

# GEARS

## Galileo Authenticated Robust timing System

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# WHY A NEW TIMING RECEIVER

- Providing a Galileo-based timing receiver for Critical Infrastructures (CI) and targeted markets :
  - Telecom
  - Energy
  - Finance
- Subsidised by the European GSA (Fundamental Element Program) GSA/GRANT/05/2017-02
- Development and validation of prototypes to be developed and validated
- Orolia will industrialise and market the product by 2021

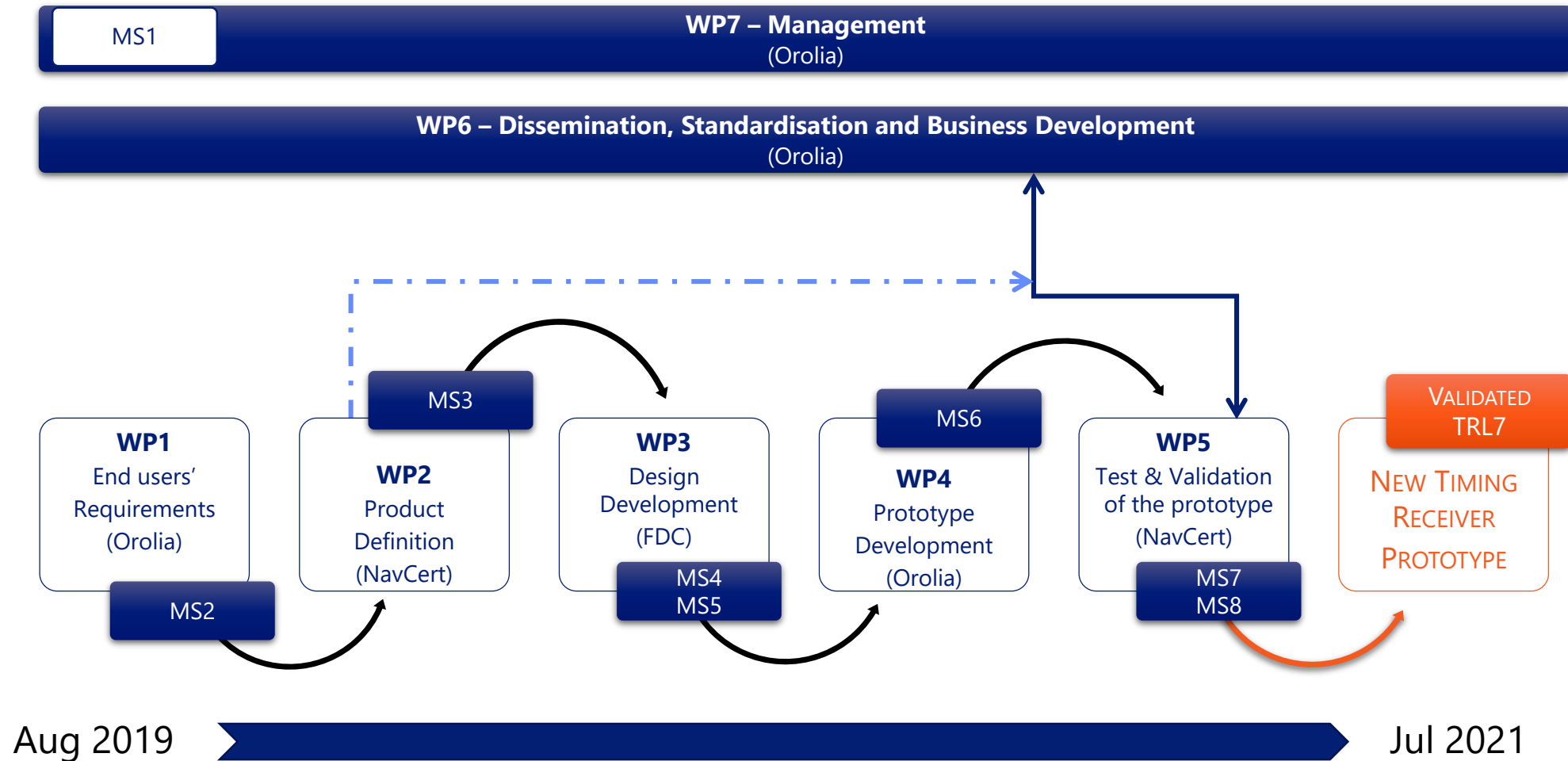


# GEARS OBJECTIVES

- OBJ#1 Improving performances and resilience of Galileo and GNSS Timing receiver
- OBJ# 2 Develop and demonstrate the effectiveness of unique Galileo services to operators
- OBJ# 3 Strengthen market adoption through Standardisation activities



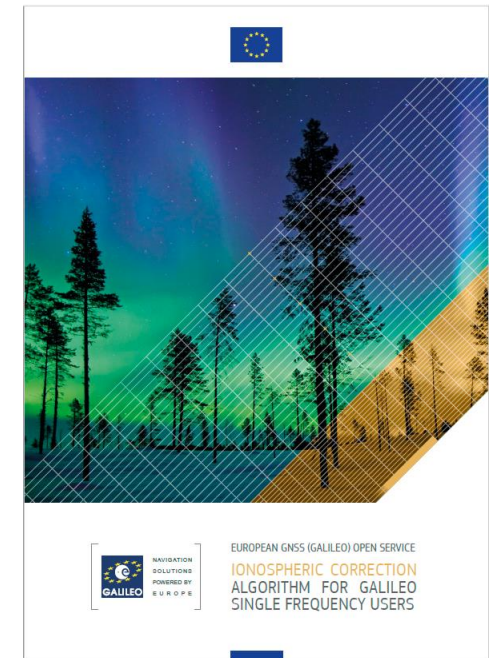
# GEARS WORKPLAN



# GEARS MAIN TECHNICAL OBJECTIVES

Improving performances and resilience of Galileo and GNSS Timing receiver through:

- Development of an OS-NMA (E1/E5/E6) capable Galileo Receiver
- Implementation of new Galileo NeQuick-G algorithm for Iono compensation
- Development of new generation T-RAIM, anti-spoofing and other IDM algorithms
- Development of a « commercial-class » 4-elements CRPA





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