DLR project **Wetter & Fliegen**
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**Wake vortex topic - introduction**
Carsten Schwarz, DLR Institute of Flight Systems
Wake vortex
Safety risk
Wake vortex
Current procedural mitigation means: capacity limitations
Wake vortex
Goals/ capabilities

Operational goals
- increase capacity/ reduce delays
- at least maintain level of safety for increasing traffic and larger aircraft

Evaluation capabilities
- risk analysis
- cost-benefit analysis
Wake vortex
Future solutions/ mitigation means

- wake vortex fundamentals
  - weather prediction
  - wake vortex evolution
  - vortex measurement
  - wake encounter severity/ risk assessment
- enhanced procedures
  (e.g. dynamic and/ or individual separation minima)
- ground based/ airport systems
  (risk/ cost/ benefit analysis)
- aircraft systems
  (warning, avoidance, flight control)