Aircraft landing quality

French Research Axis

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MEAS

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I /
LANDING

Abstracts

- Standard procedure linked to certification

- Chronological phases

- Standard training

- Effective sequenced actions planned

- New technologies appeared

Ressources, territoires et habitats
Développement durable
Énergie et climat
Infrastructures, transports et mer
Prévention des risques

Présent
pour
l'avenir

Landing profile

II /

Reporting and analysis

Problems :

- French operator data are not available

- Exact and full quality must be checked

- *Elements known :*

  – *No automatic detection implemented*

  – *Very few actors' reports on bad quality landings*

- This survey influences the surveillance of the other domains

- *Few links between maintenance problems and landing (rebounds, brakes…)*

III /
Objectives and Stakes

Before facing an « undesirable event »

Which is unacceptable

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- The study consists of estimating the feasibility
  of the profile analysis of deceleration (speed down)
  for planes during the landing action.

- The future objective is to reduce the risk of
  runway excursions by detecting the precursors.

Then

- When analysed by sectors :
touchdown zone – reverse thrust - speed reductions – exit speed.

- Comparison with on board data provided by the operators

Conclusion

- Belief of a safety improvement topic

- Use of ground radars available on airfields to collect and confirm the facts

- Bypassing of the non availability of data

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