



Minnesota NAIS Swine Project 2004-2005

Dave Wiklund
NAIS Project
Coordinator



What we wanted to do

- Use RFID's in production pigs to allow a combination of group / lot ID and individual ID
 - Tag a small % of pigs at wean
 - Combine that ID with a group / lot ID
 - Electronically capture and report all individuals with RFID in every group at the receiving premises
 - Capture data at 4 premises
 - Upload individual animal and group data to a central repository

Who contributed to the project

- USDA
 - Funding and data framework
- Minnesota Board of Animal Health
 - Project objectives, data repository
- Digital Angel
 - Tags, software, hardware, data storage and exchange
- Protein Sources
 - Paid for tags, tagging, data collection



Hardware and Software

- Minnesota Board of Animal Health
 - GDB for data storage (animal ID table)
- Destron (Digital Angel)
 - Pigsmart for data capture and reporting
 - FDX RFID's
 - Bluetooth paddle RFID readers
- Protein Sources
 - Pigsmart for data capture and reporting



Animal Flow

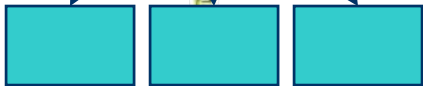
Gilt Multiplier

Sow Farms



1st Read

Nursery



2nd Read

Finisher



3rd Read

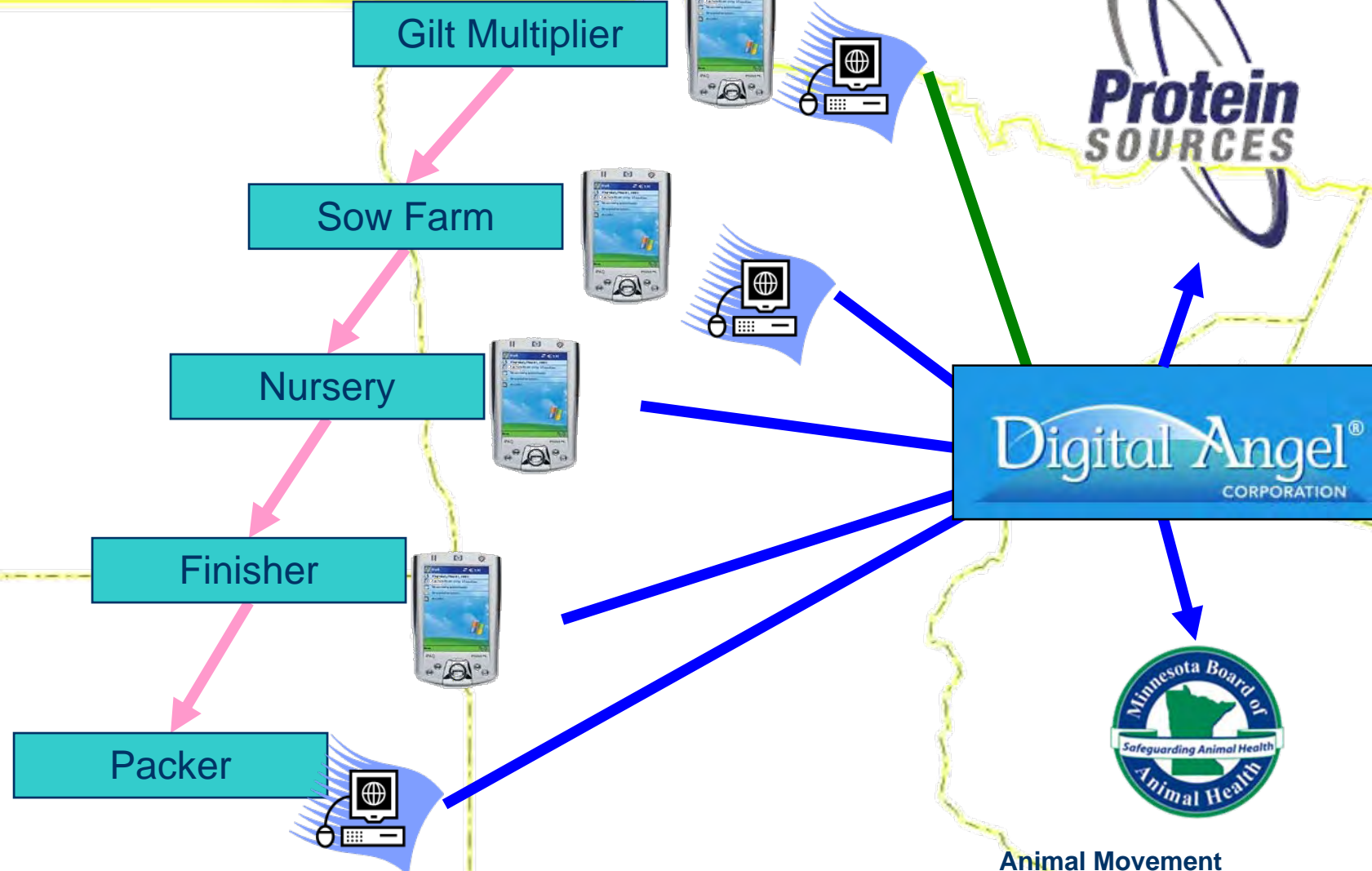


Packer

4th Read



Data Flow



Animal Movement

Individual Animal Data

Group and Individual Animal ID Data

Incomplete



- All data transfer
- Test exercise
- Analysis of project



What we have learned

- NAIS in some segments can be done now
- Hardware and software is available now
- Need mandatory rules for reporting

This Year

Voluntary premises registration

- 9044 registered to date
- By Species

• Beef	5440
• Dairy	2032
• Swine	1601
• Poultry	1055
• Sheep/Goats	995
• Horses	773
• <u>Misc</u>	<u>154</u>
• Total	12,242

