

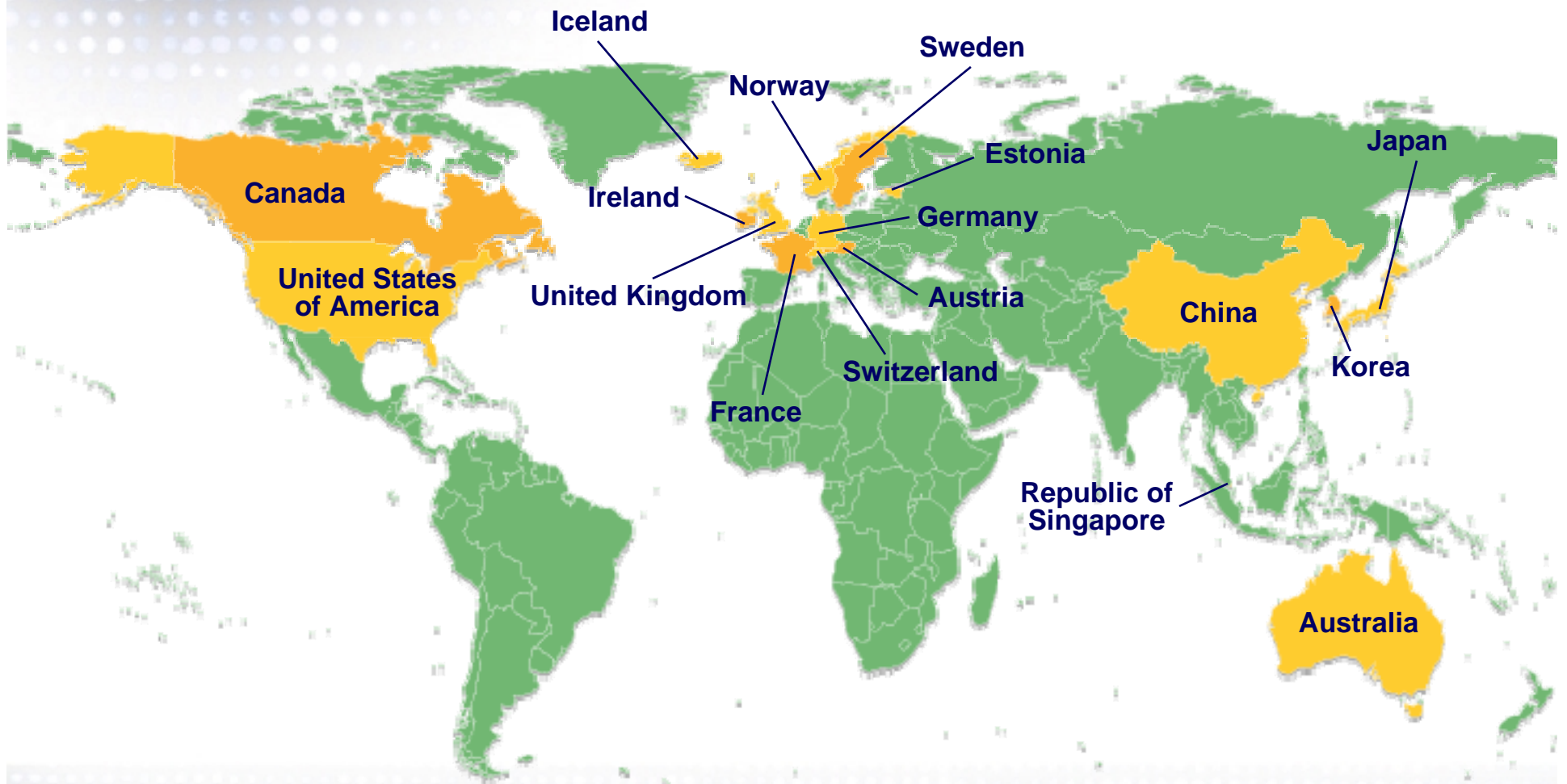


NCI Inaugural Symposium: International Harmonization of Biorepository Practices

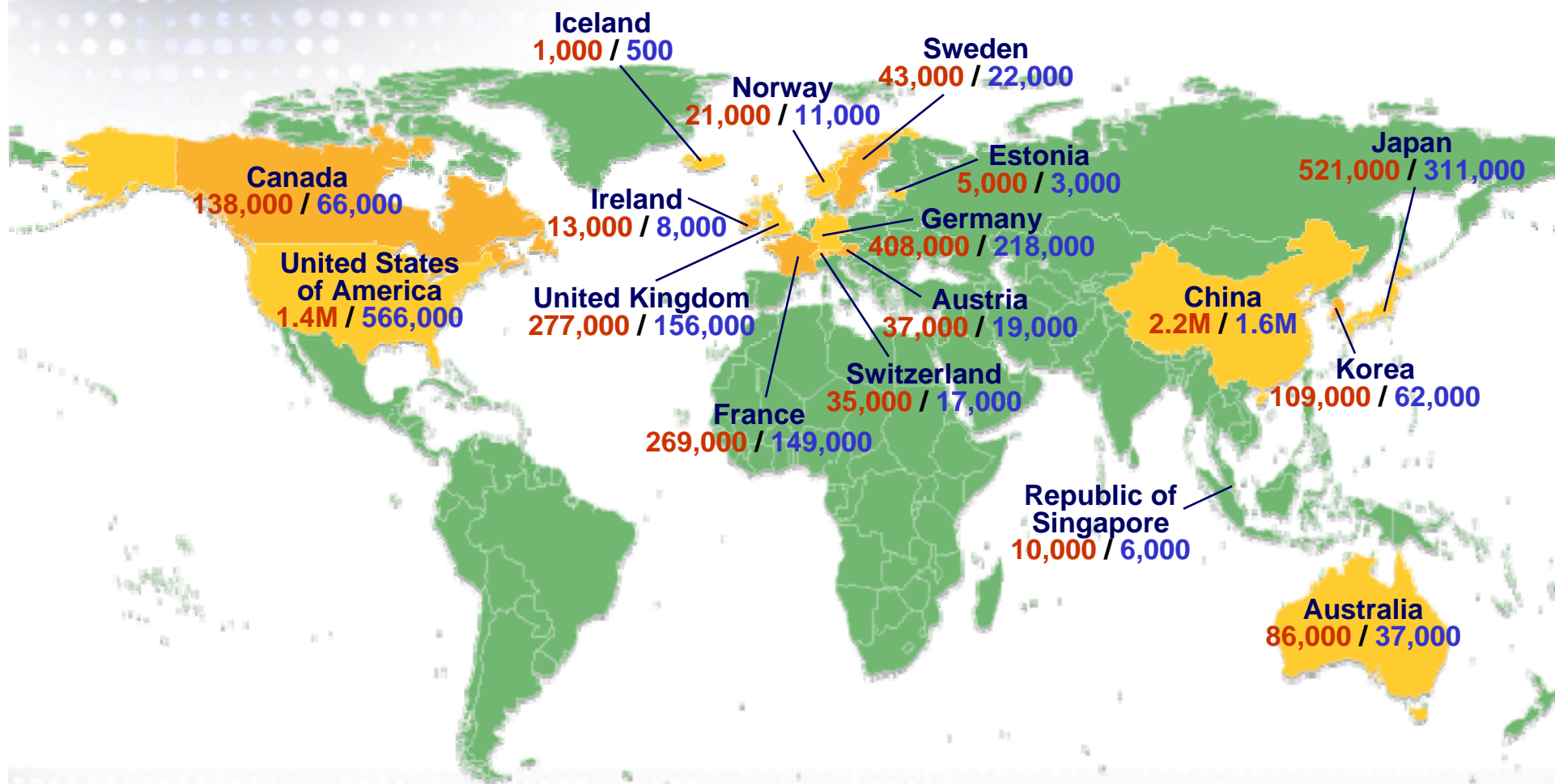
November 10, 2005

Anna D. Barker, Ph.D.
Deputy Director
National Cancer Institute

Welcome to the Countries Represented Here Today



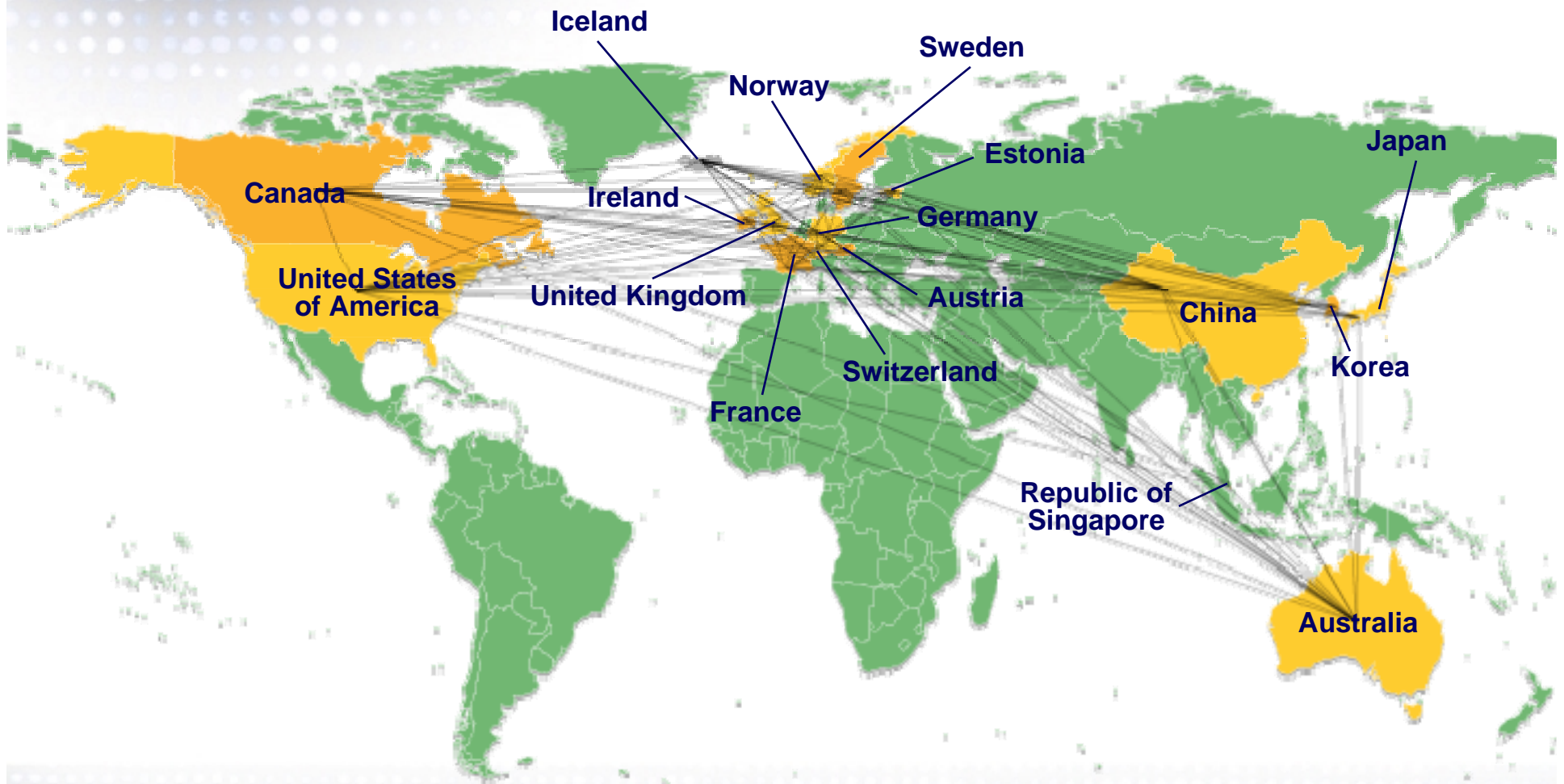
We Share a Profound Problem in Cancer Incidence and Mortality - and a Common Goal to Defeat this Common Enemy



Cancer **Incidence** / **Mortality** per year

Source: Derived from International Agency for Research on Cancer, GLOBOCAN 2002 database

The Future: Leveraging the Power of an International Network to “Harmonize” Biorepository and Bioinformatics Platforms to Defeat Cancer

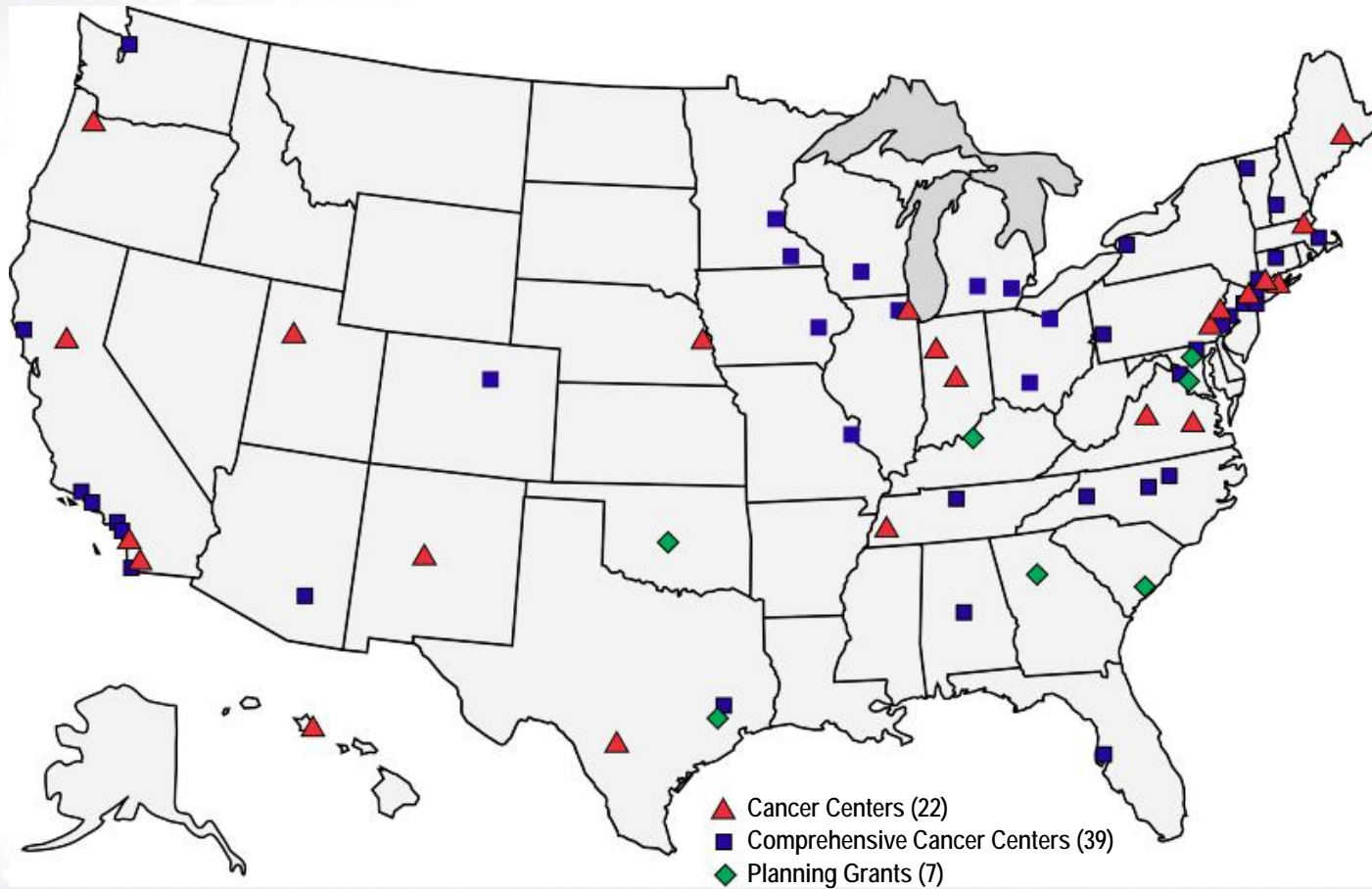


Creating an International Network of Biobanks for Cancer Research

Our Hope: The U.S. NCI and the Nations that are leading in this critical area can serve as a catalyst ...

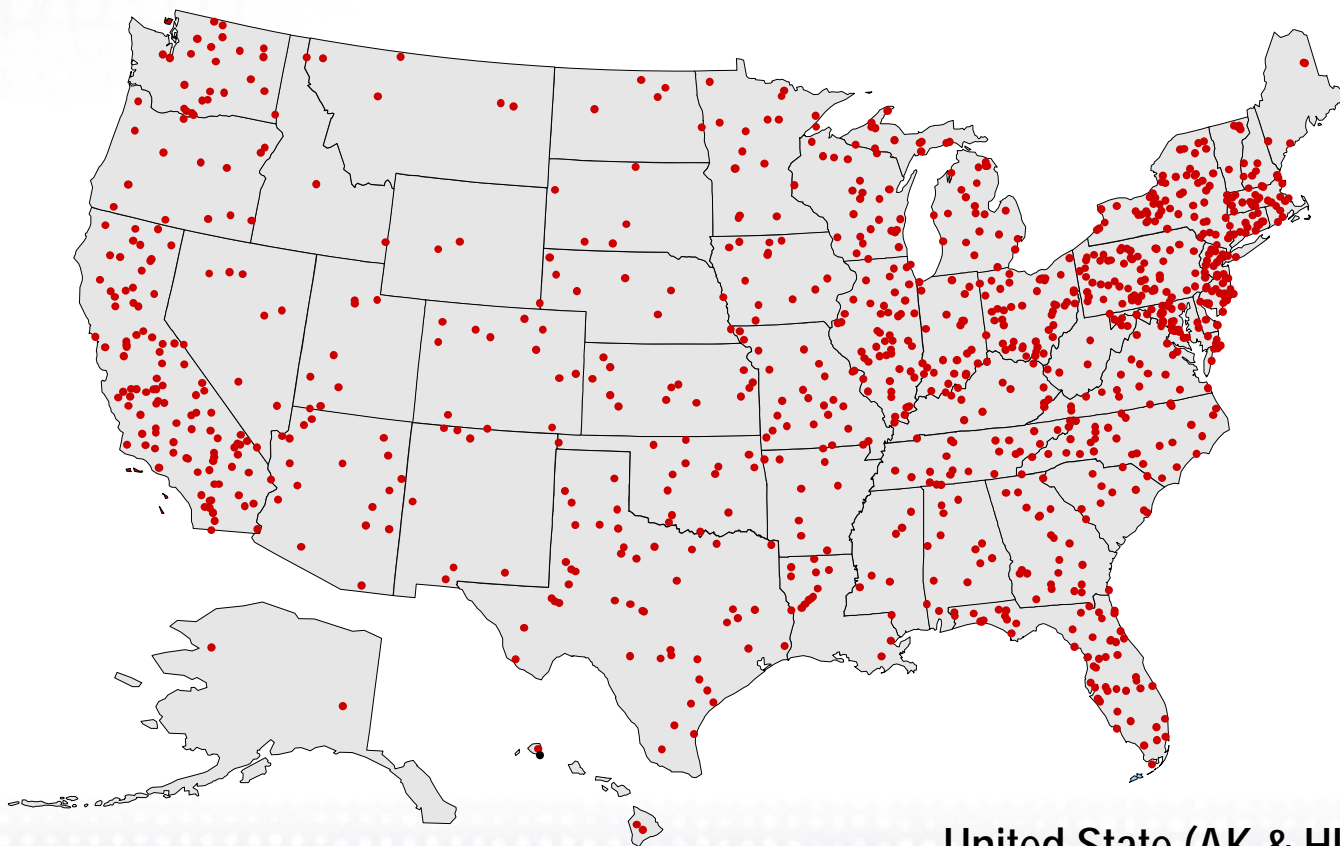
....for the formation of an integrated network of biobanks to facilitate and accelerate cancer research, development and delivery to cancer patients.

Current and Emerging NCI Cancer Centers (Most are Biorepository Sites)



U.S. Cancer Clinical Trial Treatment Sites – as of Year 2004 (Potential Biorepository Sites)

(# of Sites by State that Currently have Patients Enrolled in an Open Trial)



Total Sites = 1,878

United State (AK & HI inset)
by sites

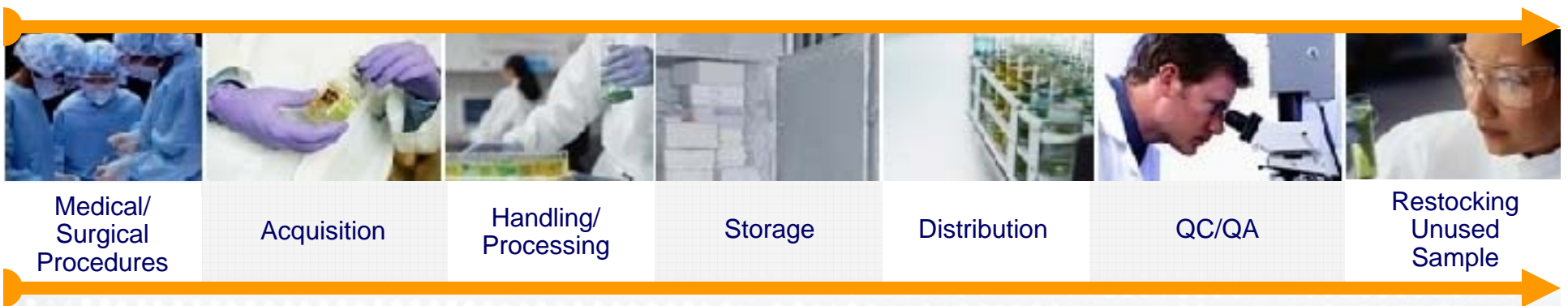
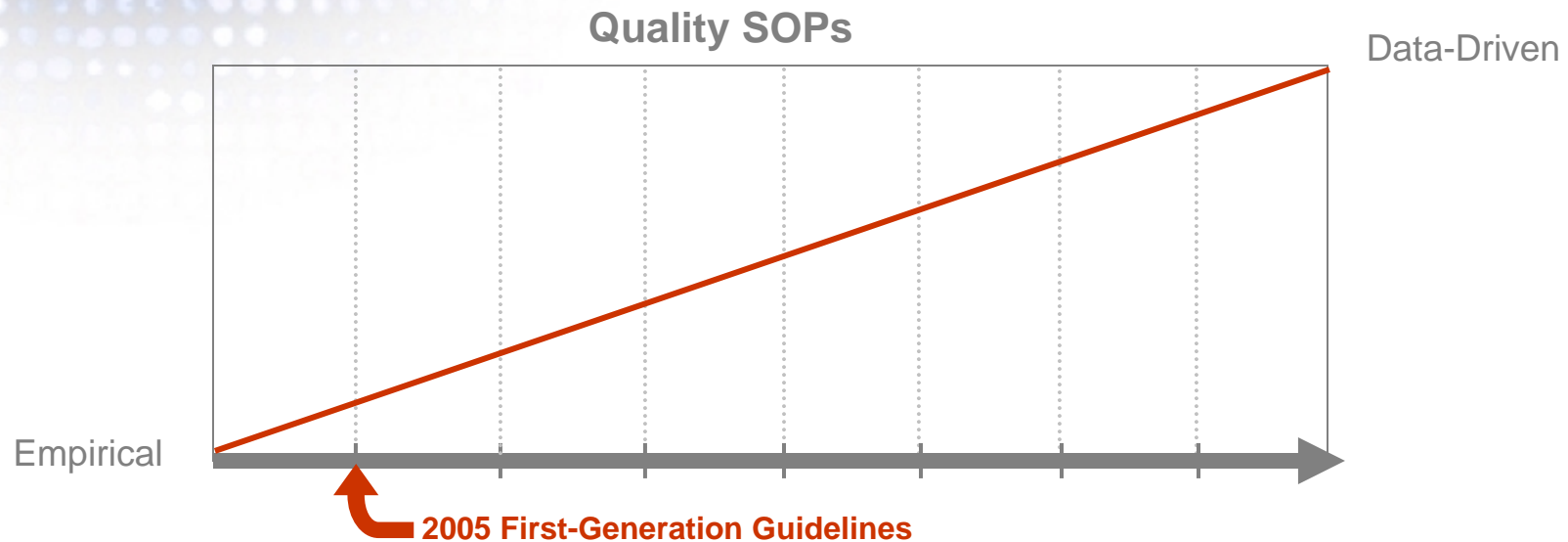
1 Dot = 5 sites

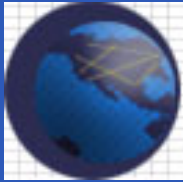
Following Several Years of Assessment of Biorepositories, Expert Input, and Planning

NCI is developing and will deploy U. S. cancer enterprise best practices/standards for biospecimens

- **First-Generation Guidelines – First Quarter 2006 (Compliance Encouraged)**
- **Longer-term Second-Generation Evidence-Based Guidelines (Compliance Expected)**

NCI's Path from First-Generation Guidelines to Evidence-Based Biospecimens/Biobanks





caBIG

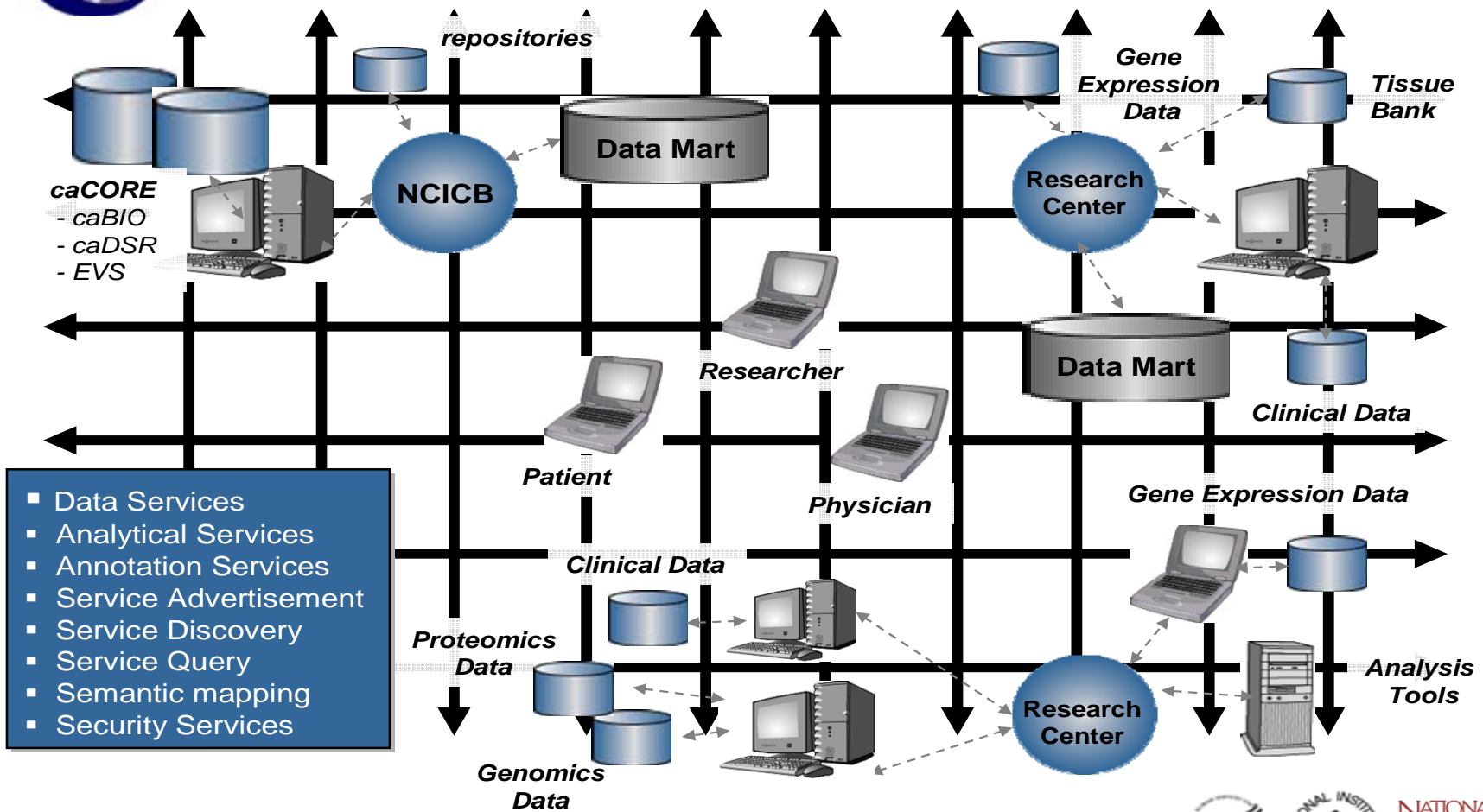
cancer Biomedical
Informatics Grid



**Center
for
Bioinformatics**

Major Asset to Enable Harmonization

caGrid



- Data Services
- Analytical Services
- Annotation Services
- Service Advertisement
- Service Discovery
- Service Query
- Semantic mapping
- Security Services

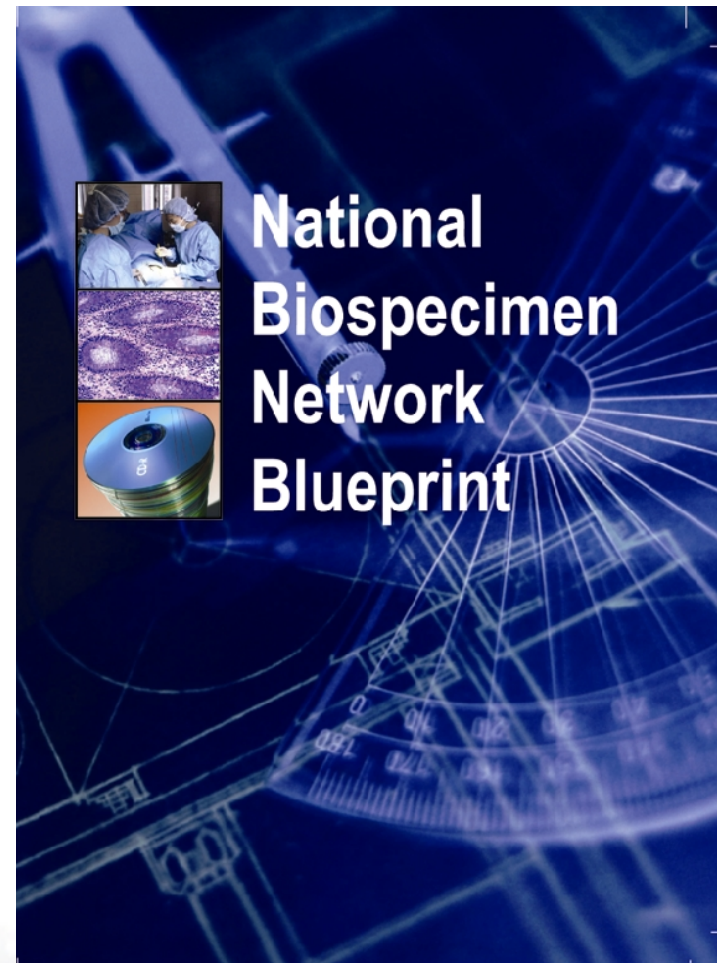


NCI is Providing Leadership for the Creation of a National Biospecimen Resource – Ultimately Needed for a Global Network

**National Biospecimen Network
Blueprint: “A Model for the
Community – A Path for the Future of
Personalized Medicine”**

**Currently Being Piloted through NCI’s
Prostate SPORES**

www.ndoc.org/about_ndc/reports/



Areas of Common Concern/Opportunity for All Biorepositories

- Best Practices Standard Operating Procedures
- A Common Bioinformatics System
- Quality Assurance and Quality Control Standards
- Ethical, Legal, and Policy Issues
- Reporting Mechanisms
- Access
- Administration and Management

Charge and Goals for the Meeting

- An International Working Group
- Piloting Best Practices
- A Demonstration Project
- A caBIG Compatible Bioinformatics Initiative to Establish this International Network