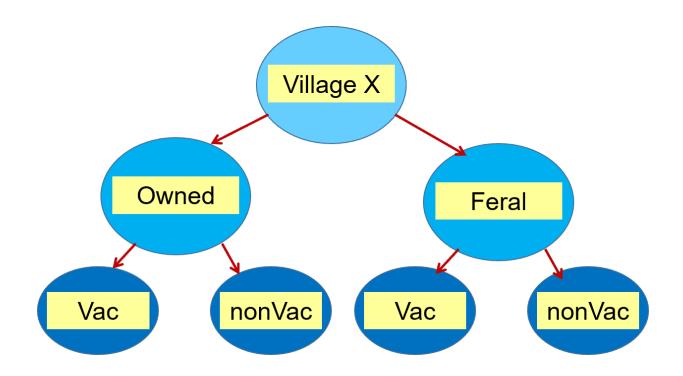


Source: http://speakingofresearch.com/facts/medical-benefits/

Source: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5951a2.htm/

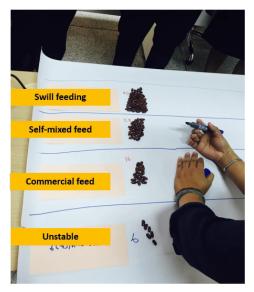
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# Diagram



# **Proportional Piling & Ranking**

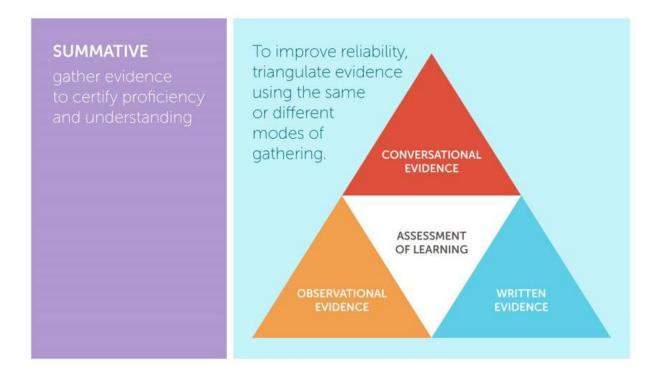






### CONTINUE

What is triangulation?



(Source: https://www.freshgrade.com/blog/what-is-triangulation-in-the-assessment-context/)

# Summary

PE involves working with communities to find information
about disease outbreak and identify appropriate
responses.
There are three groups of PE methods i.e. informal interviews, visualization and ranking/scoring methods.
Successful PE requires attention to the attitude and communication skills and the correct application of specific PE methods.

### References



- 1. OIE SEACFMD field outbreak investigation manual
- 2. http://www.fao.org/docrep/007/y5510e/y5510e0p.htm
- 3. The ASEAN Veterinary Student Volunteer Project 2019 (AVVP 2019). The Faculty of Veterinary Medicine, Kasetsart University (KU), Thailand.

# Congratulations - end of lesson reached Go back to our outbreak scenario (Event 5d) and complete

### Task 2

