



SUSTAINING THE MISSION TO SECURE THE FUTURE

Fort Eustis EMS Workshop
22 January 2004



What is an EMS?

...the **part of the overall management system...**
for developing, implementing, achieving and
maintaining the environmental policy.

...includes organizational structures, planning
activities, responsibilities, practices,
procedures, processes and resources...

Source: ANSI/ISO 14001-1996, Environmental management systems—
Specifications with guidance for use



What's in the ENV policy?

ISO 14001

- Comply
- Prevent
- Improve

- Prioritize
- Document
- Communicate

Army Environmental Strategy (1992)

- Comply
- Conserve
- Prevent
- Restore

...strive to achieve sustainable operations...



What is sustainability?

- “...the persistence of the integrity and structure of a system over time.”
 - Robert Costanza et al. 2001
- “...the ability of a system to continue functioning into the future without being forced into decline through the exhaustion or overloading of the key resources on which that system depends”
 - Robert Gilman 1996; American Institute of Architects 1996
- “...capacity for continuance into the long term future.”
 - The SIGMA Project 2003



Sustain what?



Sustain the mission

- “To fight and win the Nation’s wars and to execute the national security strategy (NSS) and the National Military Strategy (NMS)” – *How The Army Runs: 2003-2004*
- “...to serve the American people, protect enduring national interests, and fulfill national military responsibilities” – *FM 1*
- “...to provide national defense and security for American citizens—our ultimate customers” – *AR 5-1*

Security: “freedom from fear of privation or attack”

Privation: “lack of basic necessities or comforts of life”

Sustainability and security are both about protecting long-term national interests



Enduring Army Functions



- Train
- Equip
- Deploy
- Sustain
- Man
- Organize
- Communicate
- Build / Construct
- Transport
- Research / Test



What may threaten the mission?



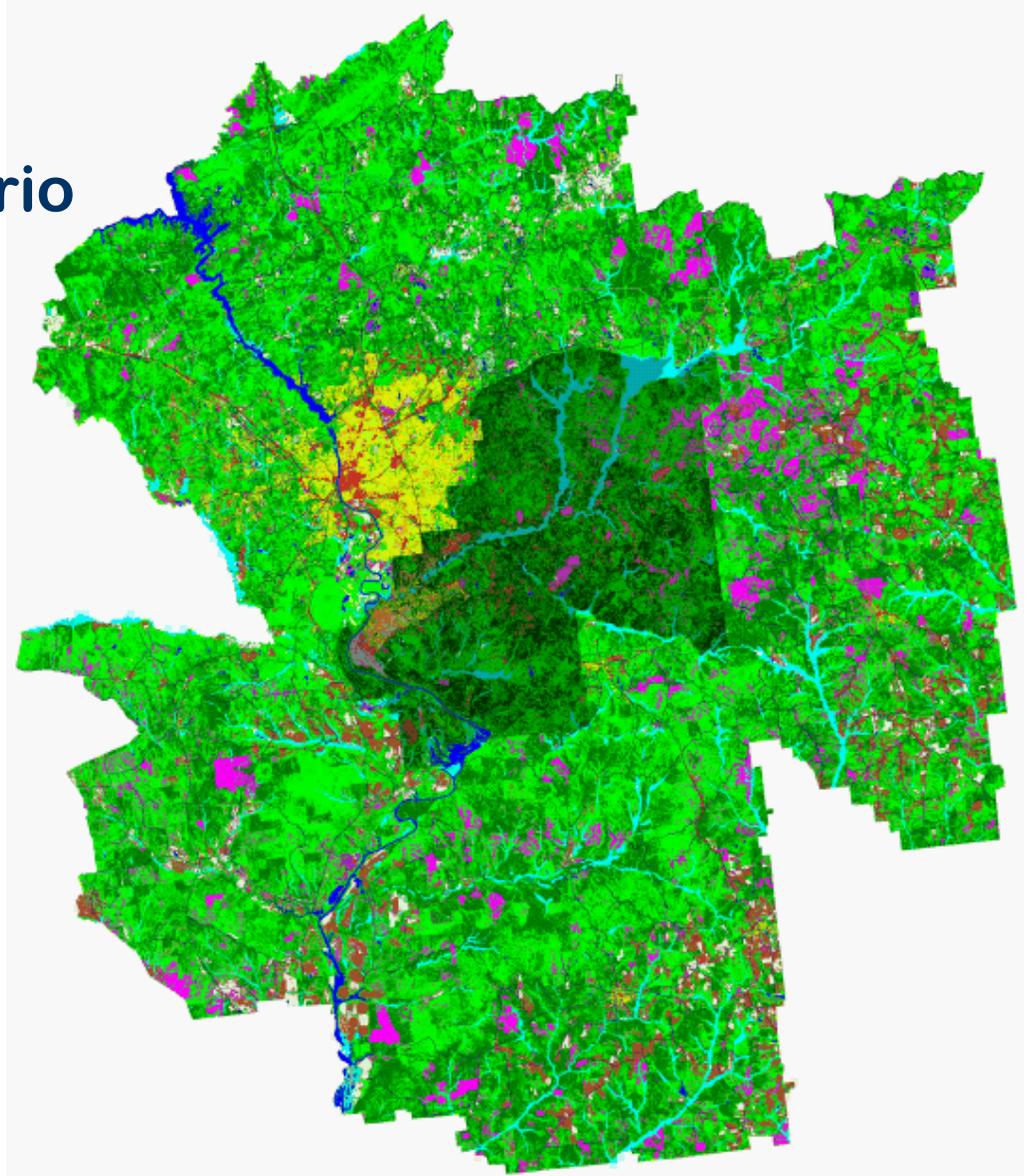
- Urbanization – rapid land development and increasing population density
- Globalization – shrinking of the world through economic, communication and transportation systems
- Innovation – technology changes that we rely on to save us



Regional Urbanization

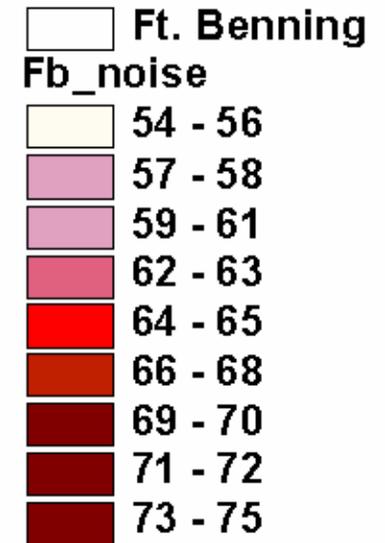
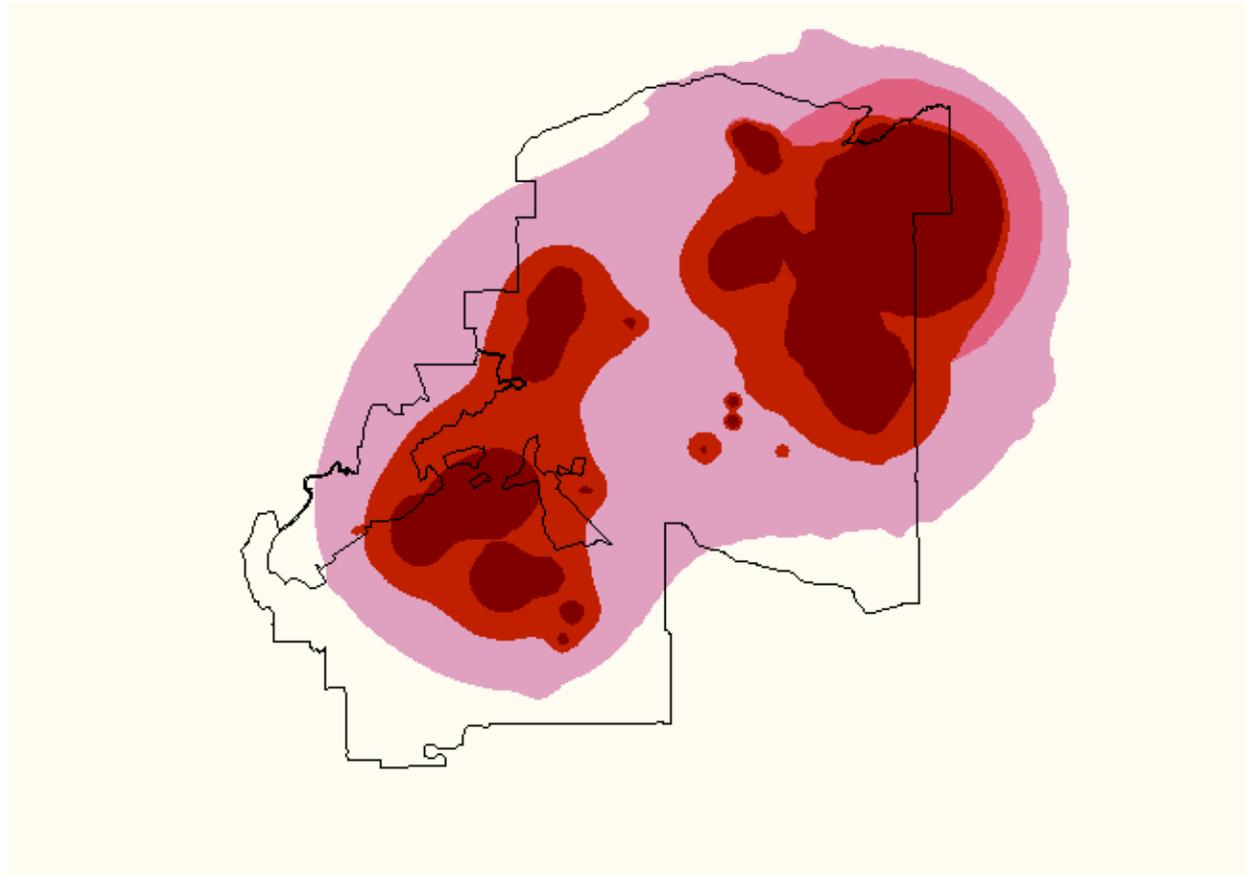


Ft Benning, GA
Land use change scenario
Years 2000 - 2040

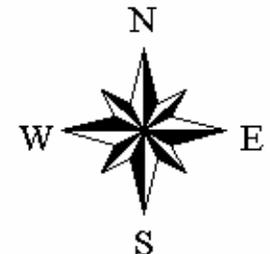




Mission "Externalities" - Noise

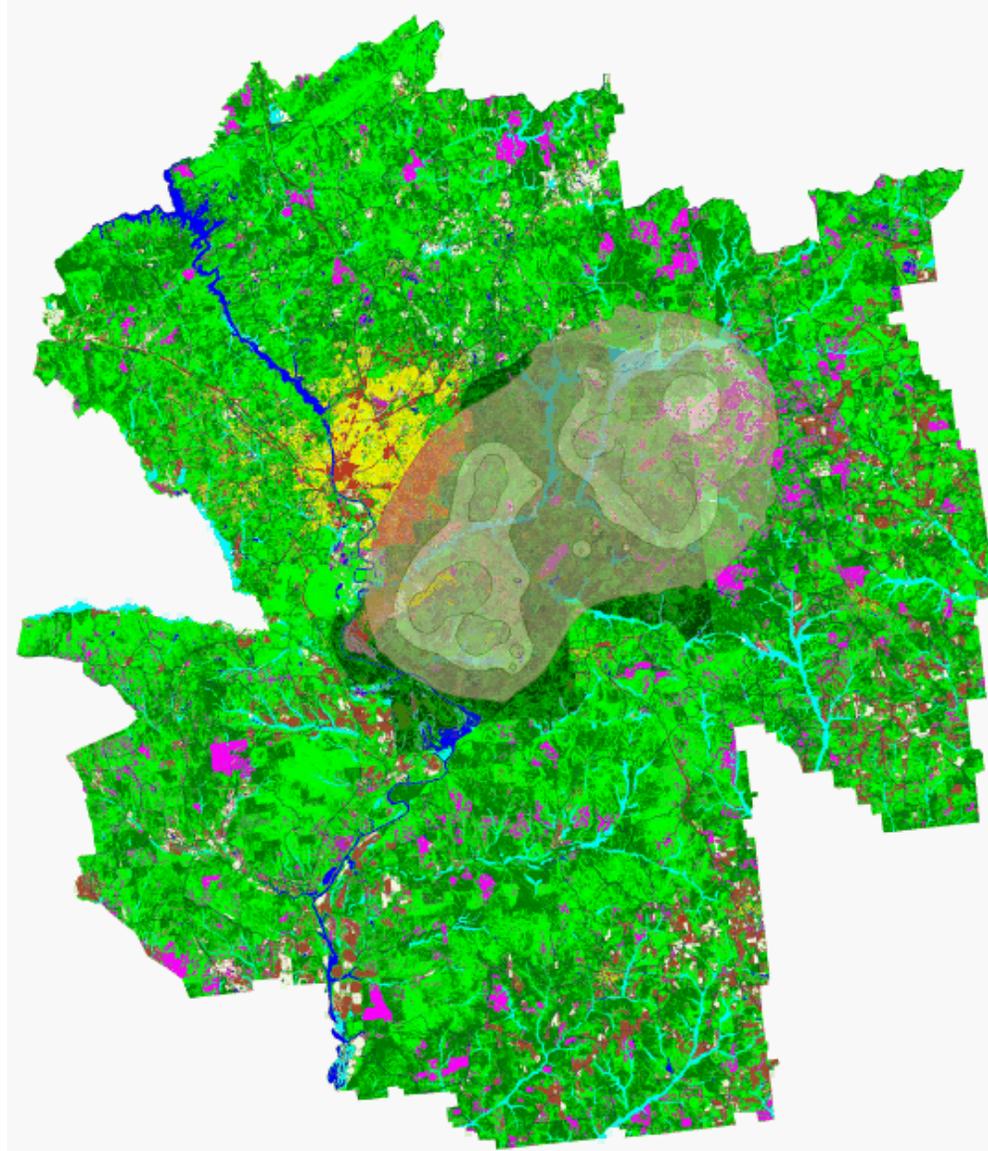


10 0 10 20 Miles





Noise + Urbanization = Conflict



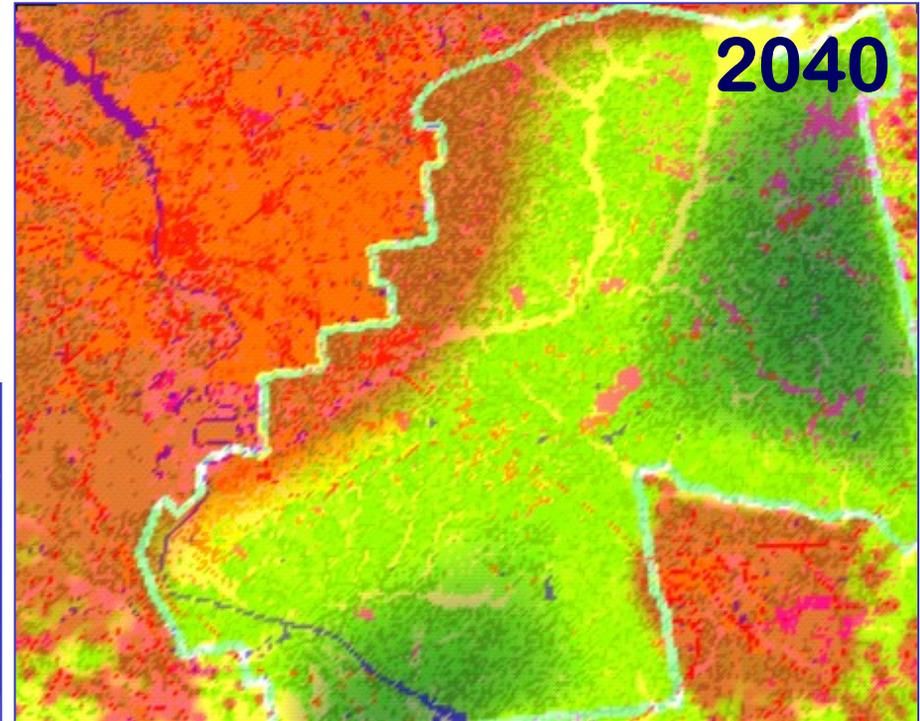
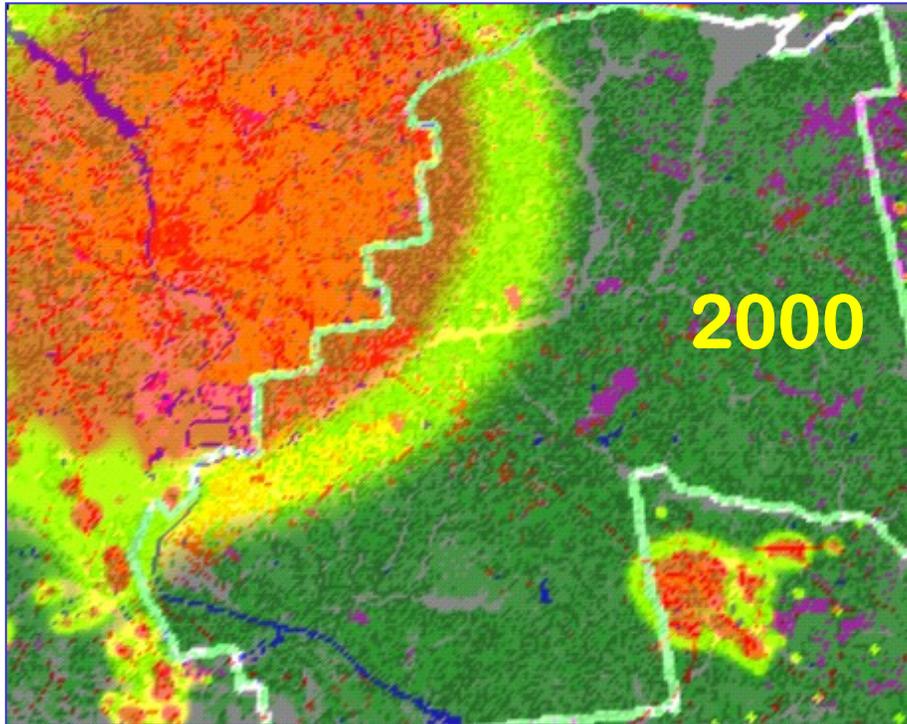


Reduced Land Resource Capacity



Ft Benning, GA

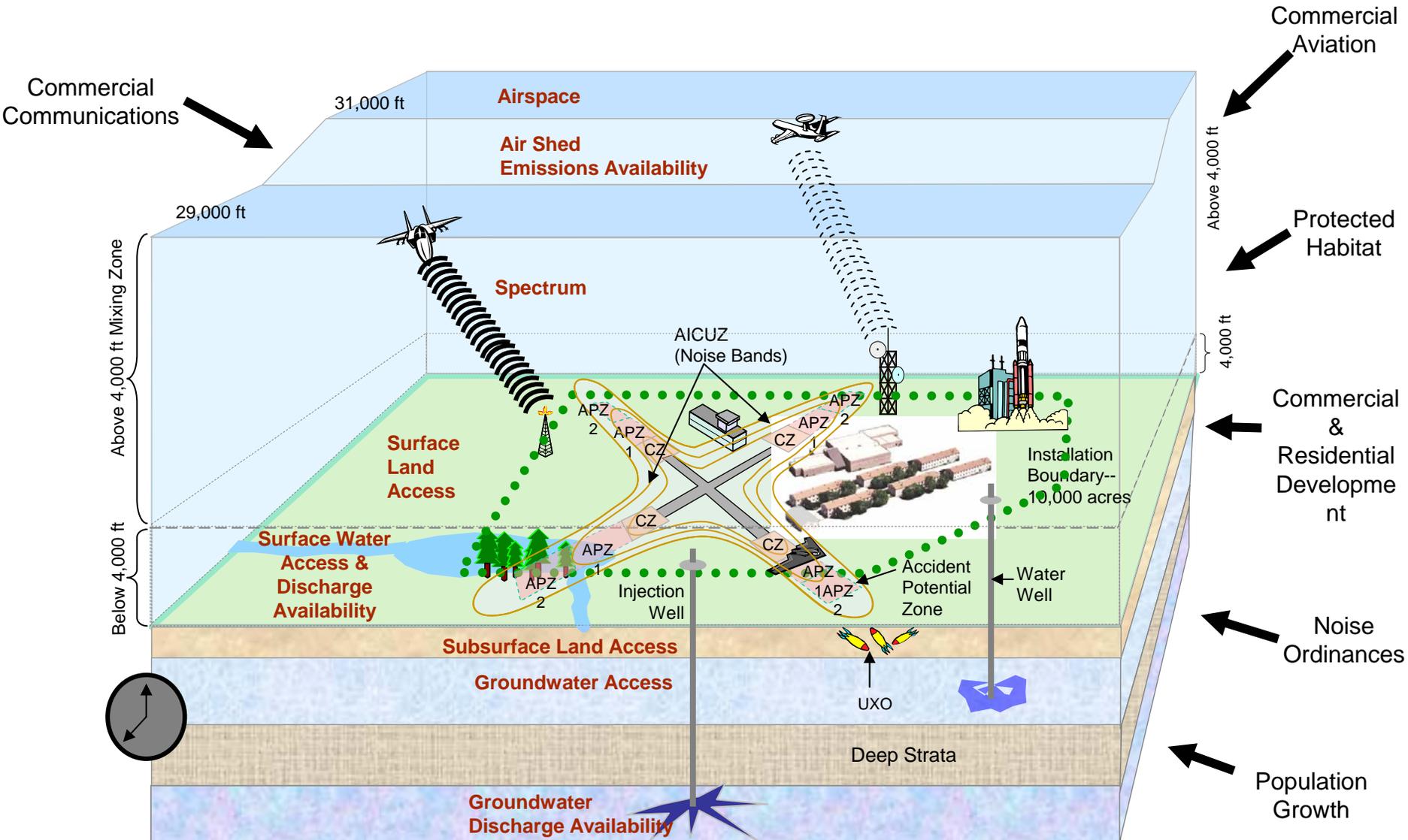
Population density scenario
Years 2000 - 2040



Result = possible loss of future training opportunities due to noise related conflicts



Resources and "Encroachment"



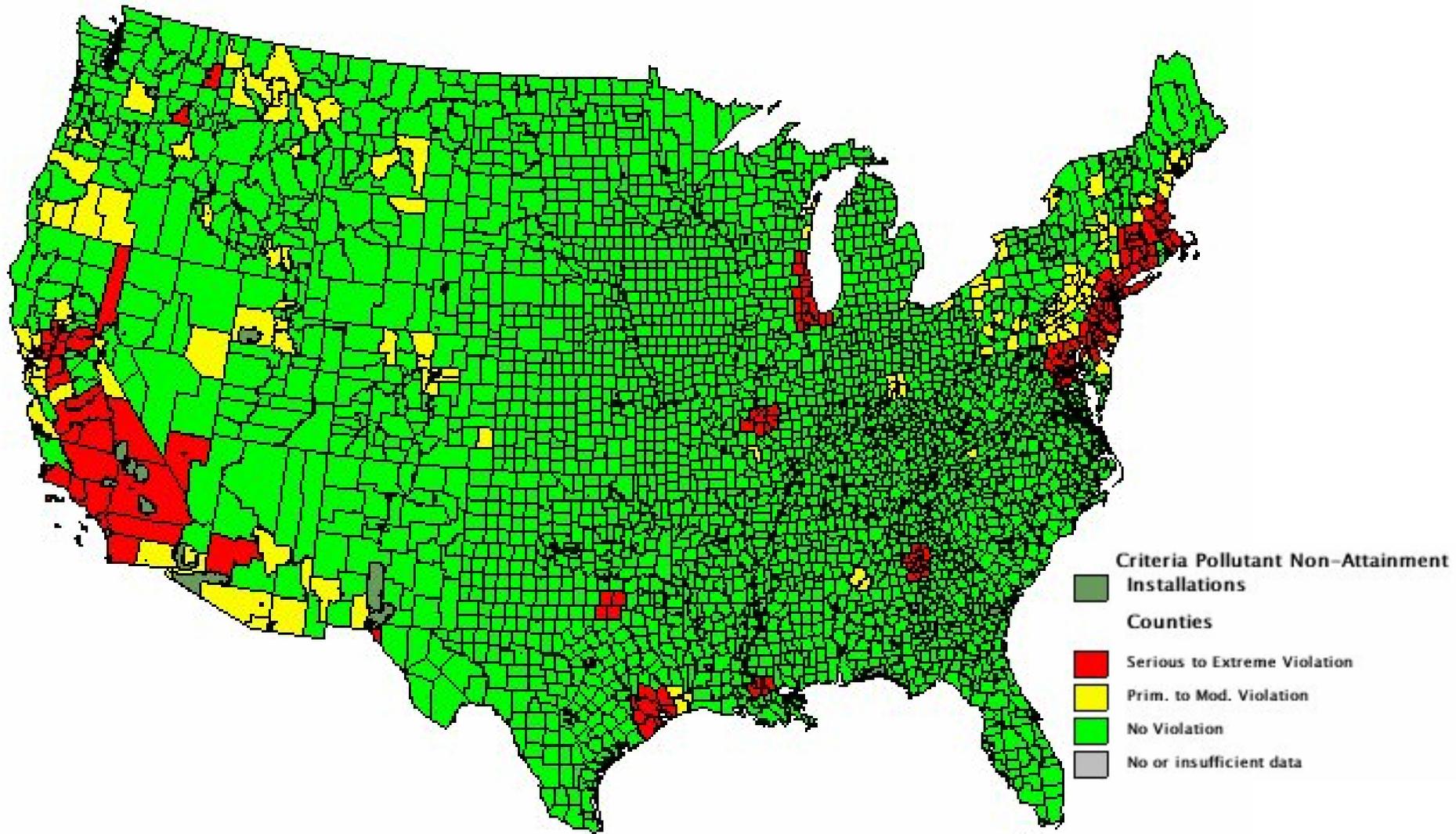


“...Sustainability moves us beyond simply solving today’s problems. A sustainable Army is one that wins today’s battles while laying the foundation for our future success. It connects today to tomorrow with sound business and environmental practices... Sustainability enables today’s Army to empower the Future Force.”

Assistant Secretary of the Army
(Installations & Environment)
September 2003

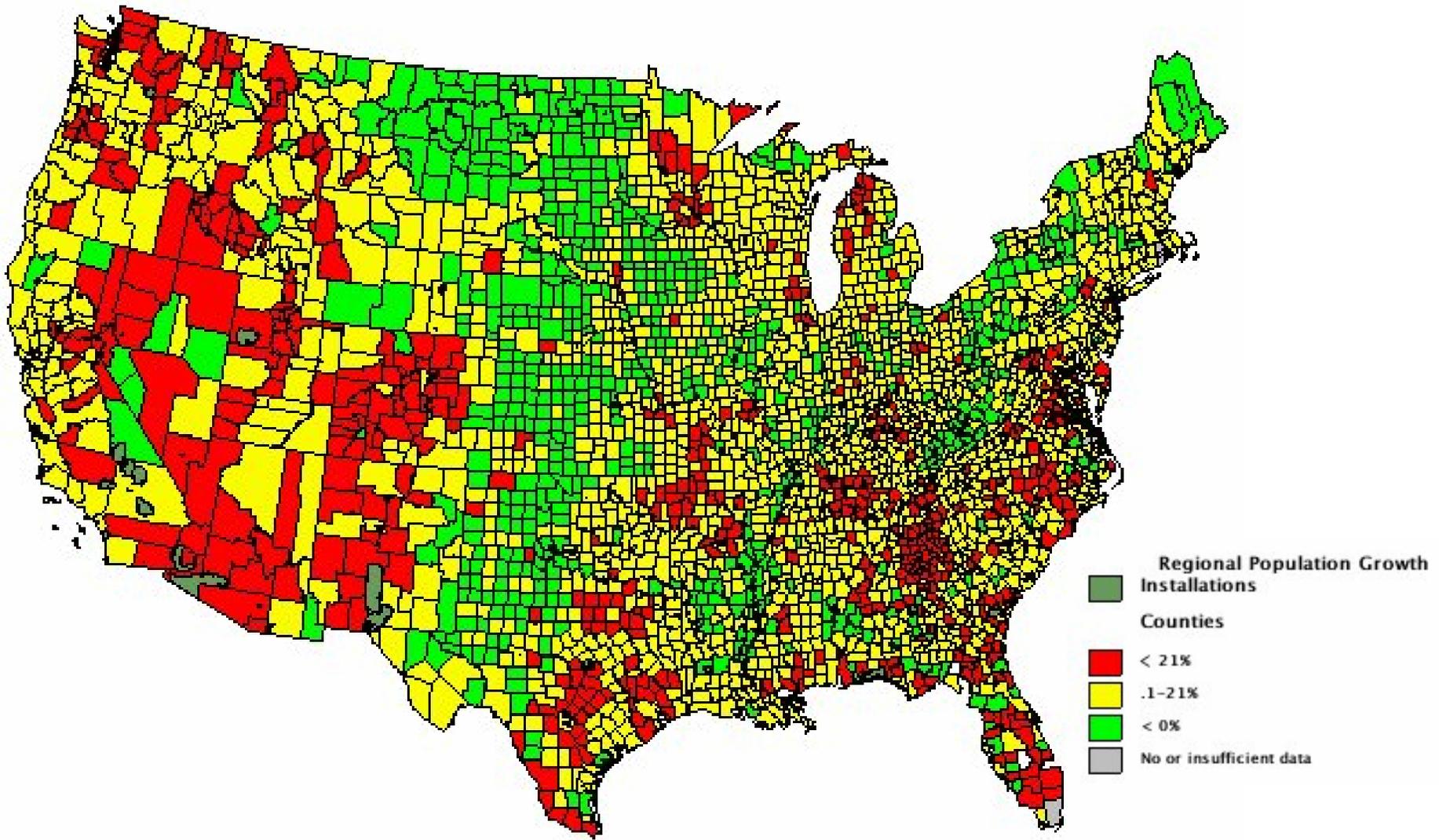


Criteria Pollutant Non-Attainment



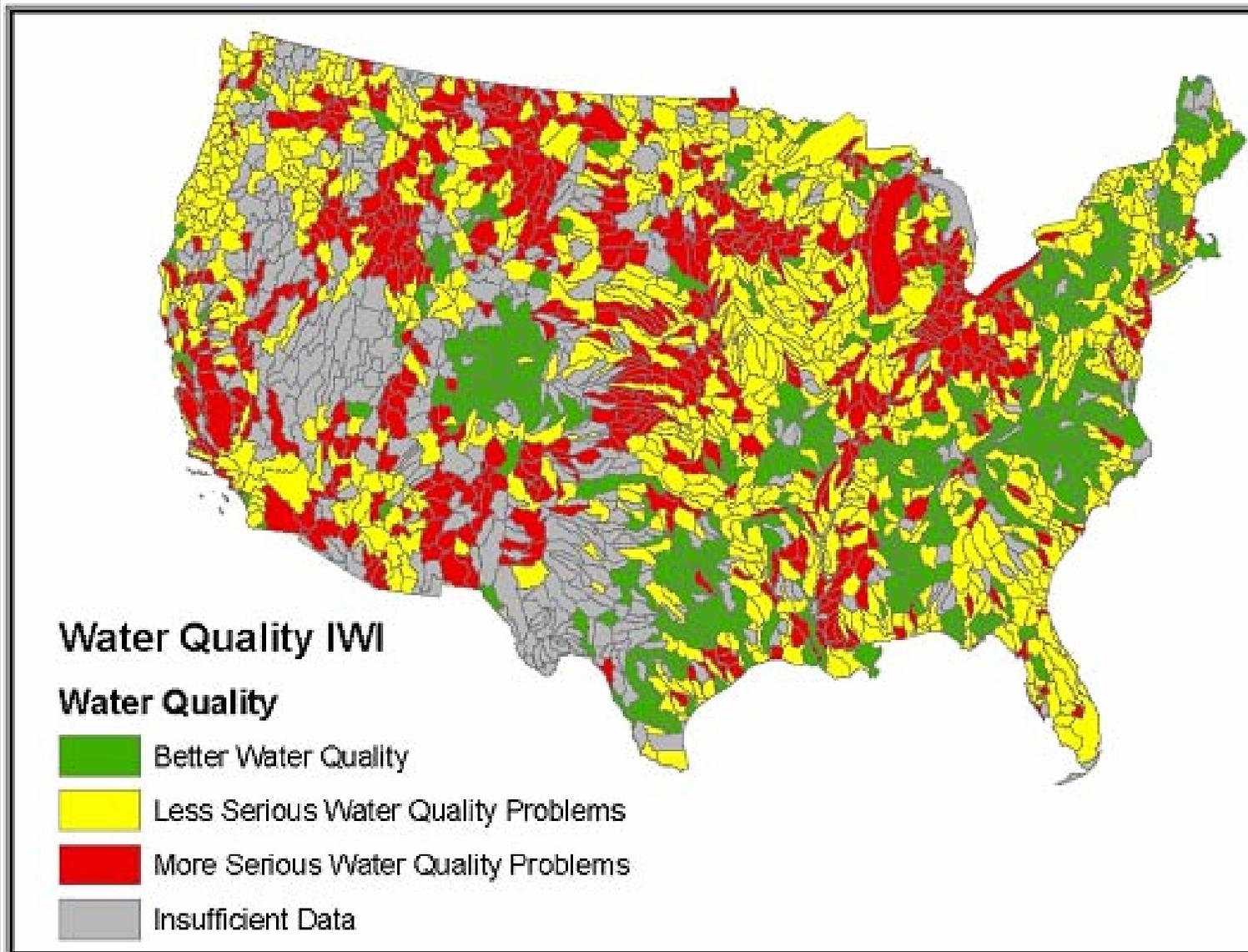


Regional Population Growth

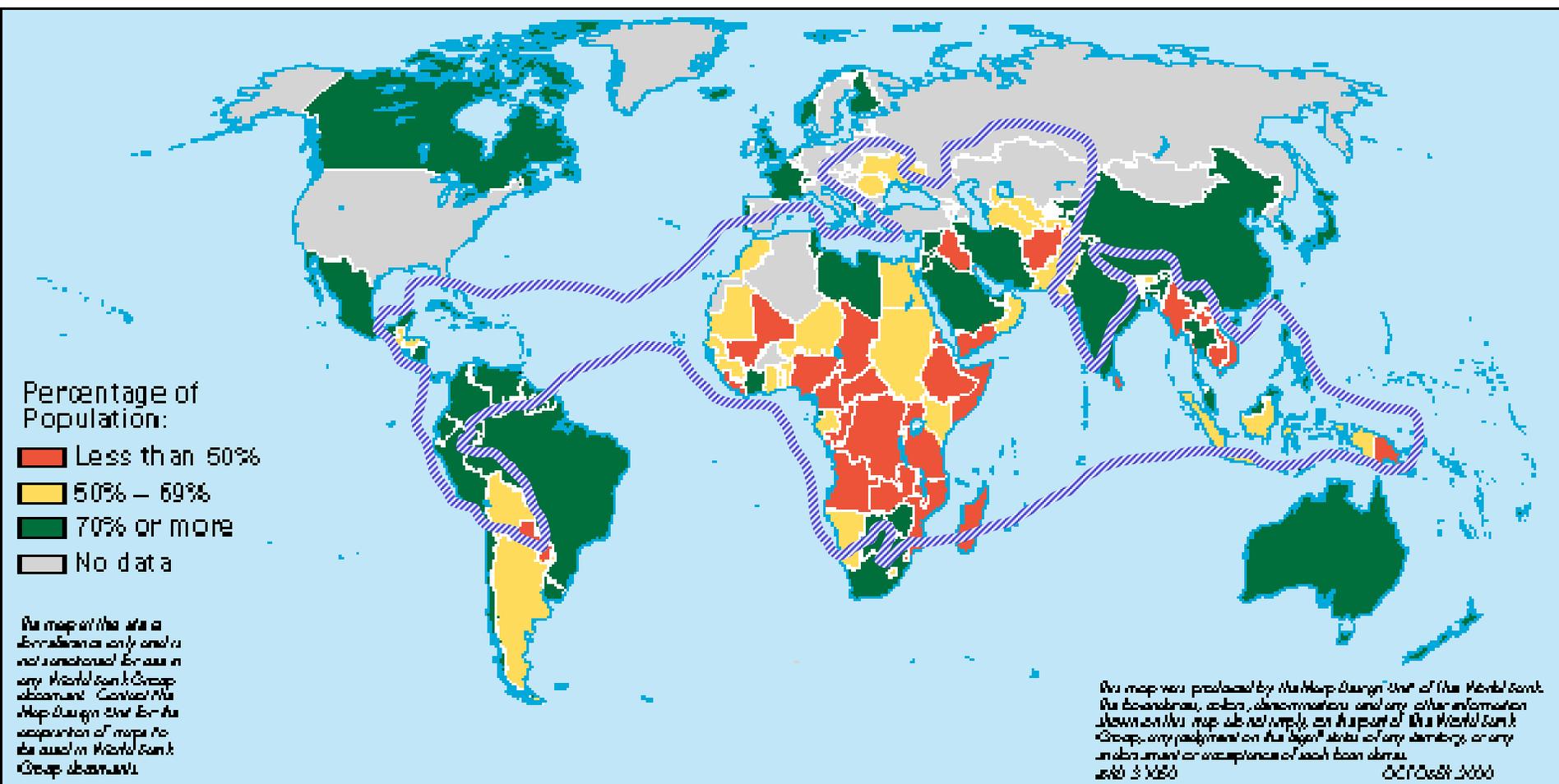




Water Quality and Vulnerability



Access to Safe Water, 1990-96



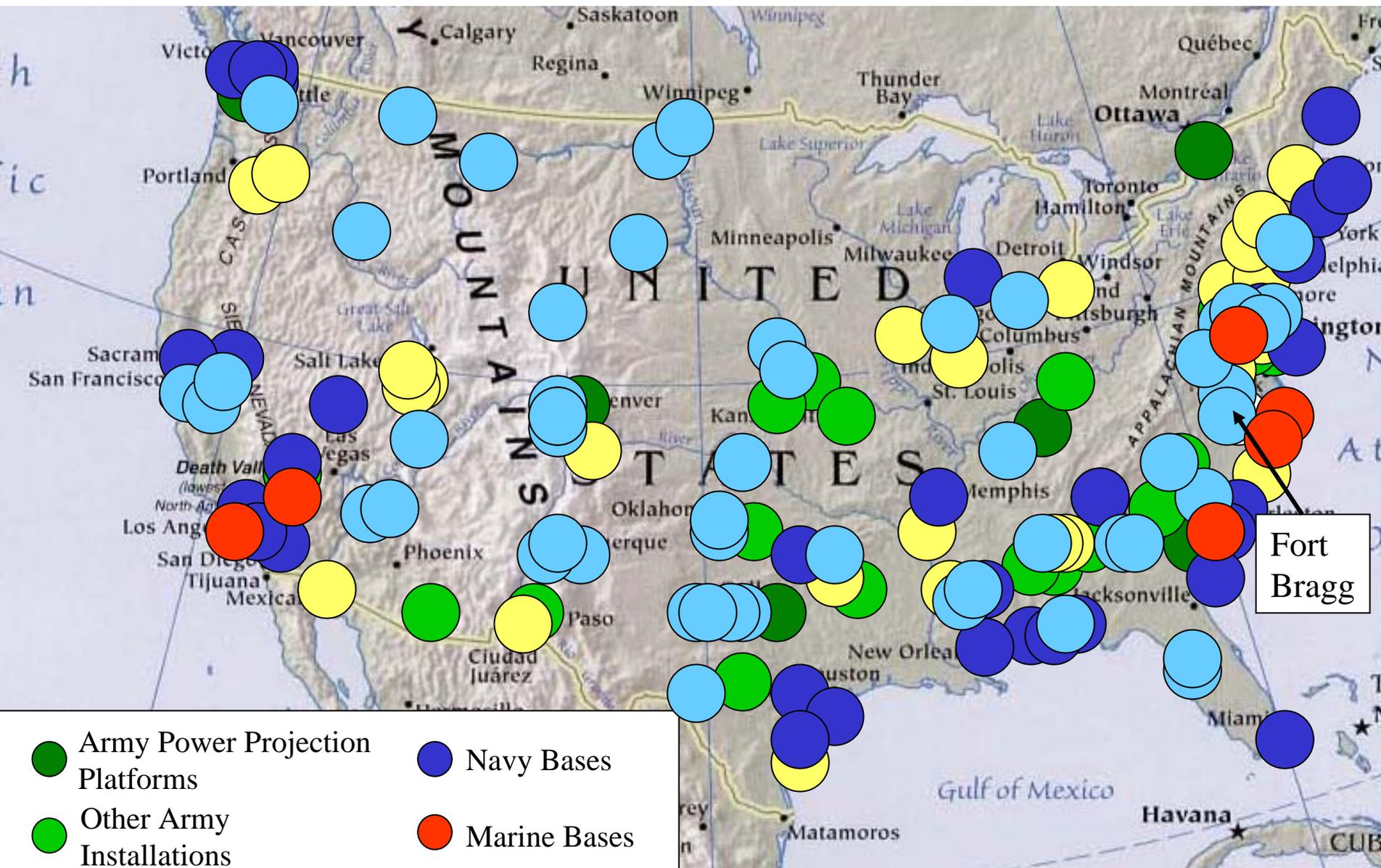


IT EXPLAINS WHY WE'RE GOING TO WAR,
AND WHY WE'LL KEEP GOING TO WAR.

BY
THOMAS P.M. BARNETT, U.S. NAVAL WAR COLLEGE
[MAPS BY WILLIAM MCNULTY]

From *Esquire*, March 2003 issue

Military Sphere of Influence



Fort Bragg

- Army Power Projection Platforms
- Other Army Installations
- Army Support Facilities
- Navy Bases
- Marine Bases
- Air Force Bases



So now what?

- Talk about how to solve this – technology (answers may be closer than you think)
- How to make sense of this (today and next two sessions)
- Goal is to develop a roadmap for how to get to the future and protect Fort Eustis' ability to support its mission