



Enhancing ASF/CSF Surveillance through Laboratory Diagnosis: Advances, Best Practices, and the Role of Reference Laboratories

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USDA | APHIS | VS | D&B | NVSL

GF-TADS Standing Group of Experts on ASF

Transboundary Swine Diseases for the Americas (ASF/CSF)

September 23-24, 2025



Animal and Plant Health Inspection Service
U.S. DEPARTMENT OF AGRICULTURE

WOAH ASF/CSF Reference Laboratories



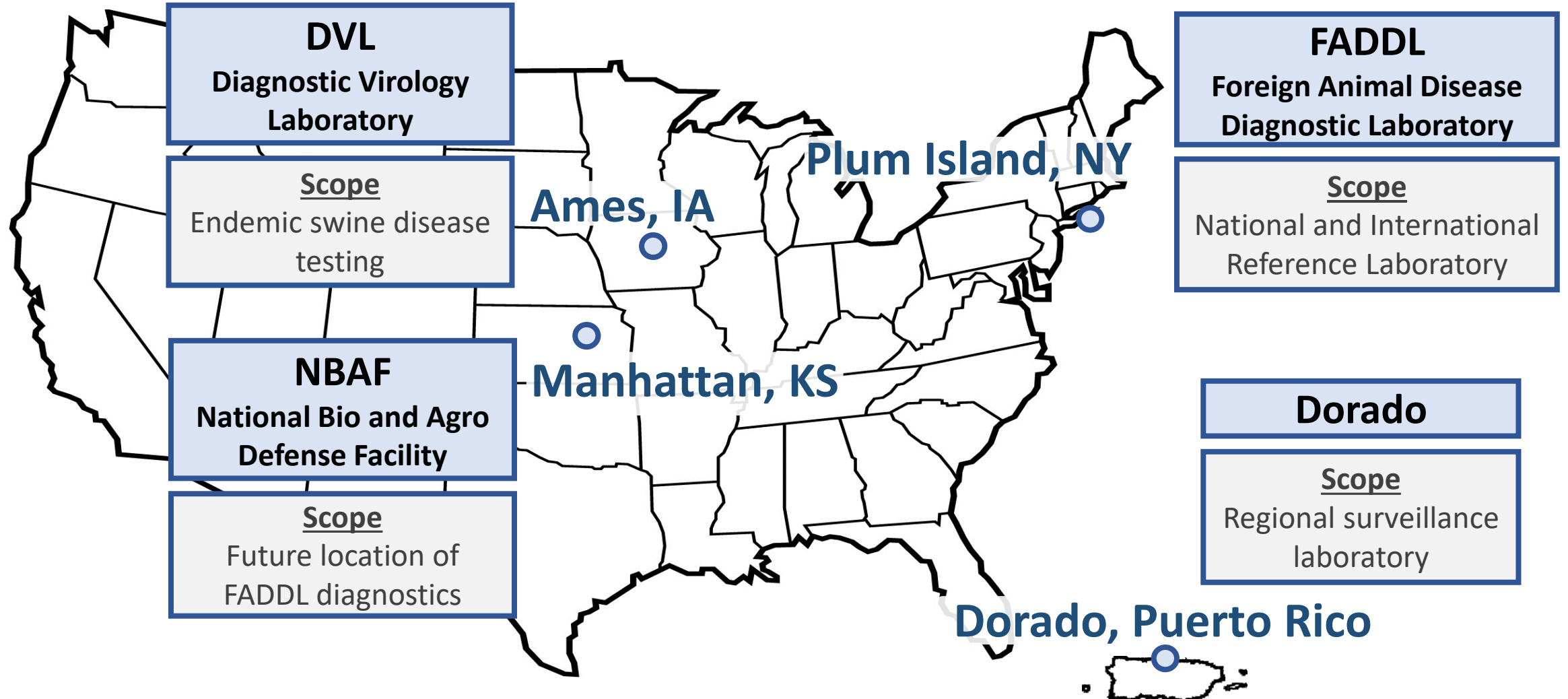
ASF
CSF
ASF & CSF



World Organisation
for Animal Health
Founded as OIE



United States National Veterinary Services Laboratories



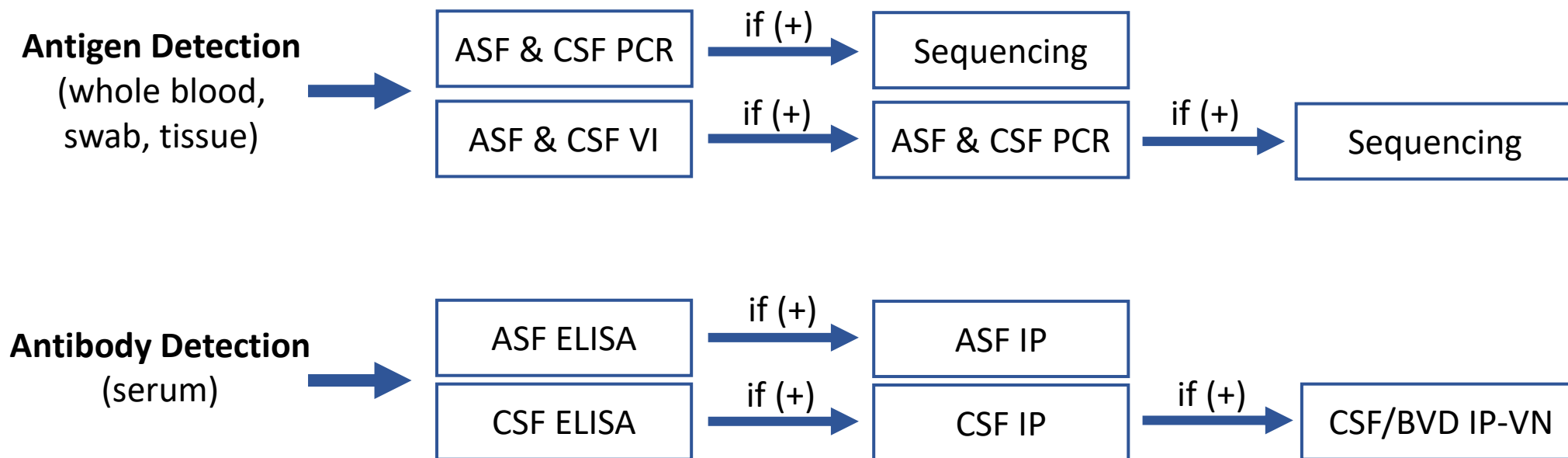


NVSL Services for ASF & CSF

- **Diagnostic testing**
 - Molecular & genomics methods
 - Serological methods
 - Virus isolation methods
 - Histopathology and advanced imaging modalities
- **Proficiency testing**
 - Synthetic ASF & CSF PCR antigen PT panels
 - Inactivated ASF & CSF ELISA serological PT panels
- **Reagent production**
 - Synthetic positive controls
 - Immunoperoxidase test kits
 - Gamma irradiation
- **Methods development and Validation**
 - Evaluation of new technologies, equipment, and methods
 - Validation of methods, sample types, and equipment for use in official diagnostics



ASF/CSF Disease Confirmation





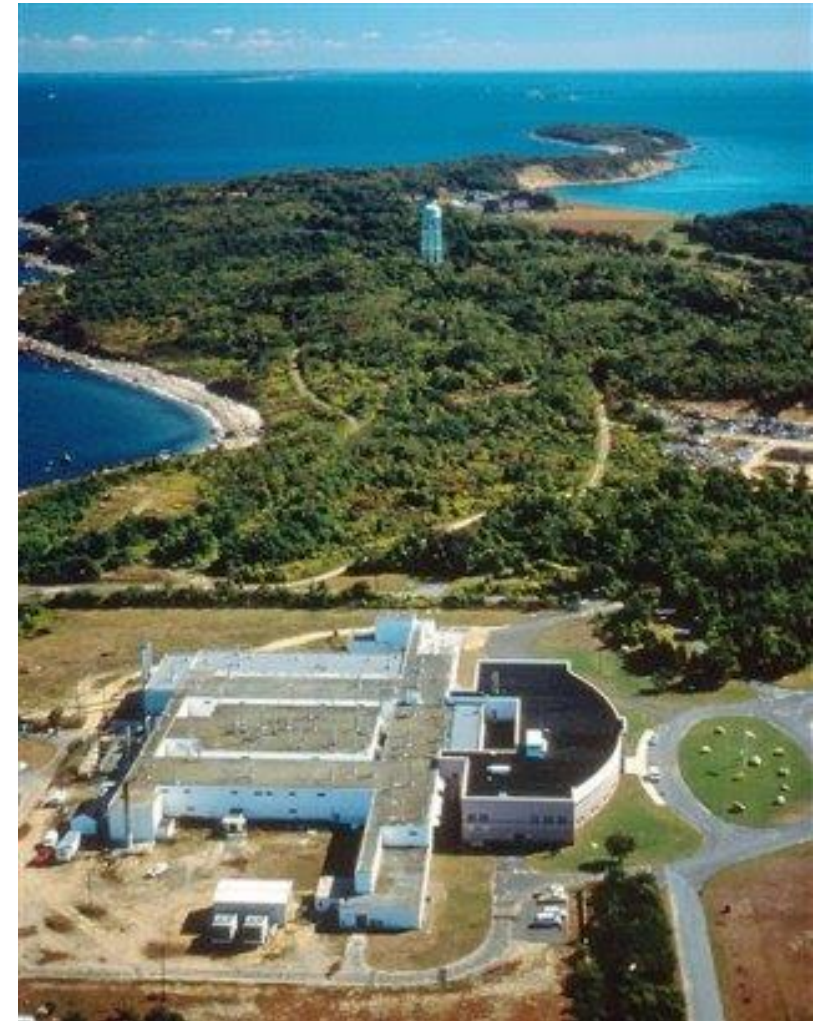
Ongoing ASF/CSF Preparedness Efforts

- Facility development
 - **Plum Island, New York:** Closure of operations
 - **Manhattan, Kansas:** Standup of operations
 - **Ames, Iowa:** Continuity of operations
 - **Dorado, Puerto Rico:** Enhancement of operations
- Methods development
 - **Oral fluids** study in Ghana
 - Evaluation of **Point of Care** assays
 - Preparation of **irradiated material** for panel production
 - Study of **tick vectors** for ASF



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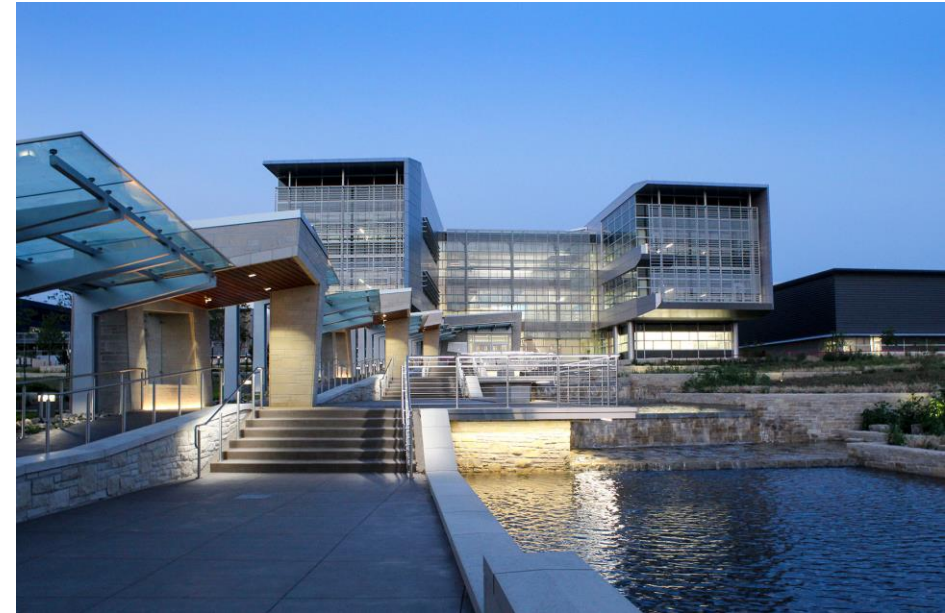
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