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**Research  
Partnership to  
Secure Energy  
for America**

***RPSEA Unconventional Gas  
Conference  
2010***



**Secure Energy for America**





# Introductions and Agenda

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- **Welcome and Safety**
- **RPSEA Overview – *Mike Ming, RPSEA***
- **Meeting Overview – *Kent Perry, RPSEA***
  - Registration
  - Agenda
  - Handouts – Slides
  - Keynote Speaker - ***Tom Sheffield, Pioneer Natural Resources***
  - Reception – ***Senator Bennet***

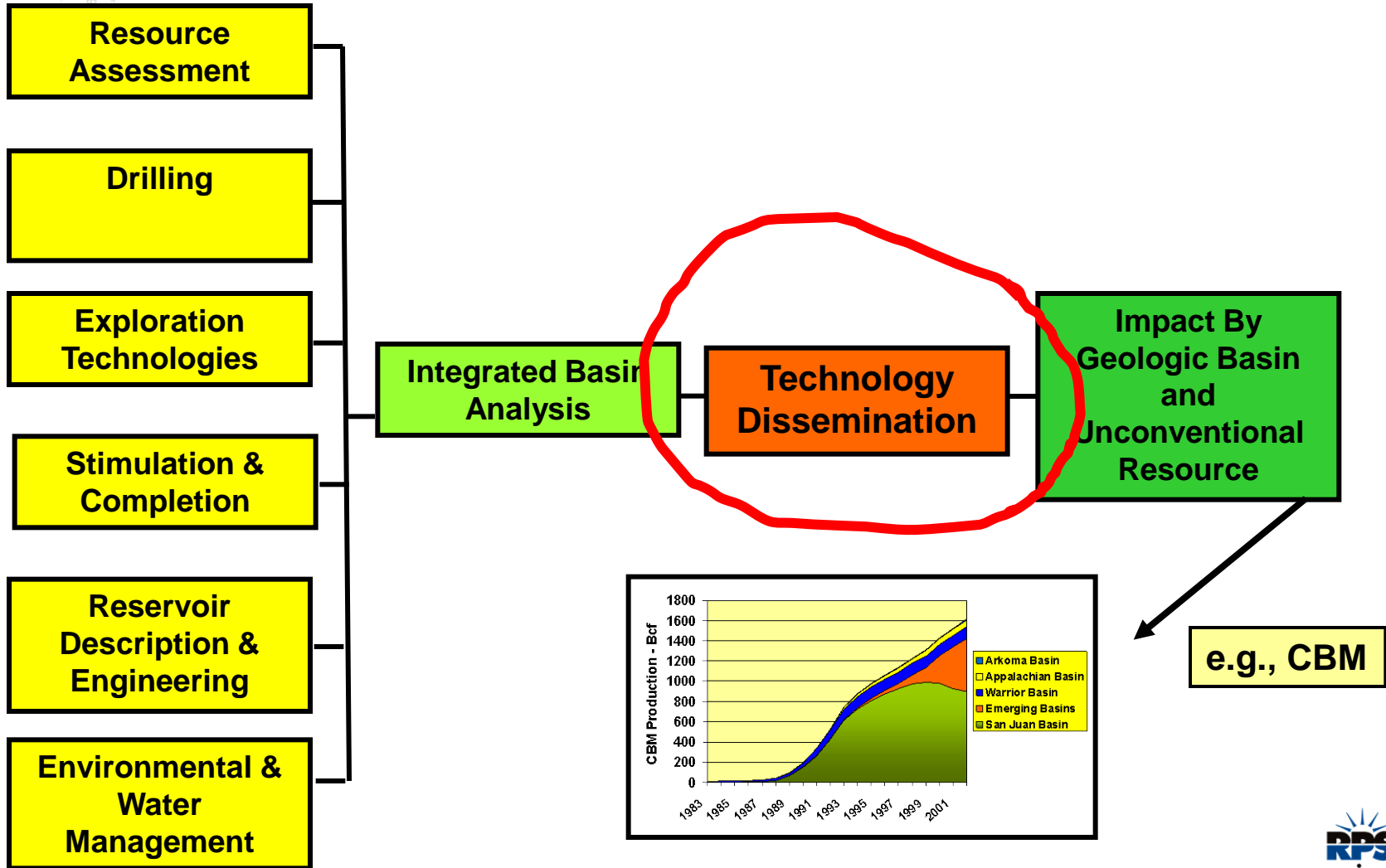


# RPSEA Member Benefits

- **Participate in Program Planning**
- **Field Testing Opportunities**
- **Technology Dissemination**
- **Technology Forums and Member Networking**
- **Three Research Programs**
  - **Ultra Deep Water**
  - **Unconventional Gas**
  - **Small Producer**

[www.rpsea.org](http://www.rpsea.org)

# RPSEA Unconventional Gas Program Components & Approach



# Program Implementation

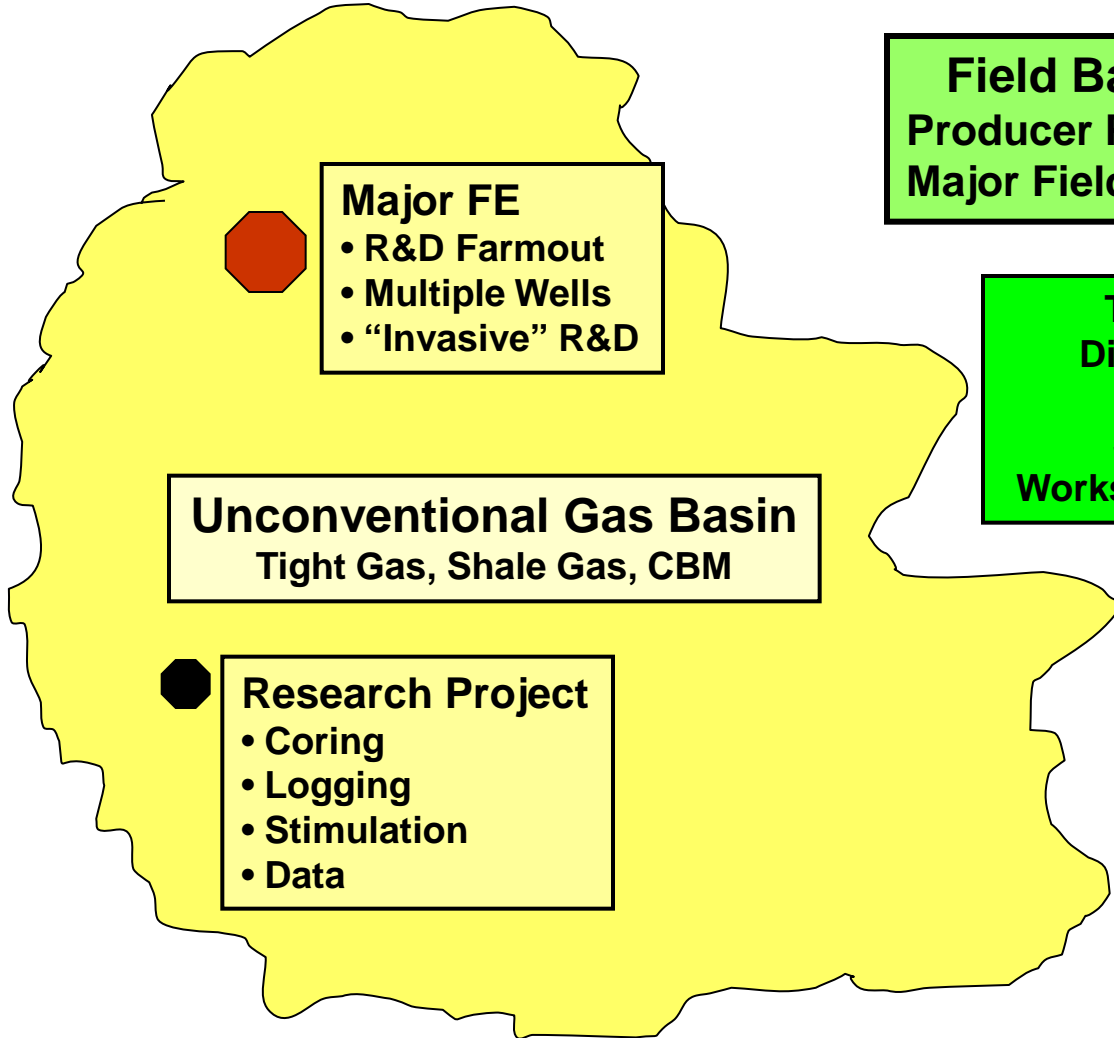
Highly Integrated

## R&D

G&G  
Drilling  
Rock Properties  
Stimulation  
Reservoir  
Produced Water  
Surface Footprint

Field Based R&D  
Producer Partner Wells  
Major Field Experiments

Technology  
Dissemination  
  
Sequenced  
Workshops/Seminars



# RPSEA Unconventional Gas Projects

## Cross-Cutting Technical Projects

2007

UT – Fracturing  
 LBNL – Self Teaching Expert System  
 UT – Refracting  
 TAMU – Fracture Design  
 TAMU – Decision Model  
 LBNL – High Resolution Imaging  
 PSU – Microwave Coals  
 Carter – Saws  
 U of Tulsa – Novel Fracturing Fluids  
 Stanford – Condensate

CSM - Coal Bugs  
 Utah GS - Paleozoic Shales  
 U of Tulsa – Wamsutter  
 CSM – Gas Composition  
 U of Utah – TGS  
 CSM – Produced Wtr.  
 CSM – Piceance TGS  
 CSM – Strat Control

GE – Frac Water Reuse

BEG – Marcellus Natural Fractures

GTI – Barnett and Appalachia Produced Water

GTI – New Albany

Alabama - Shales

Anchor Projects - Integrated Basin Analysis

2007 Technical/Resource Projects

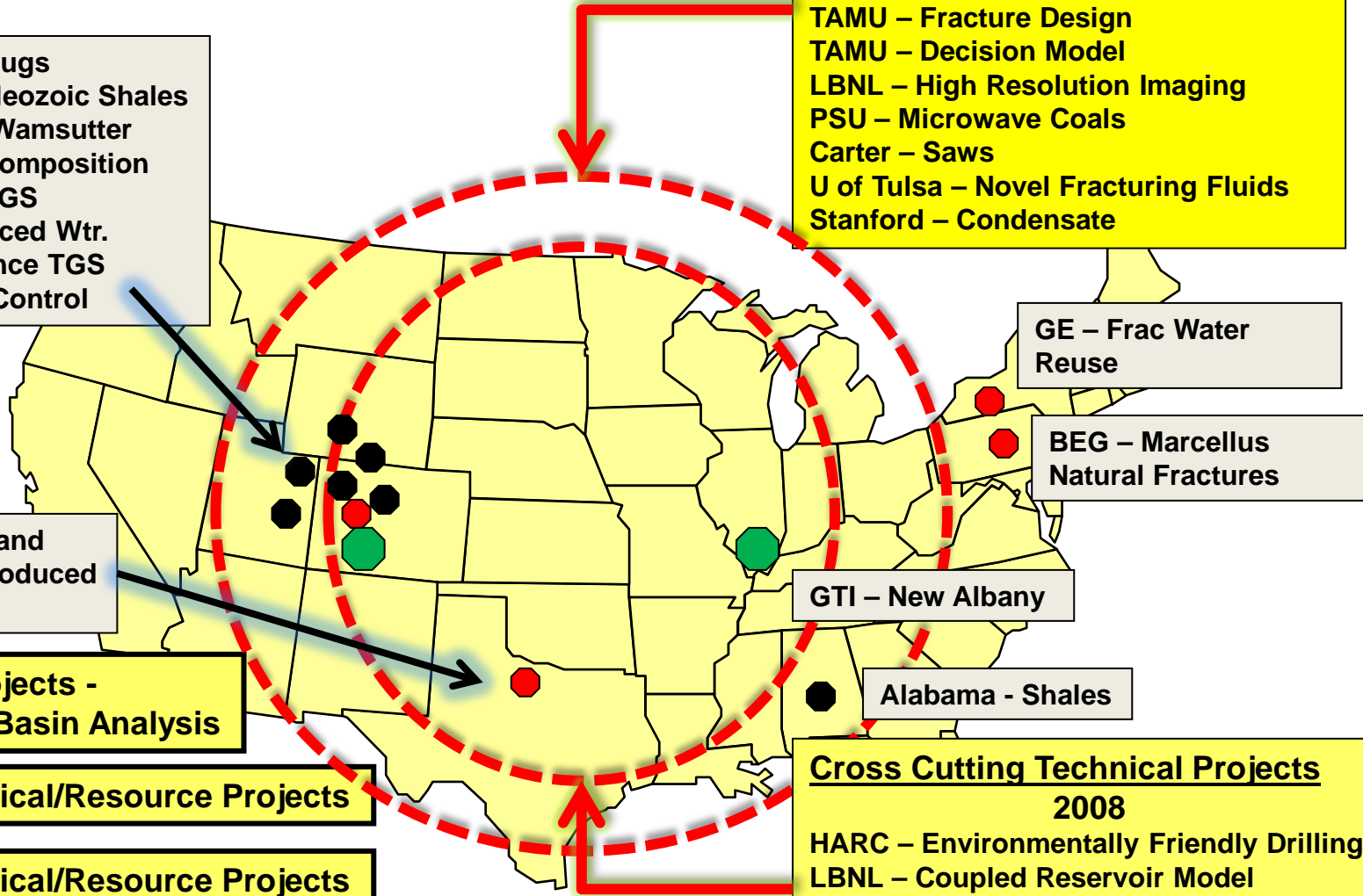
2008 Technical/Resource Projects

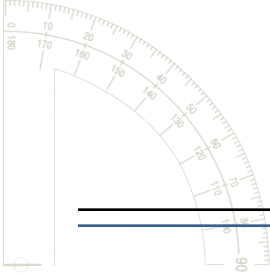
## Cross Cutting Technical Projects

2008

HARC – Environmentally Friendly Drilling  
 LBNL – Coupled Reservoir Model  
 TAMU – Fracture Conductivity  
 BEG – Multi – Azimuth Seismic  
 Caltech – Gas Isotopes

\$32 Million Research Portfolio





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