



Ternan

Ternan Ltd is a wholly owned subsidiary of Senergy. It was formed in 2003 and specialises in regional geological studies. Based on the play fairway approach, the studies are designed for evaluation and screening of exploration opportunities.

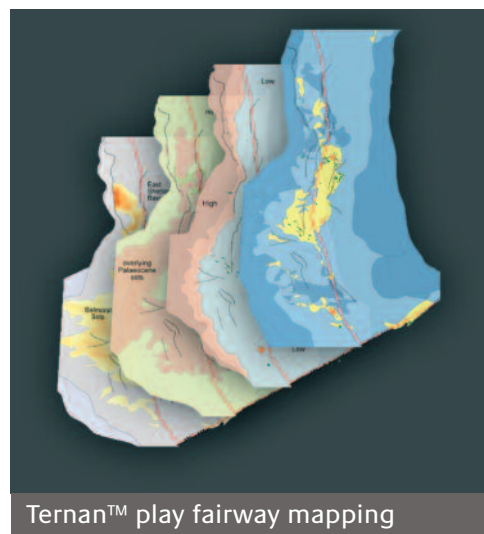
Our report authors have considerable exploration experience in the Northeast Atlantic and other areas worldwide, and have produced a suite of reports which are widely used within the industry.

To date, studies available extend over the northern North Sea basins, Norwegian Sea, and the Irish Rockall and Porcupine basins. We are currently working on the West of Britain, and this study is due for release in mid 2009. Future studies are planned for Arctic areas.

Play fairway mapping combines the distribution of reservoir, hydrocarbon charge and topseal, to provide a regional view of geological prospectivity. This can be used for rapid assessment of acreage in mature or frontier areas.

Play fairway mapping

Play fairway mapping has been used successfully to evaluate the remaining hydrocarbon potential of basins in the Northwest Europe offshore region. It provides a consistent view of their potential and helps companies to develop exploration portfolios that balance risk, prospect size and acreage availability.



Ternan™ play fairway mapping

It is the combination of regional and local geological parameters that controls the location of a hydrocarbon accumulation. Primary regional parameters, which can be mapped throughout a basin, are reservoir, topseal and hydrocarbon charge. Local parameters that affect prospectivity are trapping and the presence or effectiveness of topseal and reservoir. The play fairway approach relies on mapping individual plays at regional rather than local scale.

The potential of any play can be evaluated from its fairway map, derived by overlaying the distributions of regional parameters for that play. The area of maximum prospectivity (or 'play fairway') is outlined and risks can be estimated.



For the play fairway itself, the risk is low or non-existent, but it increases outside the fairway if one or more regional parameters is unfavourable. The degree of confidence which can be felt about this regional risk is related to lack of data, poor database quality and an uncertain geological model. It varies significantly for mature, immature and frontier basins, and between plays within the same basin, so it's essential that it is assessed in a consistent way to make useful objective comparisons between different types of play and basin.

Play fairway mapping allows exploration effort to be focused play by play in the most prospective areas of a basin. In the North Sea it is an excellent tool for screening and ranking acreage. By assessing the prospectivity of individual blocks, a significant amount of exploration risk is removed. In immature and frontier basins, it helps to qualify risk associated with reservoir and hydrocarbon charge.

GIS

Many companies are now gathering their exploration data together in a GIS database. All the Ternan reports are now available in this format, improving the exploration workflow by offering the ability to view, for instance, the play fairway or reservoir distribution in combination with seismic coverage over areas of interest.

Products

North Sea reports

- UK Central North Sea
- UK Northern North Sea
- Norwegian North Sea

Atlantic margin reports

Norwegian Sea

- haltenbanken and frontier basins
- comprehensive analysis of geological plays

Atlantic Ireland

- rockall and porcupine basins
- PAD special publication 3/06 (www.pad.ie)

UK Atlantic margin

- release due in 2009

