

PILOT IS A PILOT IS A PILOT?:

Exploration Of Effects Of National Culture In Helicopter Pilots

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Introduction + Aims

- Culture relates to shared **norms, values, and practices** associated with a nation, organization, or profession.
- **National culture** is based on a person's geographic country of origin.
- It has been identified to **influence the way people communicate and behave** through these shared norms and beliefs.

Why is culture important?

- Culture types (organisational, national and professional) identified as input factors

- affecting crew and mission performance (Helmreich, 2000).
 - In fixed-wing aviation.
 - In space missions.
- However, most of the research is 20+ years old.
- Helicopter flight crews are often comprised of **multicultural teams that fly as part of multinational companies**

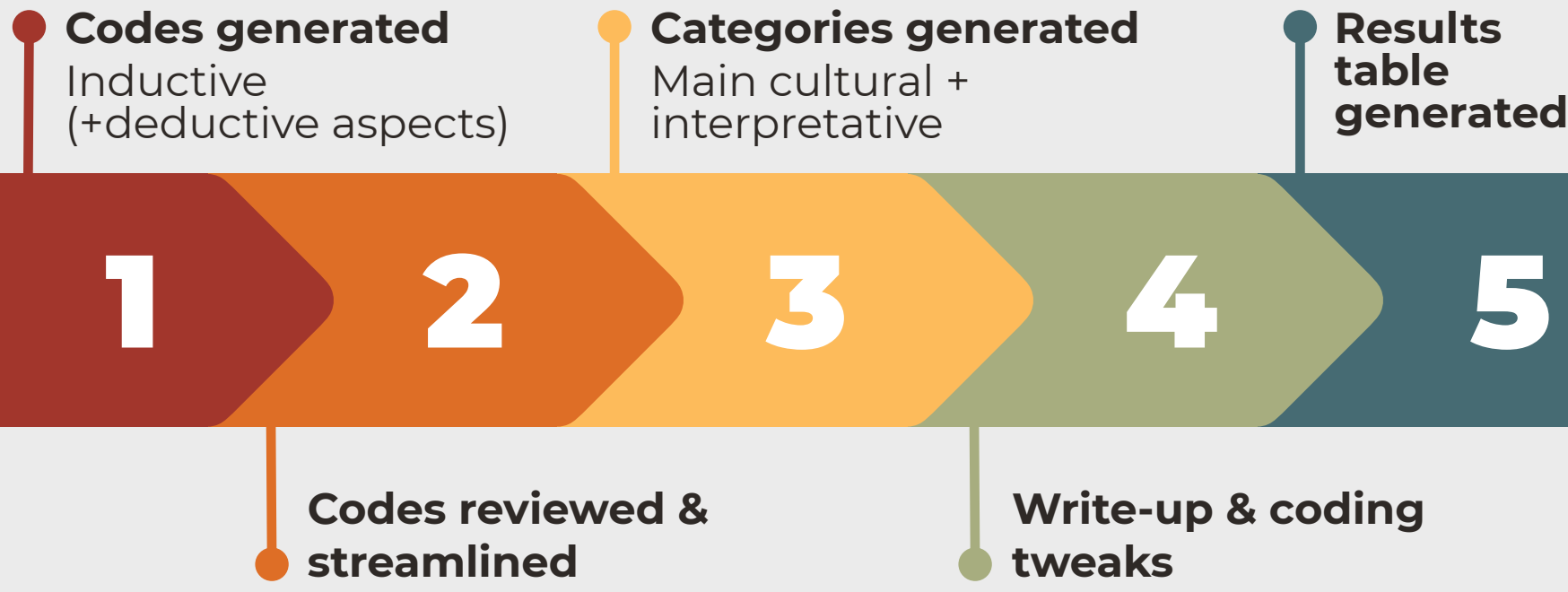
Aims:

- Explore pilots/managers/trainers' views on the effects of national culture on in-flight safety behaviours.
- Determine which aspects of national culture are perceived as potential factors that might influence **in-flight safety behaviours, performance and training.**

Methods

- 15 in-depth semi-structured interviews with helicopter pilots, trainers and managers. All but 1 trainer were active pilots.
- Ex-military/civilian
- UK & other
- UK base of an offshore transport operator

Inductive content analysis (Hsieh & Shannon, 2005)



Working with other people irrespective of culture

Content analysis generated two overarching themes relevant to working with others.

Individual character exerts bigger influence than culture. Half of the pilots ($n = 7$) mentioned that rather than a culture influencing the way a person behaves, they only had issues with certain individuals.

“You can have problems with people from the UK... it's irrelevant. — (Participant #8)

Importance of standardisation for elimination of cultural influences. Many pilots ($n = 6$) observed that numerous cultural issues that could come up are eliminated by strong internal standardisation procedures within the organisation.

“When the company has little or no, um, standardisation or very little standardisation, it ends up being up or down to each individual culture. — (Participant #6)

Results

• National culture categories:

Language barriers can present difficulties:

Here people mostly talked about how **language can lead to misunderstandings, issues become apparent in emergencies**, speaking slower and clearer with non-native speakers. Pilots also pointed out that **standardisation in language mitigate some of these issues.**

Minimal differences in the Western world:

Here it was mentioned that pilots from European/Western countries are very similar due to **standardised Western training**, low power distance in European cultures, and higher power distance in southern and eastern countries.

Pilots from outside of EU are different:

Here pilots mentioned various **anecdotal impressions** of American, Arab and African pilots. However, the **number of those experiences was rather low.** Multiple pilots mentioned that non-European flying can be riskier.

Discussion

Extensive insight into:

- pilot's perception of culture; and
- it's influence on performance, safety behaviours and training

Key themes discussed:

- importance of standardisation (to eliminate or reduce impact of culture)
- international differences
- language barriers

National culture previously found to have a negative effect on flight safety (Helmreich & Merritt, 1998; Soeters & Boer, 2000)

- Not the case in our sample
- Potentially due to limited (if any) experience of interacting or flying with non-Western pilots
- Additionally - **very small differences between pilots from European countries** (and most of the Western world) because of the standardised Western training styles and techniques, along with similar routes to becoming a pilot.
- Largely in line with previous literature suggesting that many Western pilots (European, US and Australian) have similar characteristics (Helmreich & Merritt, 1998).

Main differences when flying with non-Western pilots come down to team interactions, not flight skills

- the higher power distance when flying with Middle Eastern pilots
- 'saving face' culture in Eastern countries
- In line with previous literature (Soeters & Boer, 2000)

Key influence of national culture on flight safety – language barrier

- faced by some non-native English speakers
- that standardised language in the cockpit helps to a certain extent
- but can also hinder communication in some instances – due to specialised terminology and 'difficult words' that can be harder to pronounce

References

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