

28th CEEMAN Annual Conference

Jan U. Hagen Berlin, September 24, 2020







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But what high risk environments?



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Safety - Precision - Perfection



Patrouille Suisse overflying Mümliswil on July 6, 2019

Source: https://www.20min.ch/schweiz/news/story/Patrouille-Suisse-fliegt-am-falschen-Ort-23785045 accessed on 8.7.2019

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Patrouille Suisse: Fighter jet display team fly-by misses town

③ 8 July 2019

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A Swiss aerial display team has performed a fly-by over the wrong town, surprising people at a yodelling festival taking place nearby.

The Patrouille Suisse were due to fly over Langenbruck to honour the centenary of a Swiss flying pioneer.

But instead the team flew over the nearby town of Mümliswil, which was hosting **the 31st Northwest Yodelling Festival**.

A spokesman for the Swiss Defence Ministry has apologised for the error.

The squadron - a Swiss version of the UK's Red Arrows or the US Blue Angels - was due to perform for the 100th anniversary of the death of Oskar Bider.

Bider was the first person to fly over the Alps in both directions, a feat he accomplished in 1913 at the age of 22.

The aviator was born in Langenbruck. But the squadron leader saw the tent set up for the yodelling festival in Mümliswil, roughly 6km (4 miles) west of the town, and misdirected the jets.

The yodel festival patrons are reported to have enjoyed the unexpected show.

Source: https://www.bbc.com/news/world-europe-48916084 accessed on 11.7.2019

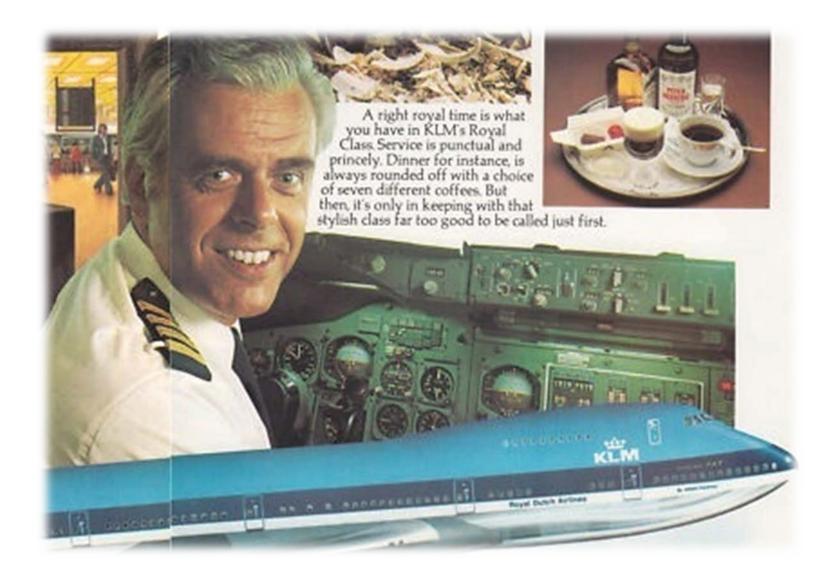


Error avoidance is not that easy

Category	MTBF*
Simple and repetitively executed tasks at low stress	~ 30 min
Complex , repetitively executed tasks in normal situations with no time pressure	~ 5 min
Complex tasks in non-normal situations with high stress and/or time pressure	~ 30 sec

* Mean time between failures Source: Bubb, H. (1997)

Understand the role of competency and experience



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Speaking-up with ideas, questions, concerns, or mistakes may be more difficult than we realize



"This had better be good"

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Understand the role of competency and experience



The concept of psychological safety



Psychological safety

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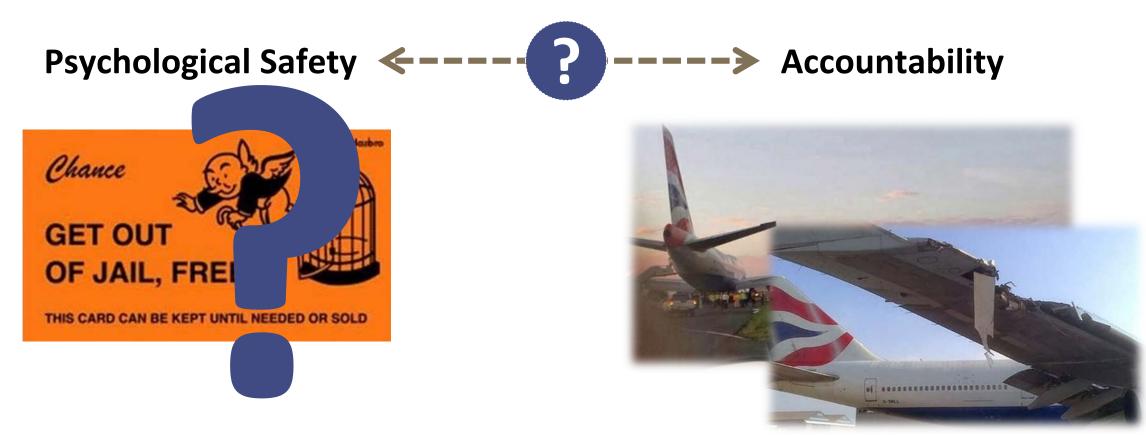
is a belief that one will not be punished or humiliated for speaking up with ideas, questions, concerns, or mistakes.



Sounds great!



Are there limits for psychological safety?



Source: http://www.skybrary.aero/bookshelf/books/3124.pdf accesed on 23.9.2020



Psychological safety and accountability



The concept is embraced by HROs – but does it work for corporations?







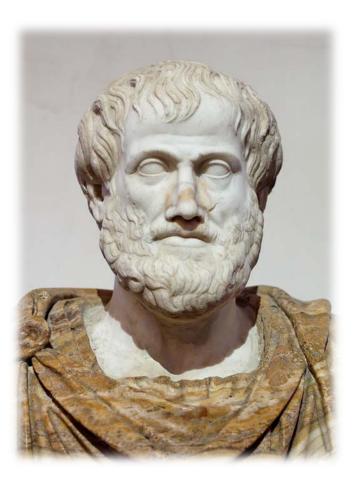








Google launched a big data analytics project to answer the question: What makes a Google team effective?



Project Aristotle

The cope of the analysis:

- 180 active Google teams
- Team effectiveness was measured along 4 main criteria:
 - Executive evaluation of the team
 - Team leader evaluation of the team
 - Team member evaluation of the team
 - Sales performance against quarterly quota
- Over two years 200+ double-blind interviews with Google employees were conducted
- More than 250 items from the annual employee engagement survey were analyzed



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Result from the project

The **Form of Part team** consists of a perfect mix of indivious trans and skills – e.g. a Rhodes Scholar, two extrements, a software engineer who rocks at AngularJS, and a PhD.



Factors determining team effectiveness at Google

Identified relevant factors for effective team interaction

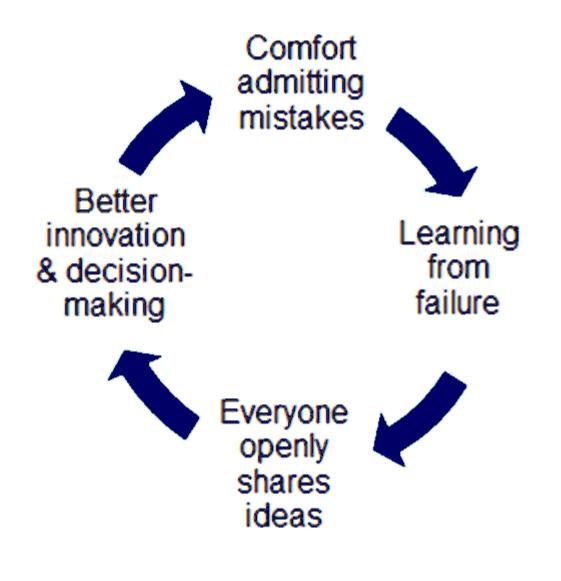
in order of importance



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The basic principle





Did the swiss pilots learn from their error?



Learning is based on reflection

Practice regular debriefings

- What did we intend to do?
- What actually happened?
- What is the difference and why?
- What will we do going forward?
- Did we do the right things?
- Did we do the right things right?
- What will we do going forward?



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So high-risk organizations and start-ups are closer aligned than we think ...and other organizations may learn from both



Fail Fast Learn Fast => Improve Fast

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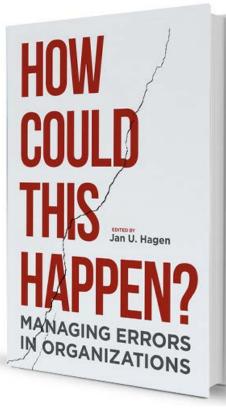
Prof. Dr. Jan U. Hagen

Thank you

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