

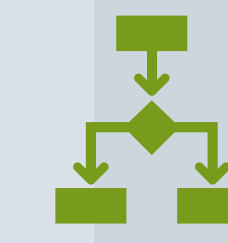
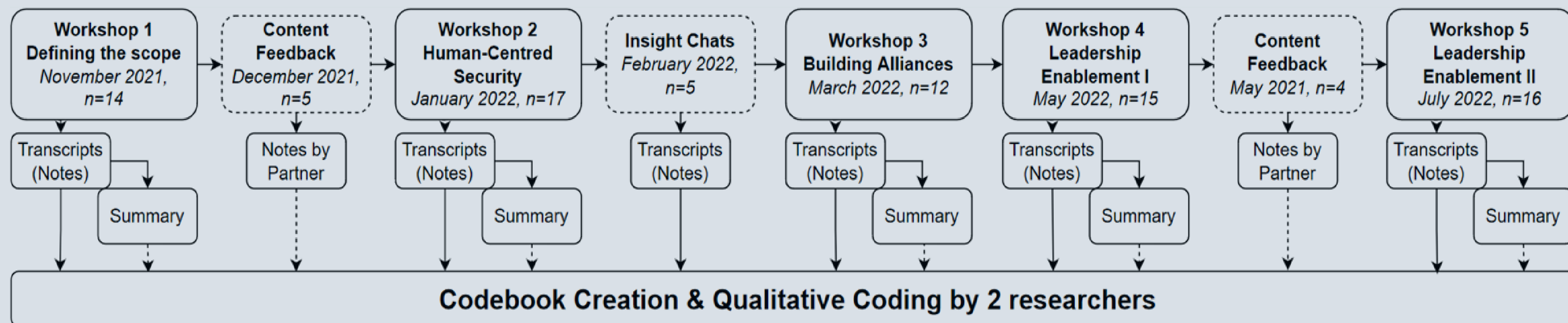
## The CISO View On Human-Centred Security

Research questions (five workshop sessions with n = 30 Chief Information Security Officers/ CISOs):



How do CISOs respond to foundational concepts from **Human-Centred Security**?

What **obstacles**, **enablers**, and **touchpoints** do CISOs see for applying these concepts to security in their organization?



### Findings

- CISOs perceive HCS as what is **available on the market** (awareness, phishing etc.)
- They shift **responsibility** (to the management or employees)
- But we see a lack of their **power** and **silos**

Jonas Hielscher, Uta Menges, Simon Parkin, Annette Kluge, M. Angela Sasse. (2023). "Employees Who Don't Accept the Time Security Takes re Not Aware Enough": The CISO View on Human-Centred Security. Accepted at USENIX Security 2023

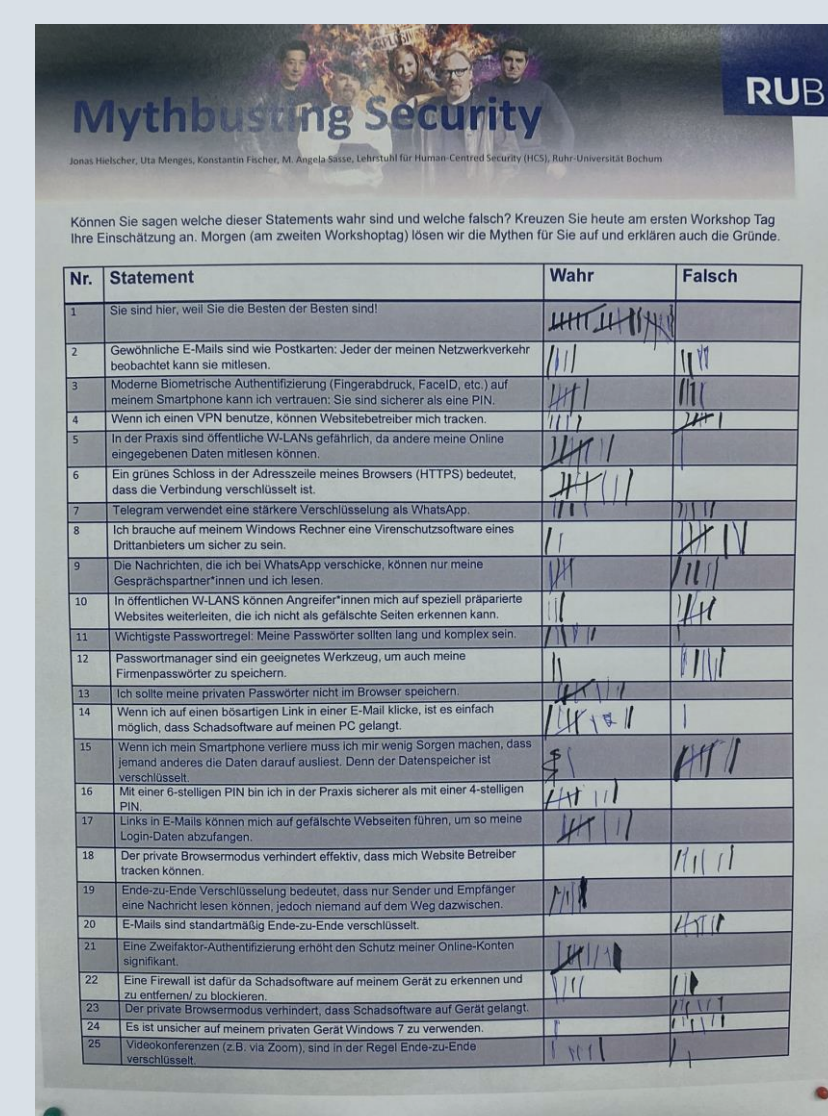
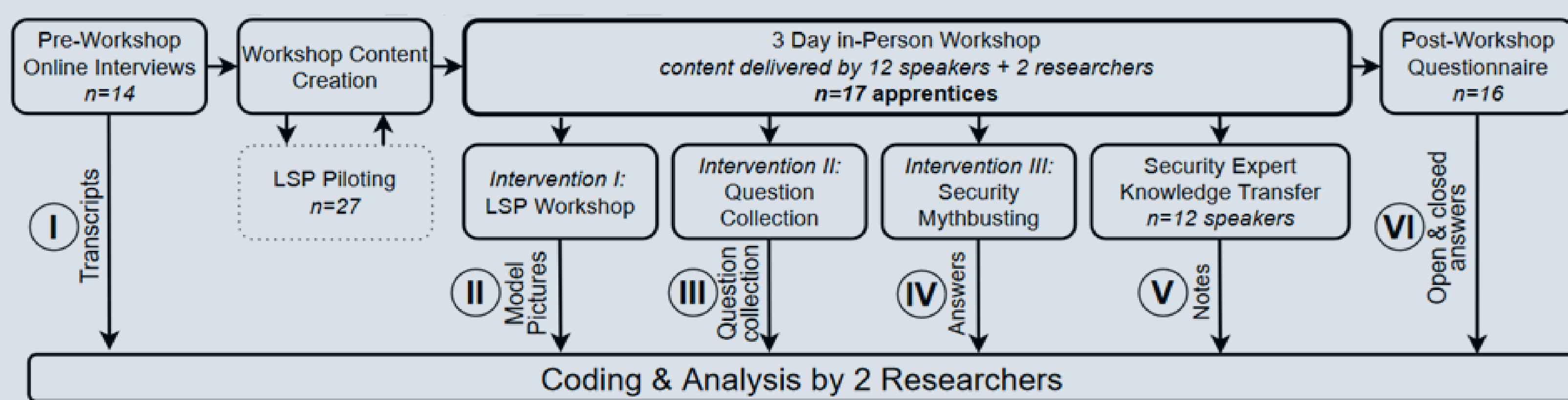
## Young Security Champions

Research questions (3-day workshop with n = 17 apprentices):



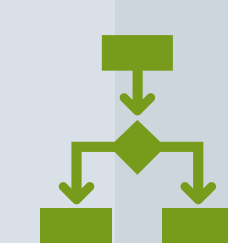
To what extent can apprentices without specific knowledge be **attracted** and **empowered** to take on the role of security champions in organizations?

What **conditions** need to be met by the **organization** in terms of planning, implementation and content of an appropriate workshop for Security Champions to enable the process of readiness and empowerment of apprentices?



**Security Champions** are employees (Jaeger et al. 2017)...

- from different departments, at different hierarchical levels
- who are interested in the topic of security and want to get involved on a voluntary basis
- who take on the role of multipliers



### Findings

- Such a workshop influences the **security behavior** of participants
- It leads to the **self-identification** as a security champion (care for security)
- The exercise of this role is hindered by **fear appeals**, **unclear recommendations**, etc.

Uta Menges, Jonas Hielscher, Laura Kocksch, Annette Kluge, M. Angela Sasse. (2023). Caring Not Scaring - An Evaluation of a Workshop to Train Apprentices as Security Champions. Submitted to CSCW 2023  
Lennart Jaeger, Clara Ament, and Andreas Eckhardt. (2017). The closer you get the more aware you become—a case study about psychological distance to information security incidents

## Engaging with LEGO

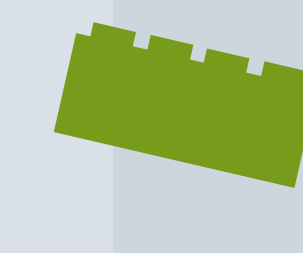


Research question (four workshop with n = 48 participants in total):

Can LSP be used to collect **qualitative in-depth knowledge** of IT security of LSP workshop participants?

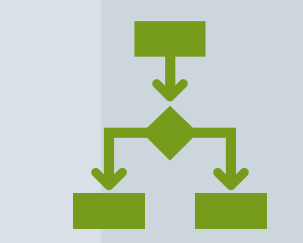
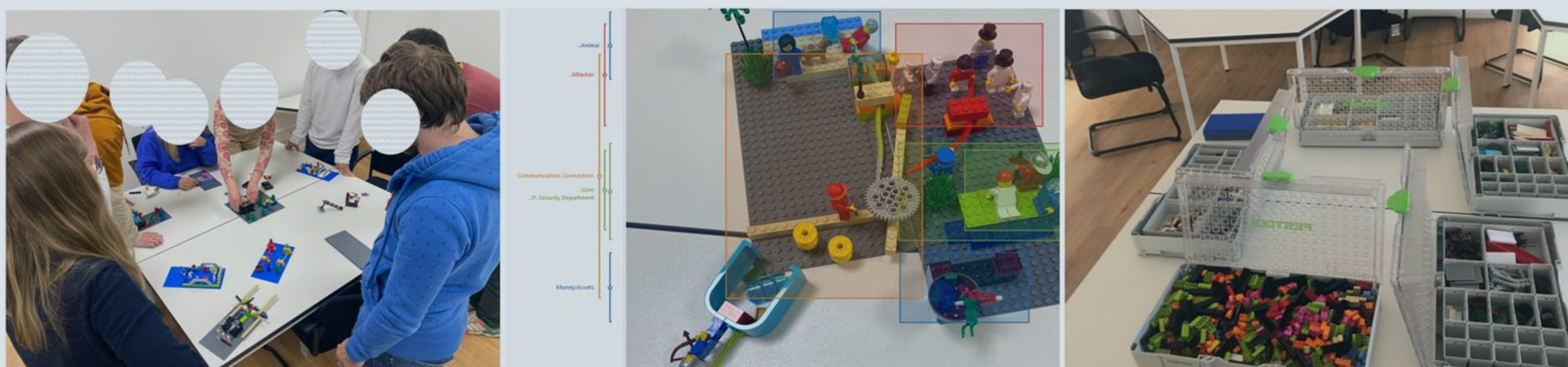
	Workshop 1	Workshop 2	Workshop 3	Workshop 4
n	8	19	17	4
Setting	Graduate school	Lecture	Inter-Organisation	Seminar
Participants	PhD researchers (different disciplines)	IT security MA students	multidisciplinary apprentices	Psychology BA Students
Duration	1.5h	1.5h	1h	3h
Content	IT security in every day life	IT security in a case study (hospital)	IT security in the participants organisation	IT security at work and/or at university

„Build a model that shows how IT security should work in your everyday life/ work“  
(Exemplary task of the participants)



### LEGO® Serious Play (LSP)

- A format that follows a clear process
- Focus: concrete question/ problem
- Connection between brain & hand
- „Compulsion“ to simplify
- Facilitator of high relevance



### Findings

- Most of the models showed IT security **problems & weaknesses**
- **Interaction, collaboration & communication** were modeled as relevant

Uta Menges, Jonas Hielscher, Annette Kluge, M. Angela Sasse. (2022). Work in Progress – Brick by Brick: Using a Structured Building Blocks Method to Engage Participants and Collect IT Security Insights. Published at STAST 2022

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Further partners:

