

# Energy Delta Institute

International knowledge junction on the gas roundabout



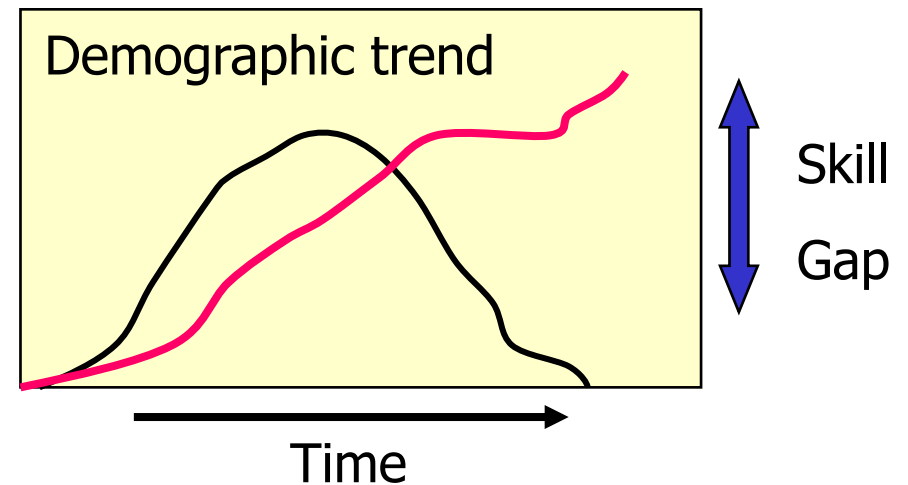
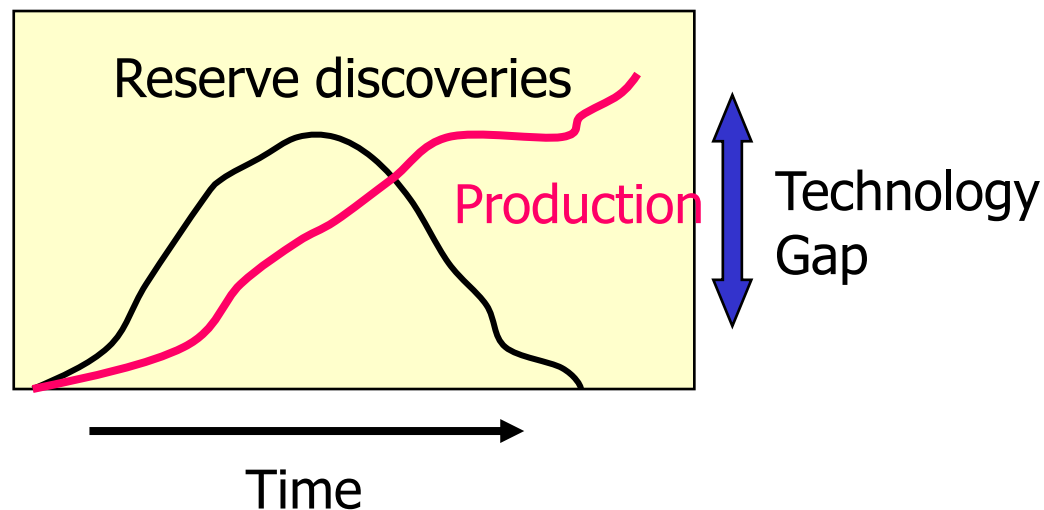
Strategic partners:



Associated partners:



# Meeting Future Demand

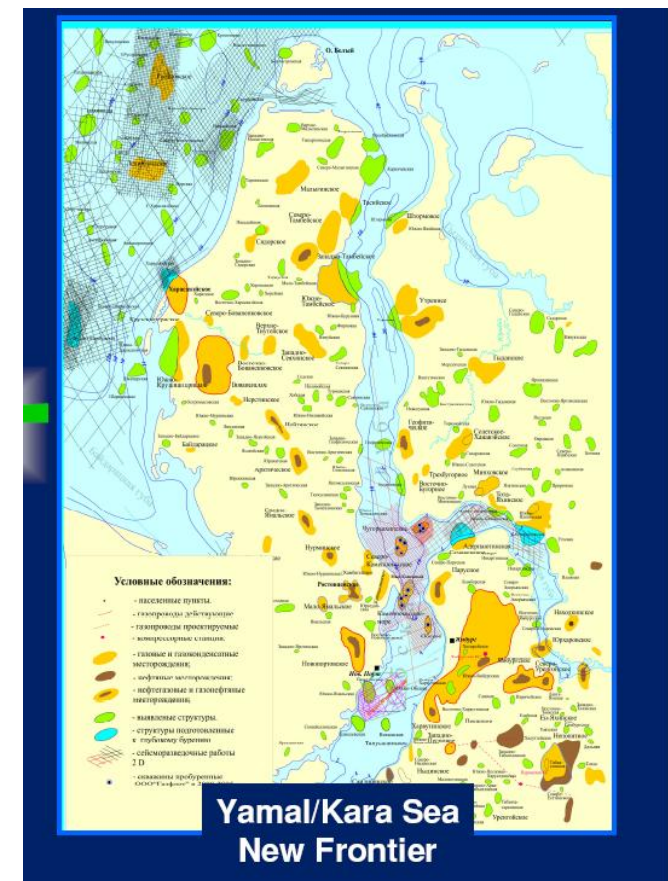
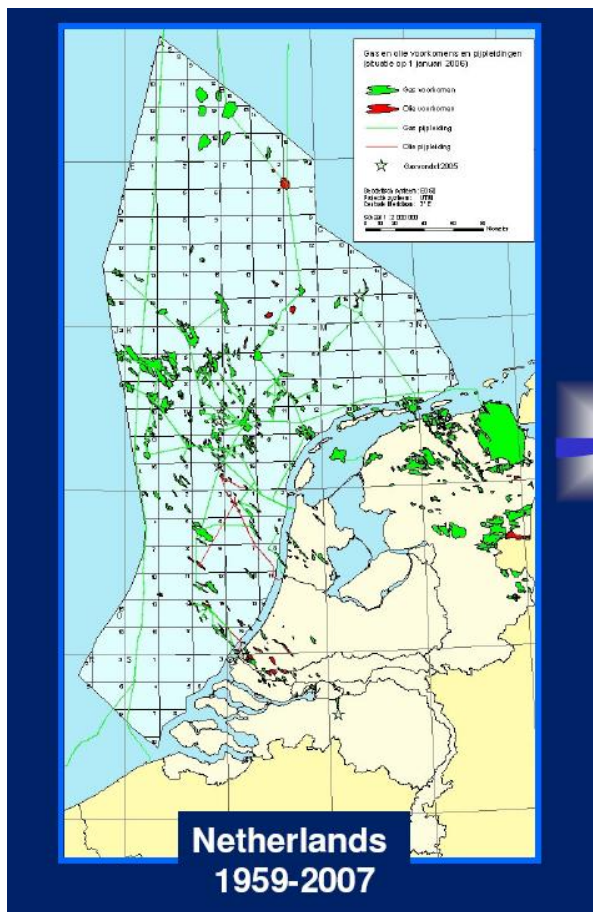


- Cheap Oil is Gone
- New Technology Needed
- Risks increasing in New & Old fields
- Smart Fields/Field of the Future
- Uncertainty Modeling & Risk Analysis
- Experienced Workforce Required





# New Challenges



International Cooperation & Sharing of Knowledge  
Joint Staffing, Training & Recruitment

# Knowledge network EDI



University  
Groningen



Gasunie



GasTerra

Gazprom



Shell

University  
Delft



RWE



Energy Delta Institute



Gubkin University  
MGIMO ... and others

# EDI's portfolio



**Executive Master of Petroleum Business Engineering**

**Executive Master for Finance and Control**

**Natural Gas  
Strategy Course**

**Large Energy  
Projects Course**

**Flexible  
Master Gas  
Business**

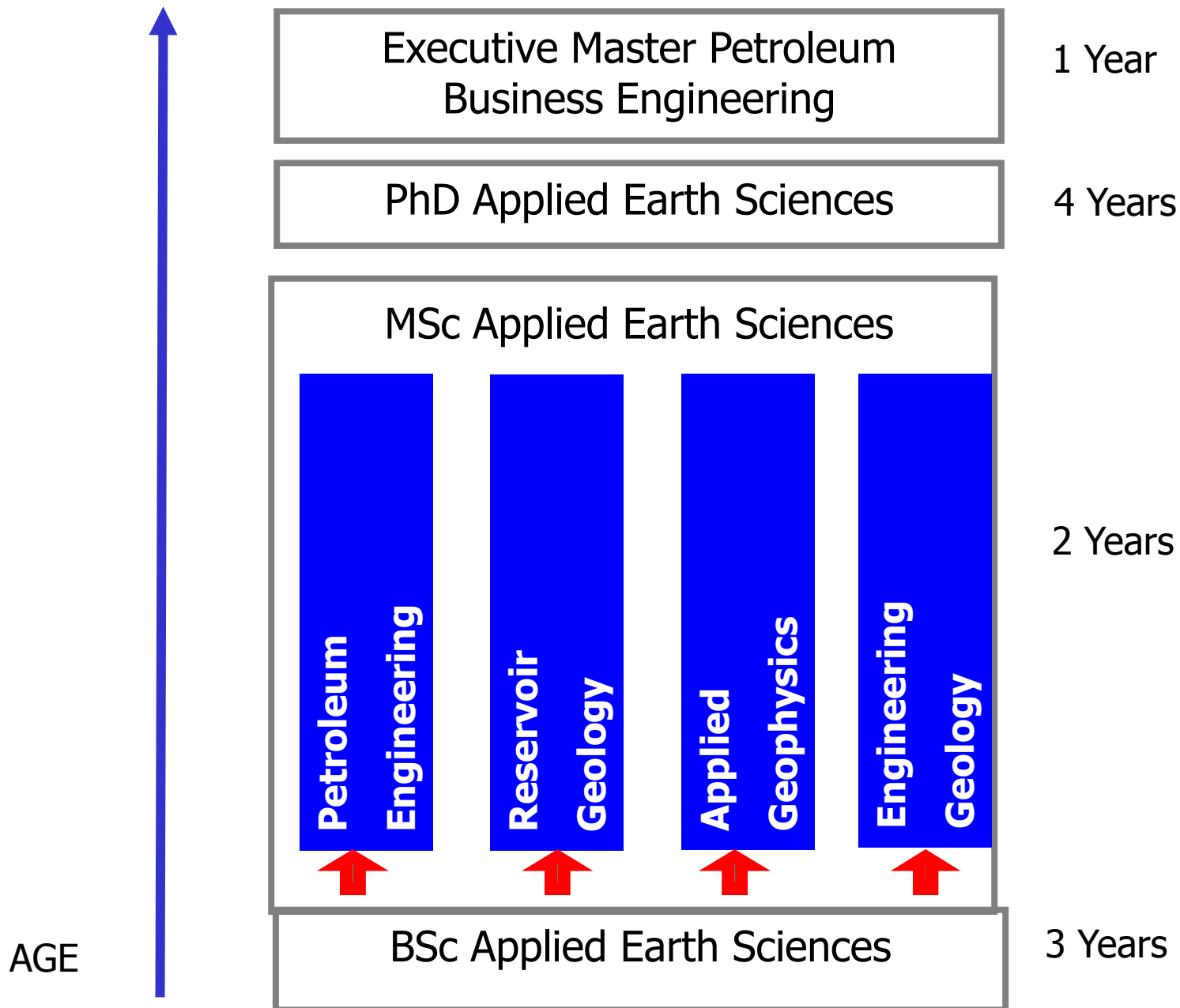
**Gas Market Regulation  
Course**

**Short tracks +  
In-house**

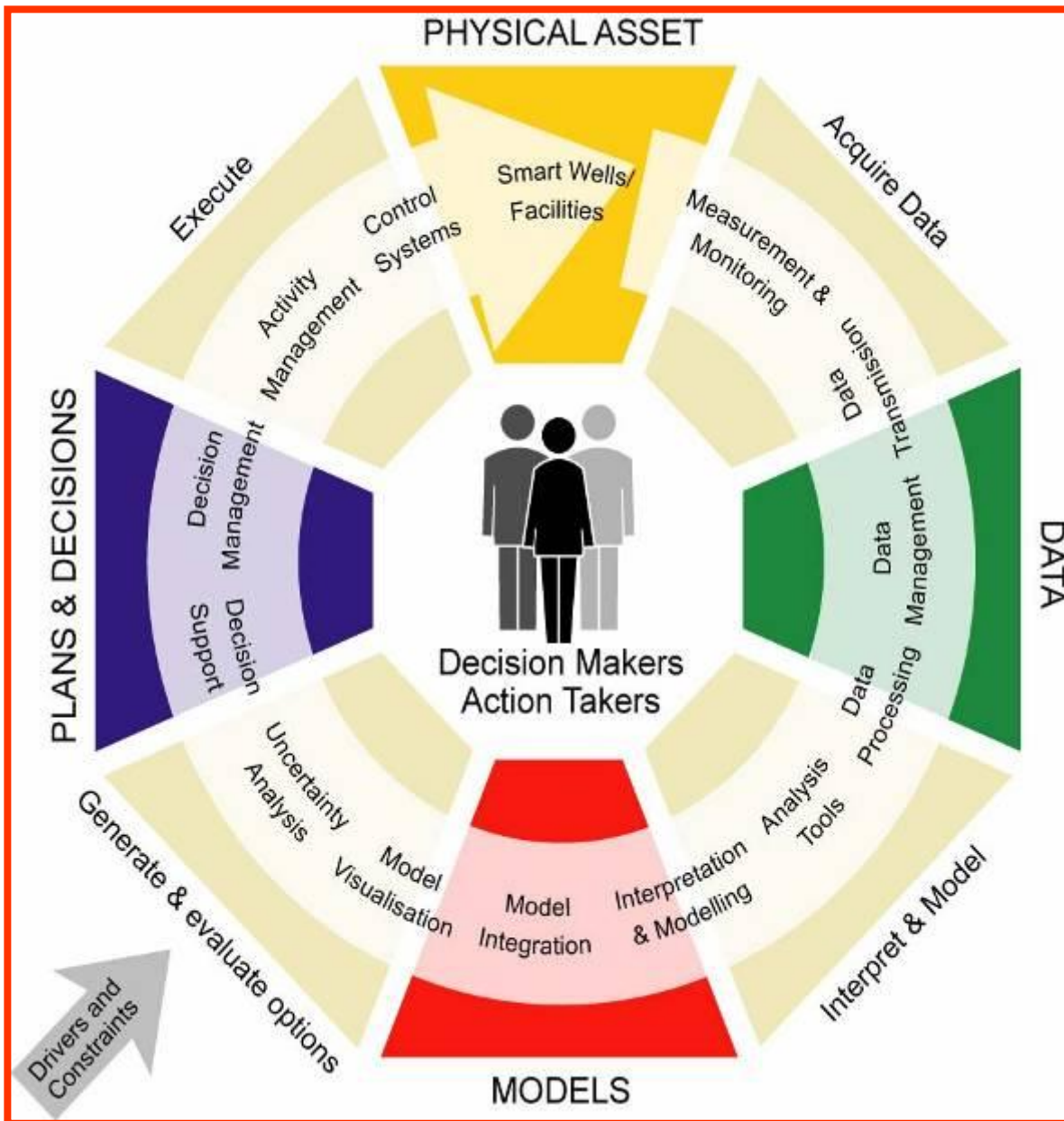
**Introduction Programmes**



# MPBE in TU Delft Training Portfolio



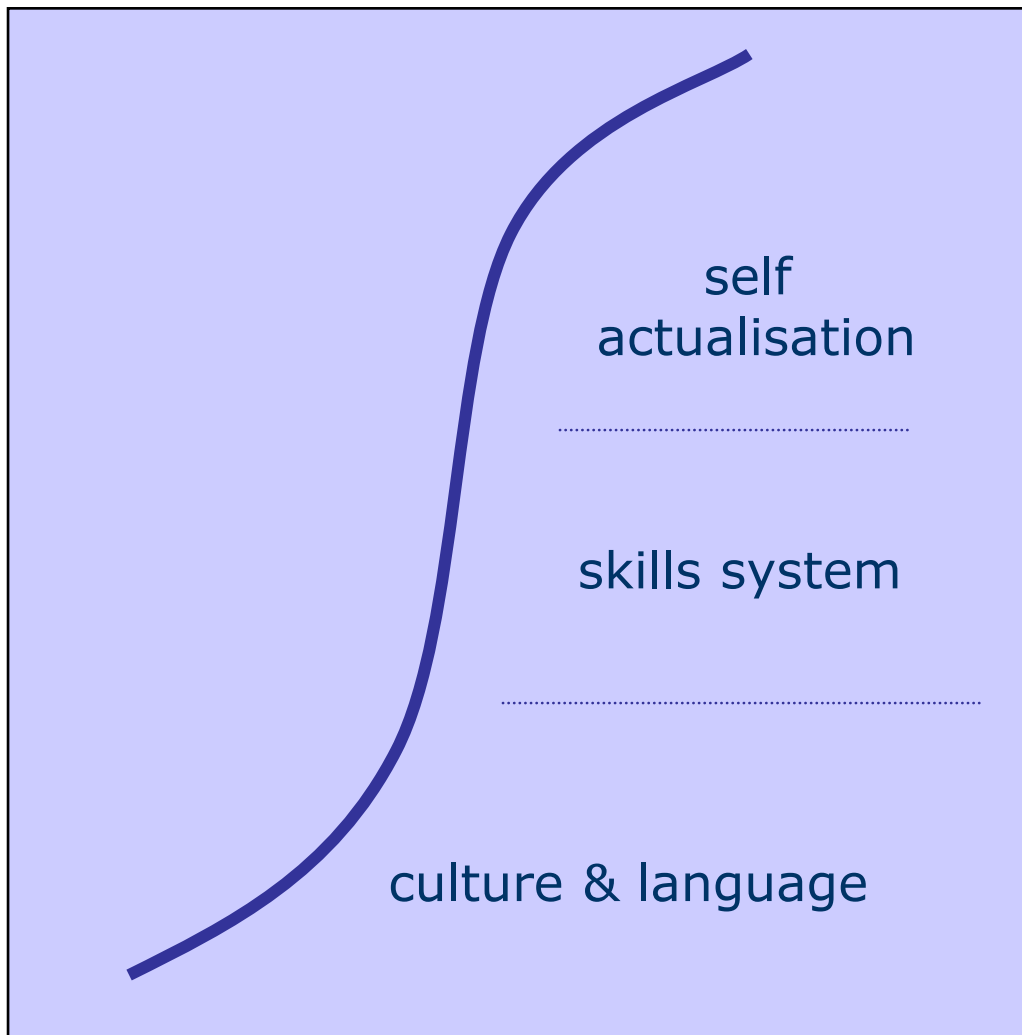
# Engineering view of Skilled Workforce: Skills & Competences?



- **Value Chain Vision**
- **Uncertainty Modelling**
- **Risk Analysis & Decision Making**
- **New Technology**
- **Finance & Economics**
- **Project & People Management**
- **Integration Skills**

Courtesy: Shell

# Goals of New Entrants



**match with  
goals new entrants**



**current focus industry**



**match with  
culture new entrants**



# Examples Challenges



- Role model: Technical Heroes
- Fit with Internet driven New Generation
- Less Binding HR Development Contracts & Grants
- Travel Experience Oil & Gas Sector no longer unique
- Priority Sustainability <> Fossil Fuels  
(Obama effect)

# Energy Learning Initiative



## **Create a Network of Learning Centres** **The Places to Be**

Energy Programmes in a international curriculum

### **Amidst**

- Energy Related programs for other Scientific Disciplines
  - International Students Communities
- In cities with strong relation to Energy Industry
  - Strong Internet Connections

### **And**

**Make these places the Centre of Energy related**  
**Art, Music, Fashion, Sports etc.**

Doha, Murmansk, Stavanger, Groningen,  
Houston, Moscow, Dhahran, etc