

EPA & Carbon Sequestration

Regional Carbon Sequestration
Partnerships Annual Program Review

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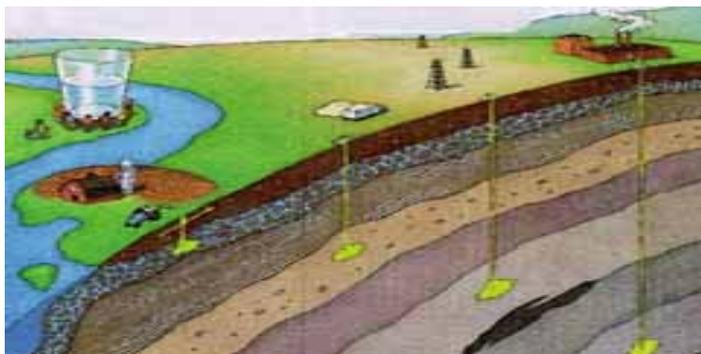


Key Comments

- EPA appreciates the opportunity to participate
- EPA and other Fed agencies have technical/regulatory expertise and experience working with key stakeholders
- Fully utilizing available resources can facilitate progress and strengthen Partnerships
- Deployment of CCS will require support from a wide range of stakeholders

Focus Areas for EPA's Geologic Sequestration Work

- Report U.S. annual GHG emissions inventory.
 - 2006 IPCC Inventory Guidelines
- Evaluate and assess regulatory and technical analogues.
- Provide guidance on technical and regulatory issues related to underground injection of CO₂.



Accountability

How do you ensure protection of human health and the environment?

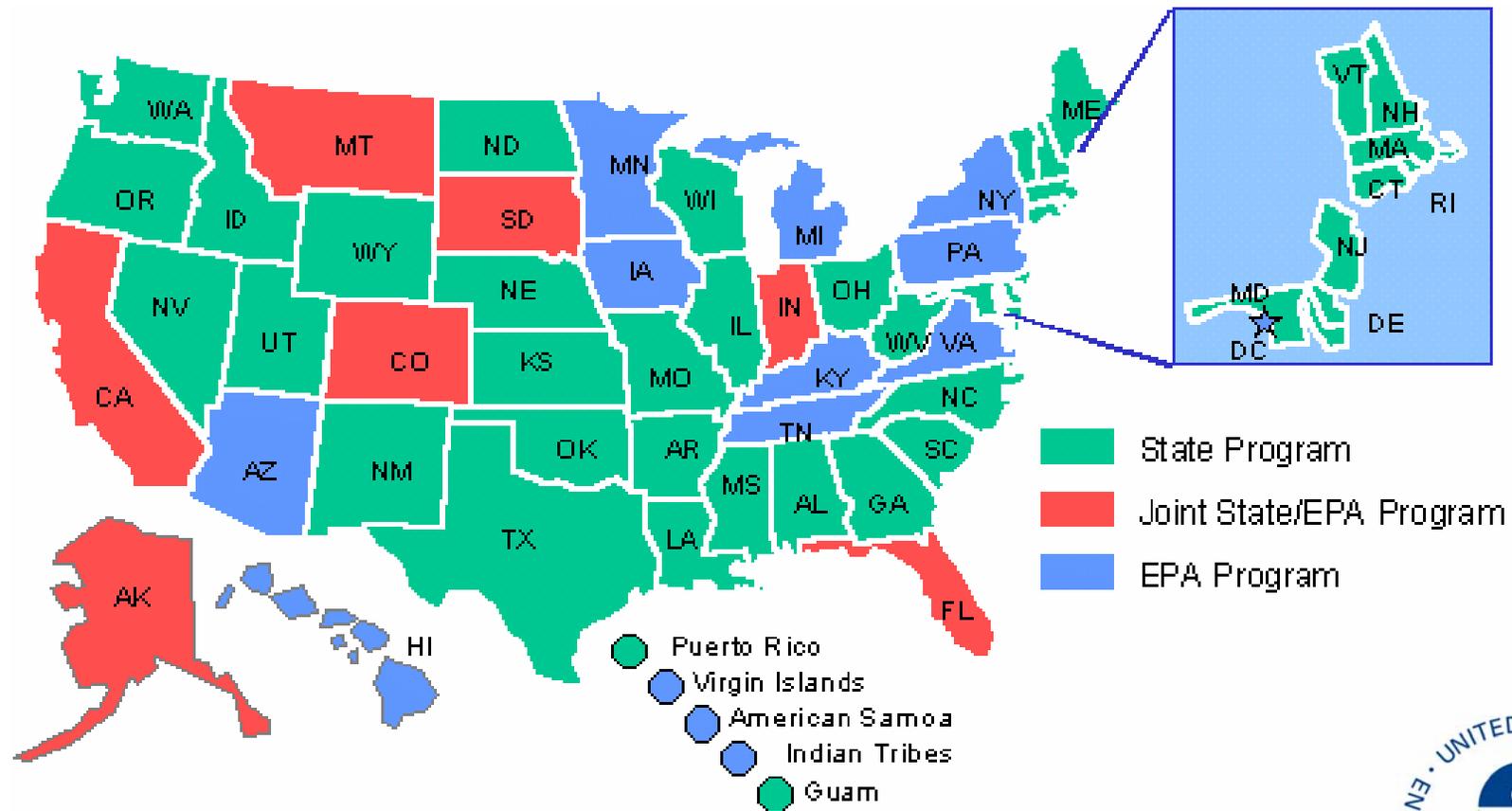
- Multi-media risk assessments
- Risk management strategies
- Monitoring, measurement and verification
- Public Outreach



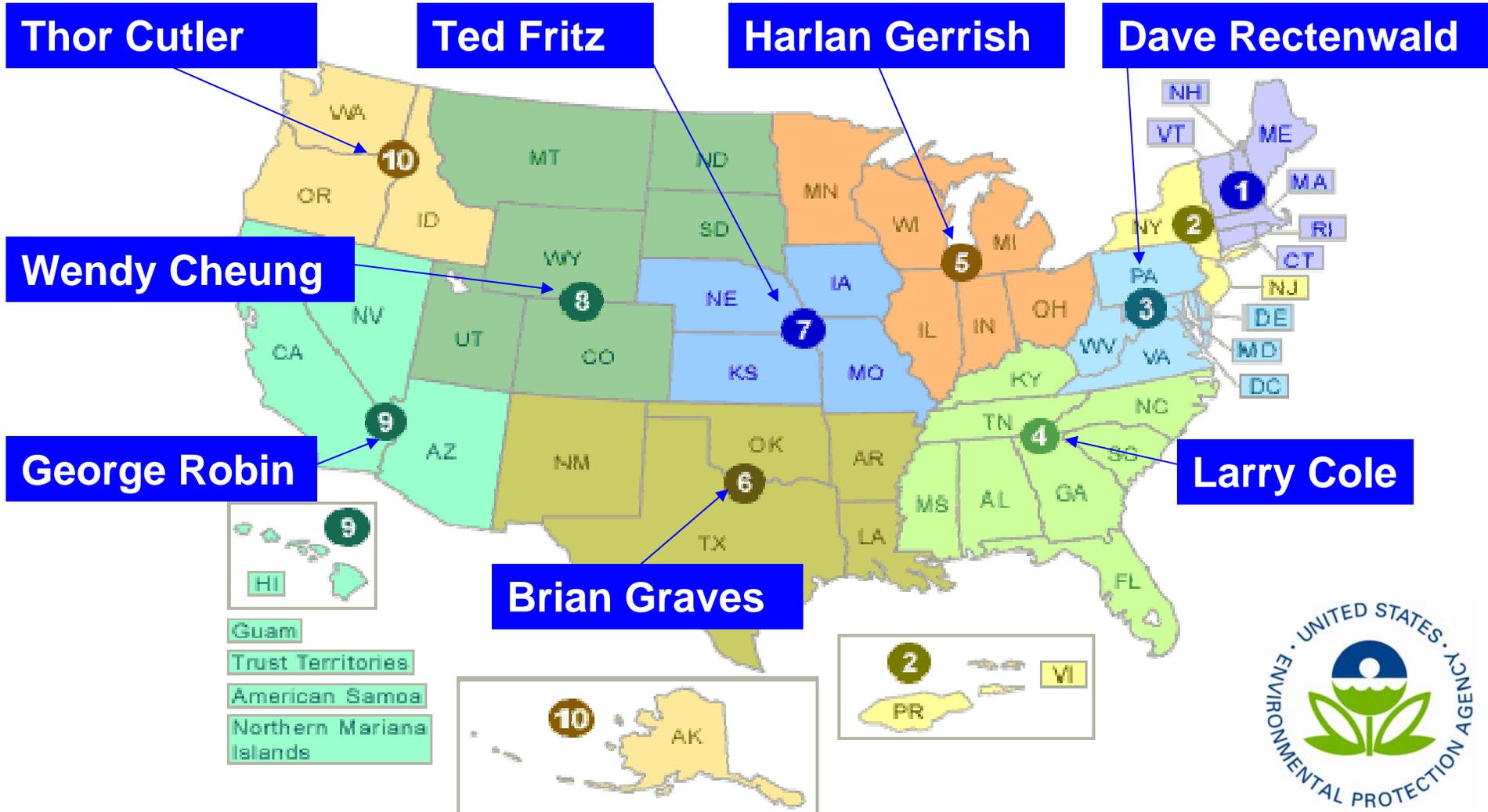
How Can EPA Help?

- **Provide Technical Support and Guidance**
 - Provide regulatory flexibility during R&D to encourage technology
 - Ensure permitting consistency and minimize uncertainty
- **Mobilize Expertise from Existing Programs**
- **Share Data & Conduct Risk Analysis**
 - Collect data and evaluate program analogues
 - Evaluate potential impacts to human health and the environment
- **Communicate with Stakeholders and Public**
 - Work with industry and environmental groups to address concerns
 - Use proven strategies and existing networks to educate the public

UIC Regulatory Jurisdiction



EPA Regional Contacts



Internal EPA Collaboration

- EPA Geologic Sequestration Workgroup
- Office of Air and Radiation
 - EPA Lead on Climate Strategy & Policy
 - Greenhouse Gas Inventory
- Office of Water
 - Safe Drinking Water Act
 - UIC Technical Workgroup
 - Marine Protection, Research & Sanctuaries Act
- Other Offices: ORD, OGC, OIA

Further Information on Geologic Sequestration

- EPA Geologic Sequestration Workgroup
 - Anhar Karimjee, Office of Atmospheric Programs, Climate Change Division
 - (202)343-9260; karimjee.anhar@epa.gov
 - Bruce Kobelski, Office of Water, Underground Injection Control Program
 - (202)564-3888; kobelski.bruce@epa.gov



Focus Areas for EPA's Terrestrial Sequestration Work

- Report U.S. annual GHG emissions inventory.
- Run modeling scenarios to evaluate net GHG mitigation potential from U.S. forestry & agriculture.
- Improve representation of forestry & agriculture in international models.
- Help develop methods to address key GHG accounting issues at the project level.



Further Information on Terrestrial Sequestration

- International forestry, national/regional, project-level analysis:
 - **Ken Andrasko**, andrasko.ken@epa.gov
- International agriculture, national/regional analysis:
 - **Ben DeAngelo**, deangelo.ben@epa.gov
- International and U.S. modeling:
 - **Steven Rose**, rose.steven@epa.gov
- **New EPA terrestrial sequestration site:**
 - www.epa.gov/sequestration
- **Forestry & Agriculture GHG Modeling Forum:**
 - <http://foragforum.rti.org/>



Final Thoughts

- EPA shares your enthusiasm
- More work needs to be done on Risk Assessment/Communication and Measuring, Monitoring, and Verification
- Stakeholder participation and public outreach will be critical to the success of CCS
- EPA plans to be an active participant