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HUCAN FLY AI FORUM 2024

BRUSSELS, 29 April 2024
Gabriella Gigante, CIRA

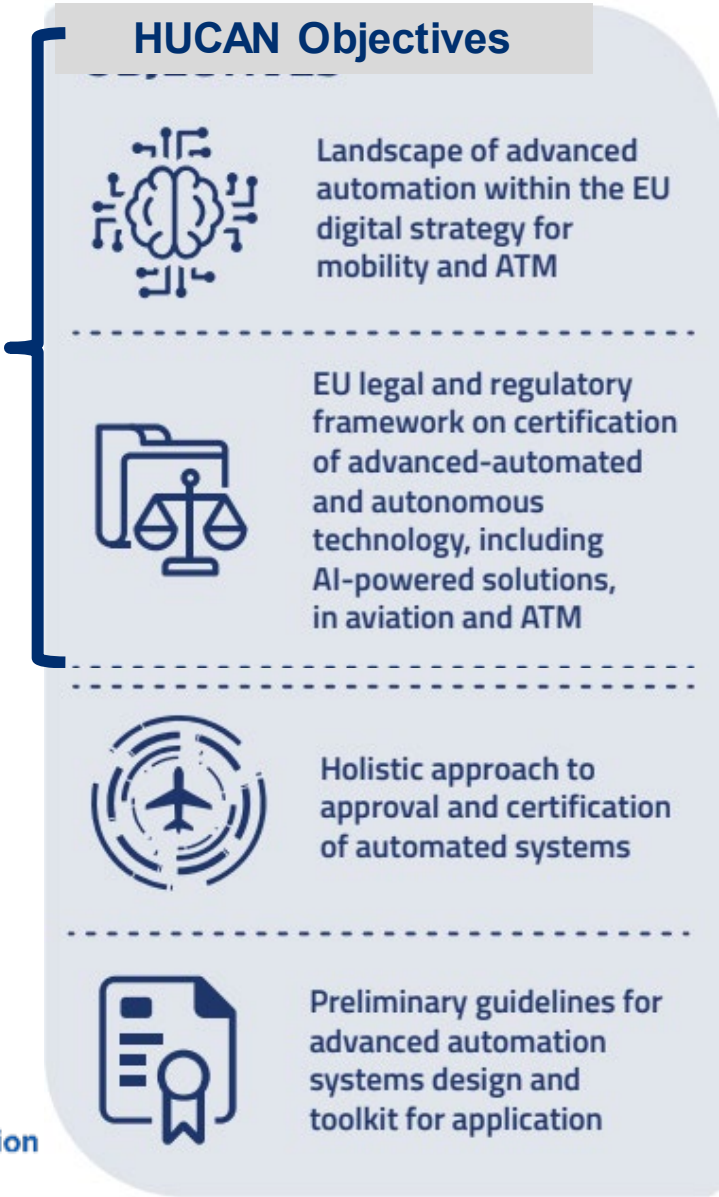
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JOINT UNDERTAKING



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the European Union

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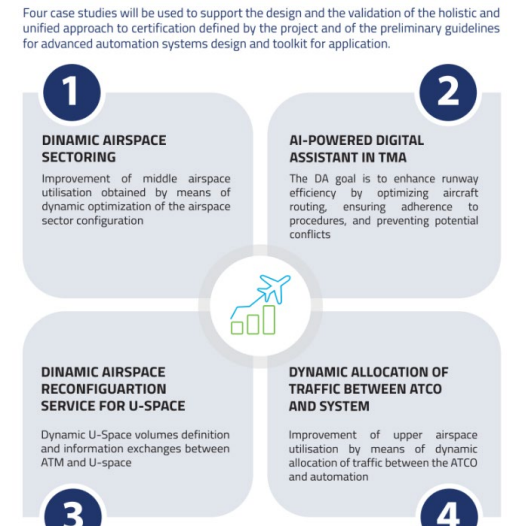
HUCAN Background



HOLISTIC UNIFIED CERTIFICATION APPROACH FOR NOVEL SYSTEMS BASED ON ADVANCED AUTOMATION AND ARTIFICIAL INTELLIGENCE

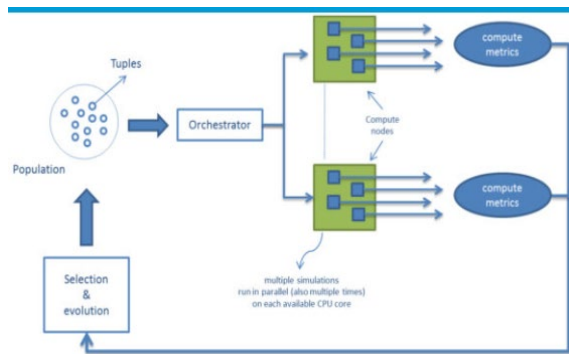
How is safety ensured if not all situations and variations of parameters can be anticipated during the design phase?

- ✓ **Performance-based requirements**
- ✓ **Holistic perspective: safety of automation during normal, impaired operation and recovery phases of service provision**

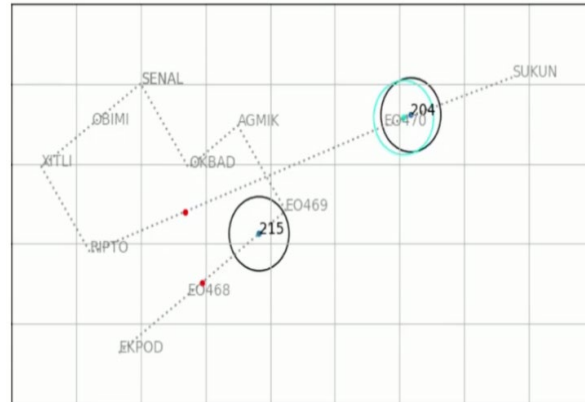


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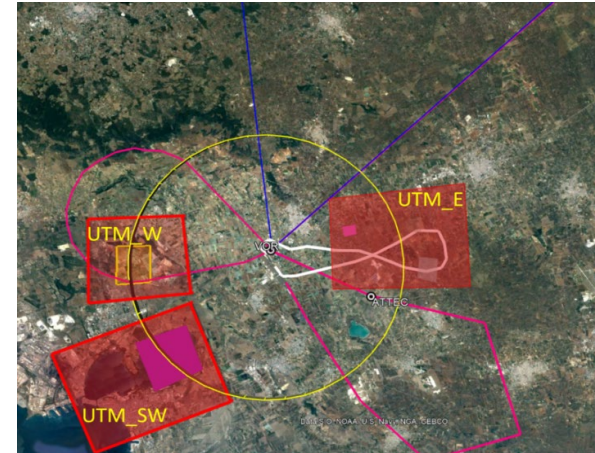
1 DYNAMIC AIRSPACE SECTORING



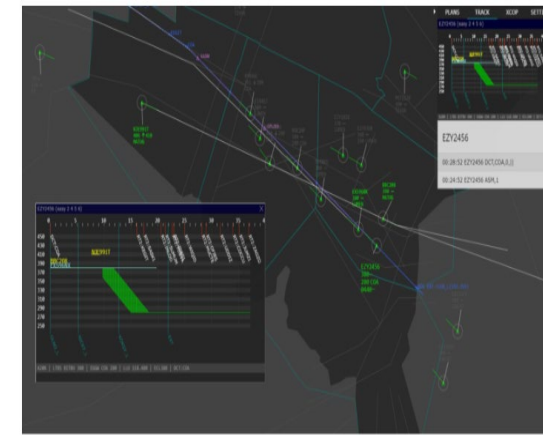
2 DIGITAL ASSISTANT IN TMA



3 DYNAMIC AIRSPACE RECONFIGURATION SERVICE FOR U-SPACE



4 DYNAMIC ALLOCATION OF TRAFFIC BETWEEN ATCO AND SYSTEM



Genetic Algorithms
Multi-Agent simulation

Reinforcement Learning

Machine Learning –
UTM environment

High Automation

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the Research TEAM



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