How this changes the world

Normal Operativity
Behaviour Based Safety
BBS ICT Tool

Search & Rescue
ICT Integrated System

Fire and Evacuation
Management
Indoor Positioning System

Evacuation in significant incline condition
Innovation Launch and Recovery System for Lifeboat

SAFER SHIPS

Safer Ships
Increase the efficiency
Preserve the Environment

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Trans-European Transport Network (TEN-T)
Midterm Findings & results

- **BBS is ready for Maritime application** (pilot applications are ongoing)
- The SAR system is in testing phase
- Indoor positioning system is installed on Ruby Princess
- Lifeboats launch system designed and simulated

**Cost Benefit Analysis**

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Sub Act 3.1- Health Safety Quality Environment

Aim:
- To assess the BBS approach to the maritime sector to improve operational safety by reducing unsafe behaviors.
- BBS methodology and related ICT tools will be adapted and tested through suitable prototype to address maritime characteristics.

Methods used
- Customize for maritime applications other sector’s ashore mature technologies by adapting BBS methodology and ICT system;
- Test the adapted BBS tools;
- Calibrate the BBS tools on the basis of the results;
- Assess with IMO as well as National requirements/constraints.

ICT tool for describing, recording & analyzing events

Include ILO’s Maritime Labour Convention & Italian DLGS 271
Sub Act 3.1 - Health Safety
Quality Environment

Pilot applications:
• Trasmediterranea – Acciona
• Balearia
• Costa Crociere – Injuries Analysis
Sub Act 3.2 - ICT tool for Search and Rescue
Sub Act 3.2 - ICT tool for Search and Rescue
Sub Act 3.3 - NETWORKED VESSEL (Indoor Positioning System)
Sub Act 3.3 - NETWORKED VESSEL
(Indoor Positioning System)

SRTP Pilot application – Ruby Princess:
• In December the installation will be completed (50% already done)
• In 2015 the system will integrated in the safety management system
Sub Act 3.4 – SES
(Safe Evacuation System)

Without Monalisa

With Monalisa

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How this changes the world

- BBS -> safer
- But, in any case ....
- S&R is more efficient
- Safer
- We can evacuate the ships also with significant incline
- We know: where people are ...
- More efficient
- We know: how many people ...
- Benefits for Environment

Barcelona Midterm Conference
4-5 November

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Safer Ships

This activity, lead by the Italian Ministry of Infrastructure and Transport (MIT) focuses on how to increase maritime safety in a variety of different ways by implementing services, based on available technology. Focus is on providing services to large passenger vessels but without modifying existing rules and regulations.