

# Risk Based Maintenance System development: RBM-UP

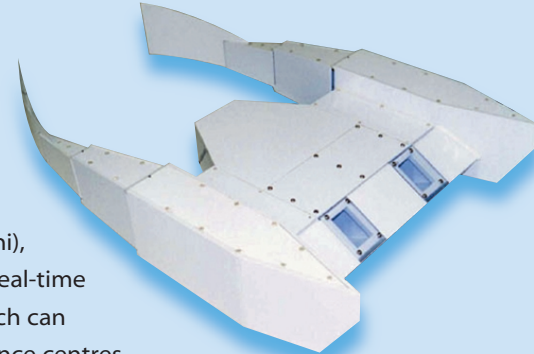
Lifetime maintenance has become very important for offshore oil production platforms and their facilities because of their long-term operation. Great cost benefits can be gained if companies are able to determine when and how, maintenance has to be carried out.

The Joint Industry Project RBM-UP, is an initiative of Mitsubishi Heavy Industries, Oxford Technologies, Safetec and MARIN. This project aims to develop an advanced, risk based maintenance system for offshore oil production platforms. Starting in 2003 to be completed in 2005, the project will include an automated inspection system to minimise lifetime costs.

The system is designed to produce an optimal maintenance schedule with precision, timeliness and minimal labour costs.

RBM-UP consists of: (1) a new underwater vehicle (AUV) for inspection of offshore oil production platforms (Mitsubishi), (2) a high-precision, automatic real-time monitoring camera system, which can communicate data to maintenance centres (Oxford Technologies), (3) risk based maintenance analysis software (Mitsubishi and Safetec) and (4) Experimental tests (MARIN).

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Model of the new Autonomie Underwater Vehicle (AUV).