

New Solutions, Challenges, and Opportunities: CAPI the NASS Way

Seminar on New Frontiers for Statistical Data Collection

Geneva, October 31 - November 2, 2012

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United States Department of Agriculture

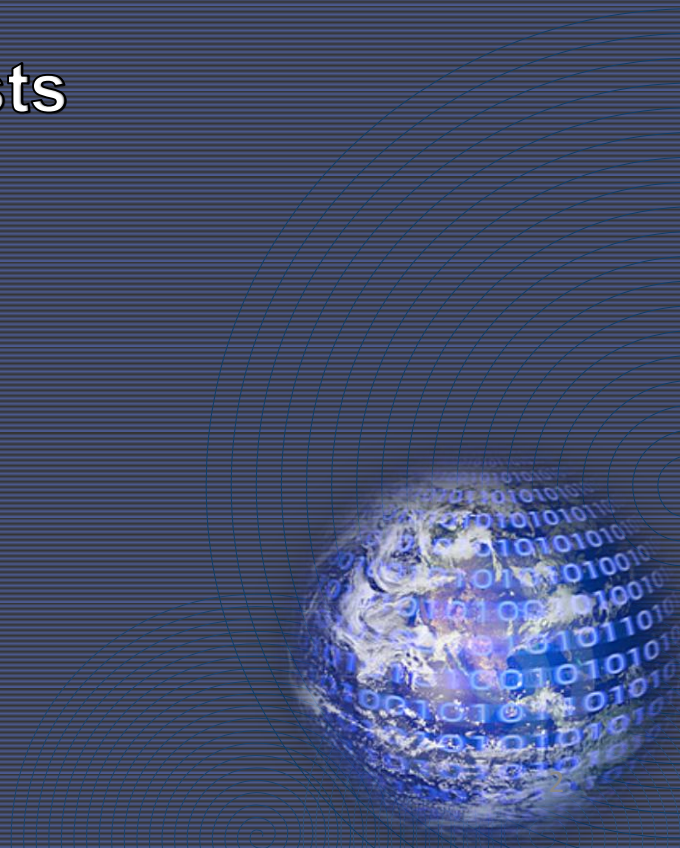
National Agricultural Statistics Service



Why??

Efficiencies Gained...Initiative #3.

- Decrease Field Office Staff Time
- Printing Costs
- United Parcel Service /Postal Costs
- Improve Data Quality
- Timeliness of Data
- Reduce Respondent Burden
- Increase Response Rates



CAPI History at NASS



- 1980's – 1990's - Conventional Laptop Computer (Indiana and Pennsylvania)

- 2004 - Portable Digital Assistant (PDA) (North Carolina)



- 2005 - Tablet PC (Iowa)



- 2007 - Convertible Laptop/Tablet



- 2010 - Lenovo Netbook (Indiana and New Jersey)



- 2011 - CAPI Solution! Apple iPad (Indiana and New Jersey)



CAPI Team



- Executive Sponsor: Renee Picanso - Director
- Business Council Sponsor: David Kleweno
- Pam Hird: Pam Hird CAPI Project Manager
- 9 Team members
- 4 full time / 5 part time
- Senior Programmer: Mojo Nichols, Contractor



Challenges for Deployment.....



- Technology
- Signal fluctuation
- Electronic Data Repository (EDR) platform
- Security
- Budget
- Resistance to change
- Training the end user



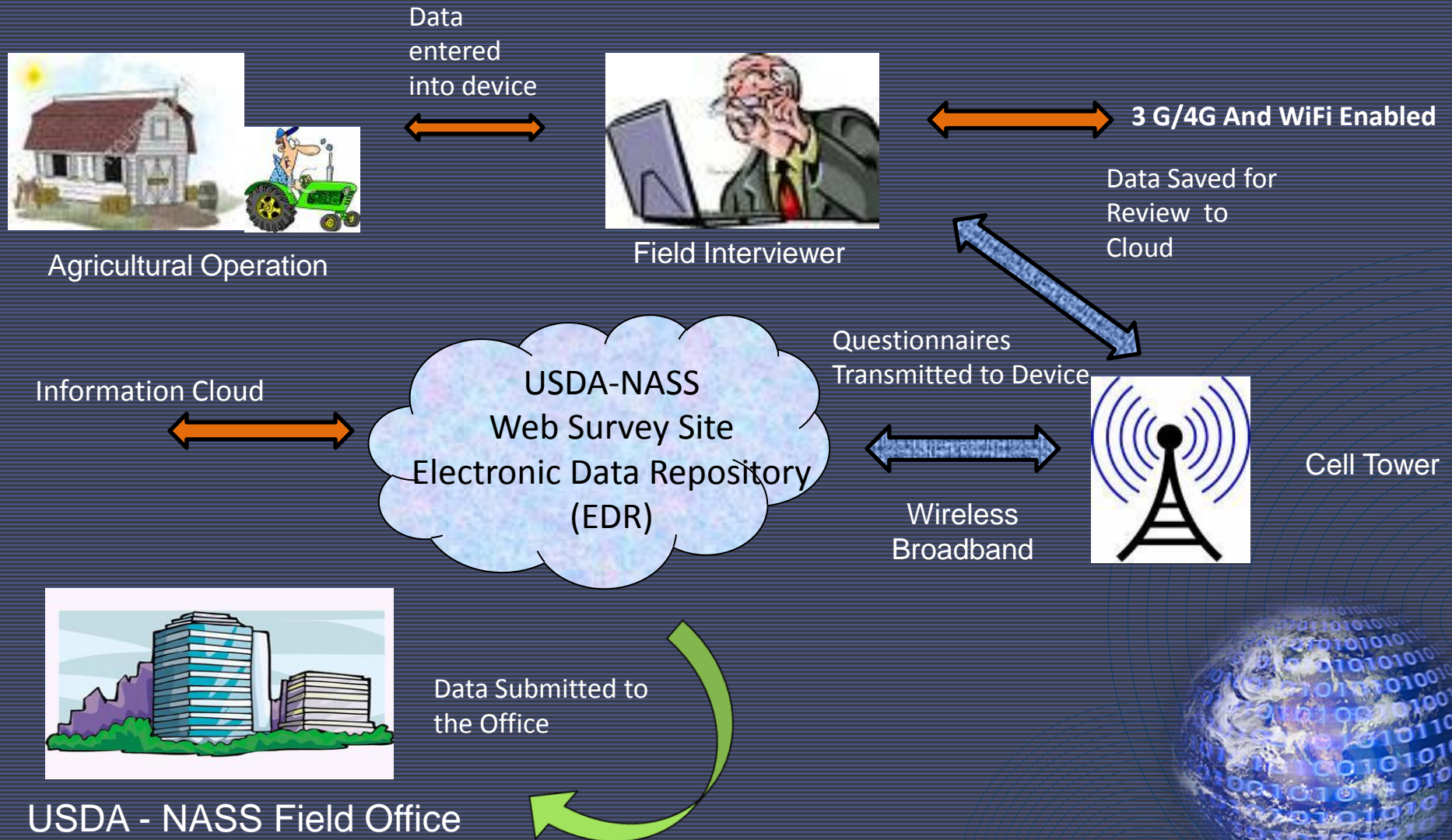
Project Timeline



- **Phase 1** Proof of Concept – Nov 2009–Dec 2010
 - Field Testing (2)
 - Recommendation for improvement
- **Phase 2** Integration and Optimization – Dec 2010–Sept 2011
 - Pilot states (8) added for testing in production
- **Phase 3** Full Implementation – Oct 2011–Jan 2013
 - 46 field offices
- Continuous improvement – put into production and improve over time



CAPI Solution



Unique Elements of the Solution



- Security
- EDR system
- AJAX
- Training program



Solutions Training Program



- Developed over a 2 year timeframe
- All methods of Learning
- Instructors – KEY
- Streamlined training program to 12 hours (50%)
- Paired Field offices
- Dynamic and energetic



Solutions.....Build the Excitement



- iPad – new and exciting solution
- Marketing – internal and external
- Ownership in project
 - ❖ End user testing
 - ❖ Incorporated suggestions
 - ❖ Solution makes job easier



Built in Efficiencies



- Supervisor interface
- Electronic enumerator assignment
- Extended data collection timeframe
- Questionnaire review remotely
- Quality checks



Trends



- Positive acceptance – enumerators and respondents
- Training program effective – retention and quality
- Significant reduction field office staff hours
- Increased data quality
- Timeliness of data
- Reduction in paper requirements



Projected Savings



- Current surveys - \$3 million annually
- After incorporation of complex surveys
\$6 – \$10 million annually
- Return on investment – 3 to 5 years
- Approximately 20-25% reduction in
field office costs



Current Challenges.....



- Changing technology
- Additional budget constraints
- Continued training
- Tightening security
- Integration into current/developing systems
- Project expansion beyond scope



What's Next for CAPI ???



Questions ?

Comments ?

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