

Safety Performance Indicators at Aerodromes

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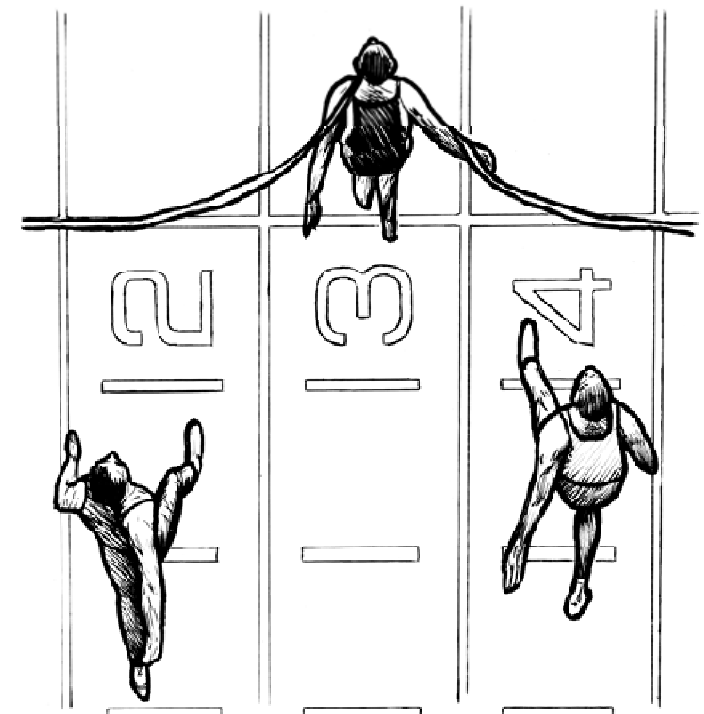
Safety

- reliability of something



Performance

- effort
- efficiency
- the fulfillment of a claim, promise, or request



Dynamics with responsibility

Indicator

- parameter
- observable measures



Safety Performance Indicator

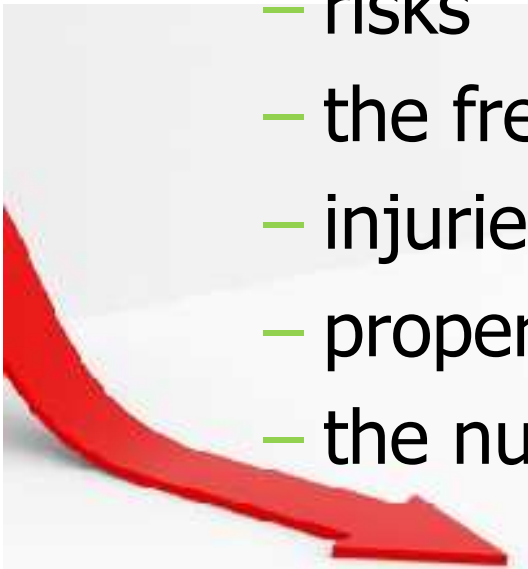
- Indicator: observable parameter
 - Performance: effort, efficiency, ...
 - Safety: reliability
-
- ... that provide insights into



observable parameter of the effort of reliability
that provides insight into the concept „safety“

Safety Performance Indicators?

- reduction of
 - risks
 - the frequency of accidents & their severity
 - injuries and fatalities
 - property damage
 - the number of people affected



Dynamics with responsibility

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SPI's in Austria

1. SMS at Aerodromes
2. SMS at Ground Handling Agents
3. data collection and analysis
4. definition of SPIs per aerodrome
5. definition of SPIs for Austria



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Challenges:

1. SMS at Aerodromes
2. SMS at Ground Handling Agents
3. data collection and analysis
 - non-punishing
 - re-definition of reporting system
 - knowledge management
4. definition of SPIs per aerodrome
5. definition of SPIs for Austria



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Non-punishing reporting system?

- total number of occurrences per period
- thereof number of occurrences without information about „how it occurred“
 - staff wants to let us know to improve safety
 - staff doesn't want to let us know as they are afraid



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numbers and figures

- ~~absolute figures~~
- relative figures
- e.g. per 10.000 movements



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Be careful when comparing SPIs:

- same basic set?
- same definitions?
- same conditions?



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SPIs at Austrian aerodromes

- number of accidents on movement area
per 10.000 movements
below the average of last 10 years (5,06)
- number of accidents with airplanes
involved
per 10.000 movements
below the average of last 10 years (1,69)

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Clarficiation

Although it looks like as we don´t count
people injured / killed, we have a very
close look at these figures as well.

But only one „big“ accident would *destroy*
the parameter (indicator), and is an
observed accident as well.

Sources

- ICAO Annex 14
- ICAO draft of Annex 19
- ICAO Safety Management Manual

SPI: observable parameter of the effort of reliability that provides insight into the concept „safety“



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