



**Orizzonte Sistemi Navali**

Una Società di Fincantieri e Finmeccanica

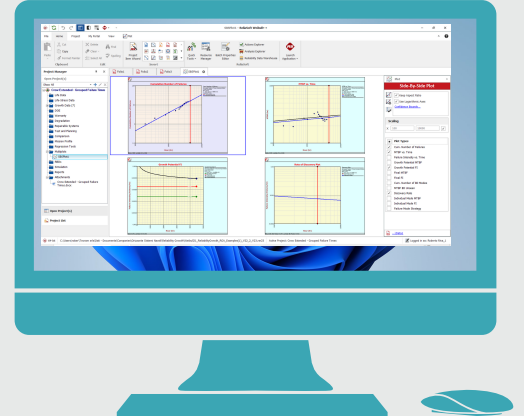
## Repairable system analysis, reliability growth analysis & phase diagram study

Tecram Srls was selected to provide a wide ranging reliability consultancy package to support Orizzonte Sistemi Navali's activities in the field of reliability engineering.

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### Repairable System Analysis

Client requested on demand support, analysis and teaching capability in the field of repairable system analysis via Event Log methodology, Recurrent Data Analysis (RDA/GRP model) and NHPP minimal repair criteria to be delivered remotely.



2

### Reliability Growth Analysis

On criteria set by the Client, Tecram's engineers developed training material covering Duane, Crow-AMSAA, and Crow Extended models configured for different types of data and hypothesis. Reliability growth test design with multi-phase reliability growth (Crow-Extended Continuous Evaluation model) completed the advanced training course.

3

### Reliability Phase Diagram

The final element of the consultancy package involved the feasibility study of a navigation profile of a frigate. Different propulsion arrangements were configured and linked in a phase diagram. An extensive programme of testing was set up to simulate the behaviour of the frigate under different scenarios and verify the logic built into the RBD model. Mean Availability and many other metrics were derived in order to evaluate the feasibility of **BlockSim 2023**.



### Deliverables

A reliability growth analysis training course was delivered to OSN engineers with additional support as requested to correctly implement the theory taught. A report was compiled to highlight the feasibility of **BlockSim 2023** to analyse a complex multi-phase navigation scenarios with with some repairs configured during navigation and some in port.

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Tecram Srls - Piazzale San Giovanni 3, 60010 Ostra AN, Italy

Tel.: 0039 071 7980221

General enquiry: [info@reliability.it](mailto:info@reliability.it)