

HECATE

NEW HIGH-VOLTAGE ELECTRIC POWER DISTRIBUTION TECHNOLOGIES for Regional Aircraft

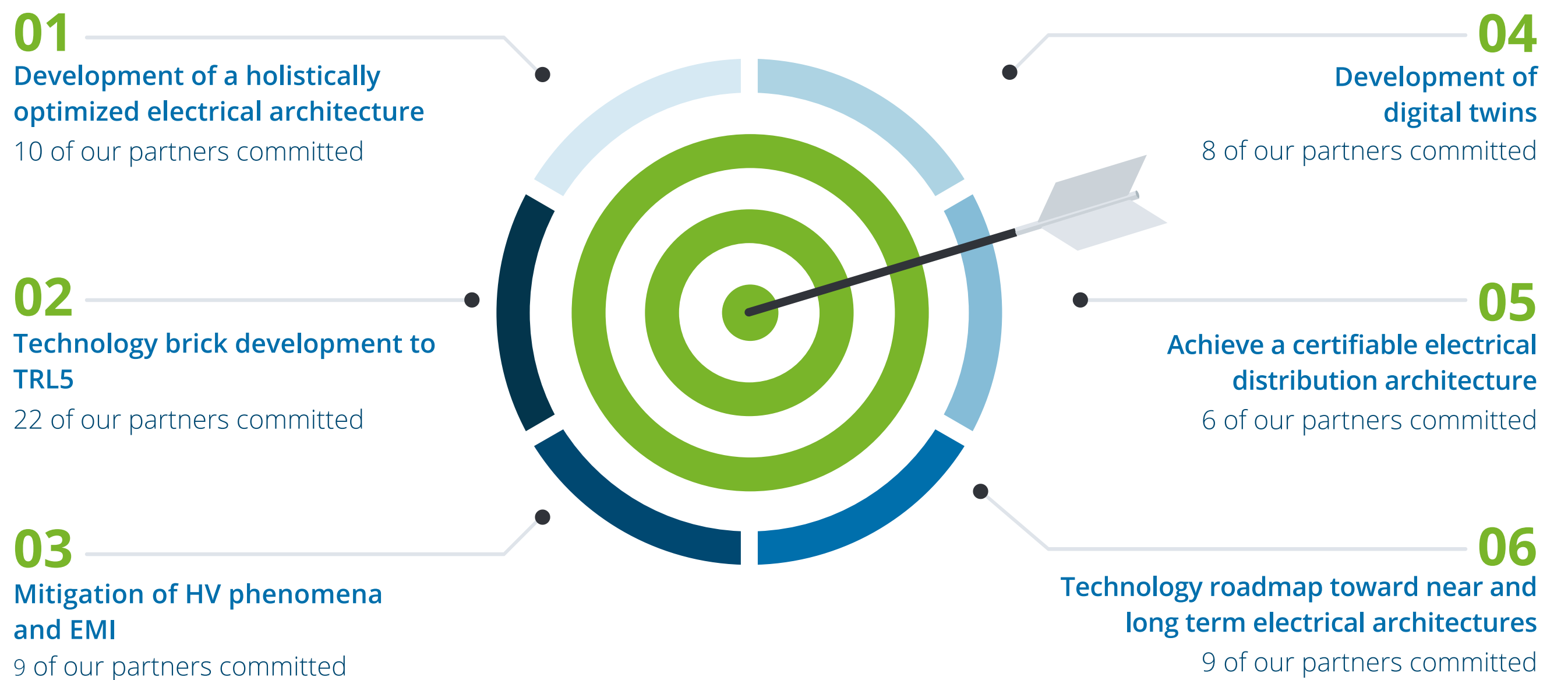


CONTEXT AND OBJECTIVES

HECATE aims to deliver transformative technologies to electrical distribution for future Hybrid Electric Aircraft:

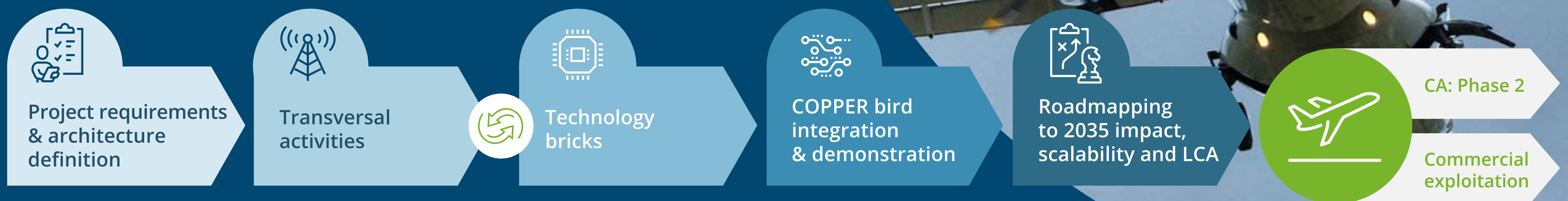
- High-power, high-voltage and certifiable electrical distribution for electrical architectures.
- Technology enablers at TRL5 in hybrid-electric propulsion for regional platforms with potential use for other aerospace domains (UAM, SMR, etc.)
- Contribute to the reduction of aircraft greenhouse gases toward the objectives of -30% net GHG emission reduction by 2035 and of zero emissions by 2050.

Each subobjective is supported by specific contributing partners.



APPROACH

- Definition of the electrical distribution architecture and specifications.
- Development and maturation of transformative technologies in the electrical distribution. — *Supported by transversal activities: digital twins and EMI/EMC*
- Demonstration and integration at COPPER bird ground test.
- Road mapping, impact, scalability to future platforms based on acquire know-how and LCA. — *Readiness of technologies toward CA Phase 2 and commercial exploitation*



CONSORTIUM



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