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| Project title | ICON SafeLife – Lifetime prediction and management of fatigue loaded welded steel structures based on structural health monitoring |
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| Duration | 01-04-2018 → 01-04-2021 |
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Abstract

The Intercluster project SafeLife joins the expertise of SIM-Flanders with the Offshore community in the IBN Offshore energy. The project SafeLife targets Lifetime prediction and management of fatigue loaded welded steel structures based on structural health monitoring.

The goal of this ICON project is to develop new and robust structural health monitoring procedures and numerical tools based on load and condition monitoring that enable the more accurate lifetime prediction of fleets of quasi identical welded steel structures, such as railway bridges, crane-way girders and jacket offshore platforms. The lifetime assessment is essential towards decision support for quantification of lifetime extension and optimization of predictive maintenance by the industrial partners. This will in the end lead to a substantial reduction of operation and maintenance costs for players in different sectors.

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| Project Coordinator | Arcelor Mittal / OCAS |
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- Involved research partners
- Arcelor Mittal / OCAS
 - Infrabel
 - C-Power
 - 24SEA
 - Sensafos

Involved Industrial partners

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| | <ul style="list-style-type: none"> • UGent / Laboratorium Soete • VUB / AVRГ |
| Total budget | € 2 013 196 |
| Type of funding | Intercluster ICON (SIM & IBN Offshore Energy) |
| Financing body | Vlaio |
| External website link | / |