

THE PETROLEUM INFRASTRUCTURE PROGRAMME PIP

Atlantic Ireland 2013
11th November 2013
DUBLIN

PIP is Fit for Purpose



- Established 1997
- Management Committee, 4 Technical Committees, Secretariat, Rules of Procedure
- Indecon Review 2009
 - PIP objectives appropriate & well defined
 - PIP has positive impact on its stated objectives
 - PIP is well managed
- Positive feature is the involvement of Industry



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First AGM of PIP at the P&O offices on 17th July 1997

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New Oil Basin
New Contracts Signed
Plans for 1999

LAUNCH OF THE PETROLEUM INFRASTRUCTURE PROGRAMME (PIP)

Major Petroleum Exploration Initiative
The Petroleum Affairs Division (PAD) of the Department of the Marine and Natural Resources initiated the Rockall studies Group (RSG) under the Petroleum Infrastructure Programme (PIP) in June 1997. This innovative research programme with a budget of IR£4.8 million over four years makes the Irish sector of the Rockall Trough unique. It is the only exploration province in NW Europe where all active companies are involved in a single joint industry programme covering geological, geophysical, geochemical, environmental and metocoan data gathering and research.

FIRST AGM OF PIP AT THE PAD OFFICES ON 17TH JULY 1997

Back row (l-r): Navee Gurupia (Shell), Sean Hayes (BP), Jeremy Costello-Bonina (Murphy), Marco Valentini (AGC), Andrew Wilson (Esso/BP), Chris O'Leary, Duncan (John Tovey), Piers Elin (Total), Chris Bell (BP Amoco), Stephen Hartig (APCC), Marie Farnell (DAG)

Front row (l-r): Gair Haver (Shell), Colleen Robinson (Gazag), Dai Ryan (BP), Noel Murphy (DAG), John McGilchrist (Esso/BP), James Henrich (Arco/Shell)

Not pictured: John Lavelle (Brian-Borner), Philip Newman (BP), Roy Clarke (M&P), John Chatterkian (Chelex)

The first AGM of the RSG management committee was at the office of the PAD at Began Bush in Dublin on 17th July 1997. Sixteen Oil Companies with exploration licences for the Rockall Trough and the PAD are represented on the committee. The research is focussing on four areas of investigation each administered by a technical committee:

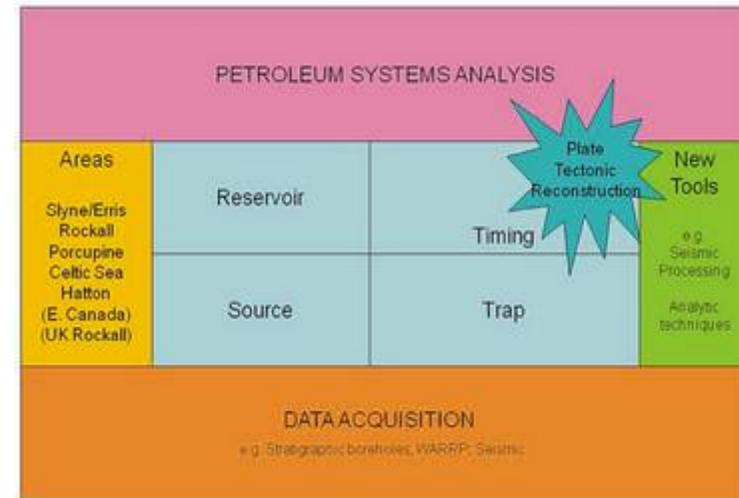
- **Sub Surface:** This area covers deep coastal investigations and includes wide angle/OBS seismic acquisition, and gravity / magnetic studies.
- **Seabed:** This area focuses on all aspects of the sea and near surface sediments; research activity includes stratigraphic investigation using shallow drilling and slope stability analysis utilising high resolution shallow seismic, sidescan sonar profiling and seabed contouring.
- **Metocoan:** A strategy for metocoan studies has been prepared to stimulate regional metocoan projects.
- **Environmental:** this area of investigation includes seabird and metocoan monitoring, biological and geochemical sampling and benthic studies.

Dr Michael Woods TD, Minister for the Marine and Natural Resources officially launched the Programme on 7th February 1998 at a reception in Jury's Hotel in Dublin. Members of the management and technical committees of the PIP Rockall Studies Group as well as representatives from several research organisations, universities and government agencies attended the buffet luncheon.

Project Proposals
Sixty-four project proposals covering the four areas of investigation were received to date. The technical and management committee reviewed these and twenty-five of the projects were approved. Three data review projects have been completed. Contracts have been signed for twenty of the projects. Eleven of those contracts are with organisations based in Ireland. The experience obtained and contacts made by Irish personnel will provide a strong basis for winning further business for Ireland in the future.

The Dublin based CSA Group, which has considerable experience in working with petroleum and mineral exploration companies both in Ireland and overseas, provides secretarial services to the Rockall Studies Group.

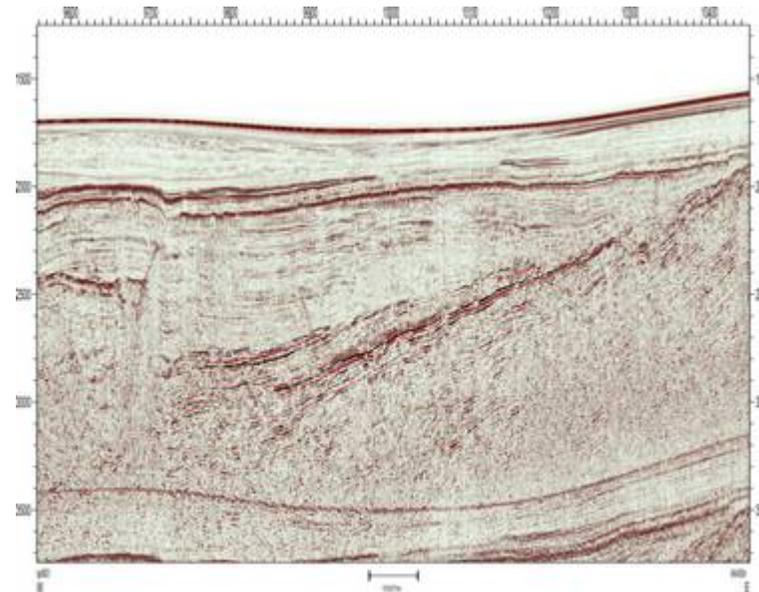
PIP is about PROJECTS



Focussed on common industry problems offshore

More than 60 projects have received in excess of €16m in funding over 16 years

Open Call 2013 - 40 project proposals received, €2.5m funding available





PIP PROJECTS



Some of the landmark projects completed are:

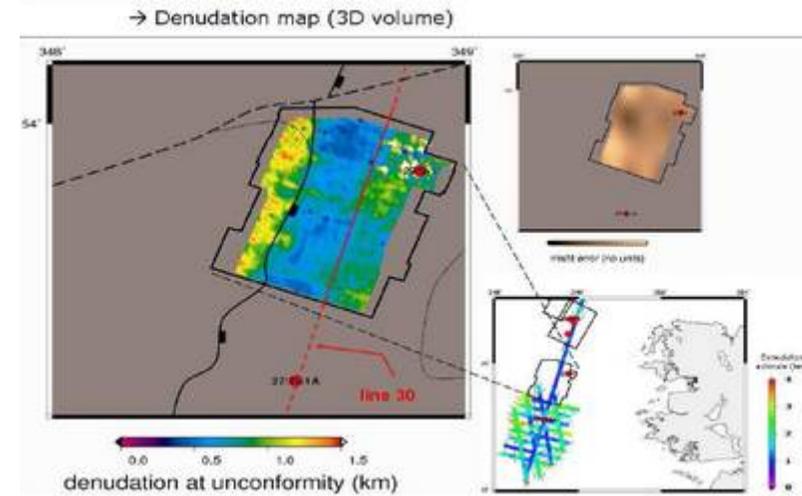
- 'MeBo' drilling on Porcupine High (2006 & 2008)
- Structural nomenclature for Rockall and Porcupine (PAD SP 1/99 and 1/02)
- Wide-angle reflection and refraction seismic surveys
- Side Scan Sonar survey of Rockall Trough margins
- Four boreholes drilled on eastern flanks of Rockall
- Cetacean and seabird distribution off Ireland
- Descriptive Regional Climatology
- Geohazard and shallow stratigraphy studies
- Gravity and magnetic compilations
- Evolution of overpressure in Porcupine Basin
- High resolution seismic acquisition over Hatton/Rockall
- Petroleum systems analysis of Slyne, Erris & Donegal Basins (PAD SP 1/05)
- Engineering downtime analysis & cost effective drilling (PAD SP 2/05)
- Environmental assessment review
- Seismic data quality assessment (PAD SP 3/05)
- Cost effective field development study (PAD SP 2/06)
- Petroleum systems analysis of Rockall & Porcupine Basins (PAD SP 3/06)
- New Kinematic North Atlantic Plate Reconstruction between Ireland & Canada



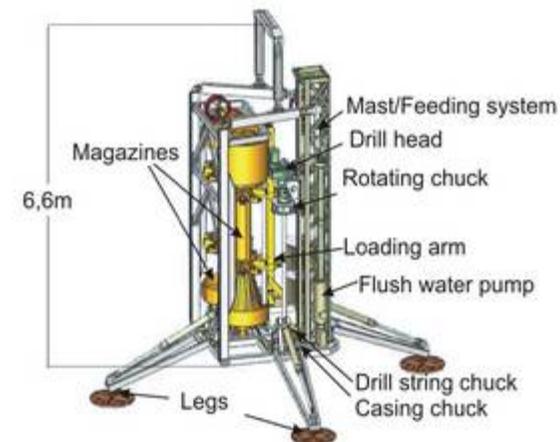
PIP is about INNOVATION



- ✓ Practical application of creative ideas
- ✓ Funds convergence in science & technology
- ✓ Demonstrates an exceptional level of collaboration between industry, academia and government
- ✓ Exploits & integrates existing data & technology to provide exploration solutions
- ✓ Acquires new data to support innovative modelling
- ✓ Stimulates foreign direct investment in Irish exploration



New method to estimate denudation from seismic



Deep water test of seabed drill rig

PIP is about PEOPLE



NAPSA Meeting 2011



First PIP MCM 1997



BTYSE 2013

PIP is about You



“Company involvement on technical committees ensures that work programmes are aligned with the oil exploration sector's requirements in Ireland.” *Indecon Report 2009*

If you have any queries do not hesitate to contact the Secretariat
Nick O'Neill , noneill@pip.ie, +353 1 296 4667, +353 87 2311069