

Research Animal Welfare & Scientific Integrity:

An AAALAC International Perspective

John F. Bradfield, DVM, PhD, DACLAM

Senior Director, AAALAC International

Agenda

- Welfare and Science
- Review AAALAC trend data
- Common challenges

Why Animal Welfare in Science Matters



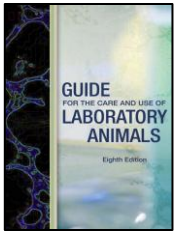
- Ethical Imperative
  - Society
  - Veterinarians
- Scientific Integrity
  - Healthy, well-cared for animals + properly designed studies = better science

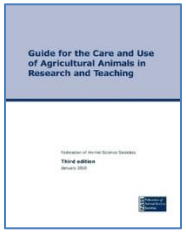
Welfare and Scientific Integrity

- Animals with subclinical disease….
- Post-procedural pain relief….
- Prompt veterinary care…..
- Appropriate environment….
  - Space - pens/ cages
  - Social housing
  - Enrichment
  - Husbandry
  - Illumination
  - HVAC function

AAALAC Mission

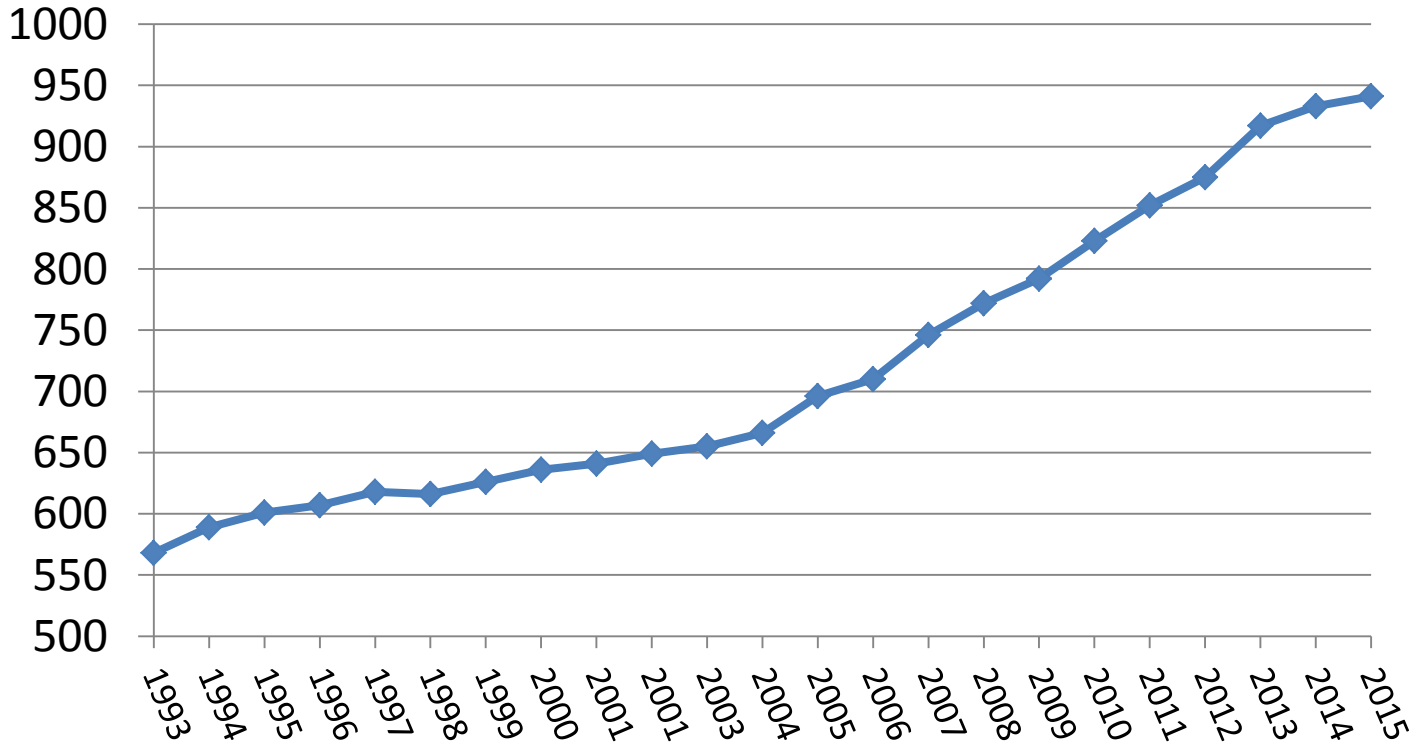
- *……enhances the quality of research, teaching, and testing by promoting humane, responsible animal care and use…..*
- Accreditation
  - Voluntary
  - Confidential
  - Peer-review
  - Site visit every 3 years



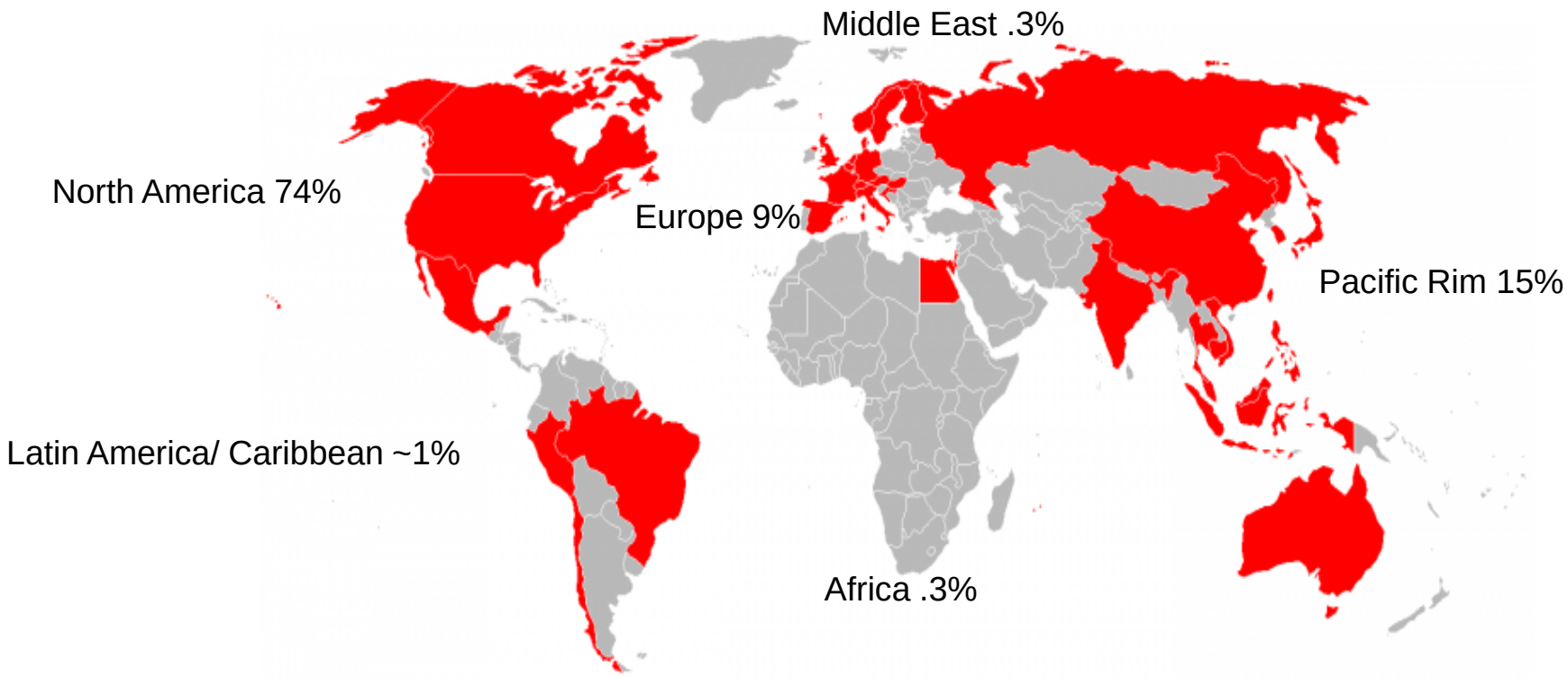




Number of Accredited Programs

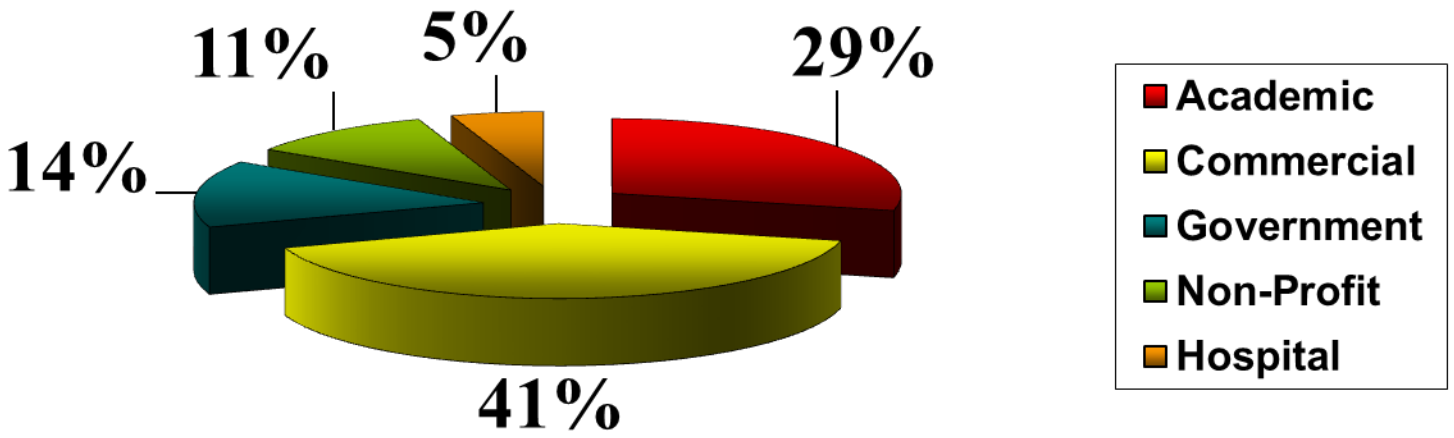


Accredited Institutions in 41 Countries/ Regions



Demographics

- proportion of accredited units by industry sector



Findings - Trends

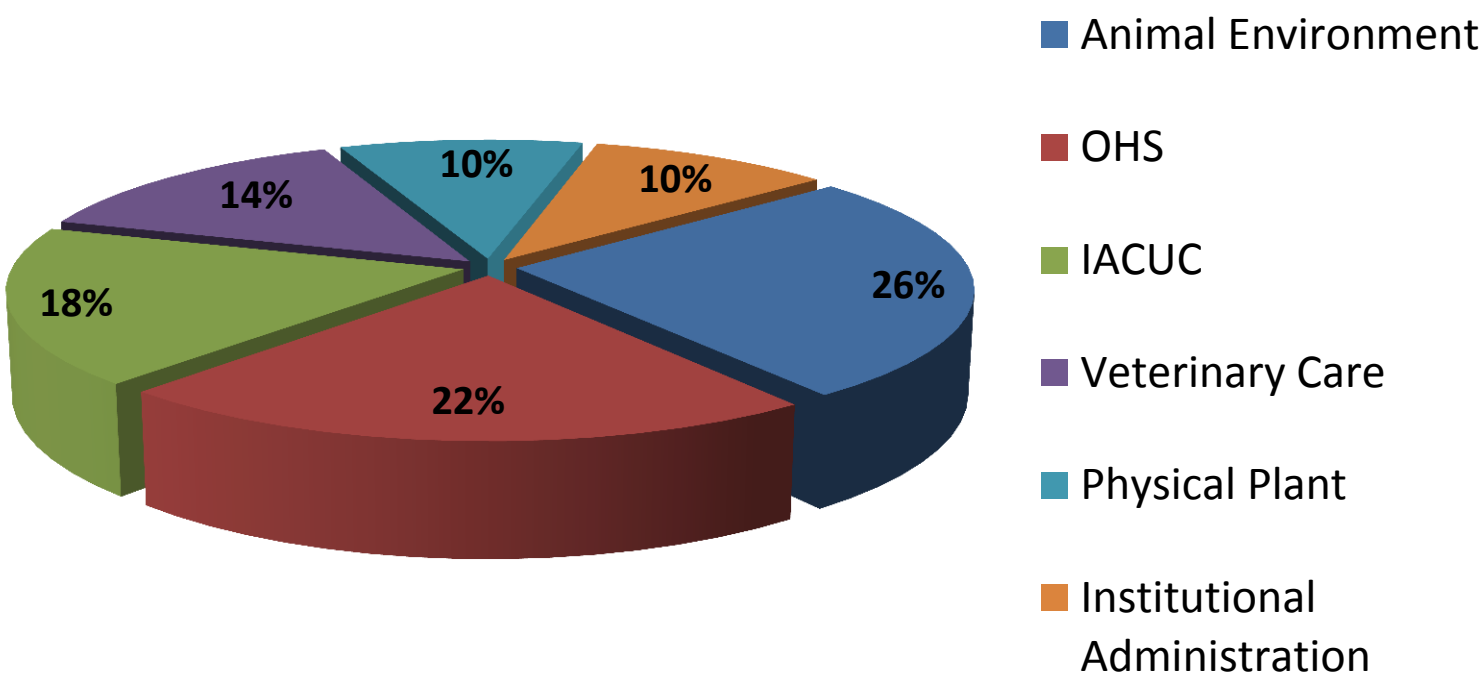


- 671 site visits
- 4815 findings – described at the exit briefing….

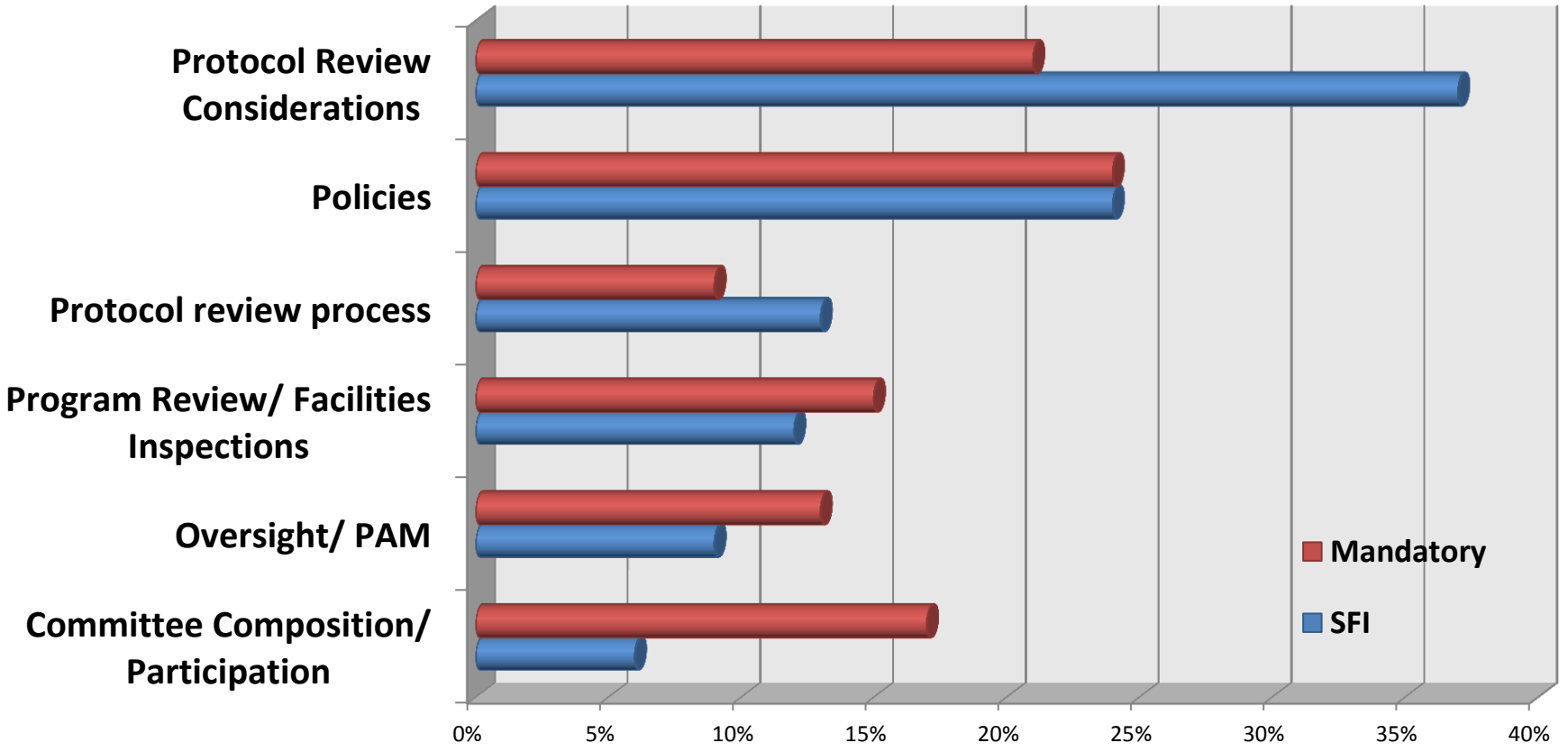
Two Categories of Findings….

- **Mandatory** – *a deficiency that must be corrected in order to maintain (or attain) full accreditation*
- **Suggestion for Improvement (SFI)** – *a deficiency that if corrected would improve the program, but correction is not essential to maintaining full accreditation status*

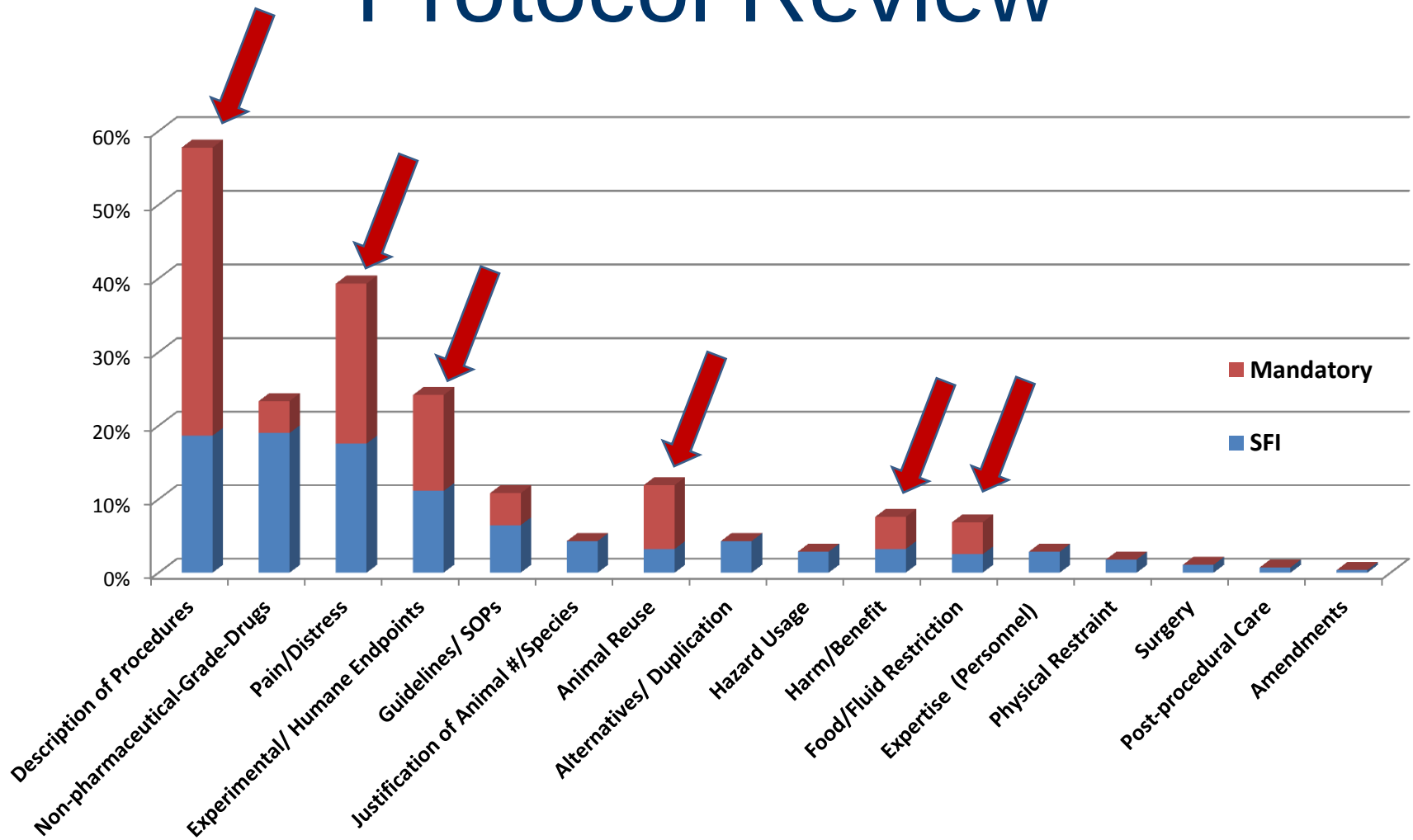
Analysis of Findings



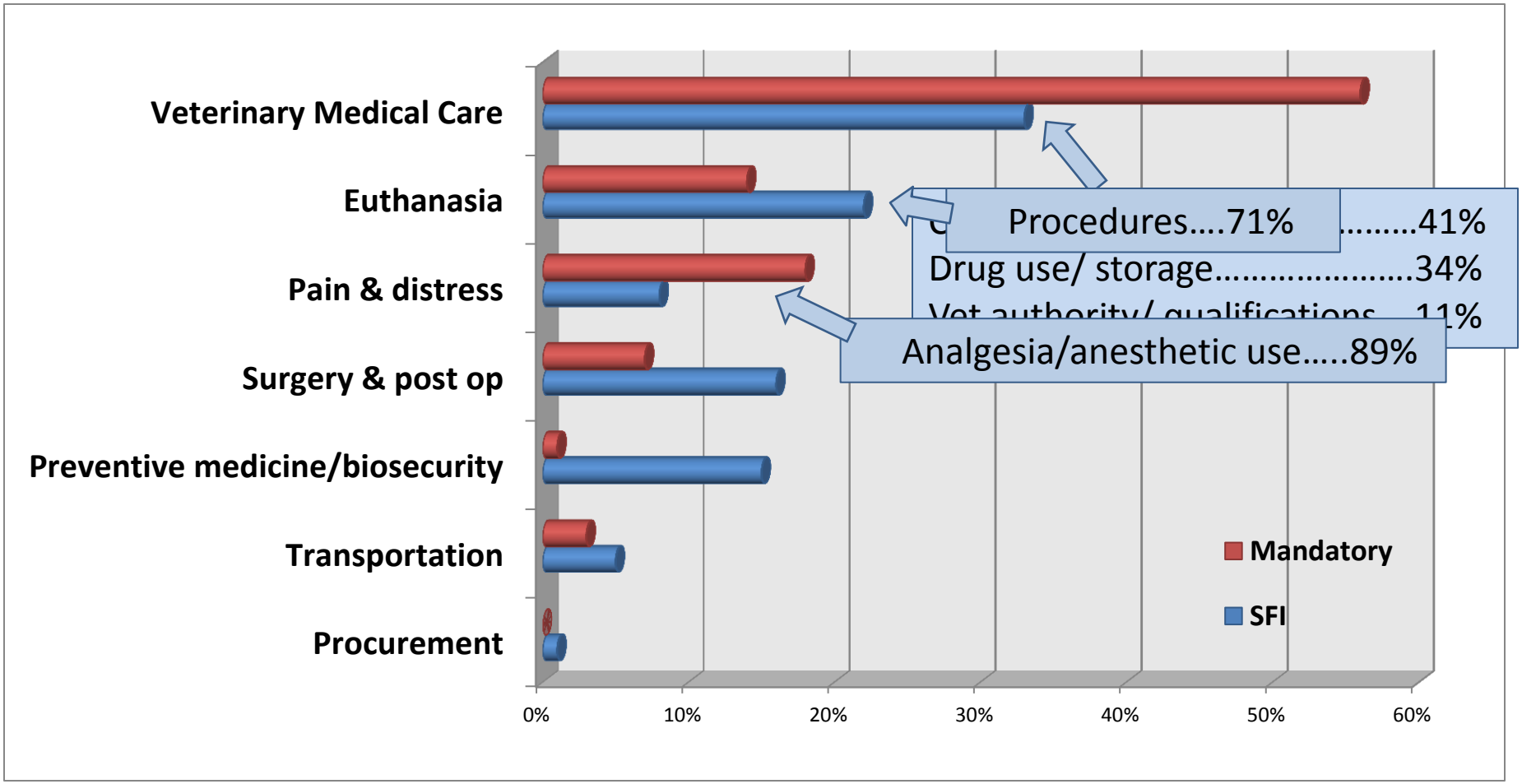
IACUC-Related Findings



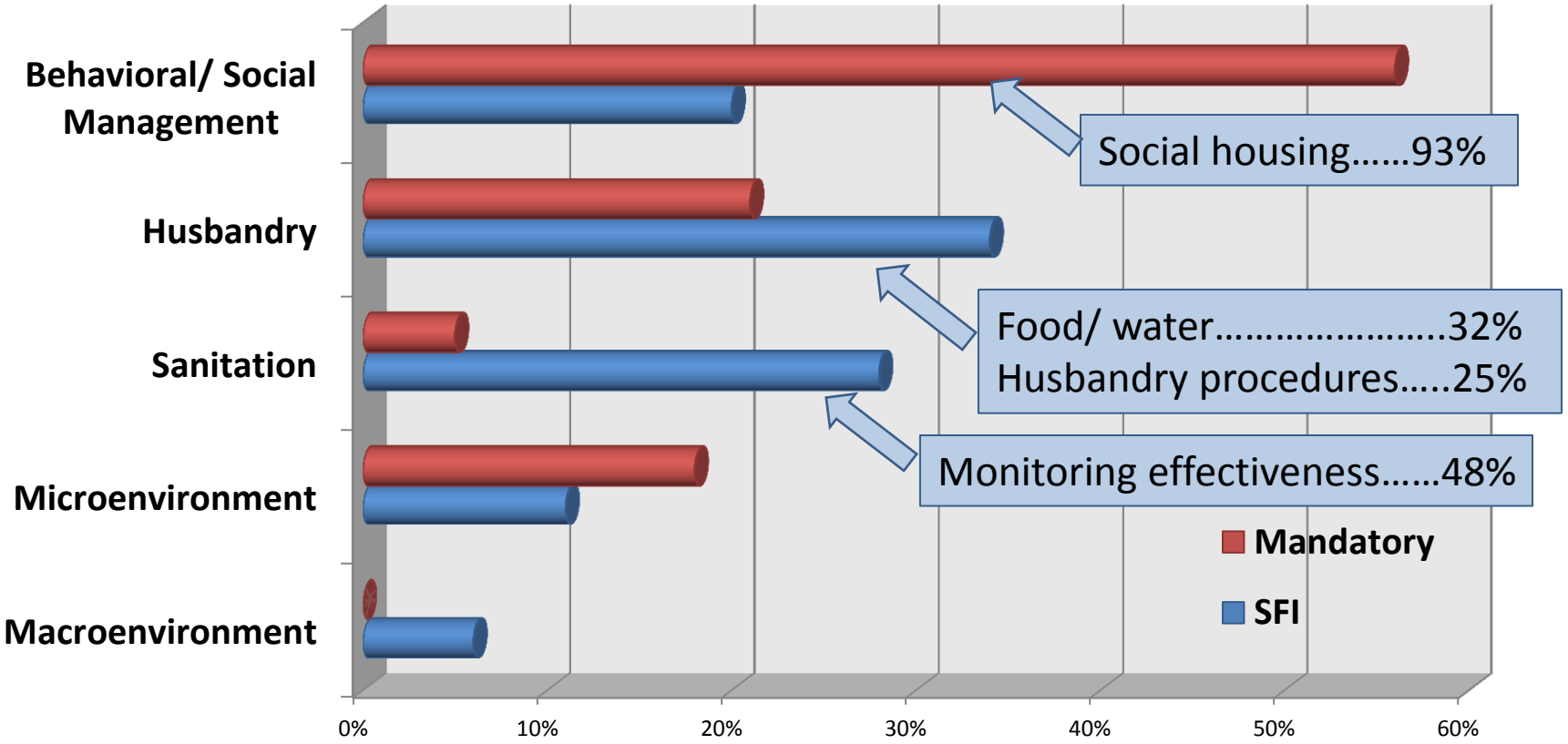
Protocol Review



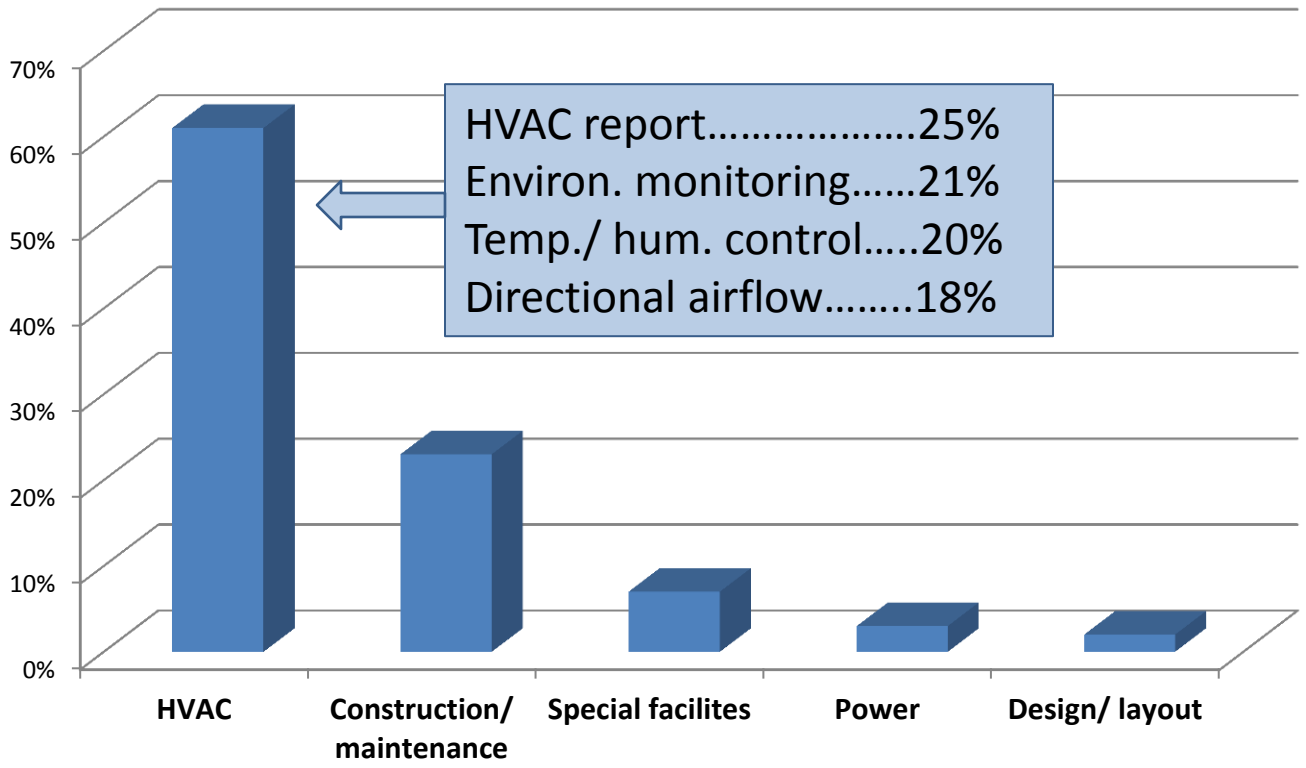
Vet Care Findings



Animal Environment - Findings



Physical Plant - Facilities



Occupational Health & Safety



Analysis - Global Regions



Overall Mandatory issues – by Region

Region	Prevalence
North America……	0.5 (1 in 2 site visits)
Europe……	0.86 (8 in 10 site visits)
Pacific Rim……	1.13 (> 1 each site visit)

Veterinary Care Mandatory Issues

Region	Prevalence
North America……	0.05 (1 in 20)
Europe……	0.08 (1 in 13)
Pacific Rim……	0.22 (1 in 5)

Animal Environment - Mandatory Issues

Region	Prevalence
North America……	0.08 (1 in 13)
Europe……	0.13 (1 in 8)
Pacific Rim……	0.12 (1 in 8)

IACUC/OB - Mandatory Issues

Region	Prevalence
North America	0.09 (1 in 11)
Europe	0.08 (1 in 13)
Pacific Rim	0.29 (1 in 3)

Physical Plant - Mandatory Issues

Region	Prevalence
North America	0.10 (1 in 10)
Europe	0.22 (1 in 5)
Pacific Rim	0.07 (1 in 14)

OHSP- Mandatory Issues

Region	Prevalence
North America	0.12 (1 in 8)
Europe	0.13 (1 in 8)
Pacific Rim	0.20 (1 in 5)

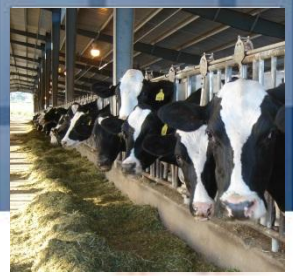
Summary

- Common challenges include
  - IACUC/ OB - protocol review/ policies
  - Vet care – vet medical care/ euth./ p/d
  - Animal env. – social management/ husbandry/ sanitation
  - Physical plant – HVAC!
  - OHS – personnel protection/ workplace risk assessment

Summary

- Issues that impact animal welfare, impact scientific integrity:
  - IACUC/OB review
  - Social housing
  - Pain and distress
  - Injury, disease, subclinical disease
  - Animal environment and husbandry





Advocate for the animal – Value the science

