

The logo for ERNEO features the company name in a bold, stylized, sans-serif font. The letters are dark grey with a slight 3D effect. The logo is centered and surrounded by decorative, light grey wavy lines that create a sense of motion and depth.

ERNEO

SOLUTIONS DE MOTORISATIONS ELECTRIQUES

Présentation Infos Days - HORIZON EUROPE - Projet ENLIGHTEN

PRESENTATION

- **ERNEO is a French company** specializing in the design and manufacture of electric motors, electric generators and magnetic systems
- A **Team** specialized in electrical machines (13 persons):
 - CEO - shareholder
 - CTO - shareholder
 - 3 Mechanical engineer
 - 1 Thermal engineer
 - 3 PhD Electrical engineer
 - 2 Draftsman
 - 2 Production operator
- **Services:**
 - R&D program under contract
 - Custom design
 - Manufacturing of prototypes and tests
 - Small series serial production => **new facilities in 2024 for this**
 - Test
- **Products:**
 - Customized design of electric motors, generators and magnetic systems
- **Markets:**
 - Aeronautics
 - Space
 - Defense
 - Railway
 - Energy



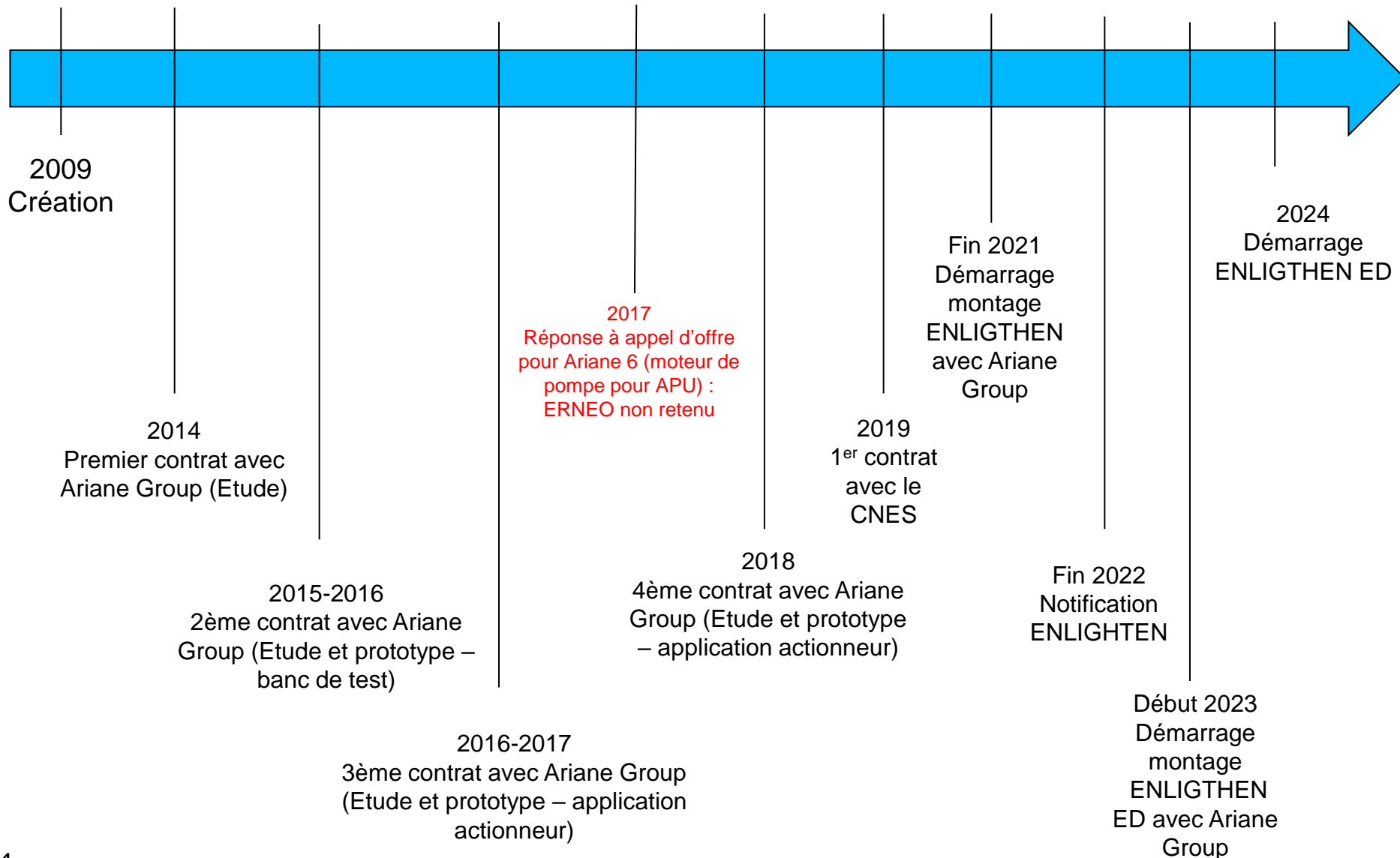
PRESENTATION

- The ERNEO company was founded in 2009
- Turnover 2022: 1.3 M€
- Office and workshop in south of France
- New facilities of 1150 m² in 2024



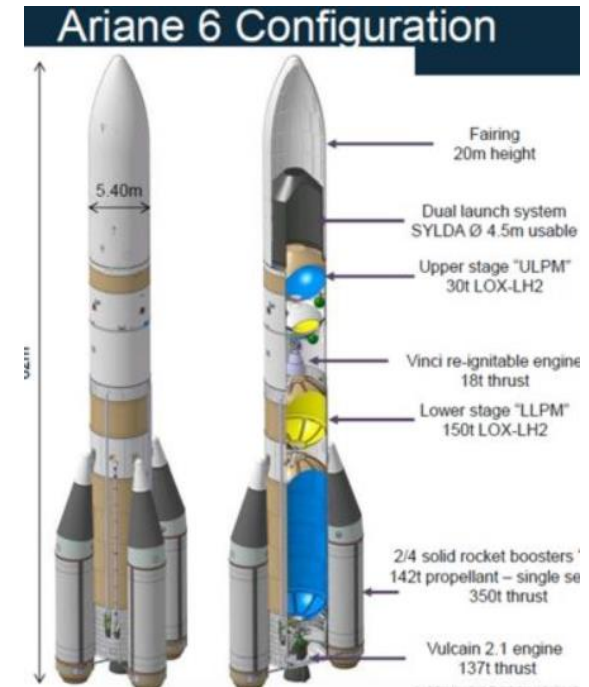
New Facilities in June 2024

ERNEO de la création jusqu'à aujourd'hui dans le domaine spatial



ENLIGHTEN : European iNitiative for Low cost, Innovative & Green High Thrust Engine

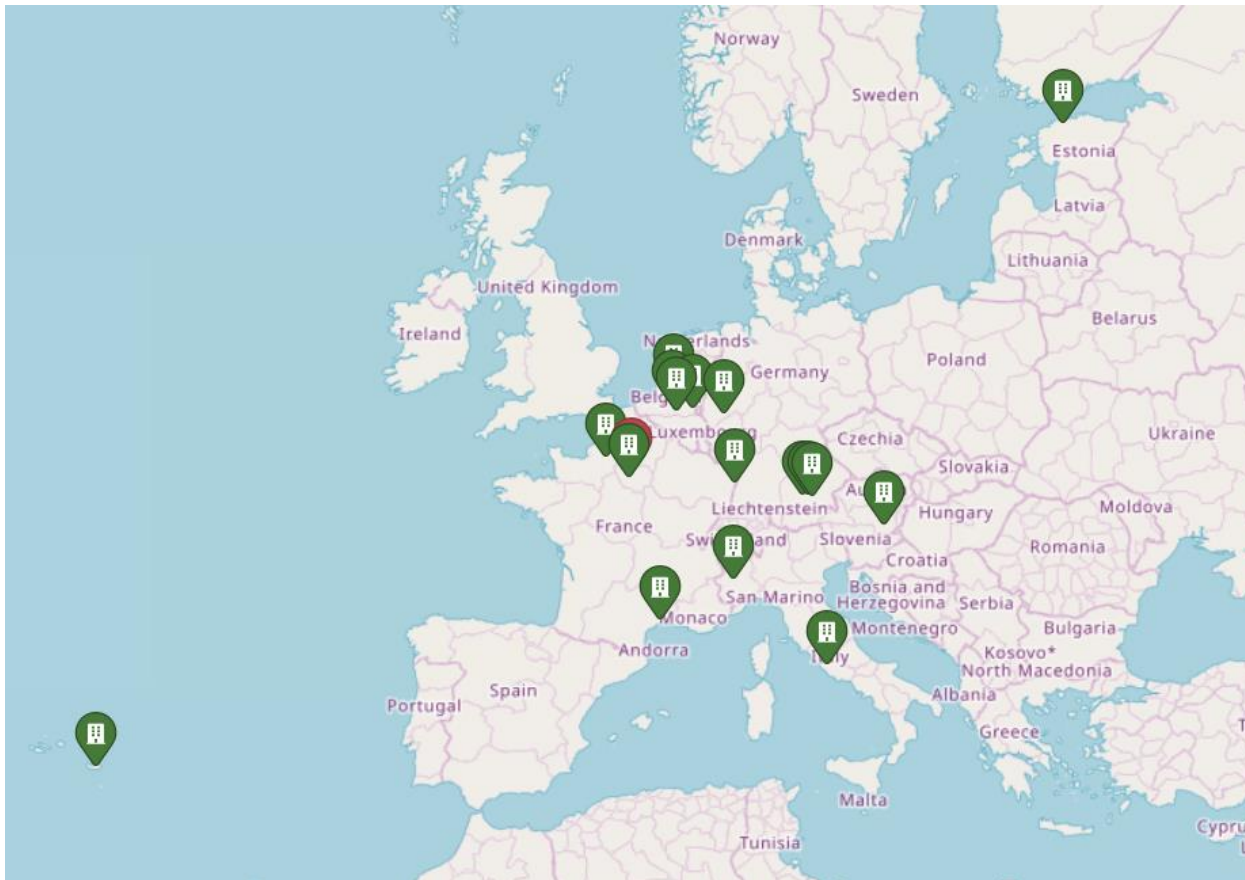
- TOPIC : Low cost high thrust propulsion for EU strategic space launchers
- OBJECTIVES: technologies maturation including ground tests
- PLAN :
 - Prepare next generation low-cost Hydrogen high thrust liquid propulsion with maximum synergy with existing initiative
 - Develop new technologies for equipment, production and data management during the period 2022-2024
 - Prepare a test bed definition to be tested in the period 2024-2025 for techno and system maturation up to TRL7



- MAIN PRINCIPAL FOR OFFER BUILDING :
 - Logic to be aligned with European vision of future launchers
 - The objective is to propose in Horizon Europe technological development and prepare system demonstration which complements ESA FLPP Programme
 - European team based on historical player but also:
 - SMEs offering new approach/technologies
 - Research centers including academics

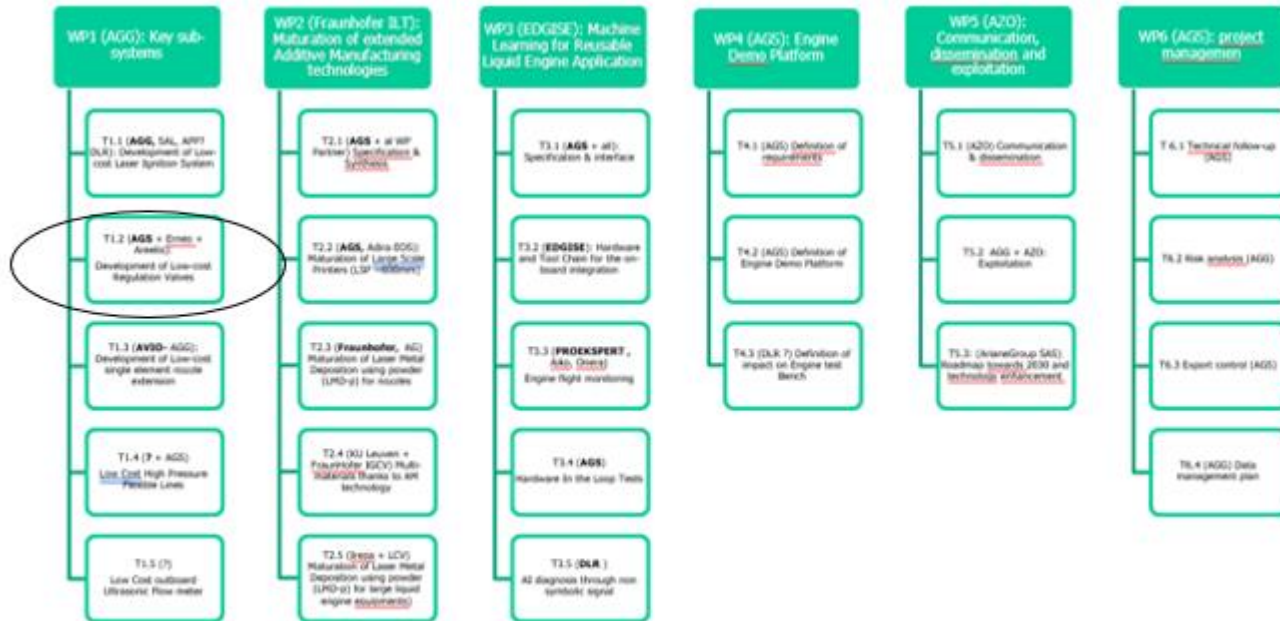
ENLIGHTEN

- 19 partners (AG leader)
- 17,5 M€ budget global
- <https://cordis.europa.eu/project/id/101082326/fr>



ENLIGHTEN

- Projet a été monté et est suivi avec le support d'un cabinet conseil
- 6 WP and 25 tasks => ERNEO impliqué dans une tâche pour le développement du moteur d'actionneur de vanne-chambre d'un moteur-fusée cryogénique
- Programme sur 2 ans et ½ (démarrage au 1er Janvier 2023) - Financement 100 % pour ERNEO



END OF PRESENTATION

ERNEO

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