

Accidents/Incidents in Skydiving

Study of some components



Factors Involved



Material
Human
Environement



Material



In improving the system:

- **Parachutes Factories**
- **Regulatory Entities**
- **Federations, Dropzones, etc.**

Each one with their issues regarding doing a 100% effective job.

Human Factor



In providing a safer skydiving environment, these organisations are involved:

- **Skydiving Schools**
- **Regulatory Entities**
- **National Federations**

Again, each one has their own issues regarding doing a 100% effective job.

Environment



In providing a safer skydiving environment the following factors are very important:

- **Information**
- **Economy**
- **Motivational Environment**



Involved Factors



Let's look at the general flaws of each of these factors.

Feel free to add factors other than those mentioned.

The more factors we incorporate, the safer the operation will be.

System Failures



Materials

- Lack of Product Development
- Insufficient quality control
- Lack of maintenance
- Others

Who can act on each of them?

System Failures



Human

- **Lack of Training (Poor Preparation)**
- **Insufficient supervision**
- **Inattention (Unsafe Actions)**
- **Others**

Who can act on each of them?

System Failures



Environment

- Atmospheric
- Bad example
- Non-observance of Regulations
- De-motivation or over-motivation (?)
- Pressures

Who can act on each of them?

System Failure



Let's use a commonly applied Swiss Cheese example to clarify interactions

The Swiss cheese model of accident causation is a model used in risk analysis and risk management, including aviation safety, engineering, healthcare, emergency service organizations, and as the principle behind layered security.

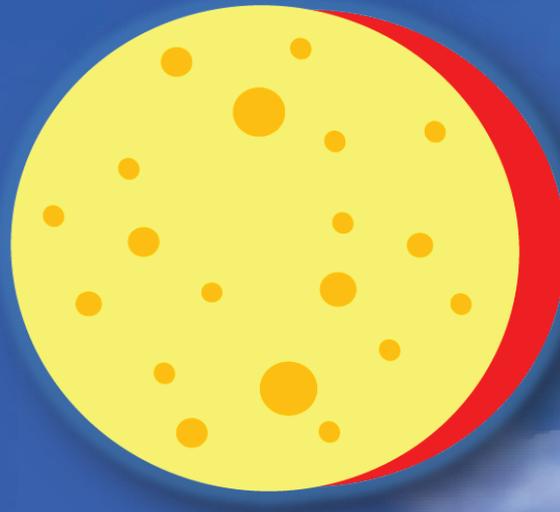
System Failures



Materials

Lack of
product
development

Insufficient
Quality Control



Others

Poor
Maintenance

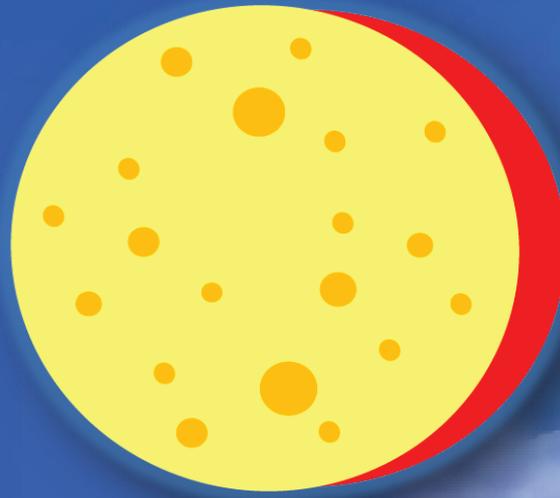
System Failure



Human Factors

Lack of
formation

Insufficient
Supervision



Lack of
Attention

Others

System Failures

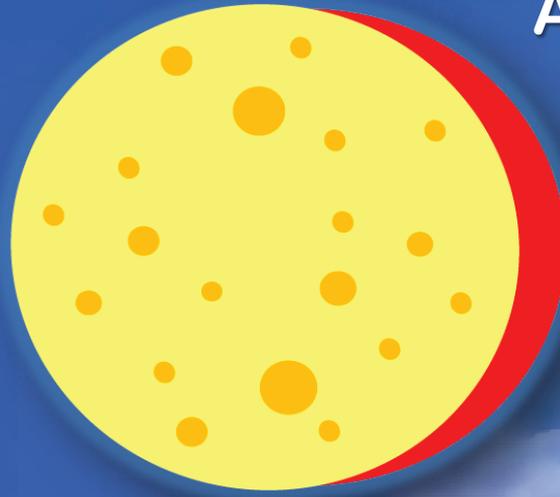


Environnement

Non-observance
of Regulations

De-motivation

Pressures



Atmospheric

Over-motivation

Bad example

System failures



And when they match??
Environnement

ACCIDENT

Materials

Humans

Conclusions



Suggested actions

- Identify all risk factors
- Corrective action for risky behaviors
- Development of safe operating criteria
- Use of suitable material

ACT NOW

It's very sad to lose friends

