



THE WORLD BANK



Evaluating Impact: Turning Promises into Evidence

Capacity Building for HPAI Prevention and Human Influenza Pandemic Preparedness (AI project)

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Our Elite Team



Outline

- Background of **Avian Influenza project** (briefly)
- Background of **innovative training program (ITP)** –which is one of key interventions in AI project
- Our **evaluation design** aims to measure of innovative training program

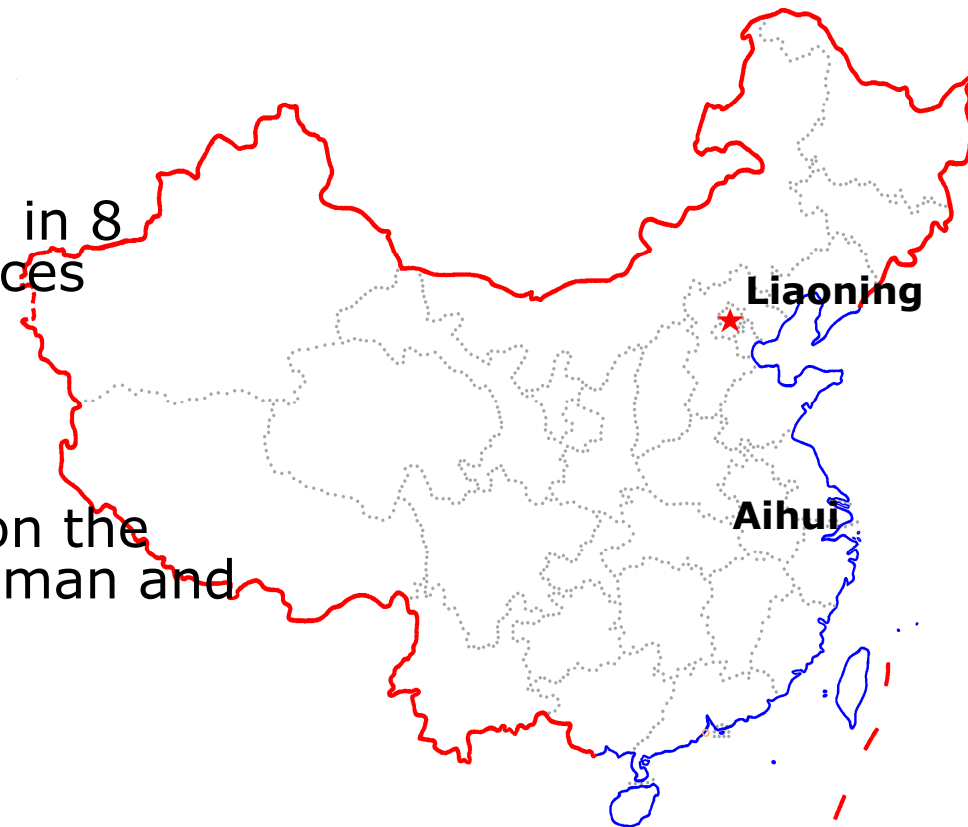
1. Background of AI project

- Why we do AI project in China
 - As one of emerging diseases, Highly Pathogenic Avian Influenza (HPAI) has gotten more and more international attention
 - China has a critical role to play in the international response to HPAI
- **Objectives**- To build up capacity for HPAI prevention and human influenza pandemic preparedness at the sub provincial levels

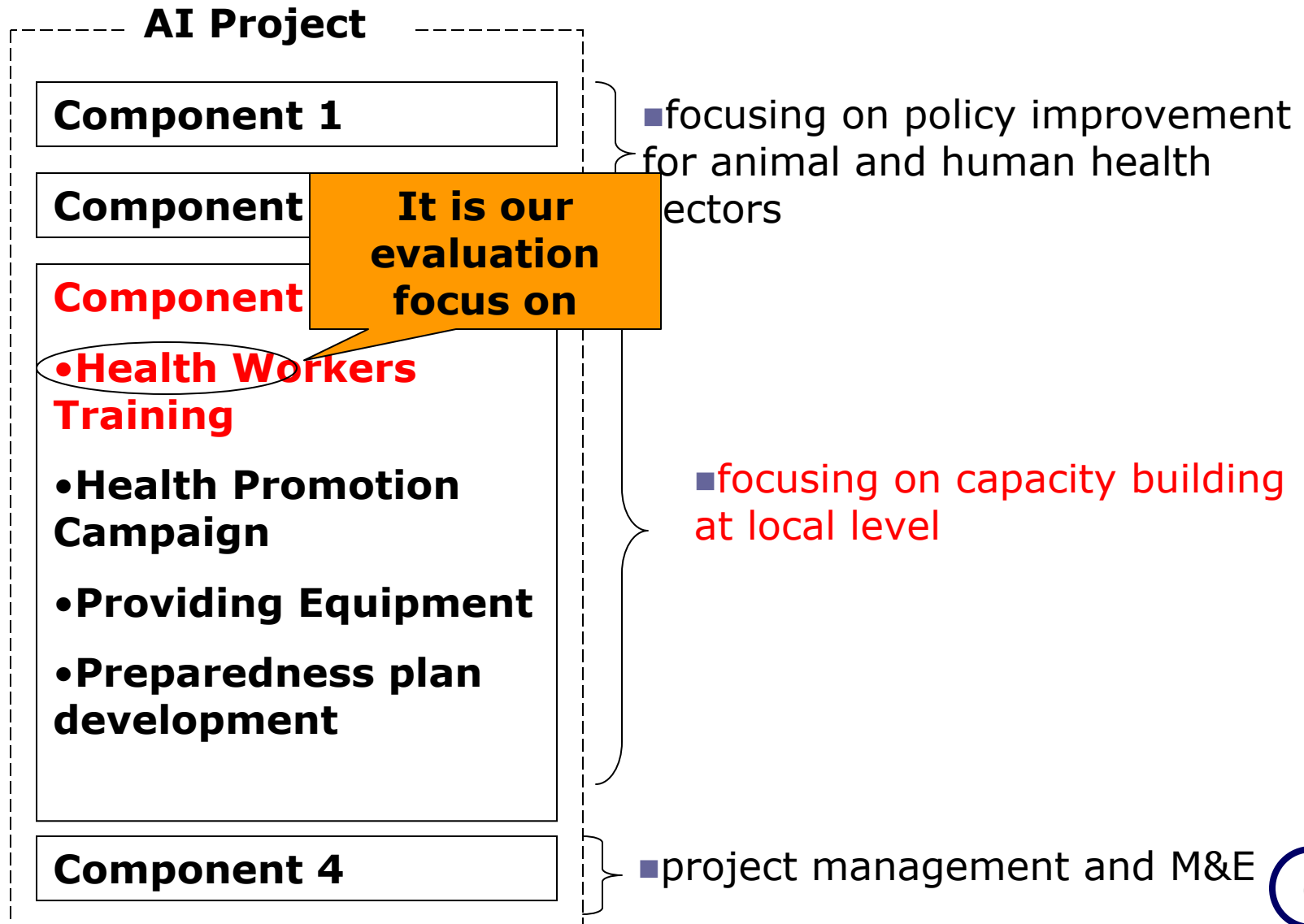
1. Background of AI project

□ How we do this:

- April, 2007-June, 2010
(*Total Project Cycle*)
- All townships (200-300) in 8 counties within 2 provinces
- Budget: \$2.65M
- Implementation based on the cooperation between human and animal health sectors
- 4 components



1. Background of AI project



Background of ITP

- ❑ Training is the most fundamental and important intervention method for a Capacity Building project.
- ❑ Training is easy to implement within the project
- ❑ The results of baseline survey indicated that there are gaps to be improved in training method
- ❑ Therefore AI project contracted Tech Assistance groups to develop an innovative training package which will be delivered to the animal and human health workers at grass root level to build capacity
- ❑ That is *our Innovative training program (ITP)*

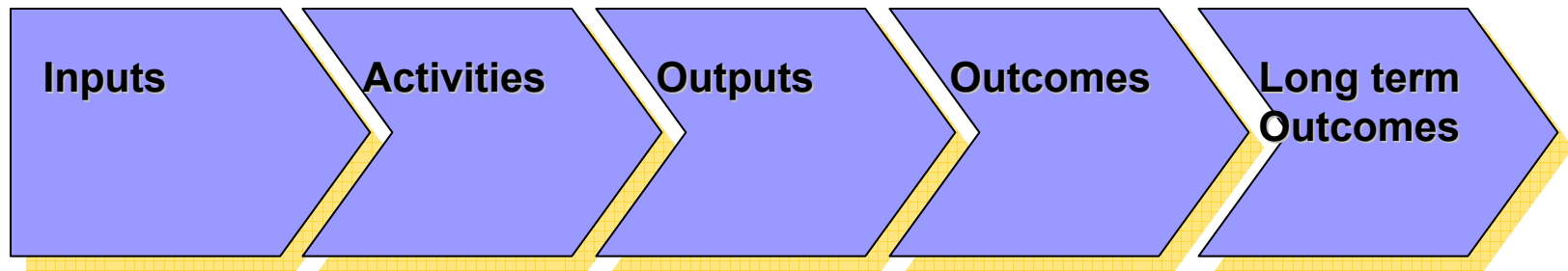
Background of ITP

- Capacity Building at Grass root level through Innovative Training Program

Traditional Training	Innovative training
Lack of interaction between the lecturers and participants	Case study, exercise, role play
Dogmatic, not practical, not focusing on key skills	Focusing on key skills: like investigation, sample collection, disinfection, disease reporting
Separate training materials for human and animal health workers	Common modules for human and animal health workers, training together

2. Results Chain

Innovative Training Program in AI Project



- Funding
- Person-weeks (Technical Assistance)
- Training Package
- Training Equipment

- Conduct innovative training to human and animal health workers at township level on knowledge and skill of rapid response to AI and Human influenza

- No. of training courses conducted
- No. of human and animal health workers trained at township levels

- Improvement of knowledge and skills on rapid response to outbreak of AI and Human influenza among human and animal health workers trained

- Reduced H-H transmission of Highly Pathogenic Avian Influenza (HPAI)
- Reduced A-A transmission of HPAI

3. Primary Research Questions

- Whether the innovative training program would be better than the traditional one in improving rapid response of human and animal sectors to HPAI and Human Influenza outbreak in project areas?
 - We want to convince the policy makers to provide funding for the roll-out of these innovative training programs in many more areas.

4. Outcome Indicators

- ❑ **Indicator 1:** Testing scores of health workers in the Rapid Response Teams (RRTs) from written examination (in terms of knowledge of outbreak response skills before and after training).
- ❑ **Indicator 2:** Timeliness of RRT HPAI outbreak response from township level:
 - time between receiving report and arrival of both human and animal health workers from township to village levels;
 - by testing drills
- ❑ **Indicator 3:** Quality of RRT performance on response to HPAI outbreak
 - which will be evaluated by a checklist of rapid response procedures (during testing drills).

5. Identification Strategy/Method

- **Randomized controlled trial**

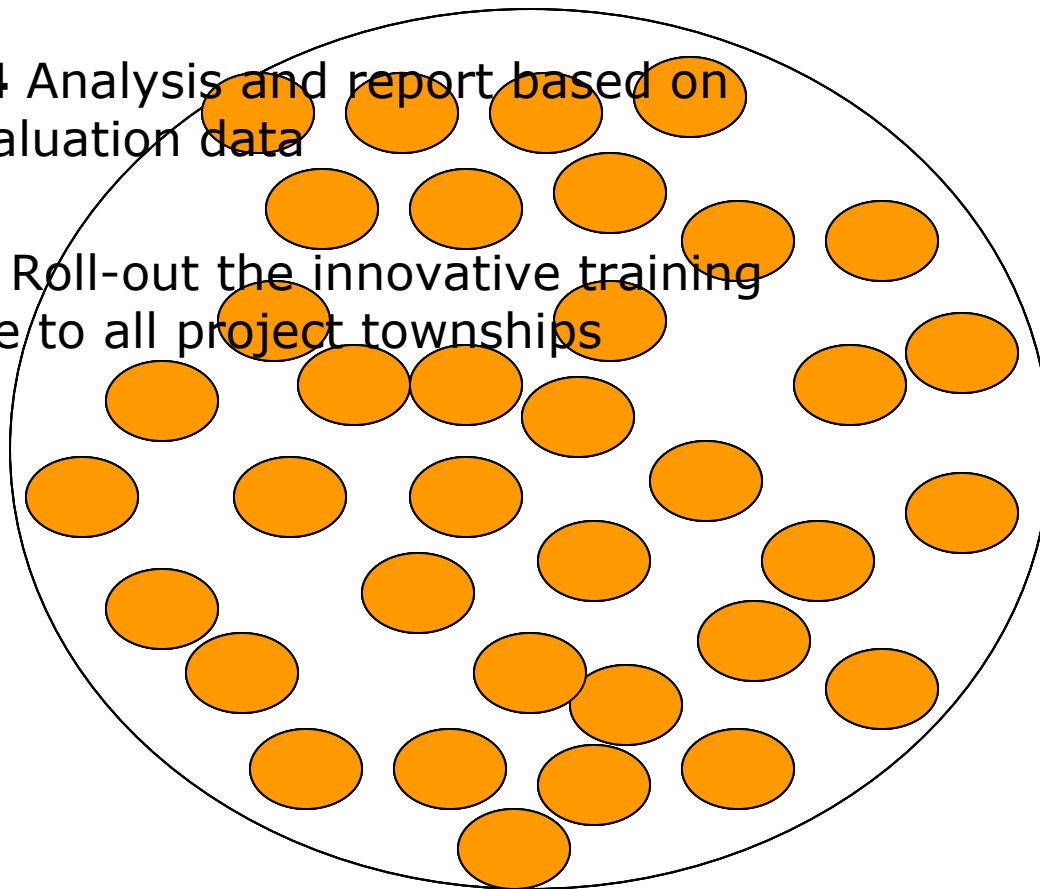
Step 1 Sample size calculation

Step 2 Randomly select the treatment & control groups with 1:1 & check balance

Step 3 Implement the training programs at the same time in 2 groups

Step 4 Analysis and report based on the evaluation data

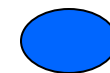
Step 5 Roll-out the innovative training package to all project townships



Township



**Treatment township
(Innovative training)**



**Control township
(Traditional training)**

all townships (the whole project areas)

6. Sample and Data

- Current information
 - The overall project is going to train about 4000 health workers at township levels over the next 1.5 years.
 - There are a total of 200-300 townships
- Hypothesis (at 5% of significance level)
 - 10% increase in written exam scores in treatment group (effect on individuals)
 - 10% reduction in time of rapid response (effect on township)
 - 5% increase of scores in rapid response performance assessment in treatment group over control group (effect on townships)

7. Time Frame/Work Plan

ID	Tasks	2009年												2010年						
		12月	01月	02月	03月	04月	05月	06月	07月	08月	09月	10月	11月	12月	01月	02月	03月	04月	05月	06月
1	Innovative training package will be ready	■																		
2	Hire a consulting firm for further evaluation design	■	■	■	■	■														
3	Piloting the innovation training package		■	■																
4	Training of Trainers			■	■	■														
5	Trainings conducted (innovative and traditional)					■	■	■	■	■										
6	Data cleaning and analysis									■	■									
7	Report writing										■	■								
8	Decision making on rolling out or suspending innovative training													■	■	■	■	■	■	■

8. Sources of Financing

- ▣ Avian and Human Influenza (AHI) Facility Funding (the World Bank)
- ▣ SIEF?

- ▣ Thanks for your time!
- ▣ Thanks for this workshop with well-designed and fantastic training courses!
- ▣ Thanks for the local people providing us the good services and delicious food!

谢谢