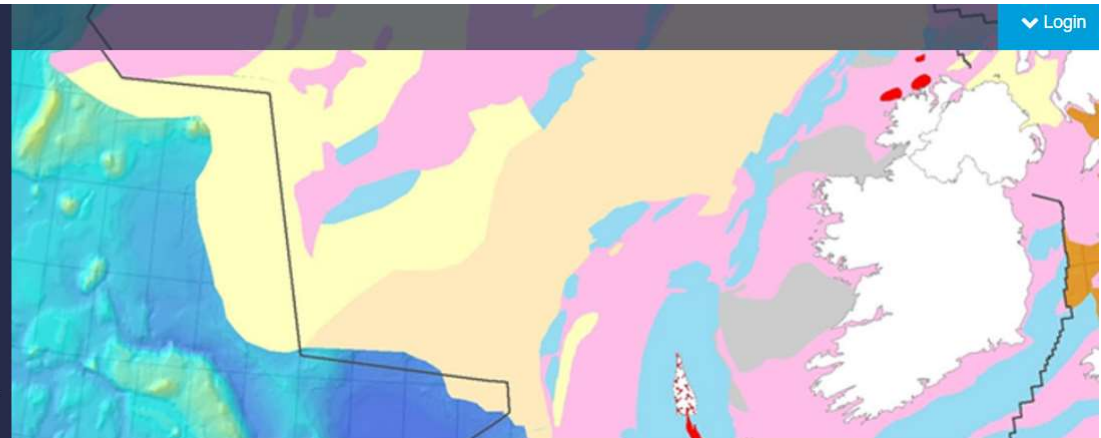


THE IRISH SHELF PETROLEUM STUDIES GROUP (ISPSG)

Enabling Ireland's Energy Transition & Energy Security



Established in 1997, the overall aim of the Petroleum Infrastructure Programme is to promote hydrocarbon exploration and development activities in Irish offshore areas



The Petroleum Infrastructure Programme (PIP) was set up by the [Petroleum Affairs Division \(PAD\)](#) in 1997. PIP currently comprises two sub-programmes:- the active Petroleum Exploration and Production Promotion and Support (PEPPS) and the now completed PIP (1997 - 2002) sub-programmes.



The overall aim of PIP is to promote hydrocarbon exploration and development activities by:

- Strengthening of local support structures
- Funding of research data gathering and 'land-based' research in Irish offshore areas
- Providing a forum for co-operation amongst explorationists and researchers

Research under the Programme goes beyond normal licence area-specific work and is designed so as not to duplicate the efforts of other groups or of commercial contractors. It is also considered essential that local researchers should be given an opportunity to participate in the research projects. PIP is funded by oil companies with licences offshore Ireland and the PAD.

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Dr. Robert W. Howarth

“From the standpoint of climate change, imported LNG is a very poor fuel choice” - Testimony of Robert W. Howarth, Ph.D. Cornell University, Ithaca, NY 14853 USA before the Joint Committee on Climate Action House of Oireachtas, Ireland 9 October 2019

“Petroleum Geology has no future” – Statement of Professor John Sweeney, NUI Maynooth, Review Editor and Contributing Author to the 4th Assessment Report of the IPCC, at the Institute of Geologists of Ireland Conference, Athlone Ireland 11th October 2019



Professor John Sweeney

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“Recovery of newly discovered gas reserves may lead to improved energy security, lower energy costs and facilitate reduction in greenhouse gas emissions during the transition to a low carbon economy”, Professor John Fitzgerald Chair of the Climate Change Advisory Council in a letter to Minister Bruton on 20th September 2019



“The recovery of natural gas reserves should be contingent on the associated deployment of decarbonisation technologies”



The high level of production from the Corrib gas field is expected to taper off significantly in the next couple of years (GNI 2018)

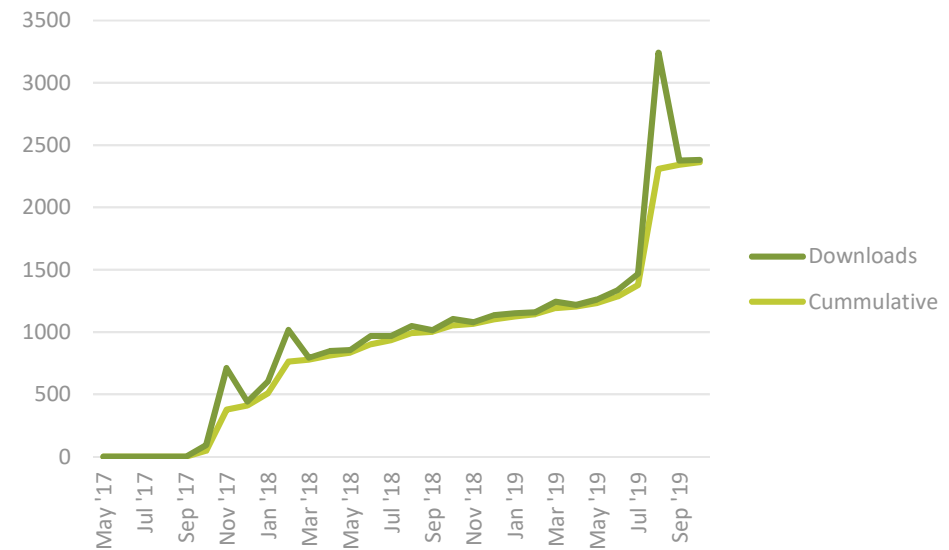
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Impact of Current ISPSG Research

- Deeper understanding of Petroleum Systems in Irish basins
- Further de-risking of prospectivity with improved imaging



Downloads of ISPSG Project Reports from PIP website – most popular is the geochemistry atlas and associated databases

THE IRISH SHELF PETROLEUM STUDIES GROUP (ISPSG)



Data, Technology & Understanding of Earth Systems

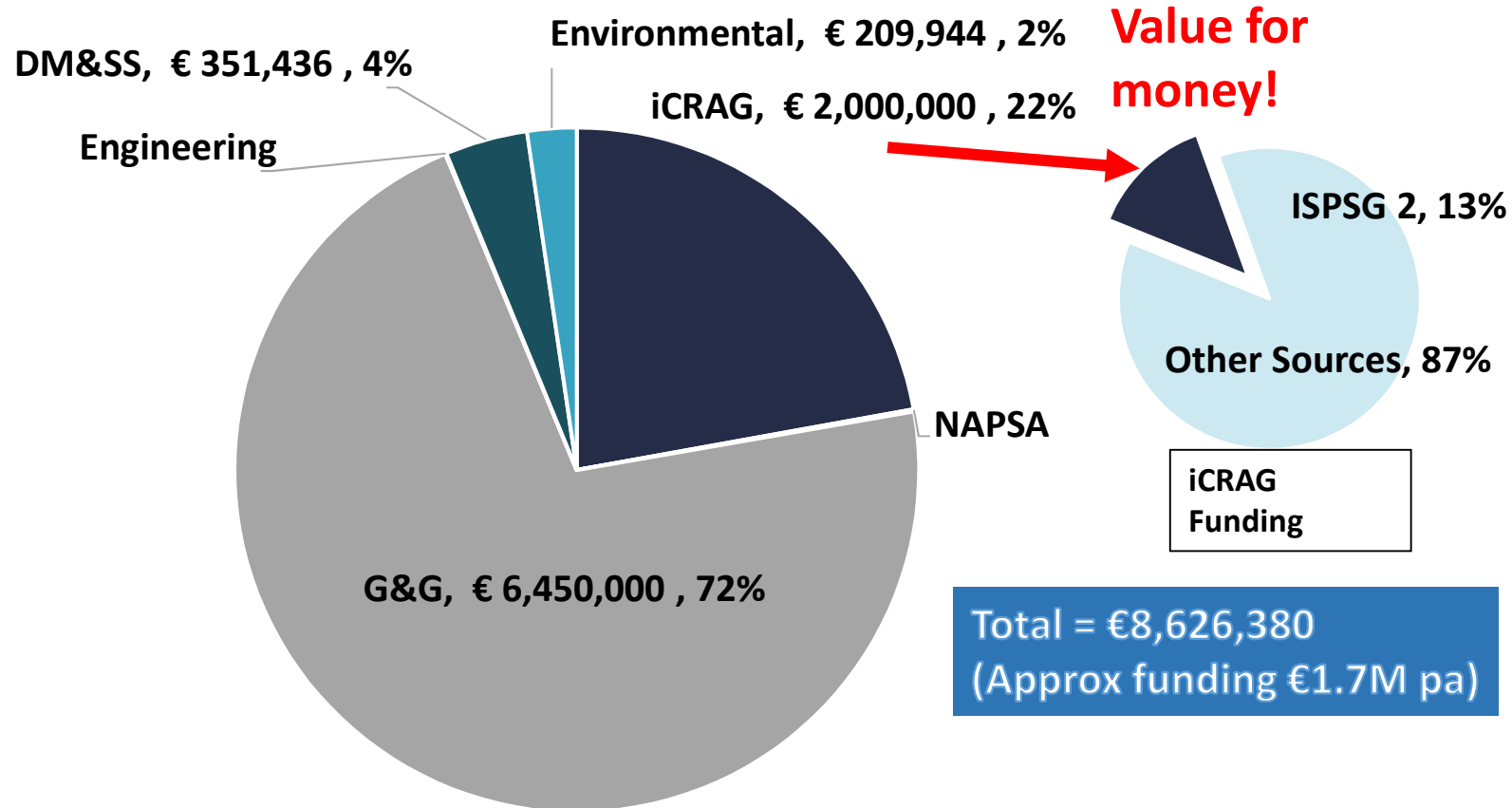
Possible Scientific Challenges for Future ISPSG Research

- Timing of source rock, charge, trapping
- Sharing & access to data
- Gas prone basins, plays
- Decarbonisation technologies

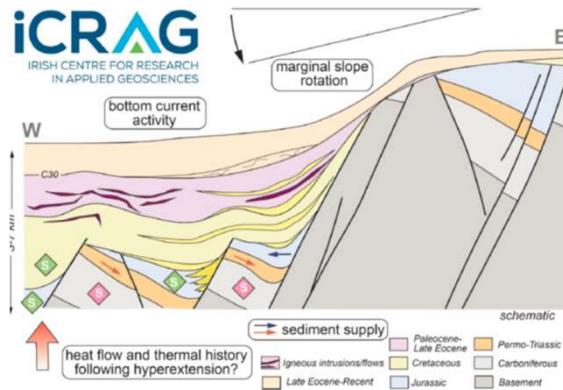
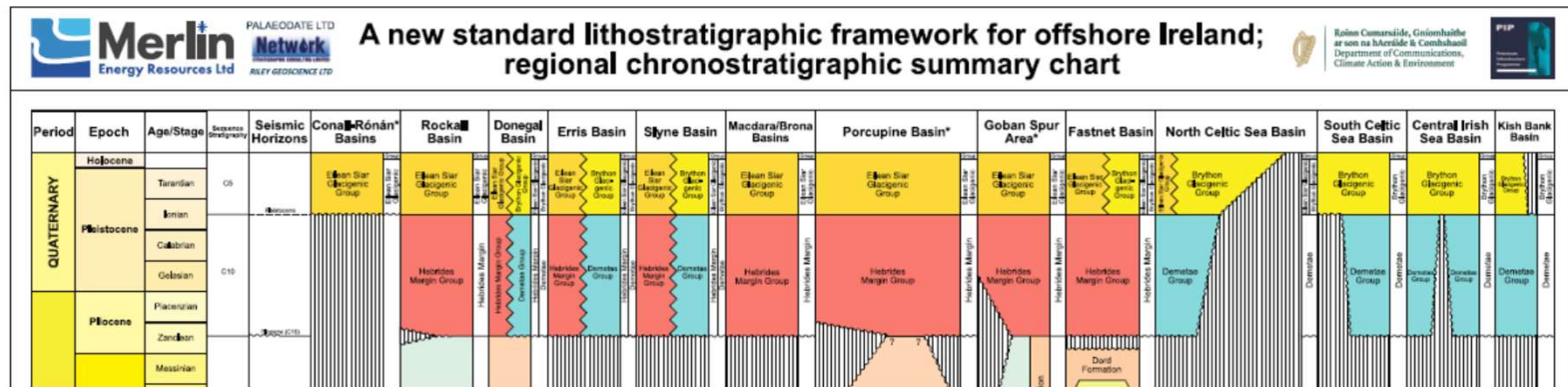


“The recovery of natural gas reserves should be contingent on the associated deployment of decarbonisation technologies”

ISPSG Research Strategy & Funding (2015 to 2019)

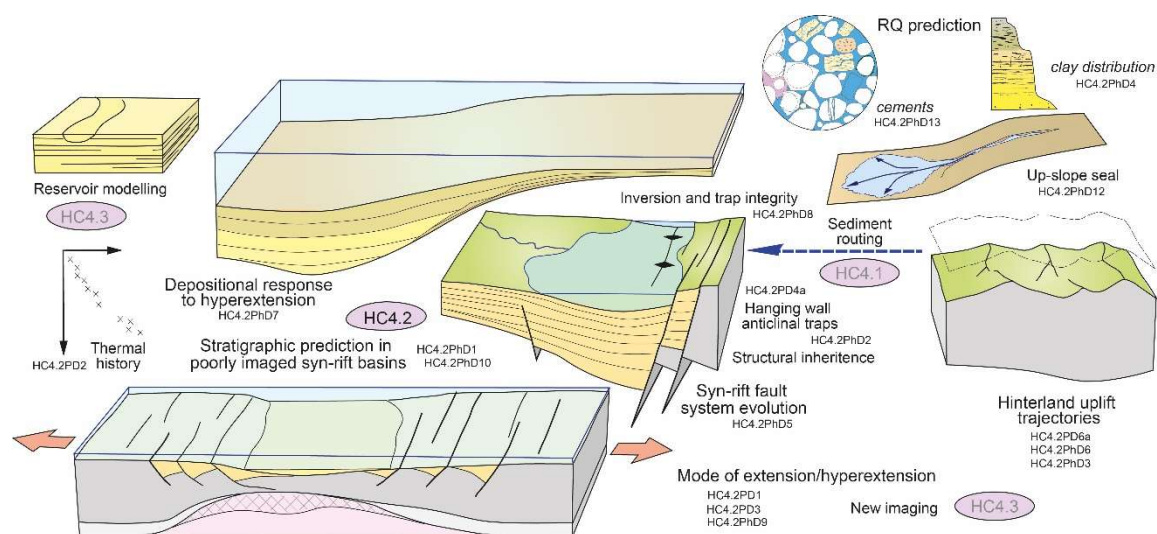


Thorough & Balanced Instrumental Research



- improves our understanding of the petroleum systems offshore Ireland and
- the marine environment in which we operate.

Posters that illustrate the ongoing research funded by the ISPSG

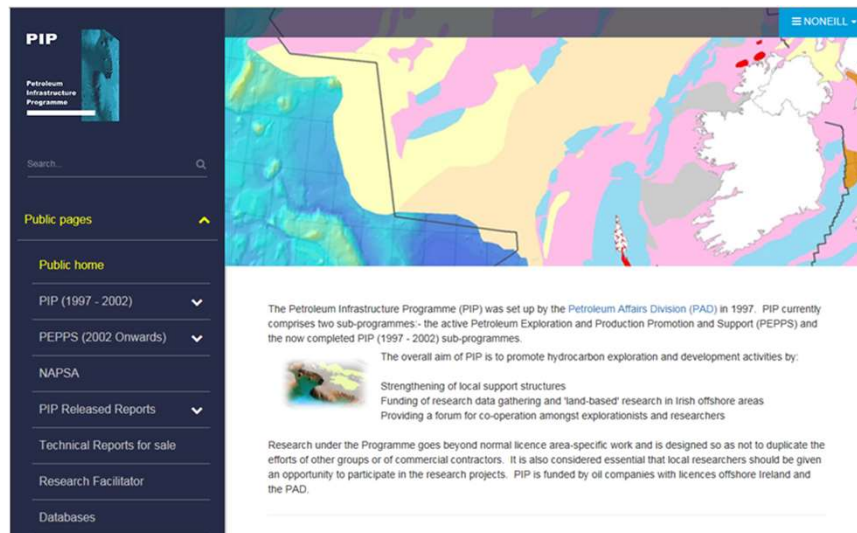


Ideas, concepts and new methodologies

Technical Committees



➔ Concrete Proposals for research focussed on common industry issues



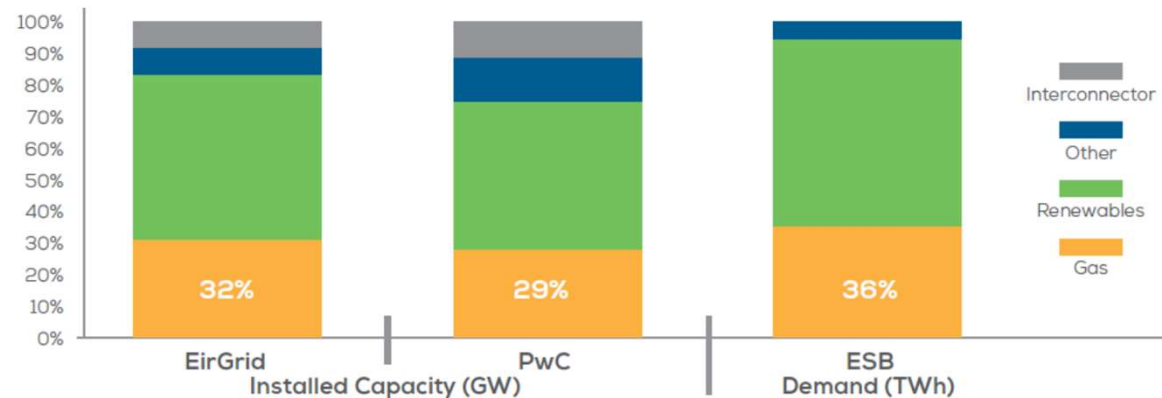
- Geology & Geophysics
- Environment
- Engineering
- Data Management & Support Services

- *Multiphysics integration into seismic depth models for long offset regional seismic data set*
- *Deep Structure of Porcupine Ridge and Rockall Plateau Margins*
- *Full Waveform Inversion of long offset regional seismic data set*

Irish Shelf Petroleum Studies Group – Next Step



Develop new strategic scientific research goals and associated priority actions in response to new challenges



Forecasts for Irish electricity generation by energy sources (%) 2030

"You must unite behind the science." - Greta Thunberg to the US Congress, Washington DC, 17 September 2019

MARTIN J. DAVIES



1965 – 1969: Trinity College, University of Dublin
BA in Geology (Upper Second).

1969 – 1987: Petroleum Geologist - British Petroleum Company Ltd - Exploration and Development Geology in Libya, Abu Dhabi, Singapore, Thailand, Indonesia, Ireland and UK.

1987 – 1990: Contract Staff Development Geologist - Zueitina Oil Company, Libya.

1990 – 1997: Consultant Geologist and Project Manager - Ireland, UK and Indonesia.

1997 – Present: Petroleum Geologist & Project Manager with the Irish Petroleum Infrastructure Programme.