



The Intention-behaviour gap in cybersecurity

What we say we'll do is not what we do

- Survey focusing on **attitudes** and **intentions** are often use to “measure” the human aspects of cybersecurity
- **Attitudes** and **intentions** are poor predictors of behaviours (it’s called the **intention-behaviour gap**), hence, they shouldn’t be used as a key performance indicator
- Even self-reported behaviours and actual behaviours are often poorly correlated (Dang, 2021)

ATTITUDE

- What we think about something
- Ex.: *“I think it is important to use complex password”*

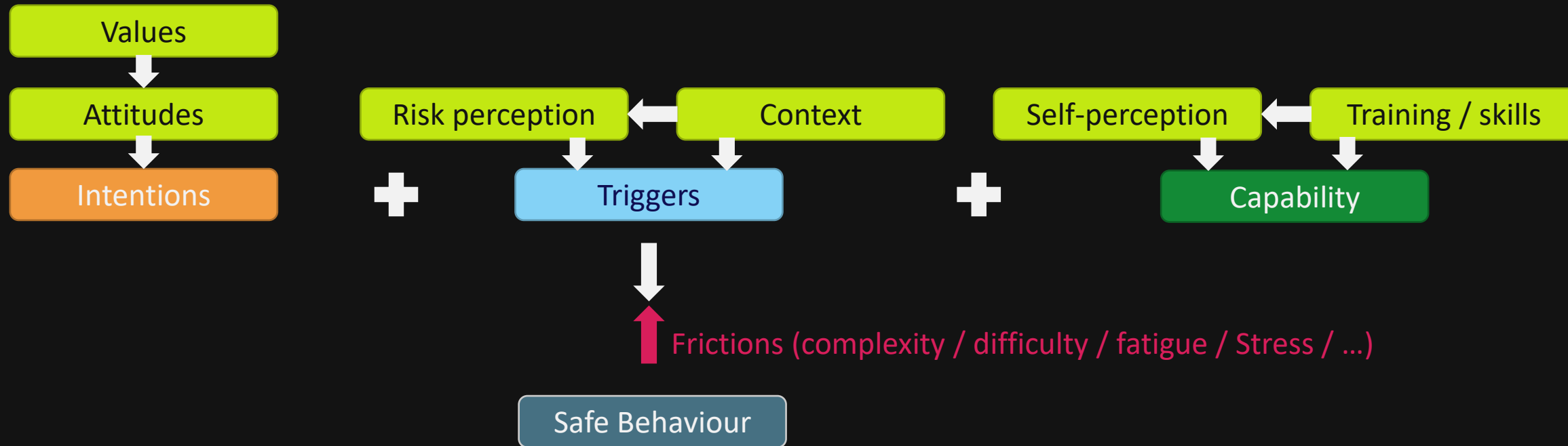
INTENTION

- What we plan to do or how we plan to behave
- Ex.: *“I will use a 14 characters password”*

BEHAVIOUR

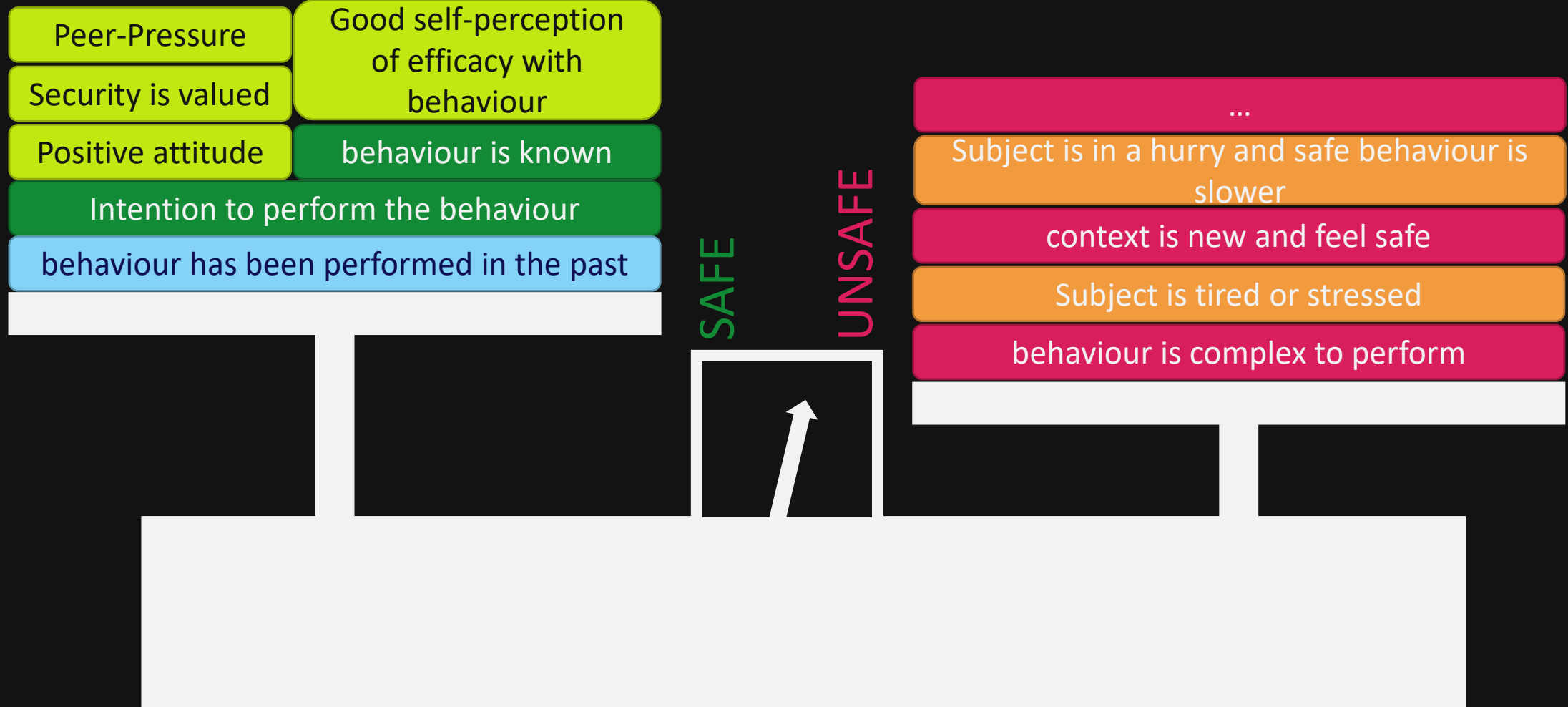
- What we actually do
- Ex.: Passwords used are complex
- Ex. of self-reported behaviour: *“I always use complex passwords”*

Factors influencing safe behaviours






For a safe behaviour to happen, factors like positive attitudes and an intent to perform the behaviour, a perception of the risk, a perception of the cues to trigger the behaviour, a practical knowledge of the behaviour (practical skill more than theoretical) as well a positive self-perception of our capability to perform the behaviour are necessary. Frictions like task complexity, fatigue or time pressure will reduce the likelihood of the safe behaviour occurrence.

Factors influencing safe behaviours



Reduce frictions, reduce the gap

- Values, **Attitudes** and **Intentions** can be used to assess the culture, not risks
- If **safe behaviour** doesn't occur, look for **frictions** or mixed / opposite messages
- Ensure people **know when** to perform the behaviour, keep it simple, fast, easy to remember, effortless. **Reduce the burden** on humans as much as possible.

-  Values, **Attitudes**, **Intentions** and Self-Reported behaviours are “technical” indicators for Security Awareness Specialists, not for CxOs
-  Actual **safe Behaviours** should be reported to senior management
-  Following a training is **NOT** a safe behaviour, it’s just a step towards it.

Questions?



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