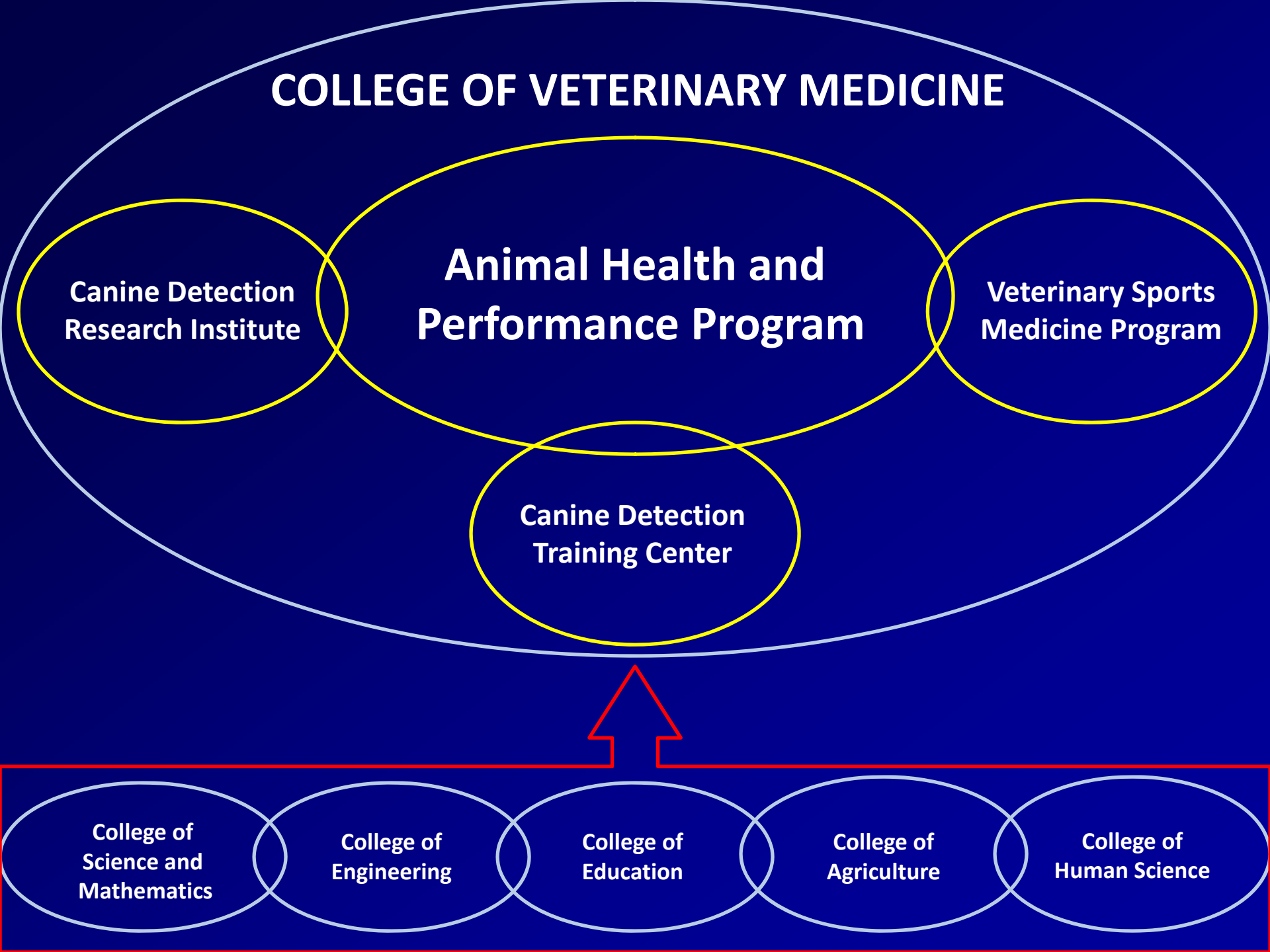
Timber Dogs

Terry Fischer, Chief Canine Instructor

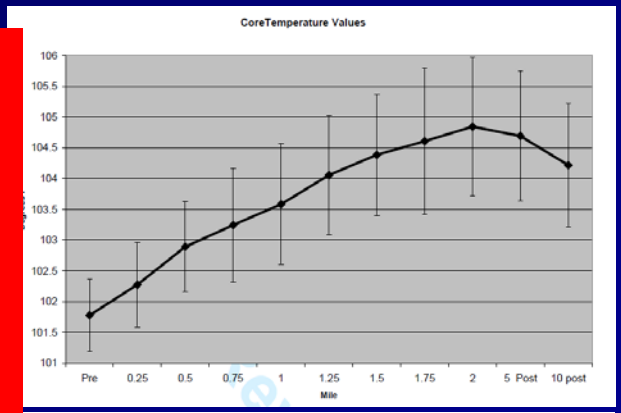
Canine & Detection Research Institute
Auburn University

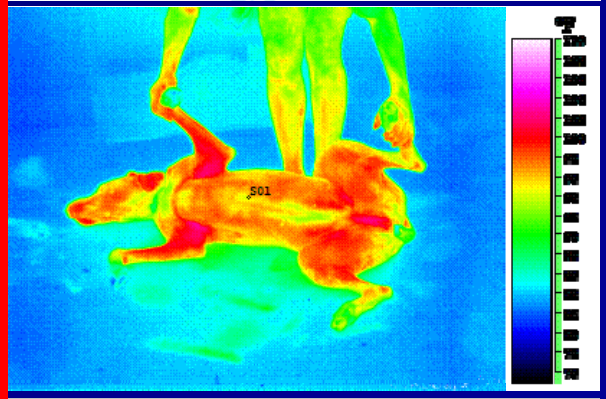
Richard G. & Dorothy A. Metcalf
Veterinary Sports Medicine Program
Auburn University College of Veterinary Medicine

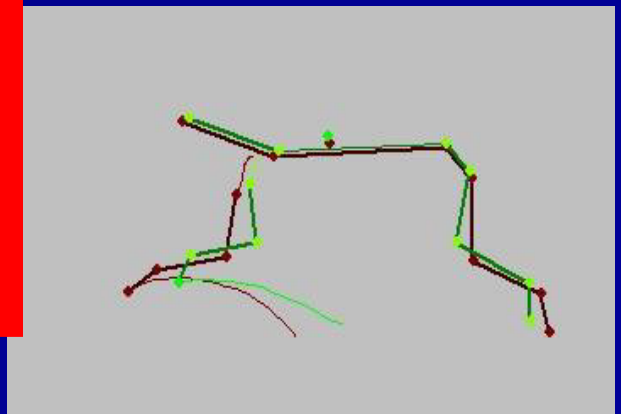

COLLEGE OF VETERINARY MEDICINE
Canine Detection Research Institute
Animal Health and Performance Program
Veterinary Sports Medicine Program
Canine Detection Training Center
College of Science and Mathematics
College of Engineering
College of Education
College of Agriculture
College of Human Science

Animal Health and Performance Program-Defined

- Canine Training
- Olfactory Research
- Biomechanics
- Exercise Physiology and Conditioning
- Nutrition
- Performance Psychology
- Kennel and Program Management
- Breeding
- Field and Clinical Veterinary Care

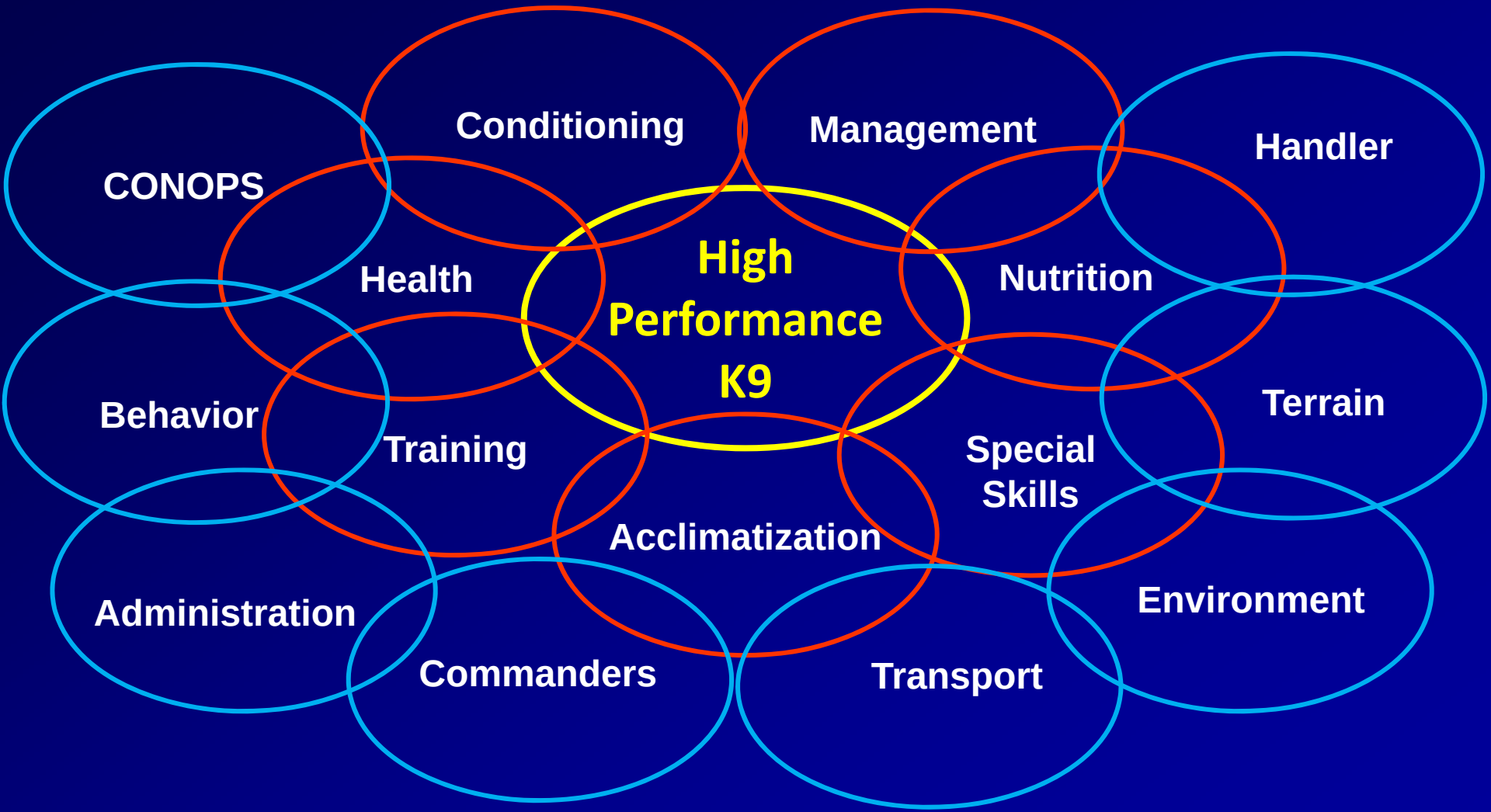






Why the need for diverse expertise?

High Performance K9's are Complex

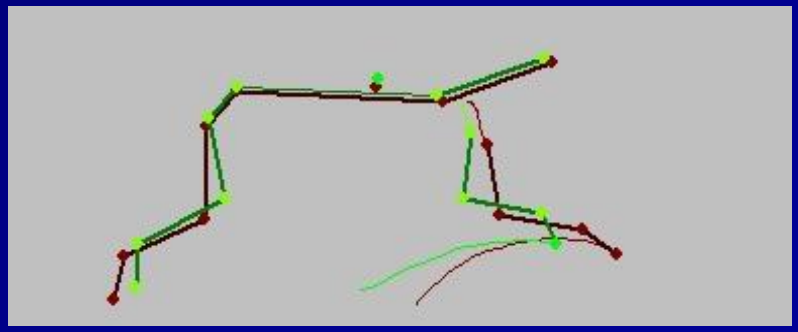


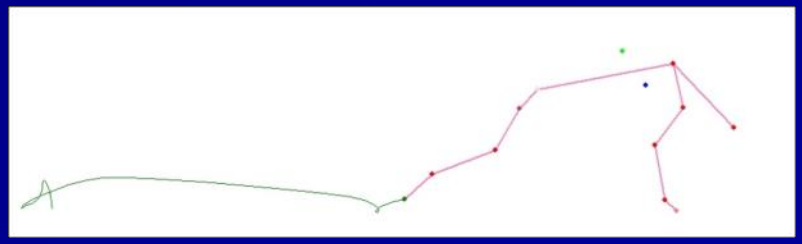
The Auburn Difference

- The only program in the world with:
  - A dedicated CDRI, CDTC, VSMP, and CVM all under one roof
  - A dedicated R & D program for all types of detection dogs
  - A dedicated R & D program for optimizing performance in athletic and working dogs
  - A handler training/education program housed in an educational institution

The Auburn Difference-Continued

- Largest Comprehensive Canine R & D Program outside the federal government
- Scientific approach to canine performance, training and operations
- Scientific support by multiple colleges within the University



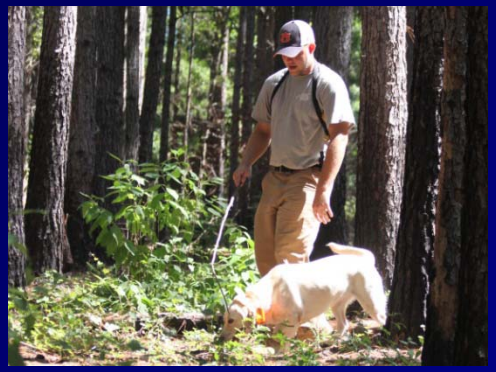


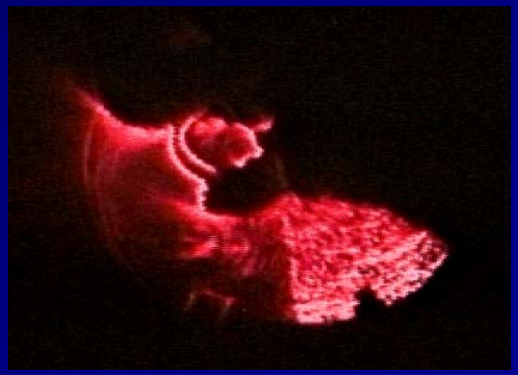
AHPP Importance

- Agriculture & Biology
- Protection and Non Lethal Neutralization of Subjects
- Fight Against Terrorism (Foreign and Domestic)
- Fight Against Drug Trafficking and Illegal Immigration
- Service Dogs
- Search and Rescue

Select Novel Canine Technologies

VAPOR WAKE DETECTION

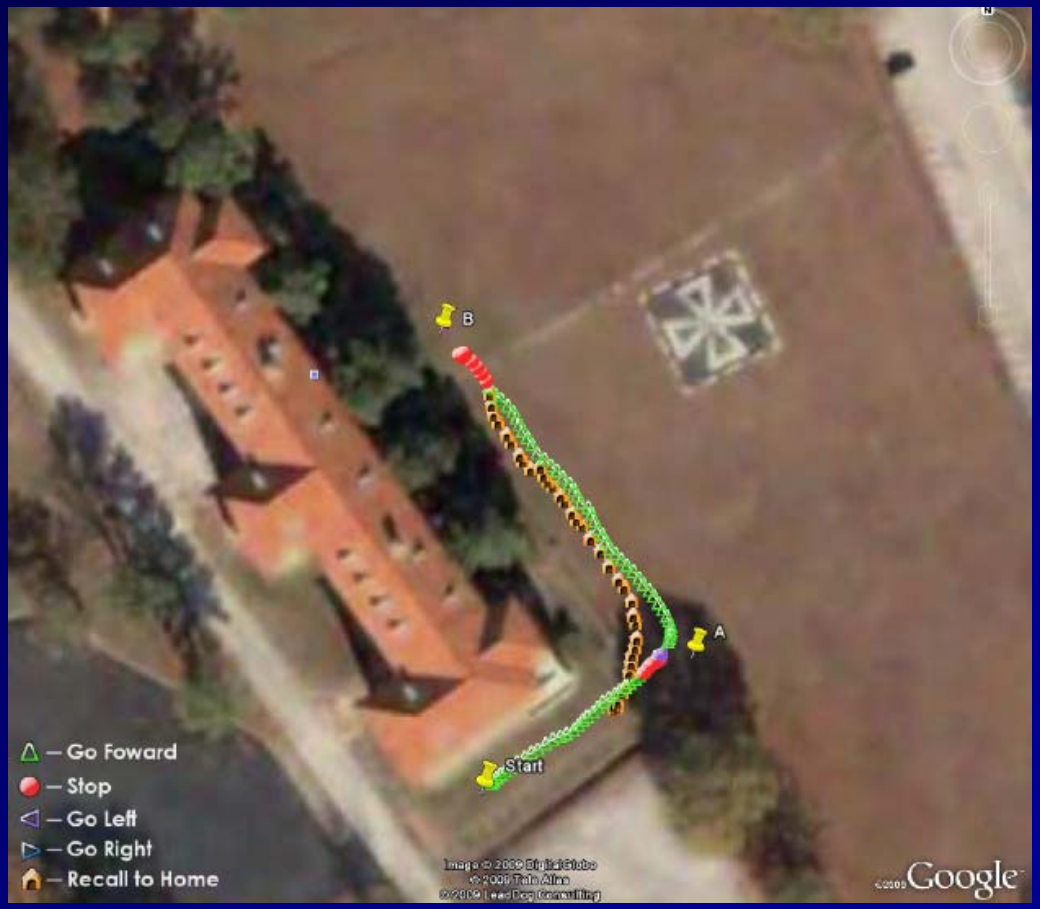


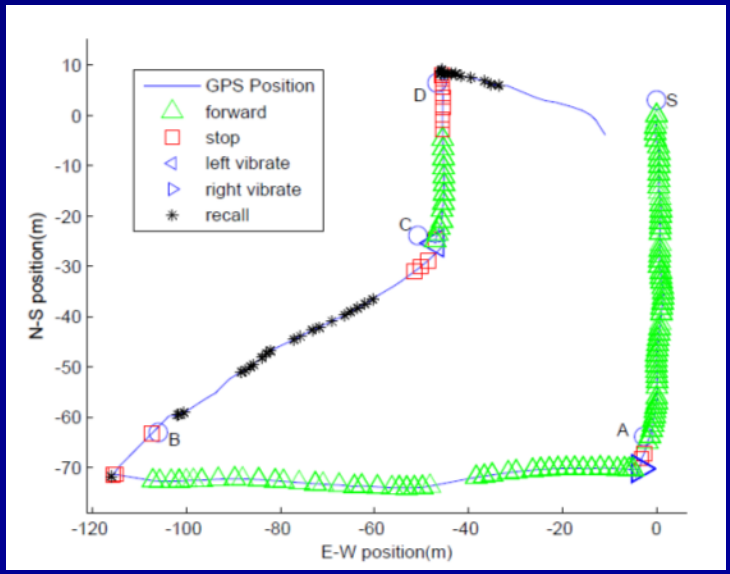


Select Novel Canine Technologies-Con't

Autonomously Controlled Dog:

- The dog is guided using various tones and vibrations





Select Novel Canine Technologies-Con't

Scat Dogs:

Detection of spotted/stripped skunk scat (size = cigarette butt) , Florida panther scat and black bear scat for Biologists

Python Dogs:

Detection of invasive pythons in the Florida Everglades for the National Park Service

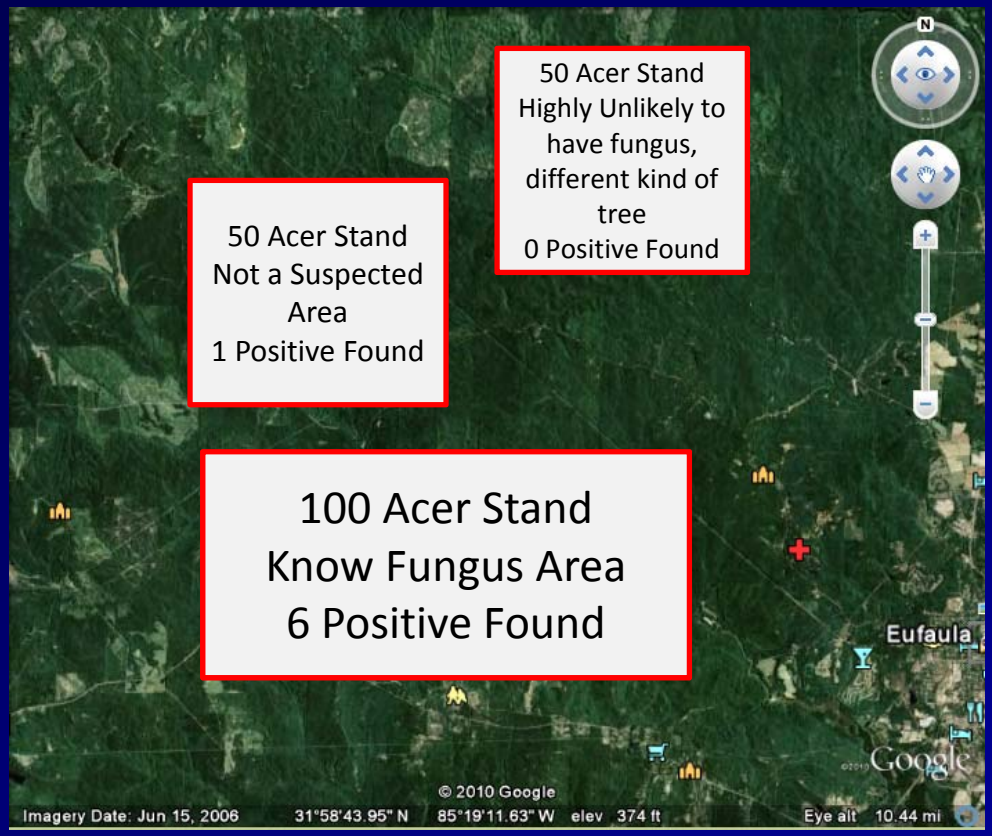
Select Novel Canine Technologies-Con't

- **Timber Dogs:**

  Detection of submerged invasive tree root fungus for the Timber Industry
  - Ever changing and growing biological agent and possibly changing odor threshold
  - Variable depth of growth under ground
  - Variable depth of decaying leaf litter and other masking fungal growth odor on top of the ground
  - No fresh dug soil to queue dog

Field Trial Reports September 30th, 2010

- Searched three sites on Rayonier Property near Eufaula, AL



- Enhance Management of Trees by Finding the Fungus
  - Pinpoint the Infected Trees
  - Determine Fungus Stage
  - Remove Unwanted Trees
  - Protect Your Surrounding Forests

Timber Dogs

A joint effort between the Animal Health and Performance Program and the School of Forestry and Wildlife Sciences

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ANIMAL HEALTH AND PERFORMANCE