

VTOL Symposium 2020:

Update on EASA AI Roadmap Implementation

Prepared by the EASA AI project team

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Guillaume Soudain – EASA Software Senior Expert / AI Project Manager







EASA organisation for innovation

The EASA innovation network

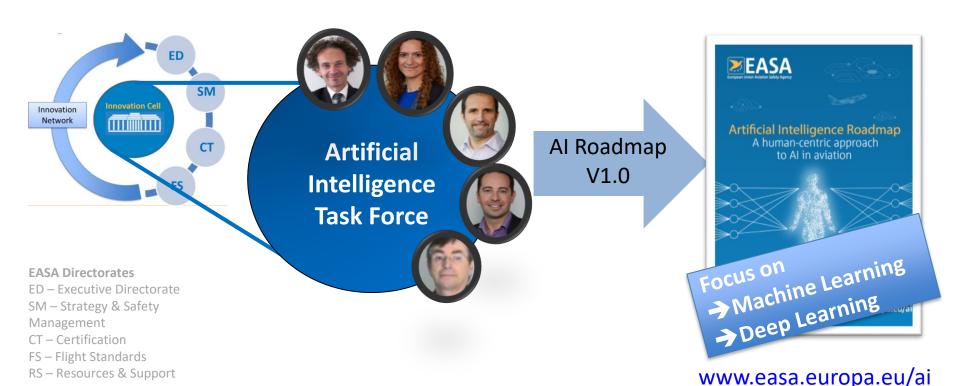


Alain Leroy – Principal Advisor to the EASA Certification Director

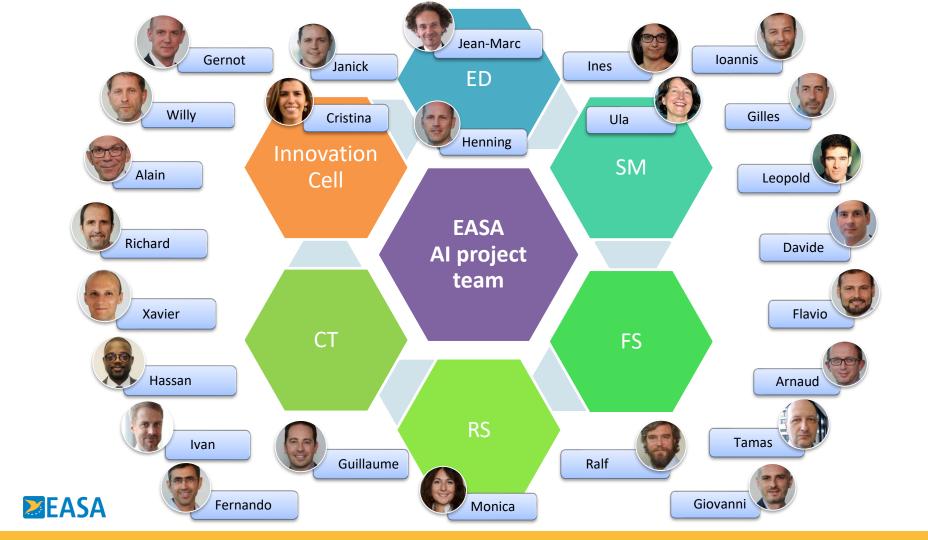




Al as first key topic for our innovation network









EASA AI Roadmap overview

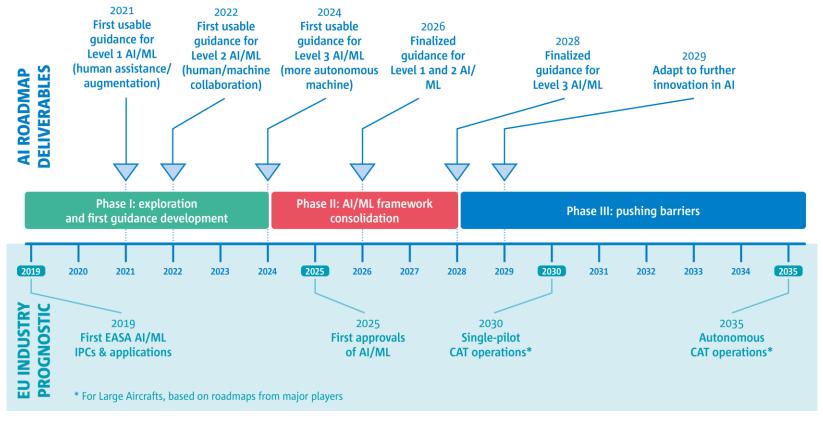
A human-centric approach to Al in aviation



Alain Leroy – Principal Advisor to the EASA Certification Director



EASA AI Roadmap timeframe and milestones







AI Trustworthiness

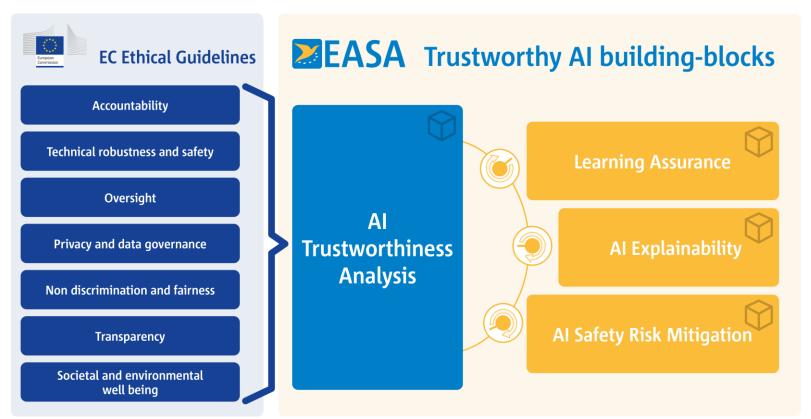
A driving concept



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Al Roadmap building blocks



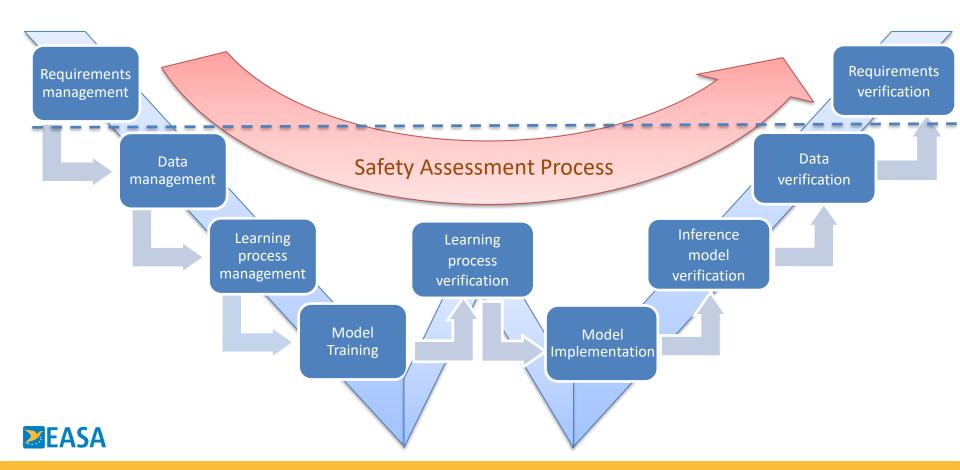


Learning Assurance: W-shaped Process

How do we ensure that a Machine Learning application will behave as intended?



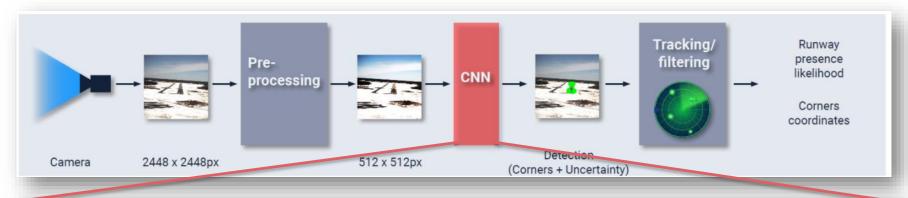
Learning Assurance: W-shaped Process

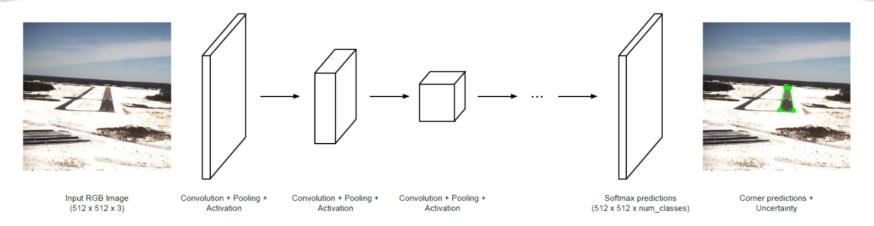


Xavier Henriquel – EASA Safety Assessment Expert



Learning Assurance: CoDANN IPC Use Case





Learning Assurance: CoDANN IPC Report



Generalisation guarantee is a crucial characteristic of the Learning Assurance concept.

Assessment methods are compatible with the use of NNs, with some adaptations.





So where are we now...

... and where are we going?



Guillaume Soudain – EASA Software Senior Expert / AI Project Manager





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