United States Department of Agriculture

National Institute of Food and Agriculture



BIOENERGY, CLIMATE, AND ENVIRONMENT



FOOD PRODUCTION AND SUSTAINABILITY



YOUTH, FAMILY, AND COMMUNITY



FOOD SAFETY AND NUTRITION





INTERNATIONAL PROGRAMS



USDA

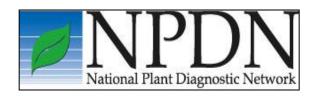
NATIONAL INSTITUTE OF FOOD AND AGRICULTURE

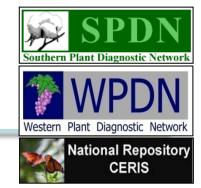


National Plant Diagnostic Network (NPDN): Outcomes and Challenges

National Plant Disease Recovery System (NPDRS) Meeting Washington, DC – April 15-16, 2013







Martin Draper
National Program Leader
Plant Pathology and IPM

The Grand Societal Challenges

- Energy
- Water
- Food
- Environment

National Institute

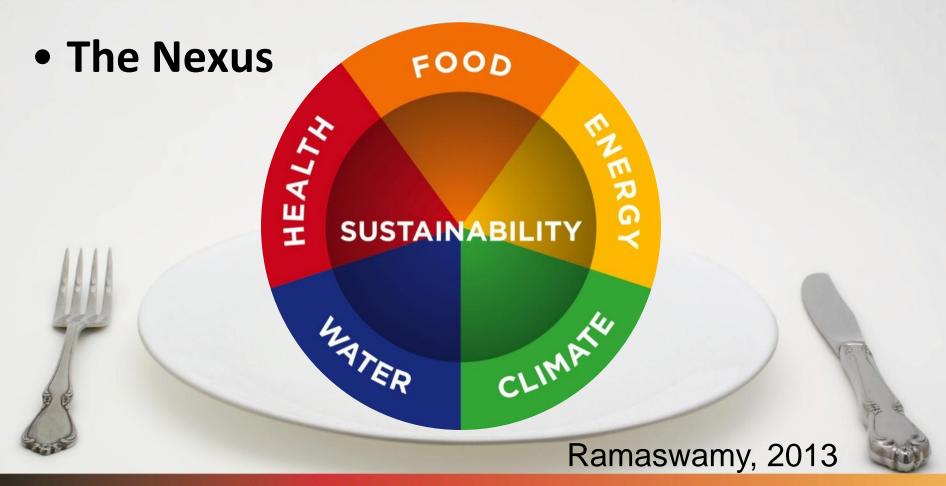
Disease

- Poverty
- Education
- Terrorism and War
- Democracy
- Population





The Grand Societal Challenges



History

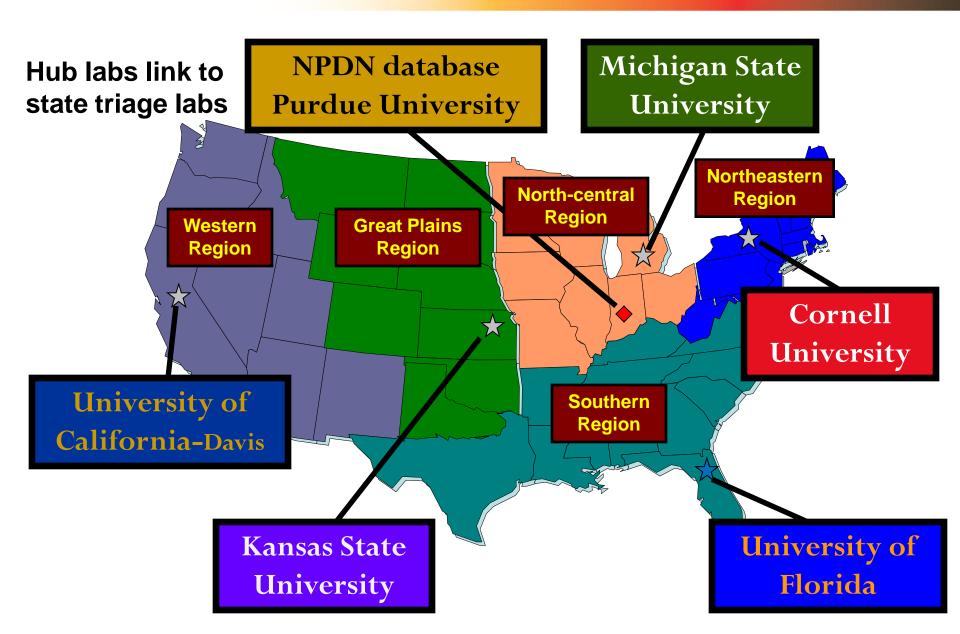
- NPDN created in 2002
- Hub and spoke system
 - Integrates all states through LGUs
 - Five regional hubs
 - One national data center

History

The mission of the NPDN is to protect US agricultural and natural plant systems by:

- Facilitating early detection of pests and pathogens through <u>outreach and education</u>,
- Performing rapid and accurate diagnoses,
- Ensuring timely reporting, and
- Supporting response through partnerships and coordinated surge capacity.







Mission

- Critical activities
 - Establish Communications System
 - Coordinate First Detector Training
 - Standardize and Certify Diagnostics
 - Provide Administrative Management

History

- Built and leveraged:
 - Capacity
 - Expertise
 - Quality
- Improved capability and capacity
- Upgraded assays
- Designed to meet regulatory needs
- Established Certification and Accreditation

Accomplishments

- Public Education First Detectors
- SBR
- Ralstonia
- PPV
- SOD
- Wheat Stem Rust Ug99
- What next?

Challenges

- Declining Federal commitment
- Loss of continuity
- Loss of expertise
- State partner issues
 - Budgetary
 - Commitment to partnering

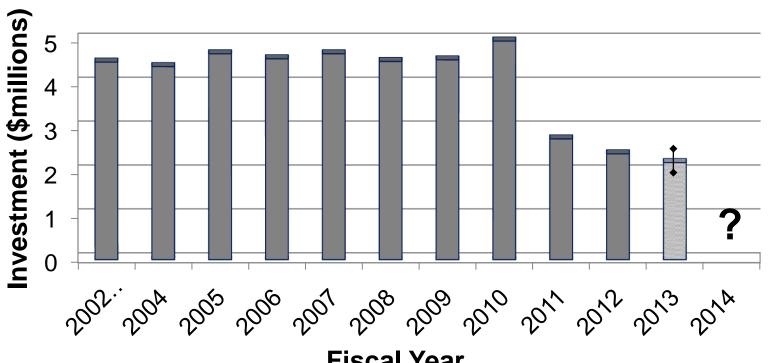
Challenges

- Resource limitations
 - 52% decline in Federal funding since 2009
 - State cuts
 - Diagnosticians are largely non-tenured
 - External funds
 - Backfilled for First Detector training
 - Significant to STAR-D



FADI/NPDN Funding Challenges

NPDN



Fiscal Year



ipmPIPE

- Tracking of high consequence pests
- Limited support for existing platforms
 - ZedX SBR-PIPE
 - NCSU CDM-PIPE
 - TAMU Pecan ipmPIPE
- Sustainability questions
- Controversial in certain commodities



Questions for Consideration?

- What are the best next steps?
- How do we assure the sustainability of our function in a shifting landscape?
- What is the right shape of NPDN?
- Is NPDN still needed?



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