



PROGRAM BIG BIOSECURITY IN PIG INDUSTRY

Project ID card:



Beneficiary countries: Cambodia, Laos, Philippines, Vietnam
Operators : ENSV-FVI, AVSF, CIRAD, IFIP
Donors: MEAE, STDF
Starting/closing dates: jan 2022 – feb 2025
Budget (total): 1,76 M€









Program objectives

The BIG program overall aims to enhance the prevention and control of African swine fever (ASF) in South-East Asia, with a particular focus on strengthening biosecurity measures on farms.

Program beneficiaries

The program targeted six main types of beneficiaries similar for the 2 projects:

-  **Pig farmers:** this includes both commercial farmers and owners of smaller, subsistence family farms.
-  **Veterinary Services:** these services from the four beneficiary countries were engaged at the central level, through the designated national contact points and Chief Veterinary Officers (CVOs), but also at the local level, through agents working in provinces or districts.
-  **Community Animal Health Workers (CAHWs):** as veterinary para-professionals, CAHWs play a crucial role in rural areas. They provide first aid, conduct epidemiological surveillance (early warning), communicate with villagers, and monitor biosecurity measures.
-  **Professional Representatives:** veterinary associations, cooperatives, drug sellers, and others who provide advisory services to livestock farmers.
-  **Universities and Training Centres:** these were key for disseminating training tools developed during the project, ensuring their adoption and continuation beyond the project's duration.
-  **Diagnosis laboratories:** audit and training for this key link in the disease detection chain

Thanks to the donors

- French Ministry of Europe and Foreign Affairs
- Standards and Trade Development Facility



**Improving
pig biosecurity**
to control African Swine Fever



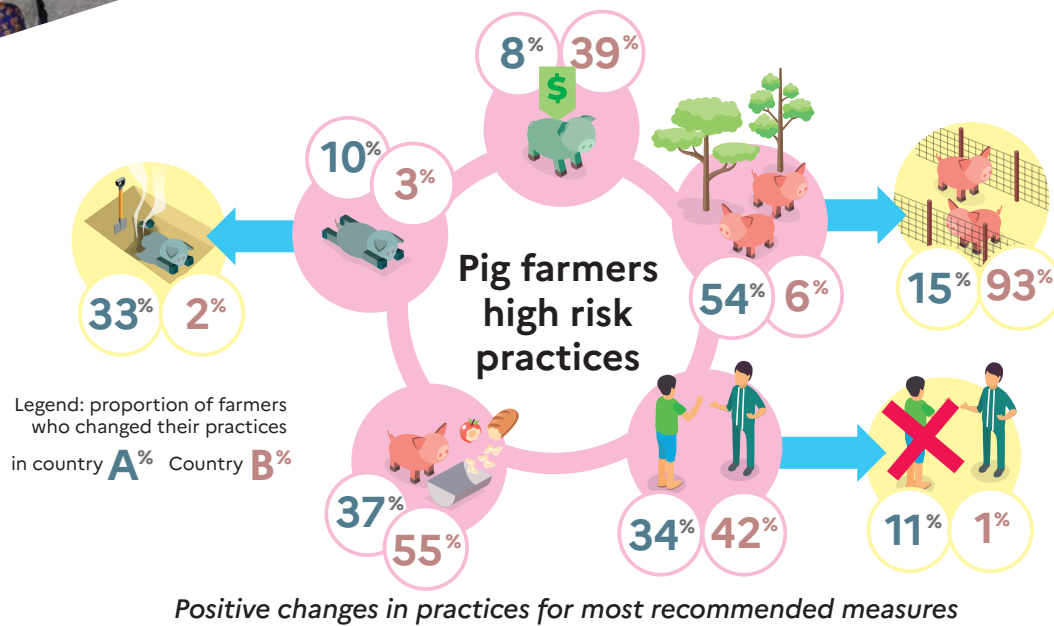
Implemented actions



1. Studies and Surveys

Subjects:

- Analysis of the impact of African swine fever (ASF) on pig value chains
- Stakeholder-driven analysis of biosecurity policy bottlenecks
- Disease prevalence surveys
- Cases studies
- Study of the Village workers capacities
- "Knowledge, Attitude, and Practices" (KAP) for the implementation of biosecurity measures



2. Co-construction Workshops, seminars, campaigns

Conducting participatory workshops :

- to exchange practices and define appropriate tools on biosecurity in farms
- to develop national strategies for better control ASF

13 meetings organized at national or regional levels with the following attendants.

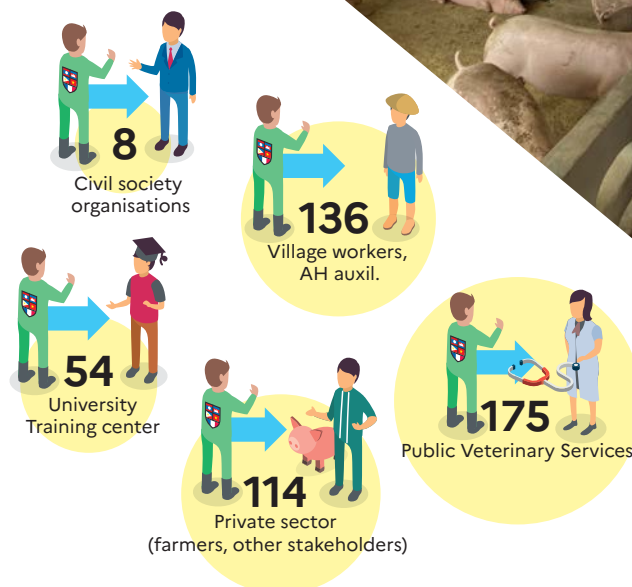


1456 attendants to *BIG* workshops and awareness-raising meetings

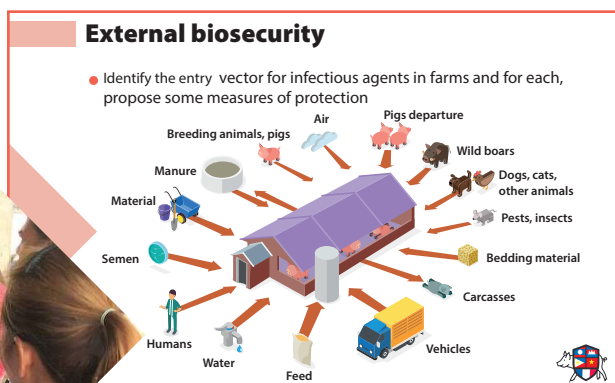


3. Knowledge sharing and appropriation

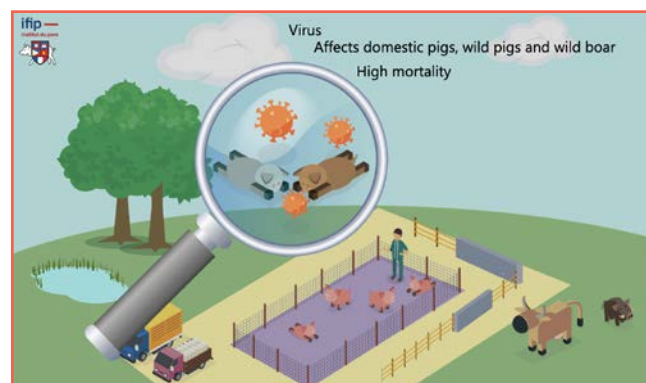
- Training of trainers (face to face) on biosecurity measures assessment (based on checklists)
- 2 Residential courses in France
- E-learning modules on biosecurity (an average of 4 e-modules created for each country + tailor-made e-learning courses)
- Training of farmers, village animal health workers
- Collaboration with universities to integrate tools into initial and continuing education programs
- Organization of cross-visits between farmers and technicians
- Knowledge sharing: dissemination of BIG training tools, as well as WOA and FAO guidelines



487 beneficiaries of face-to-face training



Training for veterinarians and technicians



Training for small and backyard farms

Comprehensive Approach and Innovative Methodology



Small steps, BIG impact: an incremental approach of the project activities

- Adoption of an **integrated approach** combining exploratory missions, field studies, collaborative workshops, and training sessions to strengthen stakeholder capacities
- Emphasis on **social and human sciences (SHS)** to complement the technical approach and integrate behavioral and community aspects
- **Public-private partnership** to foster collaboration between public, private, and academic sectors

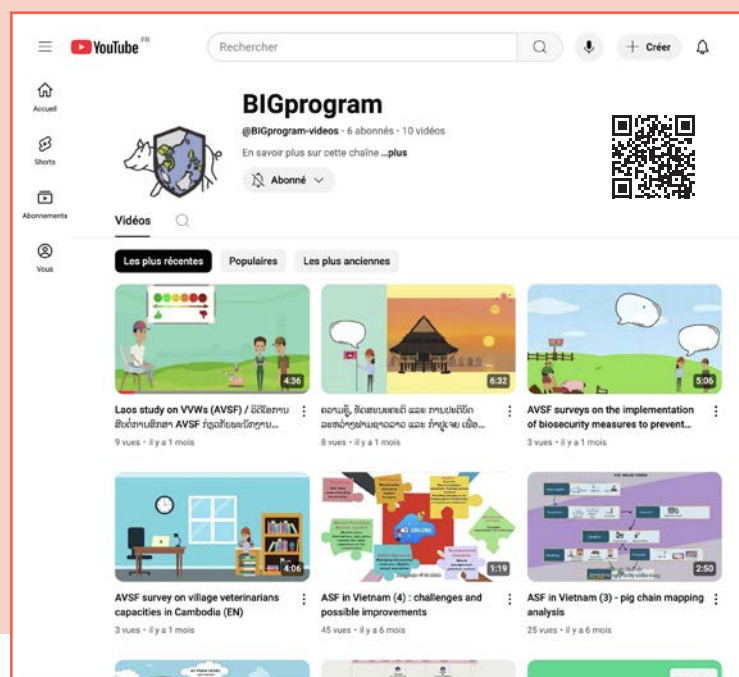


Results and impacts

- **Enhanced capacities:** Trained over 400 stakeholders, developed e-learning materials in order to enhance their skills, and presented findings at international conferences
- **Shared sustainable methodologies:** Creation of standardized tools and risk assessment measures for biosecurity management, disseminated to local stakeholders, through university involvement, and presented at international conferences
- **Regulatory Impact:** Contributed to the new Vietnam and Laos' ASF Strategic Plans (2026-2030) and supported the dissemination of Circular on animal disease-free zones.
- **Biosecurity Improvements:** Identified key barriers to ASF control and provided recommendations for establishing Animal Disease-Free Zones.
- **Scientific Contributions:** Completed four scoping reviews, a SWOT analysis, and multiple technical reports to guide ASF strategies.
- **Policy & Training Influence:** Facilitated national workshops, supporting the development of biosecurity SOPs and ASF surveillance programs.

BIG website for dissemination of BIG outputs

Website 'library' of all project products, with country-specific sections



<https://www.youtube.com/@BIGprogram-videos>



<https://www.big-program.com>

Program implementing partners

The BIG program was carried out with the active participation of four main partners, on behalf of the French Ministry for Agriculture and Food Sovereignty (CGAAER) and its project leader Dr Loïc Evain, former Chief Veterinary Officer :

- **CIRAD** (Centre de coopération internationale en recherche agronomique pour le développement) : dedicated to sustainable agricultural development, addressing global challenges in food security, biodiversity, and climate change through innovation and partnerships
- **AVSF** (Agronomes et Vétérinaires Sans Frontières): aimed to improve the livelihoods of rural communities, with a focus on sustainable agriculture, veterinary services, and food security in developing countries.
- **IFIP** (Institut Français du Porc): dedicated to research and development in the pig farming sector, with a focus on improving animal health, welfare, and the efficiency of pork production systems.
- **ENSF-VFI**: the national school for initial and continuous training of official veterinarians, and WOAHA collaborating center. France Vétérinaire International (FVI) is a cooperation body in the field of veterinary public health for French the Ministry of Agriculture.
- **A key link**: the French Agri-food Counselors (Hanoi and Singapore's embassies)

