



MARSSA

2nd WoSS: Cloud Computing & Applications based on Software Services

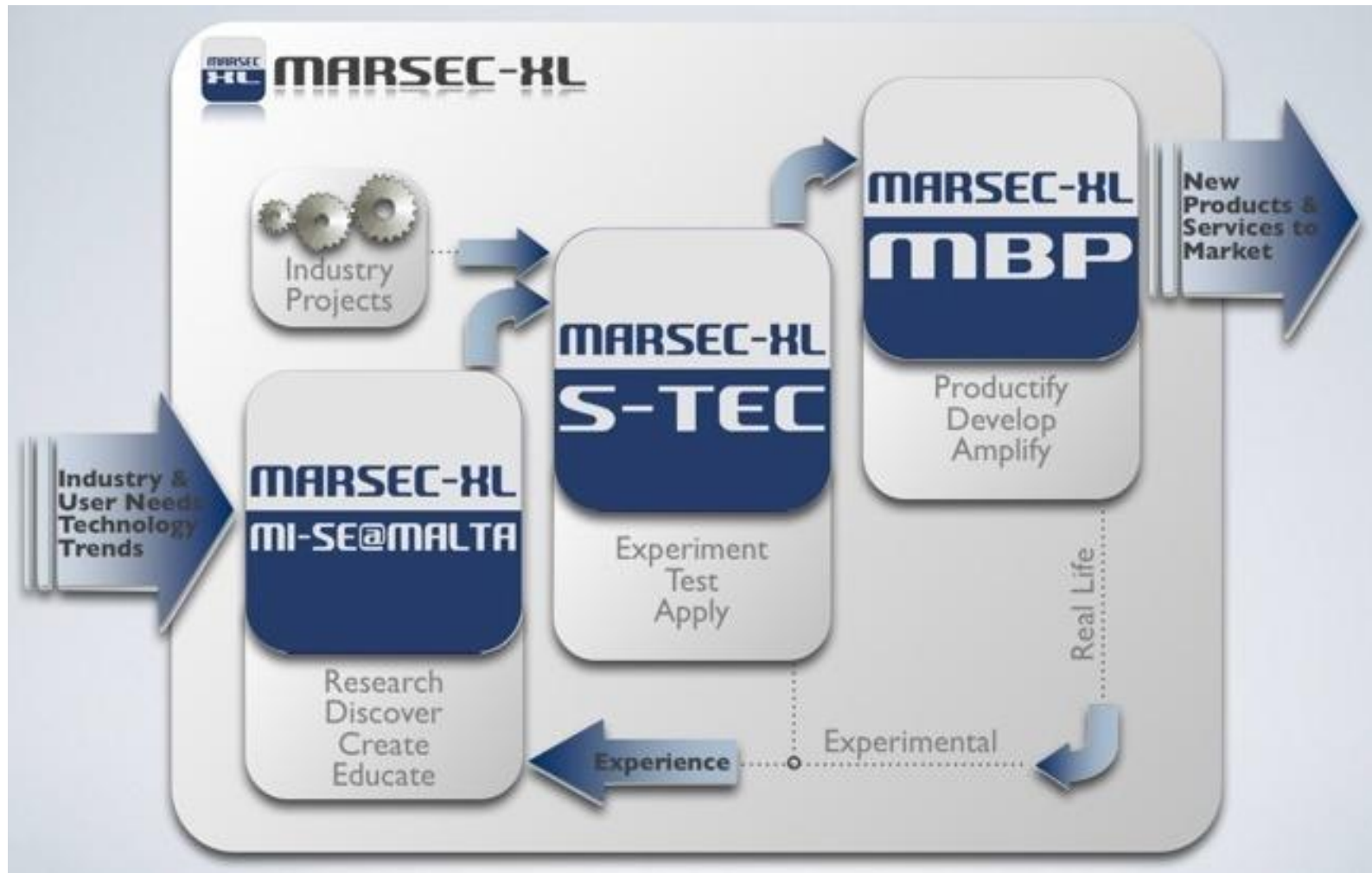
Session 14
8th June 2011

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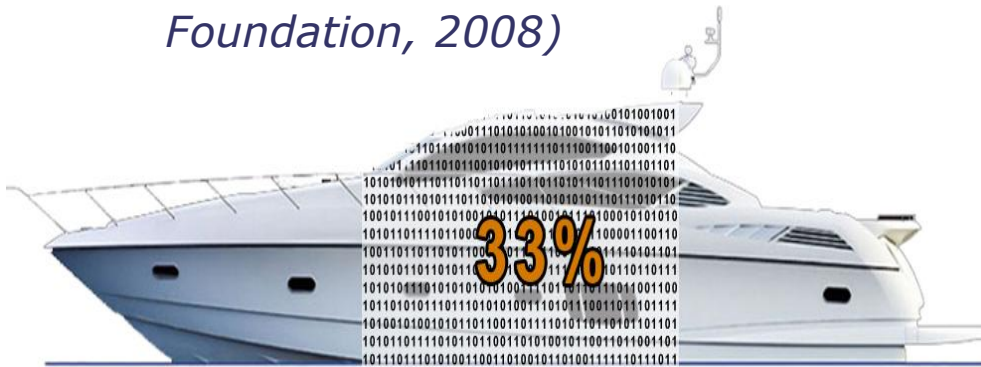
MARSEC-XL

■ MARine Software Engineering Cluster of Excellence



Marine Industry

- vessels contain **sophisticated, software-determined** devices
 - average **32-metre yacht** → **5M LOC**
 - predicted to increase **ten-fold** by **2015** (LOC/FT Study, MARSEC-XL Foundation, 2008)



- highly **fragmented**
- **proprietary** networks
- **low quality**
- **low** redundancy
- **limited** innovation & competitiveness

MARSSA

- **MARine Systems Software Architecture**
- **open platform** serving as base for development of **standards & architecture** for:
 - seamless **interoperability**
 - **integration**
 - **compatibility**
- of **all software-dependent devices & systems** on **all types of vessels**
- simulate **competitiveness & innovation**
- higher **quality & user satisfaction**
- enhanced **redundancy**
- reduced TCO



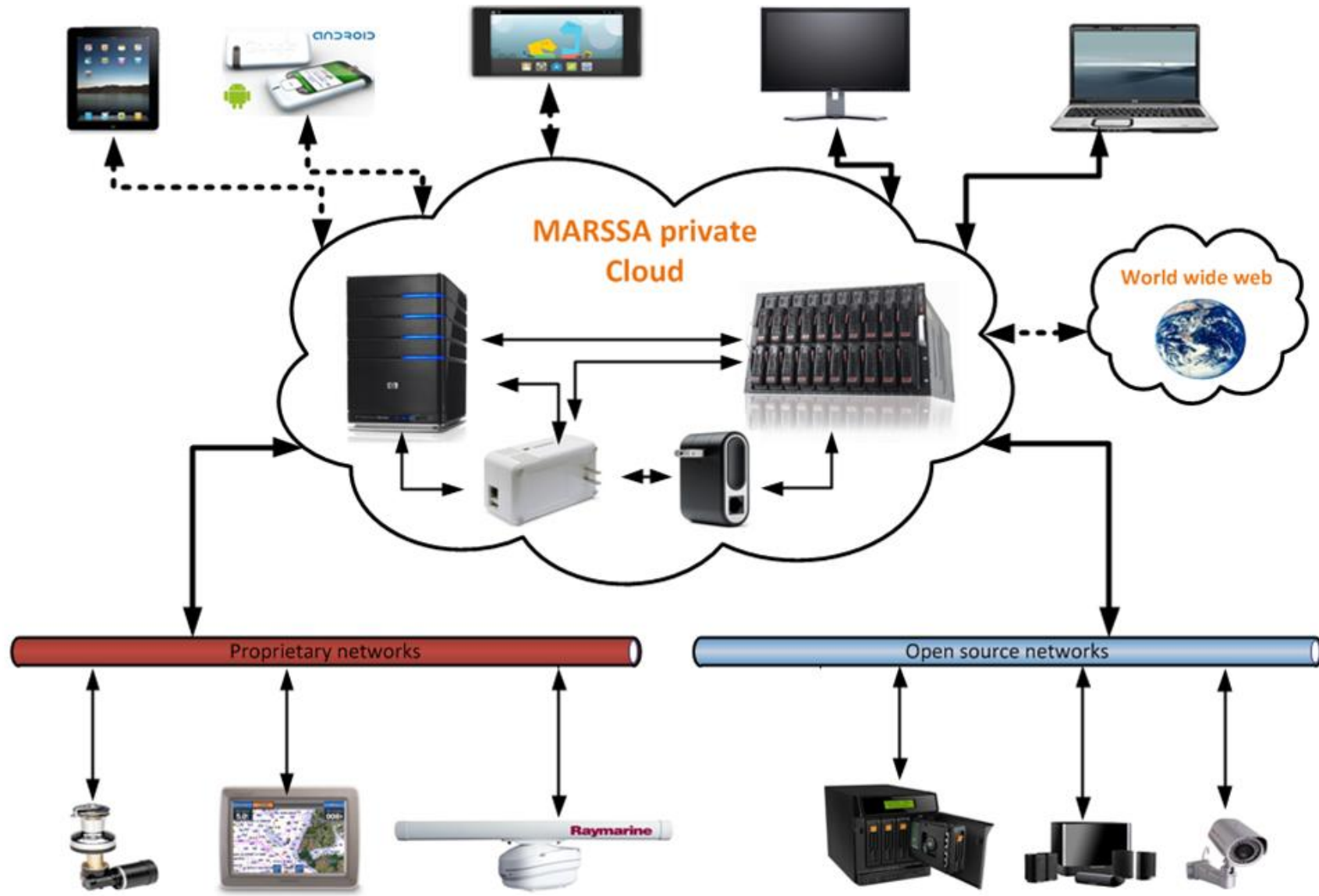
Remote Reduced cost Green Open-source Portable Cheaper
MARSSA MARine Software Systems Architecture
Cloud computing Dynamic Flexible Faster Stability High redundancy
COTS New Integration Expansion cheap Creative
Intelligence High security Interoperability Community driven App's Modern

Technical Implementation

- proven methodologies, standards, architectures & operating systems
- **Cloud Computing**, promoting:
 - *efficient use of resources*
 - *inherent redundancy*



High-level Physical Hardware View



Project Implementation

- open source
- open innovation
- global community-based approach

www.marssa.org



Welcome to the MARSSA community website!

Register and start collaborating on the [MARSSA-Wiki](#) or post on our [FORUM](#)



The MARSSA™ Community is a dynamic and active community made up of people around the world who collectively contribute to the MARSSA open source project.

- **Open source project contributors:** Captains, technology gurus, university students.
- **Application developers:** Development of new innovative applications.
- **Yacht owners & vessels:** people who run MARSSA on their yachts and provide feedback
- **OEM's:** companies creating products based on MARSSA
- **Other contributors:** Promoting MARSSA, moderation and documentation.

First such initiative in the marine industry!



Apps running on MARSSA

- **REAL PRoMISe** – REAL-time Portable Reconfigurable pOwer Management Interoperable SystEm
- **MARLON** – MARine LOfging Notebook
- **idockiT** – Intelligent Docking Assistant

*National Research & Innovation Programme
2011 winners!*



*... no limit
on apps!*



IOOS 2011

- Isle of Open Source 2011
- 17-23rd October
- Malta



- open source
- cloud computing
- yachting

See you there!

www.isleofopensource.com

Thank you

MARSEC-XL Foundation



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