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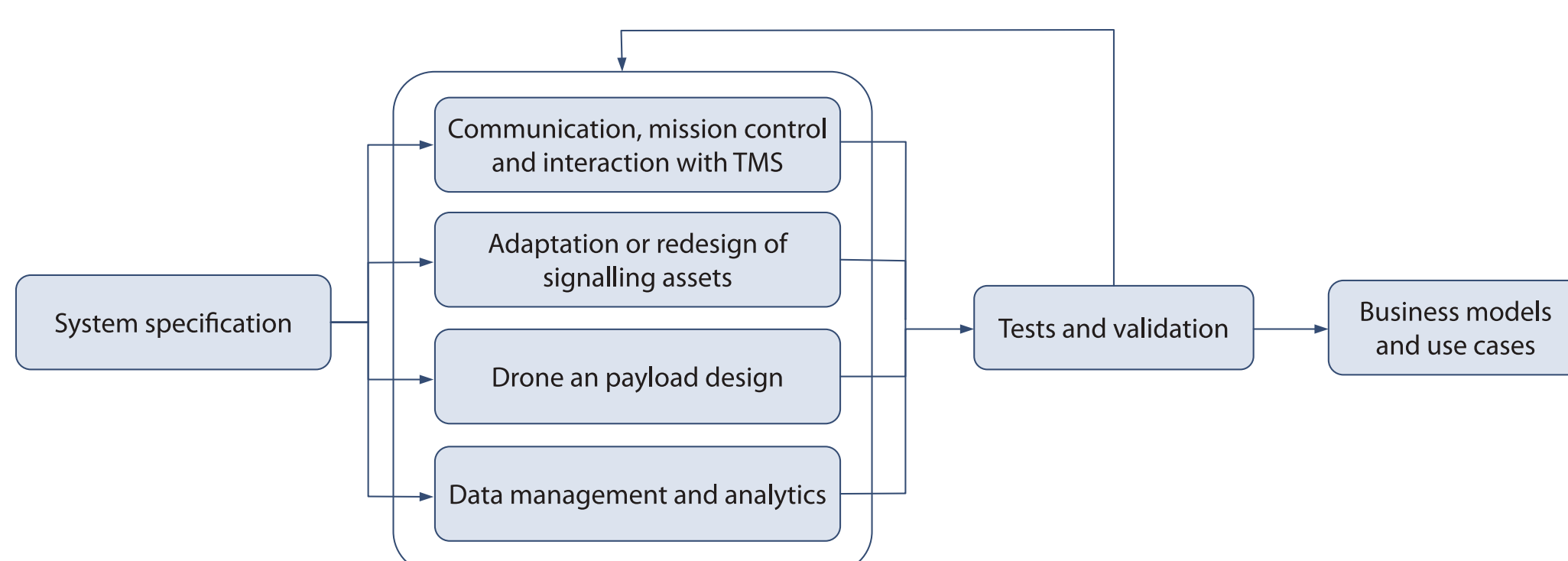
PROJECT RADIUS – Railway digitalisation using drones

Abstract

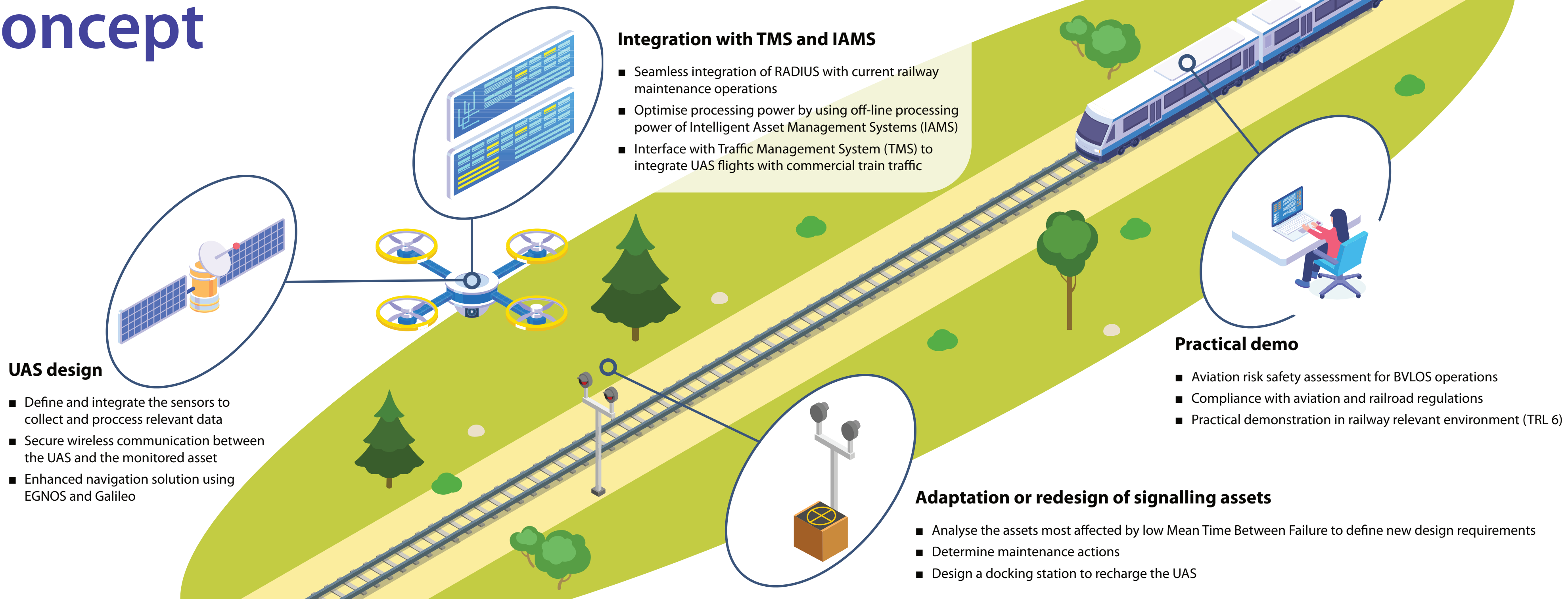
Railway signalling assets monitoring is based on three alternative methods: a) human maintenance; b) wired solutions; c) monitoring trains. These methods impose severe limitations in terms of safety issues, initial investment and complexity, operating costs, limited set of the diagnostic data processed, and track occupation. The direct result of these limitations is that the maintenance activities of railway lines are suboptimal, resulting in preventable failures that require expensive and disruptive reparations that imply the temporal interruption of the service in the affected tracks.

RADIUS proposes to use Unmanned Aircraft Systems (UAS) or drones to execute a large part of the inspection and maintenance tasks of signalling assets that improve on the current methods but require compliance with aviation standards and regulation besides those existing in the railway environment.

Methodology



Concept



Consortium



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