

1997	TOTAL	Brazil	Assisting TOTAL in the conceptual design and CAPEX evaluation of Brazil deepwater field development opportunities (i.e. 1,100-1,600 m).
1997	FSH / CEP&M R&D	France	With Doris Engineering installation engineering of a "low cost" subsea production cluster concept for deepwater development
1997-1998	ELF EXPLORATION ANGOLA	Girassol (Angola)	Assisting EEA in the umbilicals and flowlines design competition and basic engineering of Block 17 Girassol field development.
1998	TOTAL	General	Deepwater subsea technology challenges and cost trend evaluation
1998-1999	TOTAL	West of Africa Gulf of Mexico Brazil North Sea	Deepwater reference books : <ul style="list-style-type: none"> - Tie-in methods - Sealine systems - Riser systems - Umbilical technology - Deepwater ROV and tools - Deepwater installation vessels
2000-2001	TOTAL ASTRID MARIN GROUP / DORIS ENGINEERING	Congo (West Africa)	Ultra deepwater (3,000m), field architectures, riser systems, technology gaps and installation feasibility study.
2001	TOTAL FINA ELF (TFE)	Dalia (Angola)	Assisting TFE in the umbilicals and flowlines design competition of Block 17 Dalia field development.
2002	BP / Technip France	Greater Plutonio / Block 18 (Angola)	As part of a design competition performed for BP, flowlines field lay-out and new riser concept (HySR™) for field achitecture optimisation.
2004	TOTAL	Usan (Nigeria)	Pre-project phase, field architecture, definition of subsea production system, flowlines (including towed bundles) and risers. Preparation of scope of work for basic engineering phase.
2005	TOTAL	Upper Miocene Area (Angola)	Pre-project phase. Drill centre architecture, template versus cluster study, preliminary design of foundations, spools and jumpers.