Understanding the implications of take-off speeds is paramount to enable pilots to sense instantly the available margin of maneuver they have left to preserve safety of flight, and make a wise GO/NO GO decision.

In practice, crew coordination and the PM's involvement in the take-off phase preparation and execution are essential parameters to satisfactorily manage the risks associated to this particular phase of flight, such as: a lateral or longitudinal runway excursion, maximum brake energy exceedance causing a brake fire, tail strike, lack of lateral control once the aircraft is airborne, or obstacle clearance trespassing.

Whatever the flying conditions, it is essential that flight crews number one objective remains to fly the aircraft according to the 4 Golden Rules for Pilots.

DID YOU KNOW

Read our brochure "Getting to grips with aircraft performance", available on AirbusWorld.