



# **‘Securing a sustainable future for aviation: unexpected operational risks’**

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ECA Vice-president

# ‘Piloting Safety’

## Our Mission

ECA “... represents the collective interests of its Member Associations at European level, striving for the **highest levels of aviation safety** and fostering **social rights** and **quality employment** for pilots in Europe.”



# Our Members



**36** Member Associations  
(33 full + 3 associate)

**24** EU countries  
out of 27

**40.000** European pilots

# ECA Paper on Aviation Sustainability



SECURING A SUSTAINABLE  
FUTURE FOR AVIATION

THE PILOTS'  
PERSPECTIVE



## 4. SUSTAINABLE GROWTH – A CHALLENGE, BUT FEASIBLE

Being a strategic infrastructure and essential part of the wider economy's backbone and Europe's society at large, and notwithstanding the environmental need for a certain optimisation of travel distribution among the different modes of transport within countries and within the European region, aviation is an industry that will be vital to the European economy also in future.

That this can be done in a sustainable manner is supported by scientific evidence, such as the 'Shift project' and the recent ICAO LTAG findings. According to the Shift project, the evidence shows that that sustainable growth in aviation is achievable, provided a number of well-chosen and ambitious measures are taken – and are taken soon enough – to prevent global warming from going beyond +2 degrees Celsius. Scientists predict that in order to stay within the corresponding carbon budget, there would have to be an annual geometric reduction rate of 3.39% in aviation. However, under certain strict conditions – such as the swift introduction of aircraft technology improvements, systematic fleet renewal in the coming years, and 100% access to SAF – a positive annual growth rate of +2.52% is foreseeable.

## 5. SUSTAINABILITY IS THREEFOLD: ENVIRONMENTAL, ECONOMIC AND SOCIAL

The Covid-19 pandemic has been a stress test of enormous proportions for our societies and economies – and hit aviation and its employees particularly hard. While climate change had become a growing challenge for aviation over the past years, with new expectations from younger generations, this unprecedented crisis has basically brought the sector to its knees. At the same time, it also represents an opportunity – with "building back better" having become the new motto for the post-crisis era. It is European pilots' firm belief that aviation must seize this opportunity to 'reinvent' itself to become, again, a sustainable, robust and resilient 3.0 industry – a pre-requisite for any further growth perspective in the long-term.

Sustainability must therefore be the cornerstone of any aviation rebuilding. However, the green transition cannot and must not come at the expense of aviation workers and social standards, but instead be integral part of the 'sustainability triangle', involving environmental, economic and social sustainability.



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# Public outreach



## What does it take to secure a sustainable future for aviation?

Climate change is one of the biggest challenges of our times. Aviation, as a strategic European infrastructure, will continue to play a vital role with regards to ensuring safe mobility across the continent but it must significantly reduce its environmental footprint. Sustainable Aviation Fuels (SAF) will be an essential enabler for this and

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# HOW PILOTS CAN CONTRIBUTE?



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## ON THE GROUND:

- Single engine taxi
- Maximise the use of electrical ground equipment (avoid APU use)



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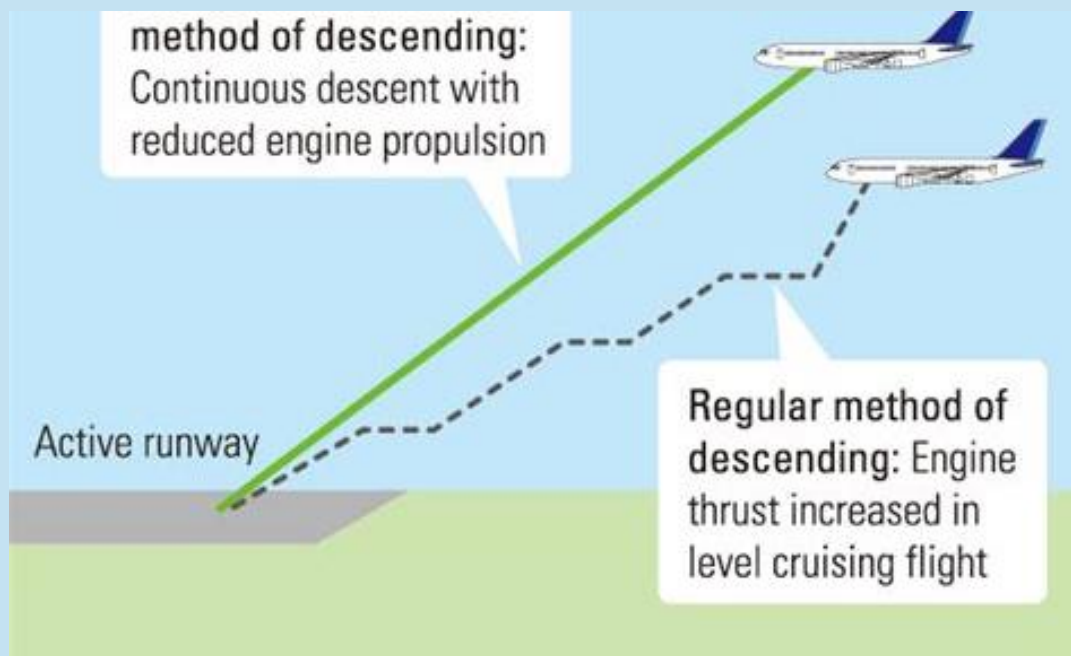


**Minimum flap  
setting for landing**  
(keeps high levels of  
aircraft energy and  
requires less engine  
power during the  
approach)



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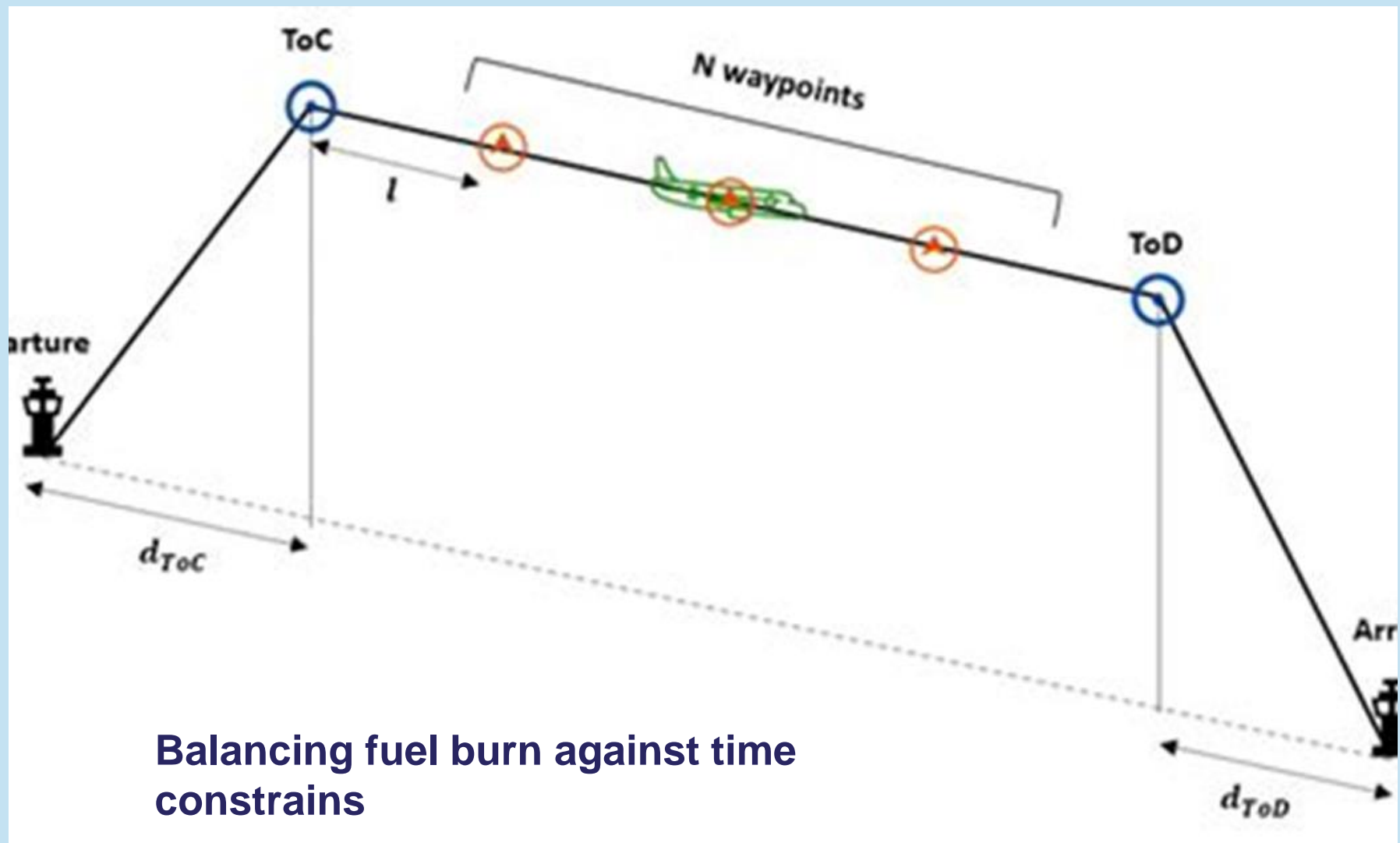


**Standardized RNAV (area navigation) approaches including CDO (continuous descent operations)**



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**Avoid “economic” tankering**



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In the case of single engine taxi:

- **Crew workload**
- **Potential distractions**
- **Aircraft weight**
- **Low visibility conditions**
- **Taxi ramp/surface status**



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Minimum flap setting for landing requires a **thorough safety assessment** in terms of:

- Runway length available
- Runway contamination
- Prevailing winds



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**Commander's discretion** must prevail when deciding how much should be uploaded.



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# Three Ryanair mayday calls go out on same day



Three Ryanair mayday calls go out on same day. Photo: PA

**JEROME REILLY**

August 12 2012 04:44 AM



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Operators with “strict” fuel policies should be aware of the unintended consequences (lack of reporting, “defensive” flying,...)



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**THANK YOU!**



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