



“FIDO2 will kill passwords”





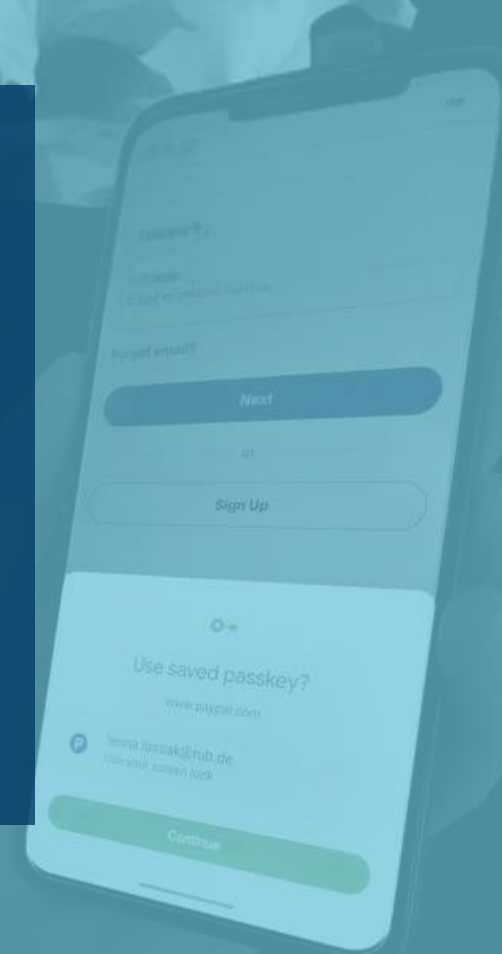
“Passkeys will kill passwords”



Why Aren't We Using Passkeys?

Obstacles Companies Face Deploying FIDO2 Passwordless Authentication

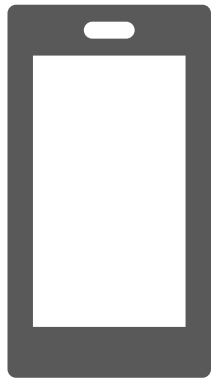
Leona Lassak, Elleen Pan, Blase Ur, and Maximilian Golla



RUB

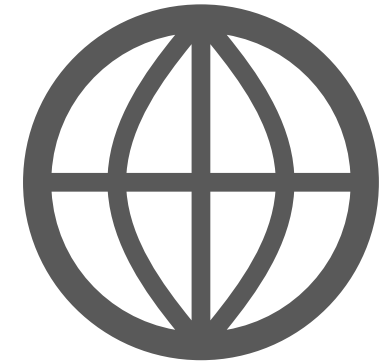


FIDO2 & Passkeys



Private key

Register



Public key

FIDO2 & Passkeys



FIDO2 & Passkeys



Usable & Fast

Nothing to remember

Phishing-resistant

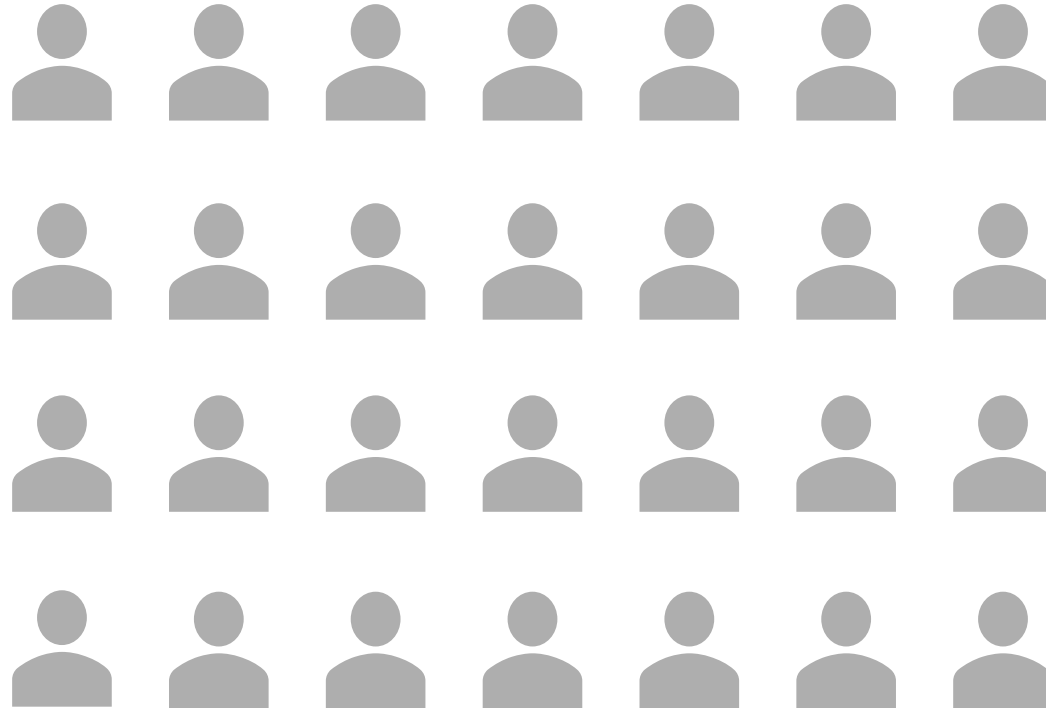
Why Aren't We Using Passkeys?

awareness of & **opinions** about FIDO2

experiences with passwordless

obstacles when deploying

participants.



32

participants

28

interviews

participants.

*6 FIDO
experts*



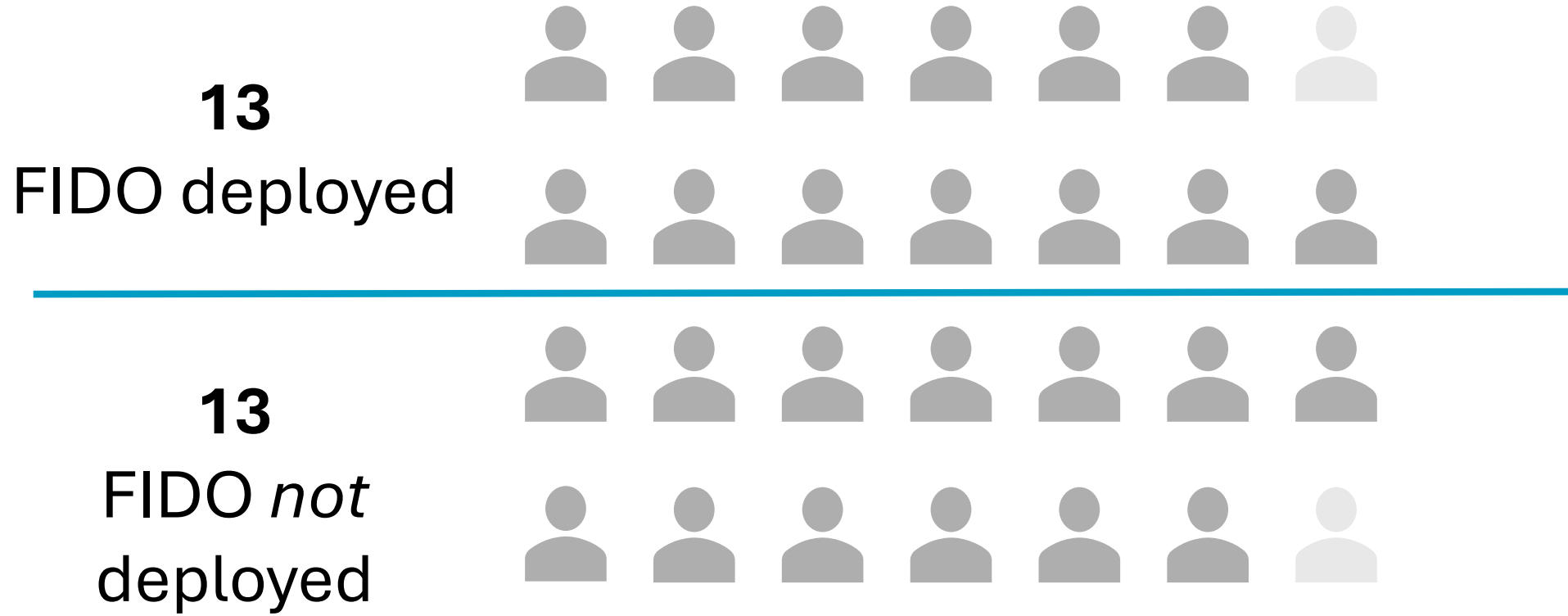
*4 IAM
vendors*



18

organizations





results.

awareness.

“

*“Awareness is there,
people want to implement it.”*

expert 5

obstacles.

obstacles.



Regulations &
Requirements



Usability



Technical



Universality



Organizational

obstacles.



Regulations &
Requirements



Usability



Technical



Universality



Organizational



Regulations

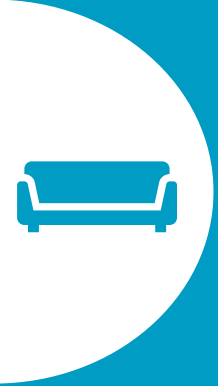
“

“no serious bank will use FIDO”

expert 4

obstacles.

- Non-compliant policies
- PSD2
- eIDAS



Usability

“

“That’s not really a great user experience. In an enterprise, inconvenience may be ok. But for the broad consumer, not at all.”

expert 5

obstacles.

- Complex to explain FIDO
- Concrete usability hardships
- Lack of standardized fallback



Technical

“

“Many configuration options are not obvious, combinations don’t make sense, or offer the protection you think.”

auth vendor 4

obstacles.

- Complex for developers
- Legacy software



Organizational

“

“If Google has objections, and they do not implement [a feature] in Chrome, it’ll never gain adoption.”

expert 5

obstacles.

- On- & Offboarding
- Credential sharing
- Passkey management
- Powerful stakeholders
- Conflicts of interest




“FIDO2 ~~will kill~~ passwords”








**“FIDO2 will reduce the
overreliance on passwords”**



Why Aren't We Using Passkeys?

-  awareness & opinions
-  experiences
-  obstacles

-  Regulations
-  Usability
-  Technical
-  Universality
-  Organizational

“passwordless” = “less passwords” *[sic]*



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