

AVIATION SAFETY

Challenges and ways forward for a safe future

R&I Projects for Policy

Aviation is the safest mode of transport ...



Since 1958, commercial **aircraft accidents have fallen steadily** despite the constant growth in air traffic



The current fatal accident rate is well below **1 fatal accident per million flights**

... but can be further improved





Is Europe still addressing today's key risks? Are we **on the right path**? How can we reach the EU's goal to reduce **fatal accidents to 1 per 10 million** commercial aircraft flights by 2050?

The EU is investing in research for better aviation safety solutions



projects were analysed, including **53** in depth, to identify **research gaps** to further focus research on aviation safety

Five major aviation safety challenges



New business models Do these maintain high safety standards or could they result in lower safety?



Automation

A renewed safety focus on teamwork and automation is required in the cockpit and air traffic control

Drones

Unmanned vehicles and personal aerial vehicles will be game changers



Adverse weather

The ability to predict and avoid or mitigate weather-related threats remains a key focus





Recommendations for policymakers



Move towards a research strategy focusing on risk



Harness human factors



Share **safety data** and **safety intelligence**



Reduce the **operational** risk portfolio



Instil a **safety culture** across the aviation community



Improve **post-accident survivability**



Develop proportionate safety-management arrangements for new aviation players



Explore collaborative safety and security



Support **new technologies** and **safety solutions**



Maintain Europe's position as a **global aviation safety research player**

Read the full R&I Projects for Policy report on **Aviation Safety**: https://bit.ly/2JaOsEy

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