


INSPIRe Workstream Structure

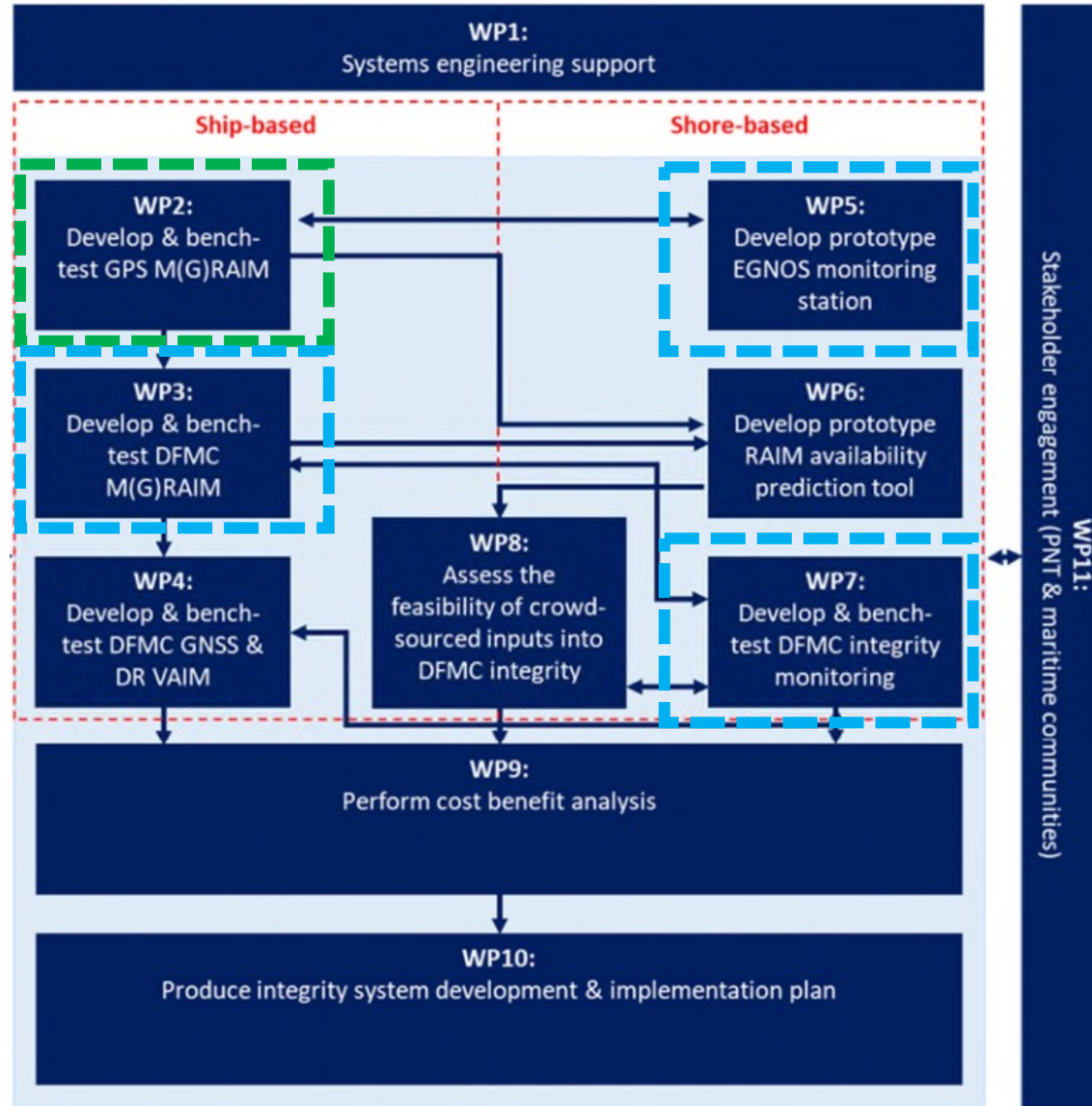
Kieran Bjergstrom

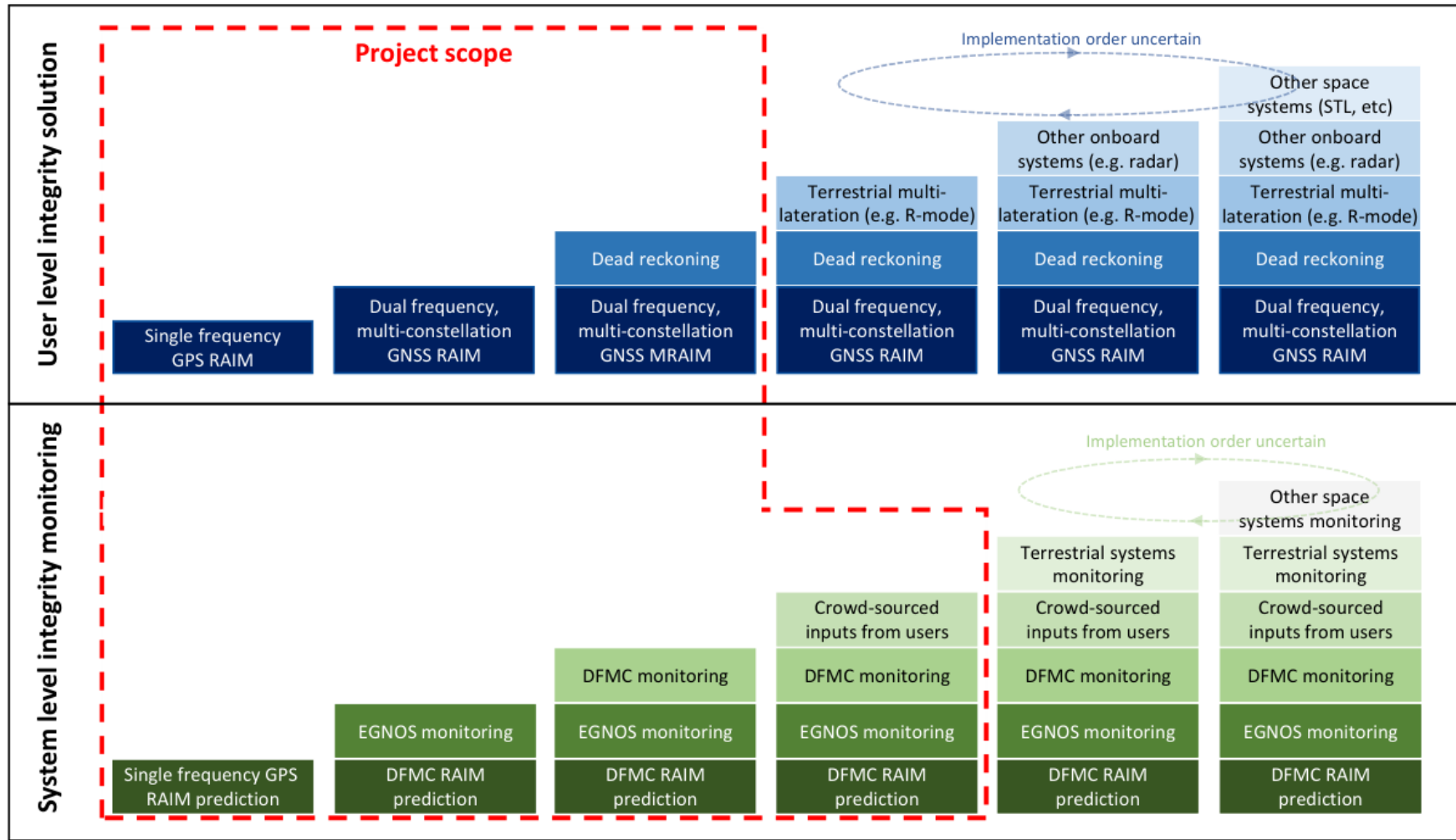
27 February 2023

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INSPIRe's objectives

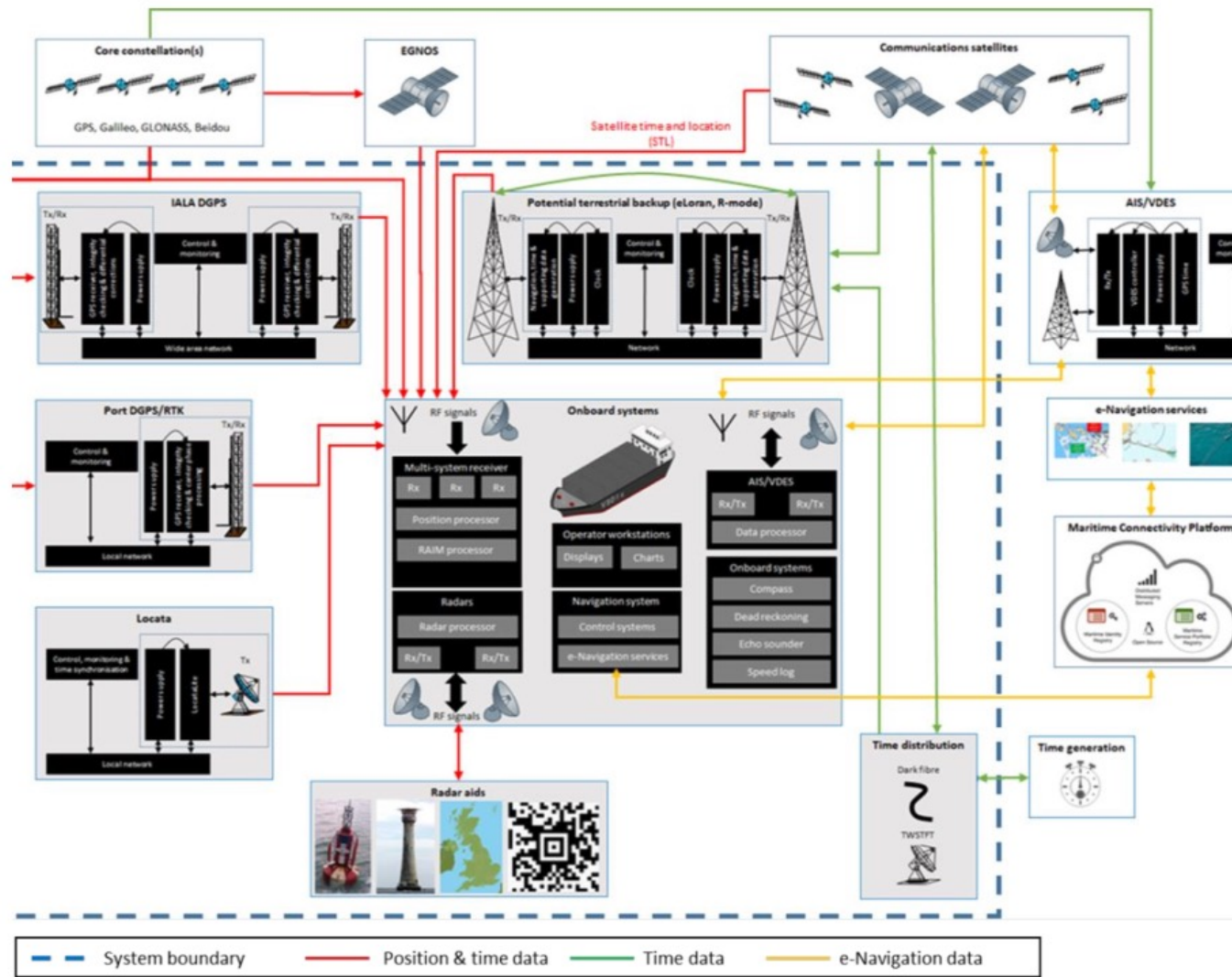
1. Understand the state of integrity requirements, standards, and policy for Maritime – improve and mature.
2. Translate the state-of-the-art in integrity monitoring to the maritime domain, test its applicability, adapt and implement.
3. Develop relevant, novel, integrity solutions for maritime; domain specific needs, emerging solutions, wicked problems.
4. Link this to PNT systems-of-systems thinking and end-user needs, towards impactful and valuable improvements to PNT resilience and performance.





Five stages of the MarRINav Outline Development Plan

1. **Planning:** confirmation of objectives, elaboration of a detailed plan, specification of requirements and location assessment for the test-bed demonstrator.
2. **Design and Development:** maturation of technologies within the system-of-systems solution, and modular design of the systems-of-systems following systems engineering principles.
3. **Software Test-Bed:** models of technologies and prediction of hybrid service coverage areas to support physical demonstration and validation from real-world results.
4. **Physical Test-Bed:** implementation of bare-bones demonstrator for proof-of-concept of the hybrid PNT solution.
5. **Demonstration:** tests and trials at sea and in ports, with ships carrying prototype receivers and operating in a variety of maritime signal reception conditions.



Potential INSPIRe Use Cases

