



HALLIBURTON

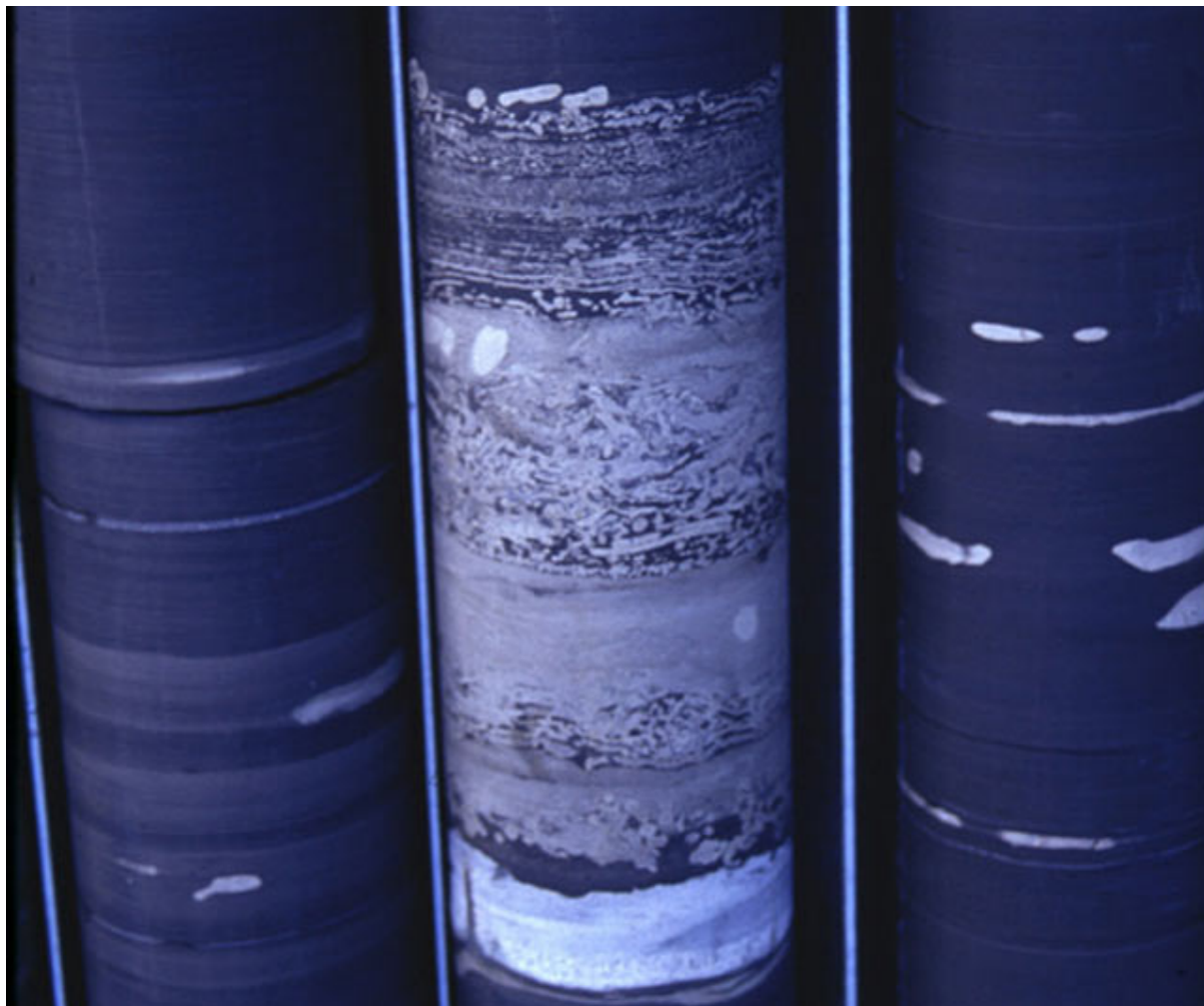
Shale Natural Resources

Stephen Ingram

Solving challenges.™

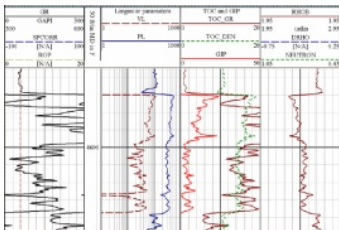


Geology & Geography

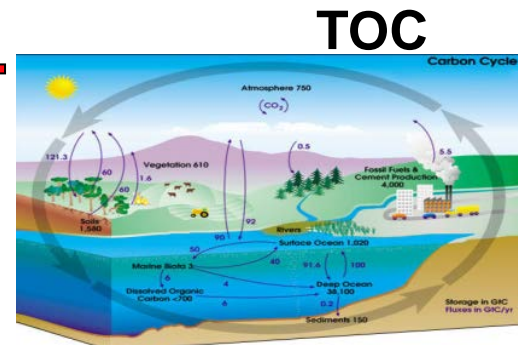
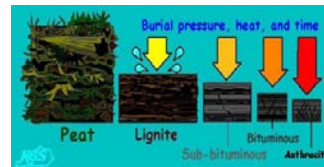


Geology & Geography

Vitrinite reflectance (R_o)



**Gas in
place (scf/t)**

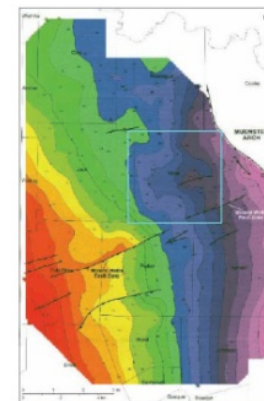


TOC

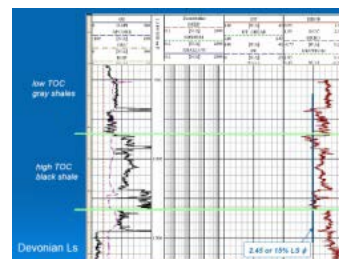


**Area
sq km**

**Net
Thick.
m.**



**Avg
Depth. m**

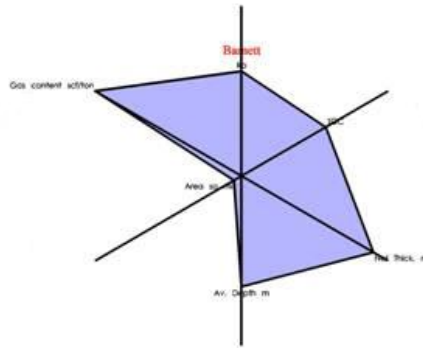


This information is
generally available in the
published literature

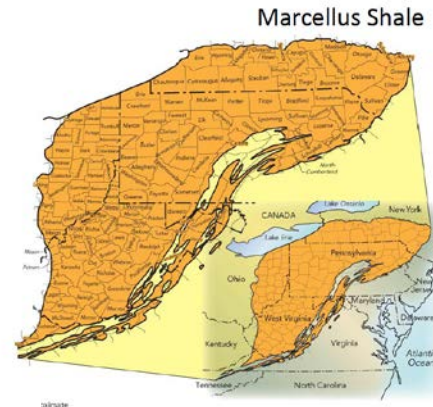
Geology & Geography



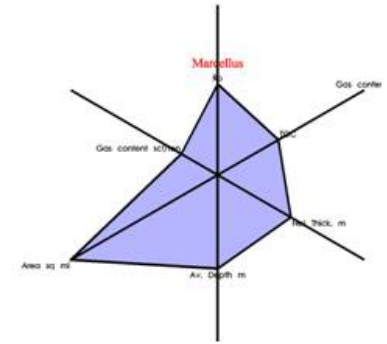
Barnett Shale



Source: Oil & Gas Financial Journal
August 2009



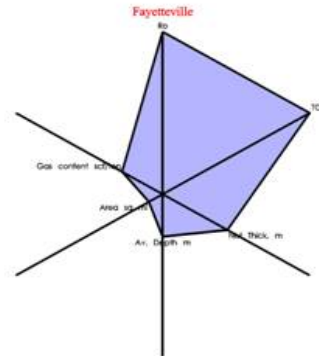
Marcellus Shale



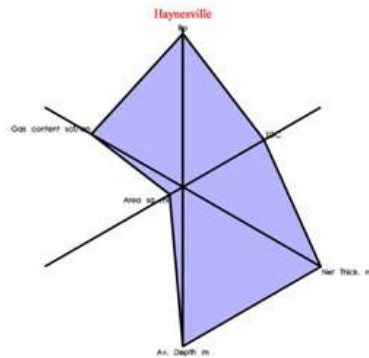
Fayetteville Shale



Source: Oil & Gas Financial Journal
August 2009

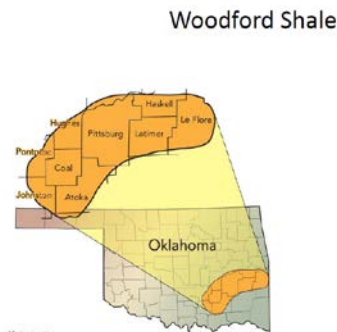


Haynesville Shale

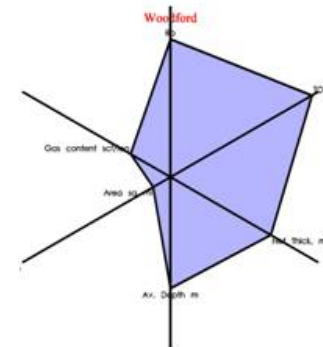


Source: Oil & Gas Financial Journal
August 2009

Core



Woodford Shale

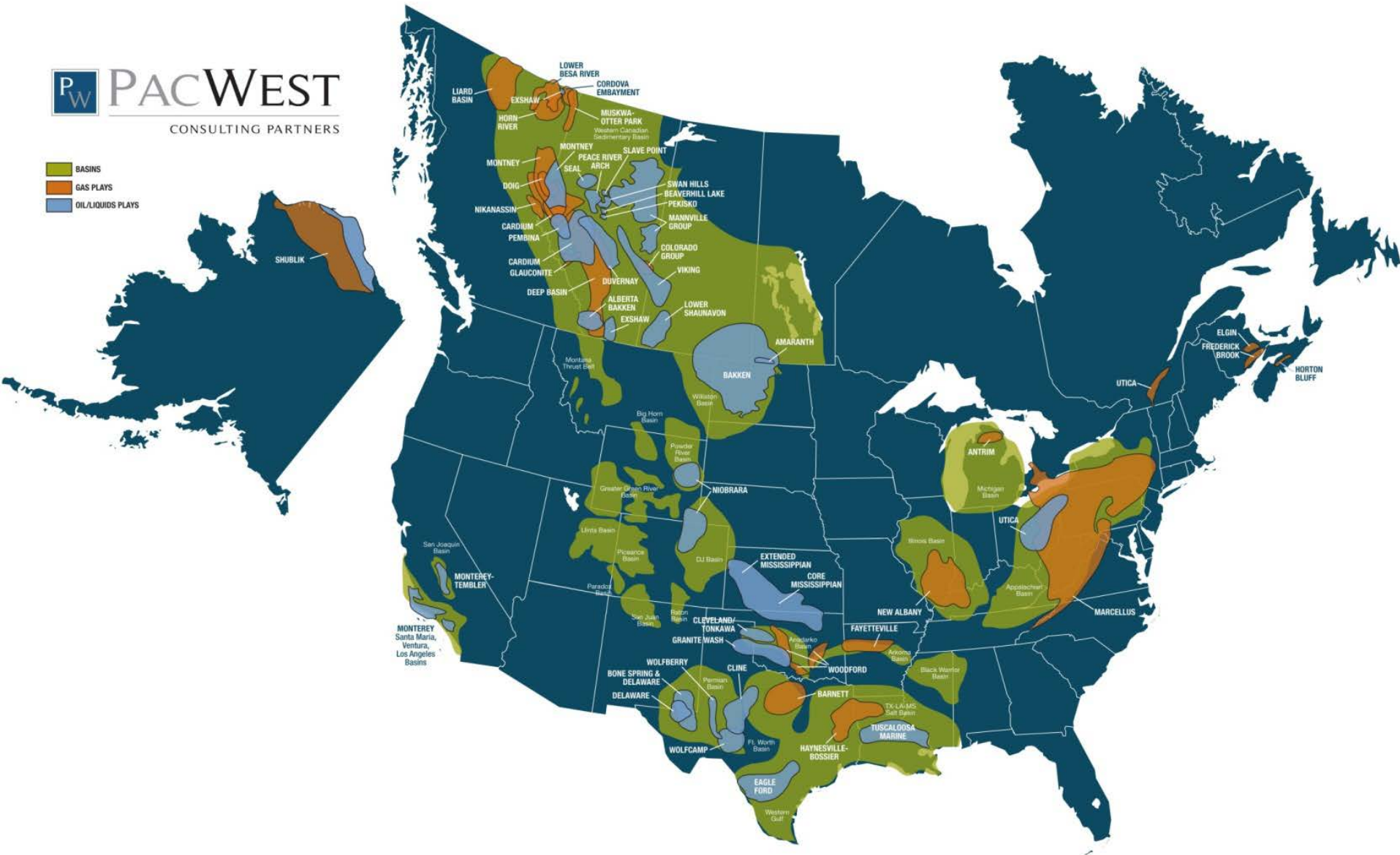


Source: Oil & Gas Financial Journal
August 2009

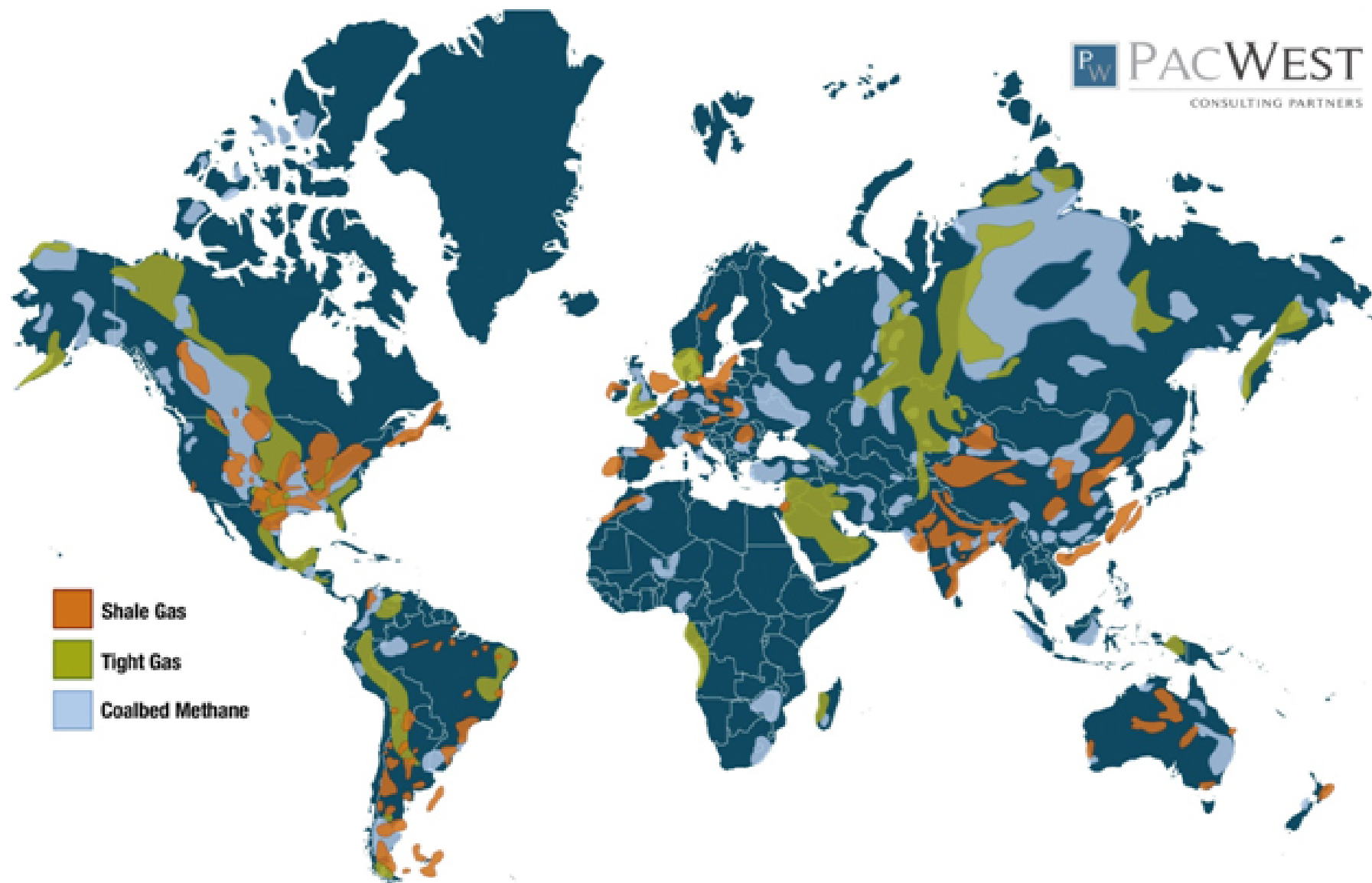
Geology & Geography

PW PACWEST
CONSULTING PARTNERS

 BASINS
 GAS PLAYS
 OIL/LIQUIDS PLAYS

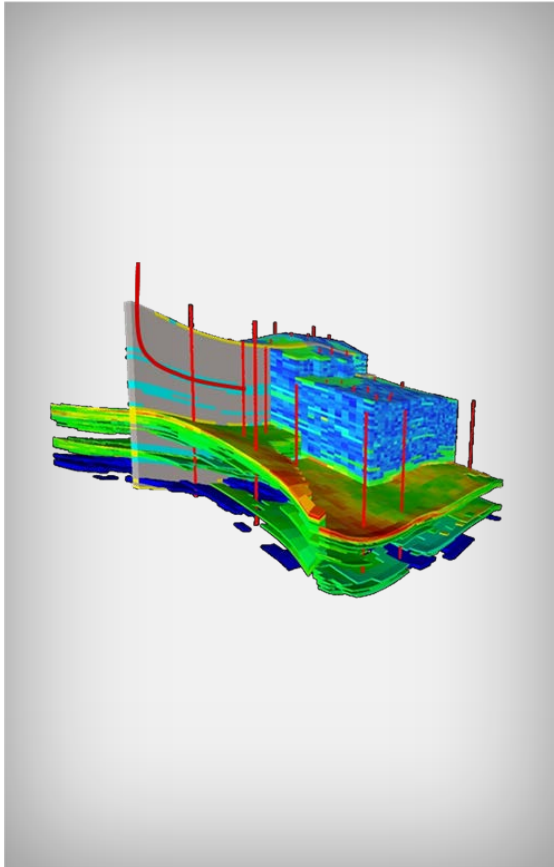


Geology & Geography

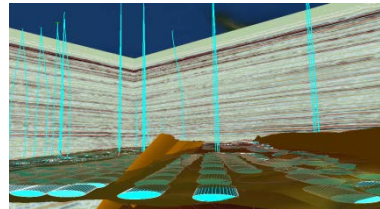
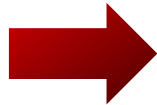


Technology

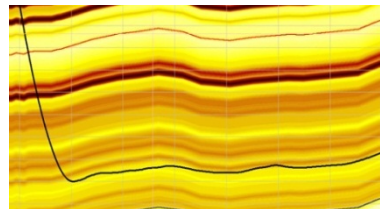
Advancements Deliver Possibility



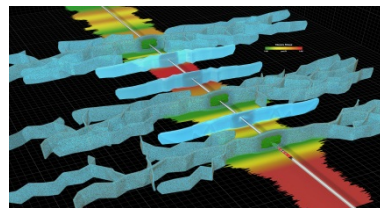
PREDICTIVE MODELING



EFFECTIVE PLACEMENT

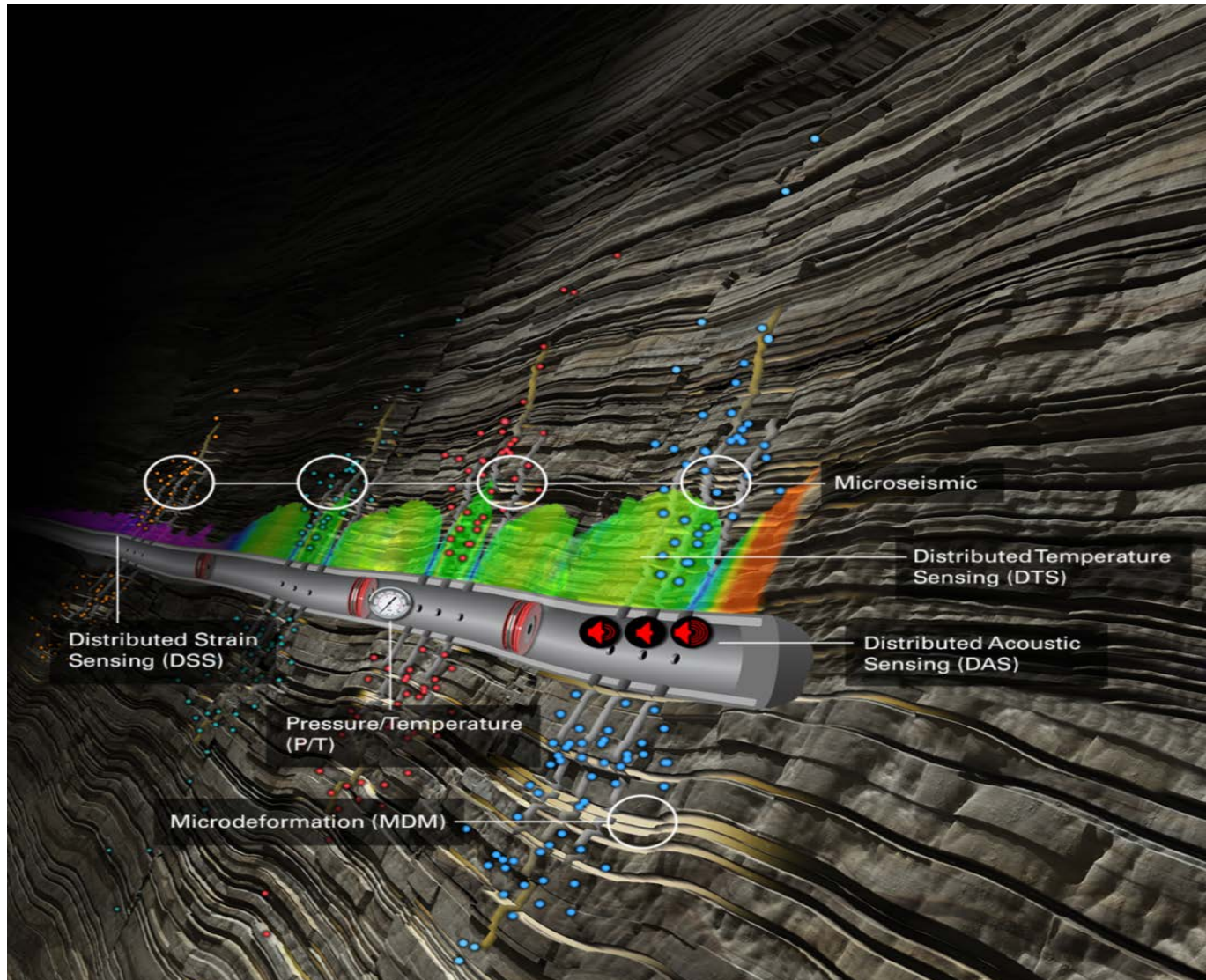


DRILLING & STEERING

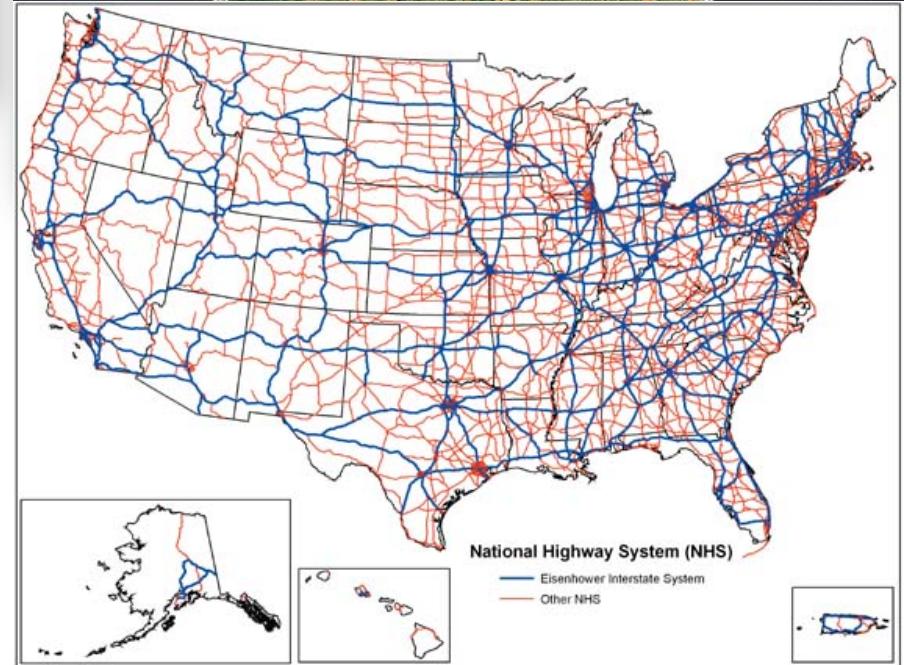
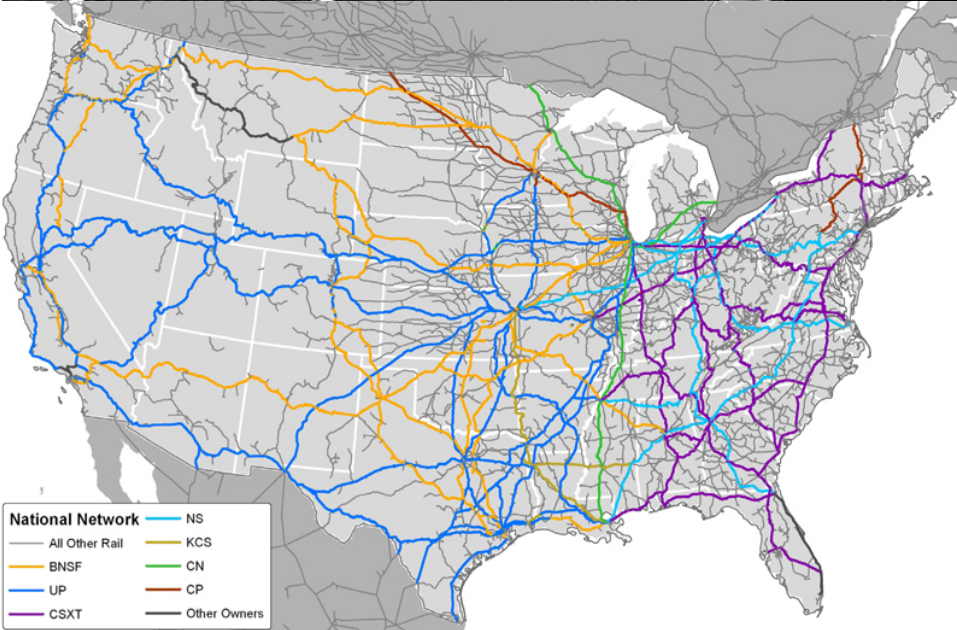


FRACTURING ENHANCEMENTS

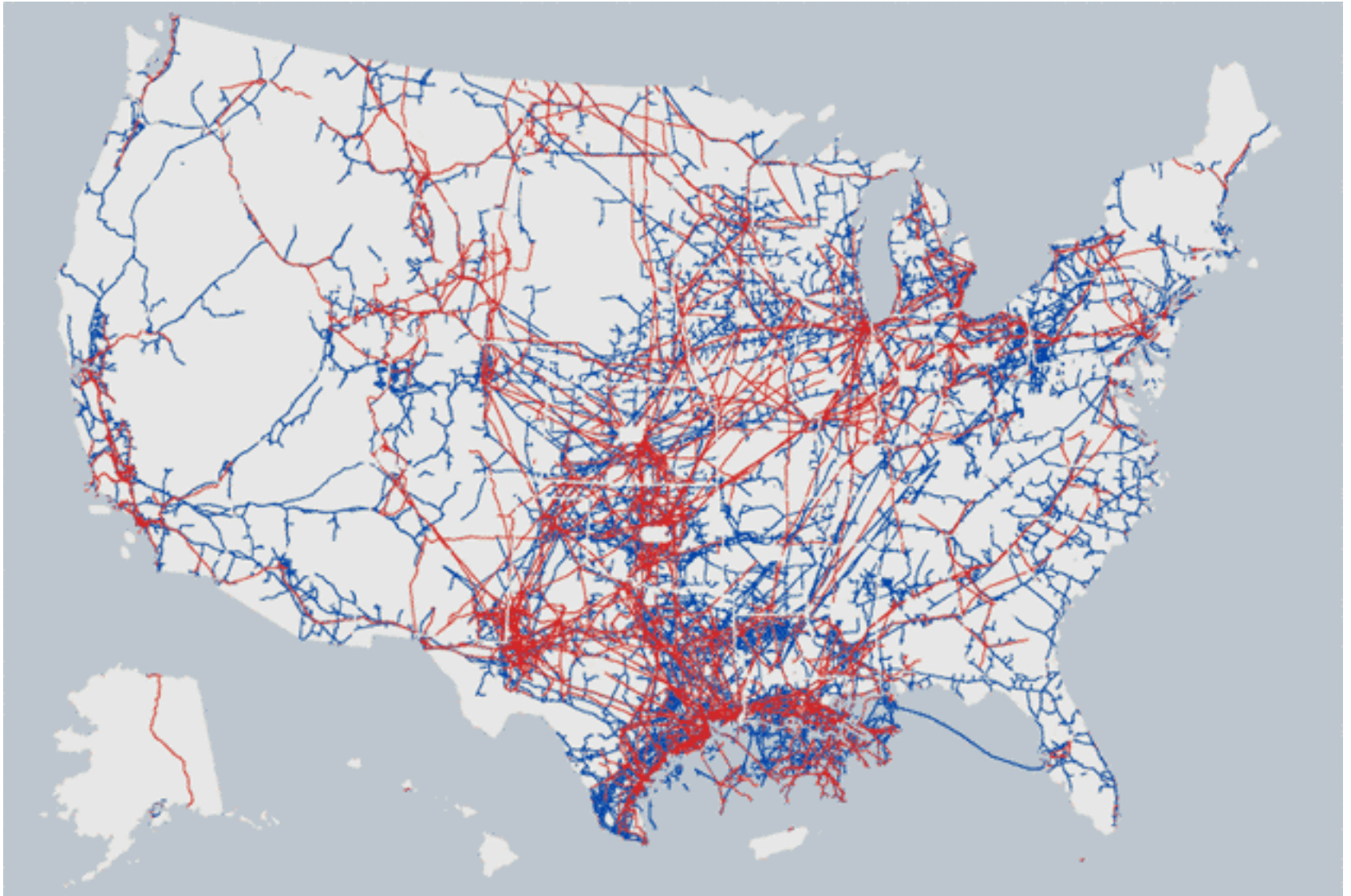
Technology



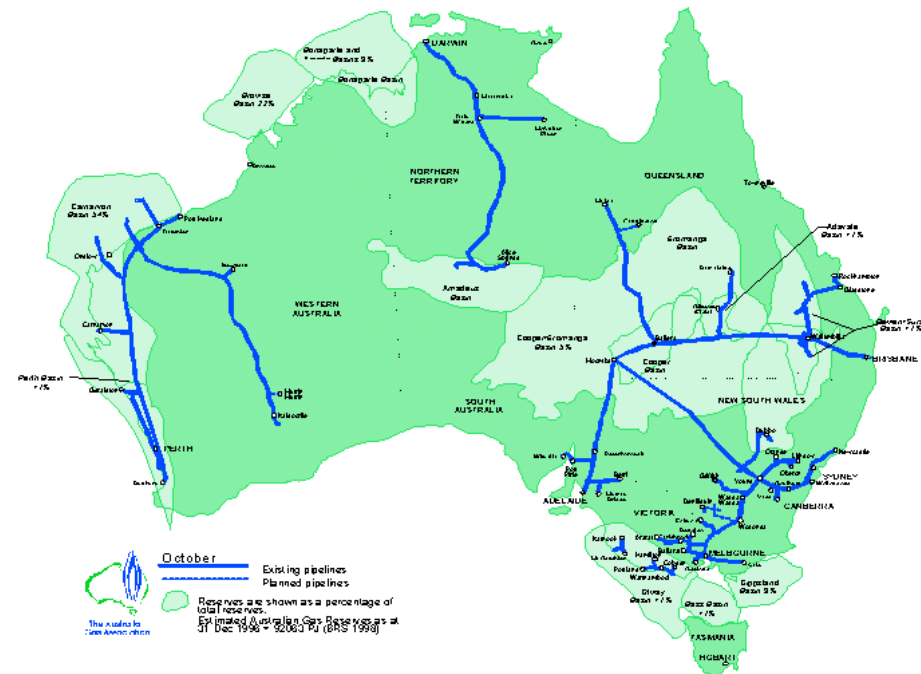
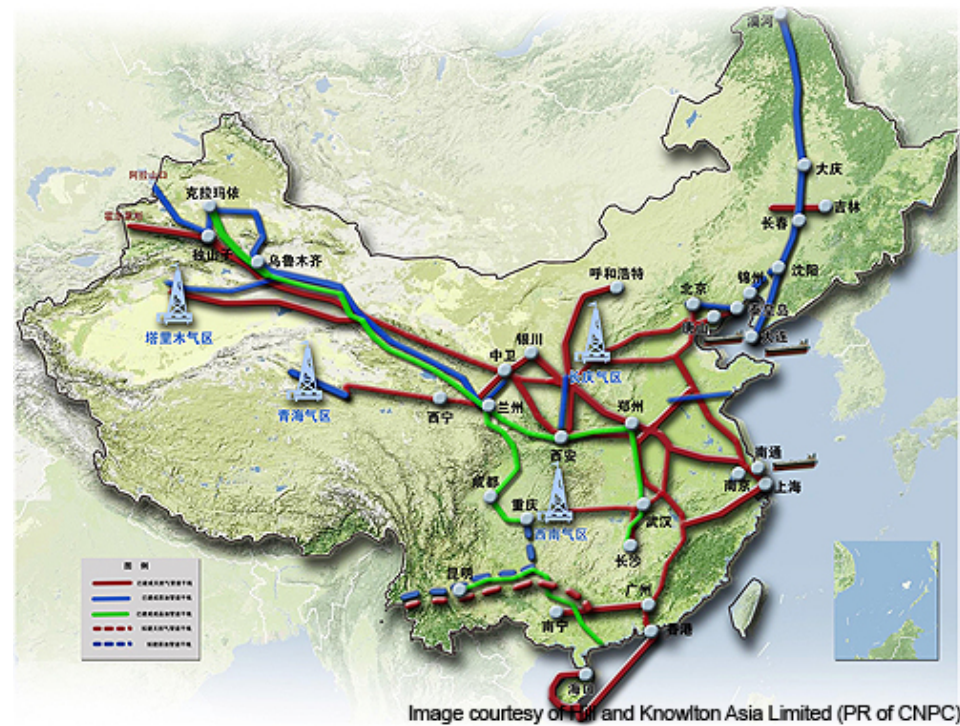
Infrastructure



Infrastructure



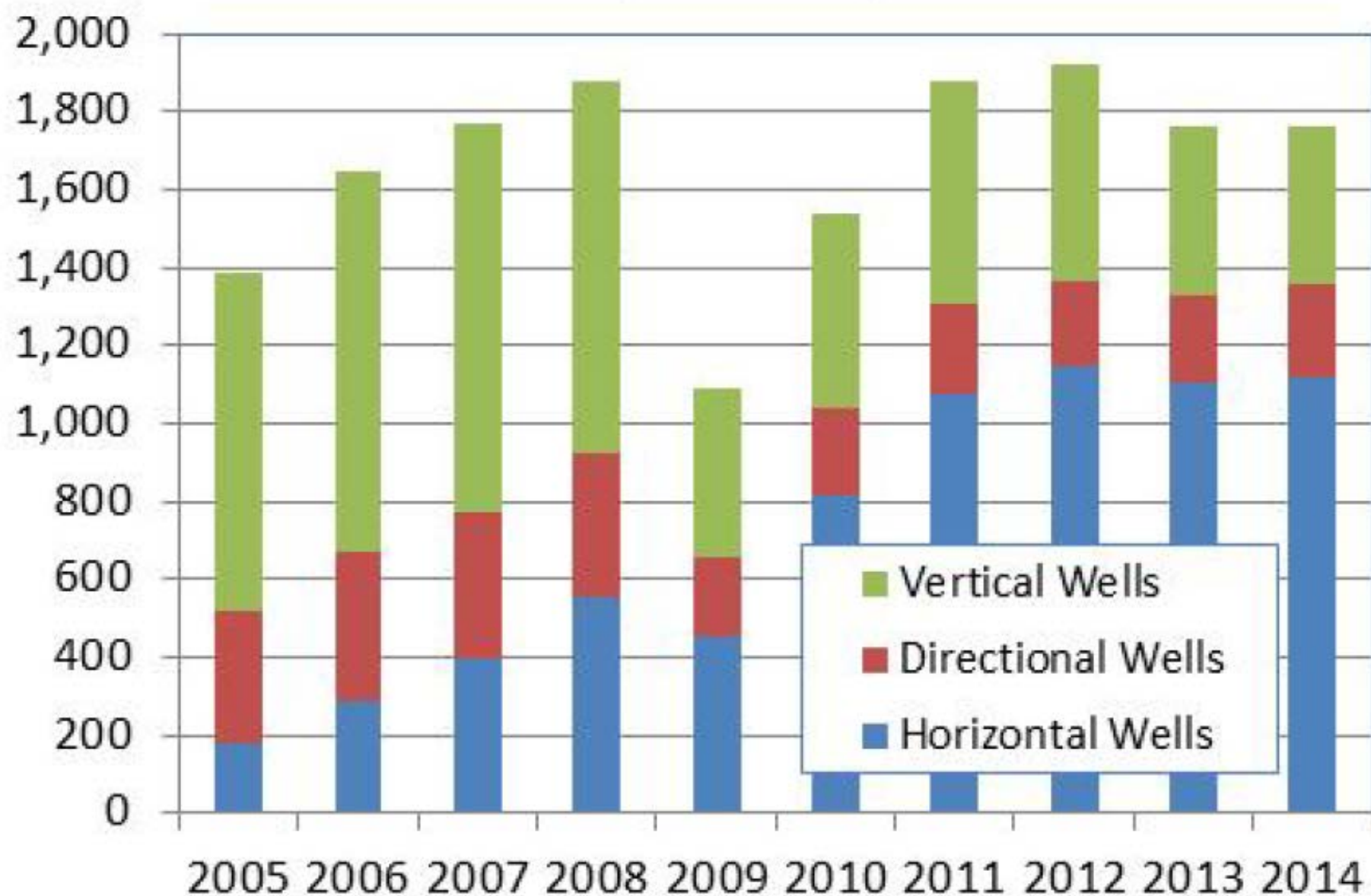
Infrastructure



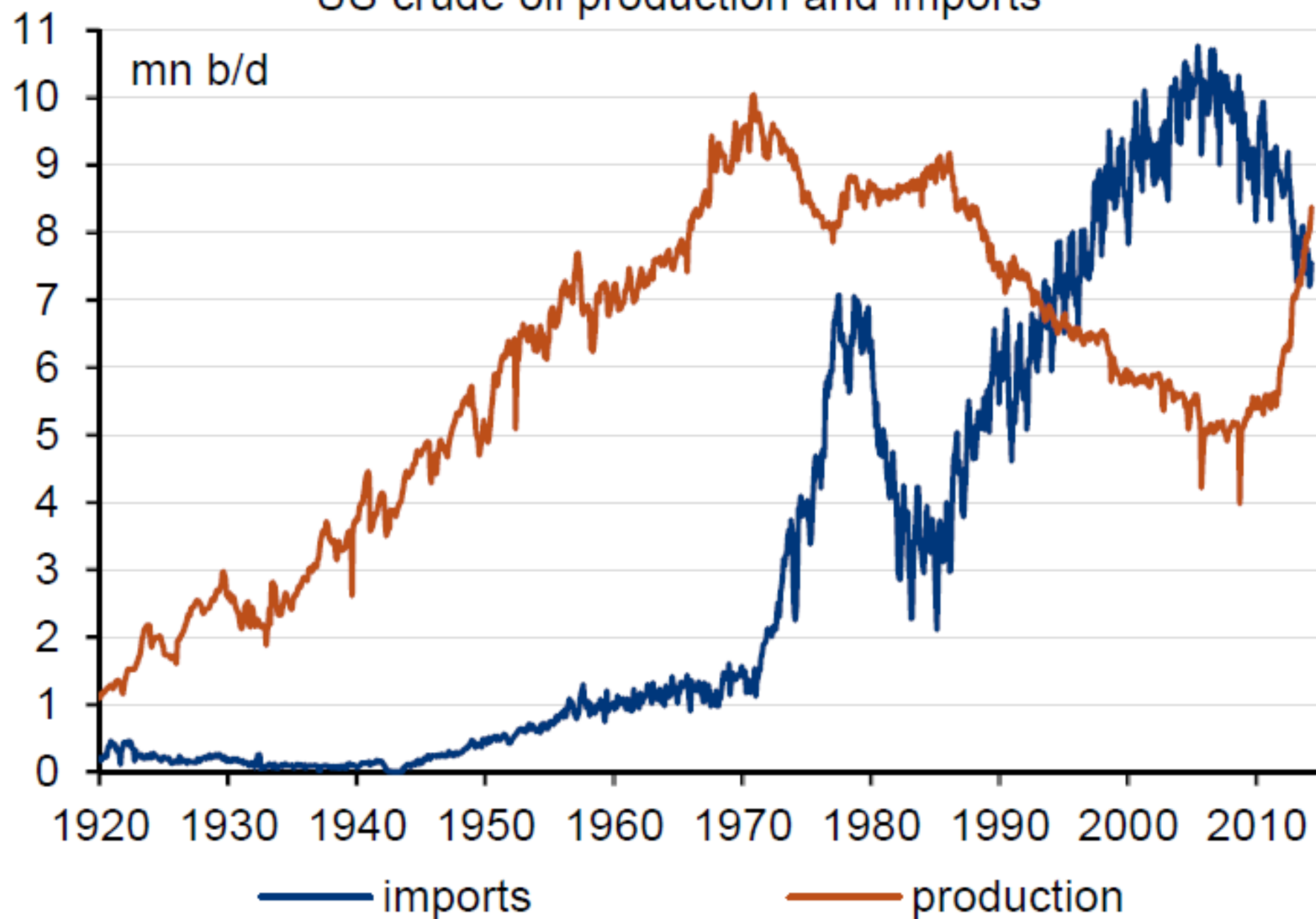
Political / Social



US Average Active Rig Count



US crude oil production and imports





Thank You