

# Use of Mobile Laboratories in Emergency Response



Randall L. Levings  
Veterinary Services  
APHIS, USDA

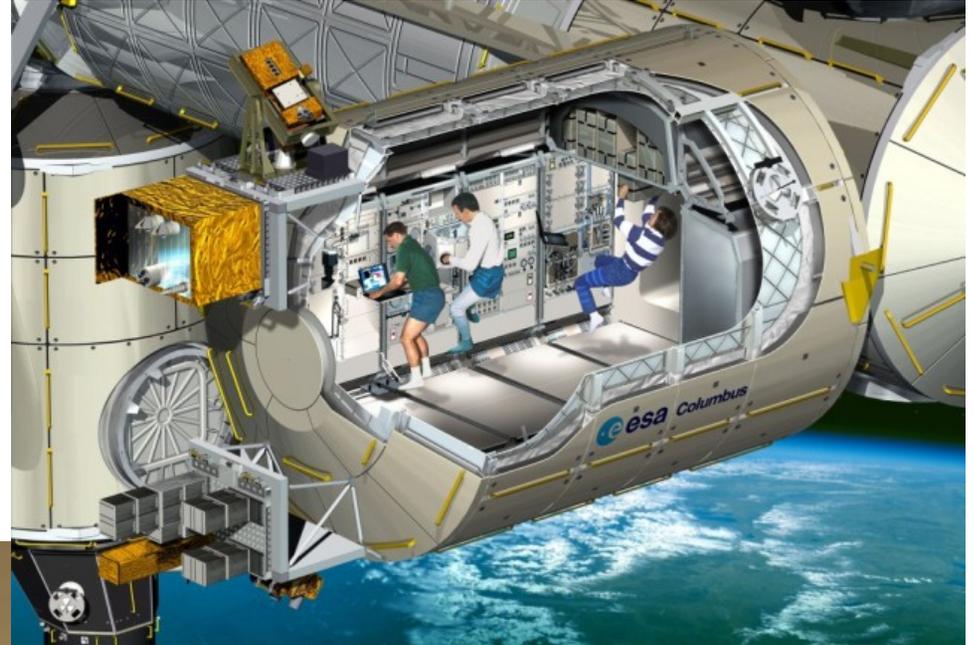


## Safeguarding Animal Health

NAHLN Emergency Response Symposium  
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# Mobile labs – the extremes



## Mobile labs – platforms and uses

### Platforms

- Vehicle accessory
- Small trailer
- Van/truck
- Semi-trailer, RV, bus
  - BSL-2
  - BSL-3
- Modular unit

### Potential Uses

- Sample collection
- Sample preparation
- Lab-on-a-chip, CBRNE triage
- Point-of-care diagnostic
- Serology
- PCR
- Culture

## Mobile labs – platforms & considerations

### Platforms

- Vehicle accessory
- Small trailer
- Van/truck
- Semi-trailer, RV, bus
  - BSL-2
  - BSL-3
- Modular unit

### As proceed down left column:

- Mobility decreases
- Size increases
- Capability increases
- Capacity increases
- Cost increases (\$Ks - 1/x \$M)
- Likelihood of permanent laboratory use increases

# Vehicle accessory



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# Small trailer



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# Van/truck



# Semi-Trailer – triage; RV/buses



# Semi-trailer, sample collection – e.g., TX



# Semi-trailer lab/comm center – e.g., OK



Contact Leslie Cole, DVM  
Em Prog Coord  
ODAFF  
405-522-6136

# Semi-trailer, BSL-3 - e.g., WV & PA



# Modular, BSL-3 – e.g., MI, CO



# Infrastructure/Functional needs Include in mobile lab, or in association?

- Power
- Water
- Fuel
- Waste –  
    liquid, solid; infectious/solvents
- Sample archives
- Communications, records
- Sample collectors, transportation
- Housing
- Decontamination

