

EASA Skydiving Workshop

Human Factors

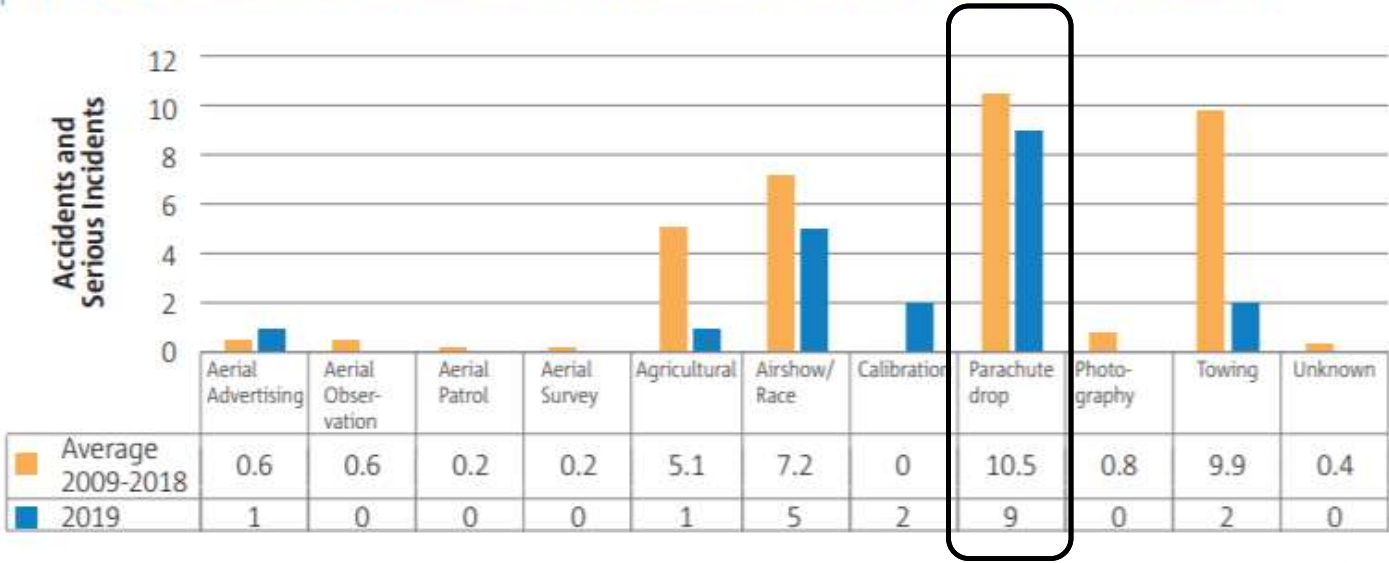
Andreas Winkler/Austro Control/25.Feb.2021





Parachute Drop – High Accident & Incident Rate

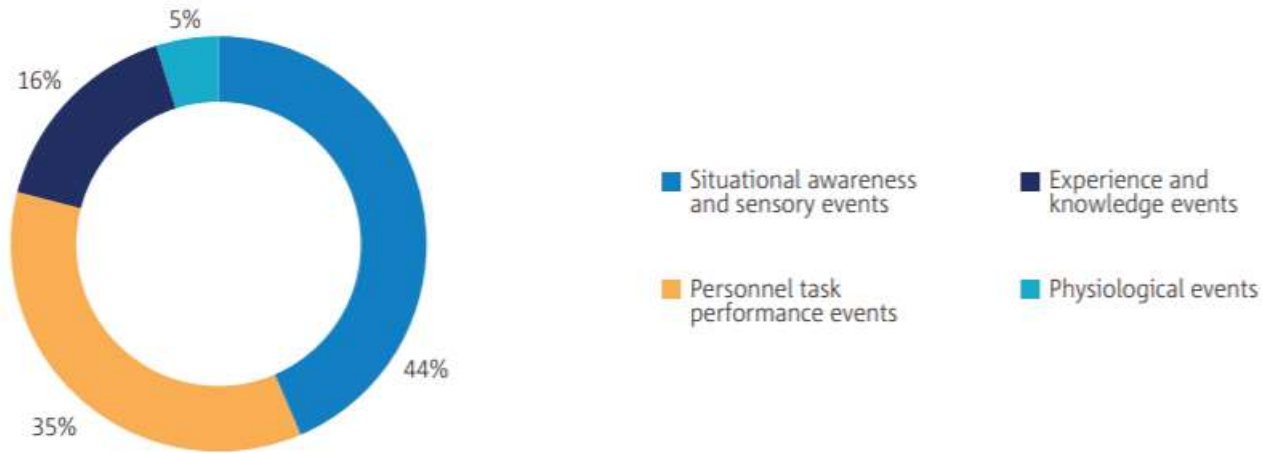
Figure 26 Accidents and serious incidents by specialised operation type involving aeroplanes



Data from EASA Annual Safety Review 2020
EPAS 2021-2025; SPT.0121, SI-4023

Human Factors – Key Issue

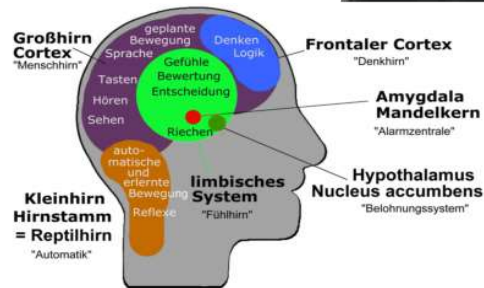
Figure 29 High level human factors and human performance event codes applied to accidents and serious incidents involving specialised operations aeroplanes



Human Factors are one of the Key Safety Issues to be addressed



Human Factors – Key Event codes and Causes



- Perception
- Situational Awareness
- Decision making
- Non conformance by pilot, crew, team
- Use of equipment
- Qualifications and experience
- Personal actions (delayed, incomplete,..)

We sense, but we do not realise that we have a problem



Human Factors in Parachute dropping operations

- **Time pressure** or specific requests to the Pilot
- Target: **Reduce** flight time to minimum to maximise ,income' & reduce **costs**
- Aircraft Operation is a „**side**“ **effect** of skydiving
- Skydivers are motivated/**drilled for the jump** and not for the flight
- **Aerial Work** = High workload (Airspace, VFR- look out, COM, Weather...)
- Sensitive payload calculation – **CG** determination
- **Stability and Control** reduced due to CG shift
- Reduced **communication** with Skydivers – Jump Master

Identification of Your Human Factors is essential!

To be addressed in your individual Safety Assessment/Operating Manual



Parachute/Skydive Operating Manual in force

- Need to develop an **EU - Sample OM**
- **Addressing** the practical lesson learned and **Human Factors**
- +
- **Training** on Content for Operators and Pilots
- Addressing in such training the **practical aspects** in HF
- +
- Bring the OM procedures to **life**
- **Enforcement and control** by the operator with all means

Proper OM -> Training -> Enforcement and Control





Chat is open for discussion and proposals

