



## SOLUTION: Build New Veterinary Diagnostic Laboratory

- **Thank you** for your support. We sincerely appreciate recognition of the impact and need with the \$63.5 million over 6 years from Rebuild Iowa Infrastructure Fund.
- ISU worked with architects and engineers to bring 2014 program plans up-to-date.
  - ✓ Program space needs validated
  - ✓ Decrease from 151K gsf to 139K gsf
  - ✓ Construction cost of \$555/gsf. Comparable to other new VDLs
  - ✓ Space utilization efficiency increased from 55% to 63%
  - ✓ Total cost to meet expanding diagnostic program needs = \$126 million
- \$75 million (\$63.5 Legislature + \$11.5 ISU and Donors) builds phase 1 which includes essential infrastructure and 48% (73K gsf) of the needed program space including:
  - ✓ Receiving
  - ✓ Pathology
  - ✓ Bacteriology
  - ✓ Necropsy
  - ✓ Histopathology
  - ✓ Incinerator
- Critical unmet needs which will need to be addressed in phase 2 include:
  - ✓ Analytical Chemistry
  - ✓ Molecular Diagnostics
  - ✓ VDL Research
  - ✓ Serology
  - ✓ Virology
  - ✓ BSL-3 Necropsy
- The VDL provides outstanding return on investment by supporting the critical diagnostic needs necessary to support Iowa's animal agriculture industry.

### IOWA STATE UNIVERSITY College of Veterinary Medicine

VDL Economic Impact Study: [vetmed.iastate.edu/VDL-Economic-Impact-Study](http://vetmed.iastate.edu/VDL-Economic-Impact-Study)

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## REQUEST: Increase of \$410,000 (10%) in funding for VDL Operations.

### The \$4.1 million direct appropriation through Agriculture and Natural Resources allows the VDL to:

- Continue to provide unbiased, critical diagnostic services to meet the needs of Iowa animal owners and consumers.
- Position Iowa to continue to participate in national animal health networks and surveillance programs for domestic diseases.
- Serve as 1 of 14 Tier 1 labs in the U.S. National Animal Health Laboratory Network.
- Detect and capably respond to the introduction of transboundary (porcine epidemic diarrhea virus 2013-14), foreign animal diseases (highly pathogenic avian influenza virus 2015), and emerging diseases of animals (Senecavirus A 2015-16) and humans.
- Provide the research infrastructure to be the nation's leader in food-animal diagnostic medicine.
- Preserve and continue to grow Iowa's access to export markets: ~23% of U.S. pork, ~11% of U.S. beef, ~19% of U.S. chicken is exported.



**IMPACT: A 1% increase (or decrease) in Iowa's \$32.5 billion animal agriculture economy = \$325 million impact on Iowa**

[vetmed.iastate.edu/vdl](http://vetmed.iastate.edu/vdl) 2

## World-Class Veterinary Diagnostic Lab Needs a Suitable Facility

The Veterinary Diagnostic Laboratory (VDL) at ISU protects animal and human health and advances Iowa's \$32.5 billion dollar animal agriculture economy.

- Processes **90,000+ diagnostic cases/year, doubled in 6 years**
- Teaching the next generation of animal health professionals
- Conducts applied research of high relevance (animal health, food safety, zoonotic diseases)

LAND-GRANT MISSION

### SERIOUS INFRASTRUCTURE CHALLENGES

- 43 year-old facility, outdated HVAC, plumbing, electrical
- 1976: 10 faculty, 20 staff, 16,000 cases/year
- 2018: 25 faculty, 130 staff, 90,000+ cases/year, largest food animal caseload in U.S.
- Compromised biosafety & biocontainment
- Severe overcrowding



Current VDL Facility Entrance

#### Excerpts of External Review Panel Reports:

"...the space and structural limitations of this aging facility combined with the rapid growth of the laboratory will, in the opinion of this site team, limit the laboratory's ability to adequately respond to a large-scale foreign animal disease outbreak." – 2017 AAVLD Accreditation Site Visit Report

IOWA STATE UNIVERSITY  
Veterinary Diagnostic Laboratory

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## IOWA STATE UNIVERSITY Veterinary Diagnostic Laboratory

The Iowa State University Veterinary Diagnostic Laboratory (ISU VDL) serves to protect animal and human health while advancing Iowa's \$32.5 billion animal agriculture economy.

**\$4.1M** Currently the ISU VDL receives an annual \$4.1 million appropriation, approximately 17% of the overall budget for the lab.

- Compared to peer labs, the percentage of budget the ISU VDL derives from fees charged to clients is among the highest in the nation.
  - > ISU VDL receives 17% of its budget from state appropriations.
  - > 85% of all state VDLs receive in excess of 20%.
  - > Average funding level is 44% of budget.
  - > 8 labs receive more than 60%.
- Baseline funding is critical to sustain a level of preparedness.
  - > To respond to disease outbreaks such as Avian Influenza, African Swine Fever, and Foot and Mouth Disease.
  - > To recruit and retain the quality and level of staffing for appropriate response.
  - > To keep tests affordable and encourage routine testing. Increased utilization of the lab facilitates early detection of disease and decreased "spillover" to neighbors.
- A recently published study estimated that \$31.79 million in state taxes are generated from the lab in normal years and \$124.15 million in state taxes are generated in times of an animal health emergency. This equates to a 8:1 return on investment during normal years and a 31:1 return on investment during times of an animal health emergency. [vetmed.iastate.edu/article/economic-contribution-isu-vdl](http://vetmed.iastate.edu/article/economic-contribution-isu-vdl)

