



# **Joint Government – Industry Research & Development Forum**

**Washington, DC**

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**“Issues and Challenges Facing the  
Energy Pipeline Industry”**

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# Technology Development in Context

- ➔ **Energy Industry in Transition**
- ➔ **Pipelines Key to Energy Reliability & Deliverability**
- ➔ **Pipeline Infrastructure Highly Variable**
- ➔ **Industry Faces Tighter Margins & Balance Sheet Demands**



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## **Three Key Industry Drivers That Require & Influence Technology**

**➔ Operations**

**➔ Business**

**➔ External**



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## **The Operations Driver**

### **➔ Operate, Maintain, And, As Necessary, Expand the Infrastructure**

- Manage all integrity aspects of the system – pipe, equipment, & activities
- Increase productivity of systems & people
- Deploy cost-effective & environmentally sound construction techniques
- Assure cost-effectiveness, reliability and flexibility for changing supplies, markets, and load factors



## **The Business Drivers**

- ➔ Preserve, Enhance and Extend the “Hard Assets”**
- ➔ Maximize Asset Value and Shareholder Return**
- ➔ Minimize Liabilities**



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## The “External” Drivers

➔ **The Safety Regulator**

➔ **The Public**

➔ **The Politicians**



## **R&D Issues and Challenges**

- ➔ Impact of Industry Mergers**
- ➔ Preserving and Expanding The Knowledge Base**
- ➔ Demonstrating the Costs and Benefits of R&D**
- ➔ Making the Industry – Government Technology Collaboration Work**
- ➔ Balancing of the Industry's R&D Investment**
- ➔ Communicating the Benefits of R&D Within the Industry**



## **The Success of This Forum Depends on You**

- ➔ **Identifying the Drivers, Issues and Challenges That Require, Inform and Impact R&D;**
- ➔ **Determining How You Can Better Inform and Access the Expertise of Others;**
- ➔ **Identifying Ways to Improve Coordination and Collaboration Within and Outside of Your Organization; and,**
- ➔ **Thinking Outside of the Box; and, Where Necessary, Redefining the Box**