MINDSHARE 2024 AGENDA

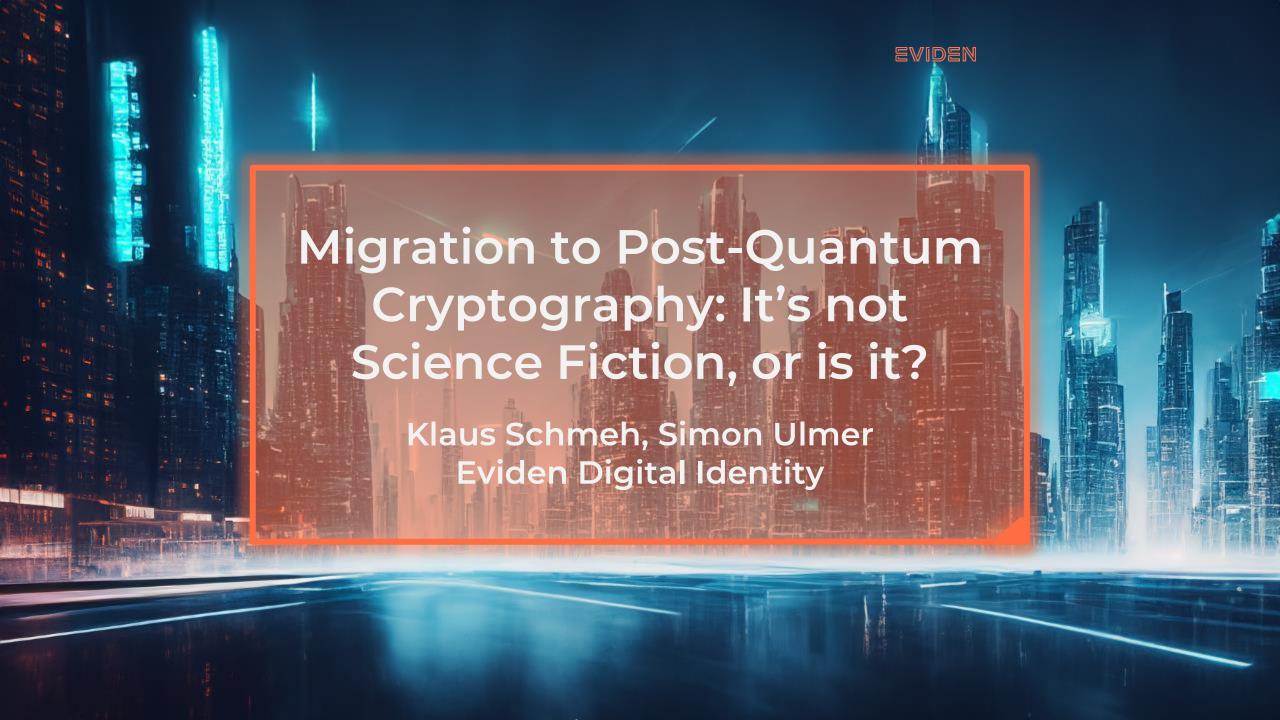


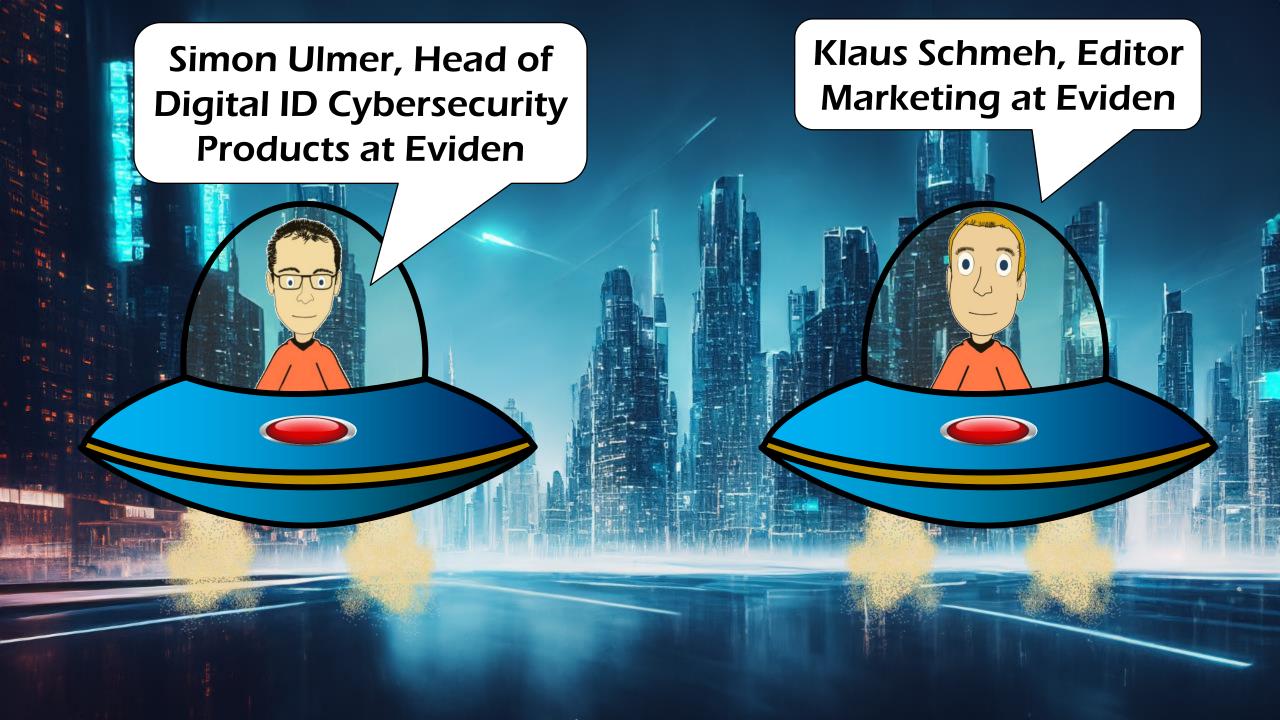
SCAN NOW!



EVIDEN



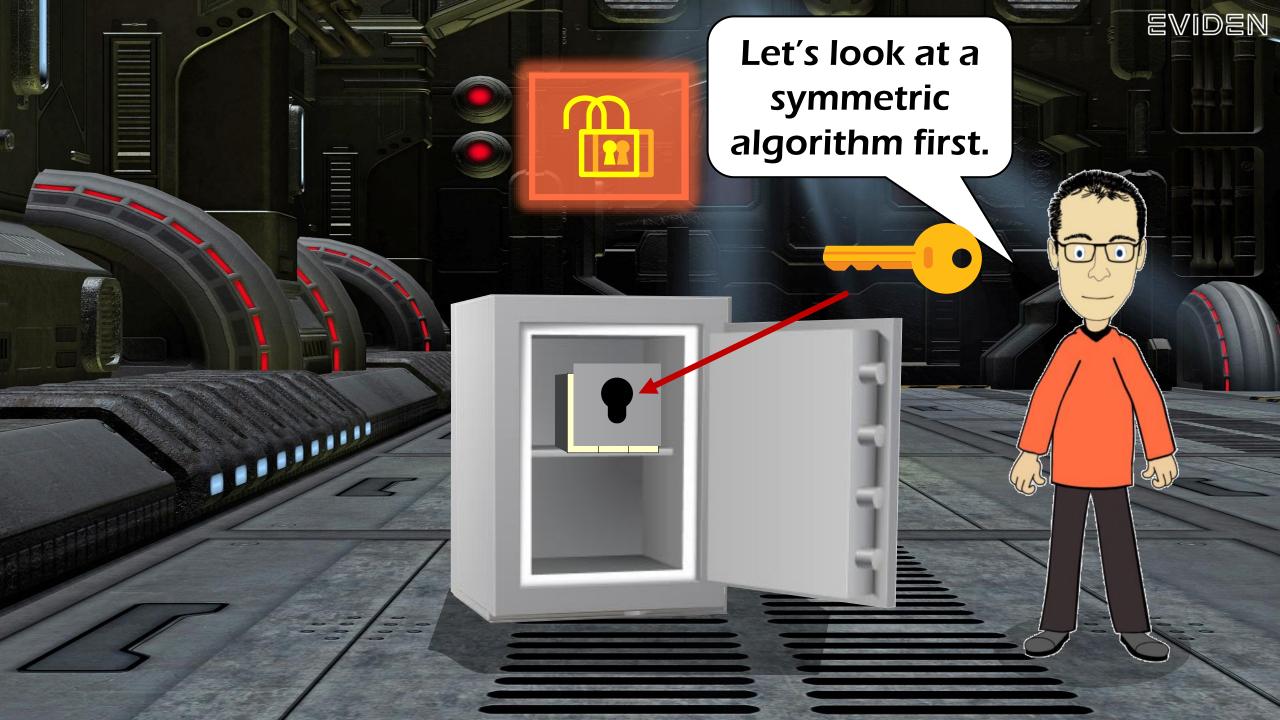


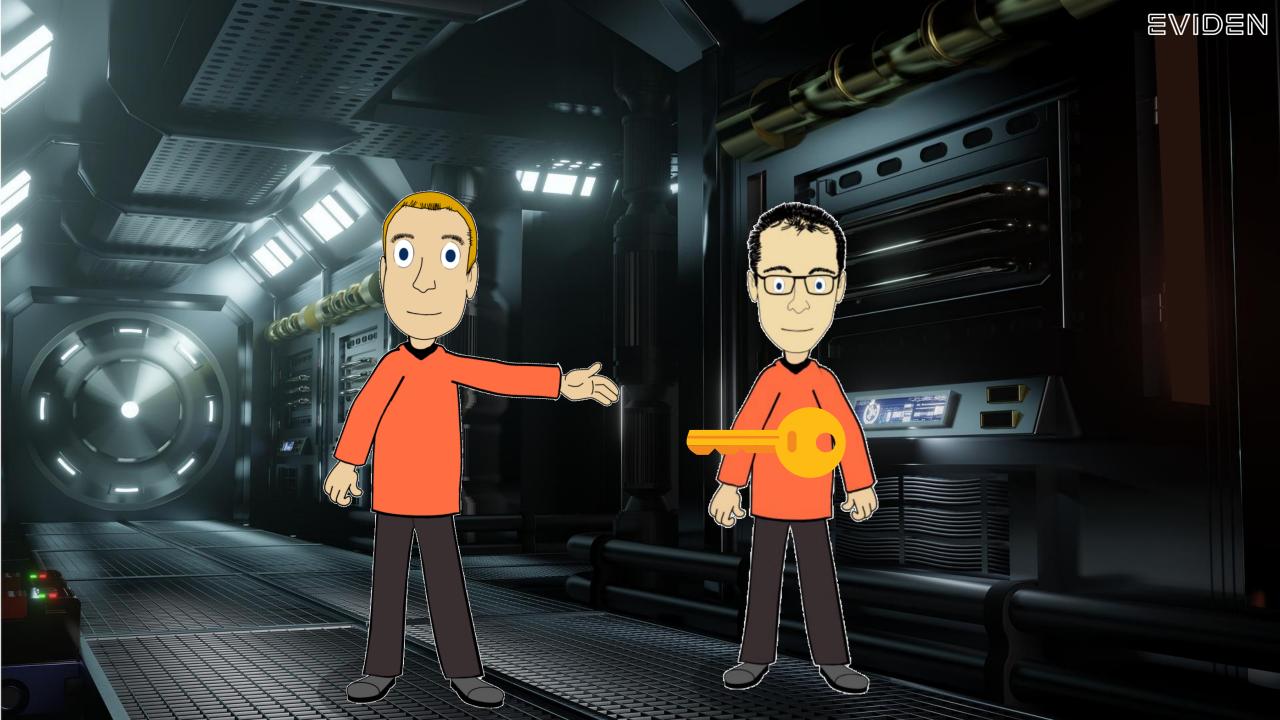


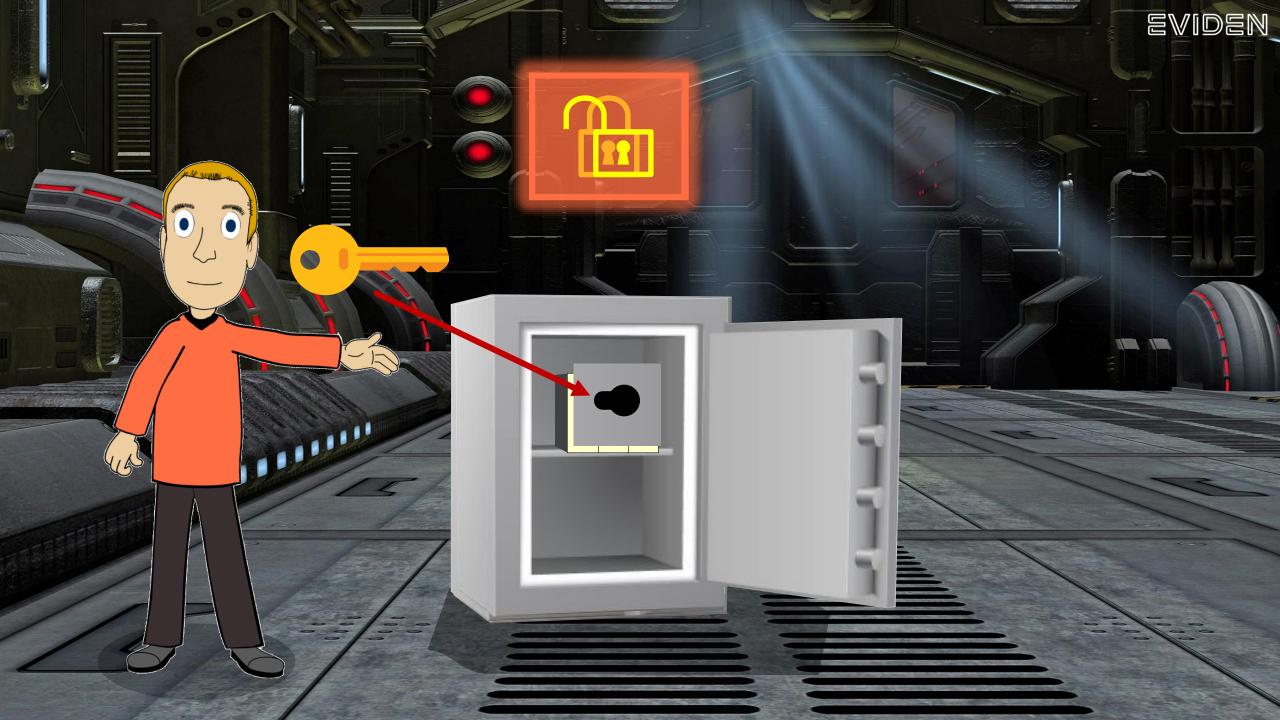


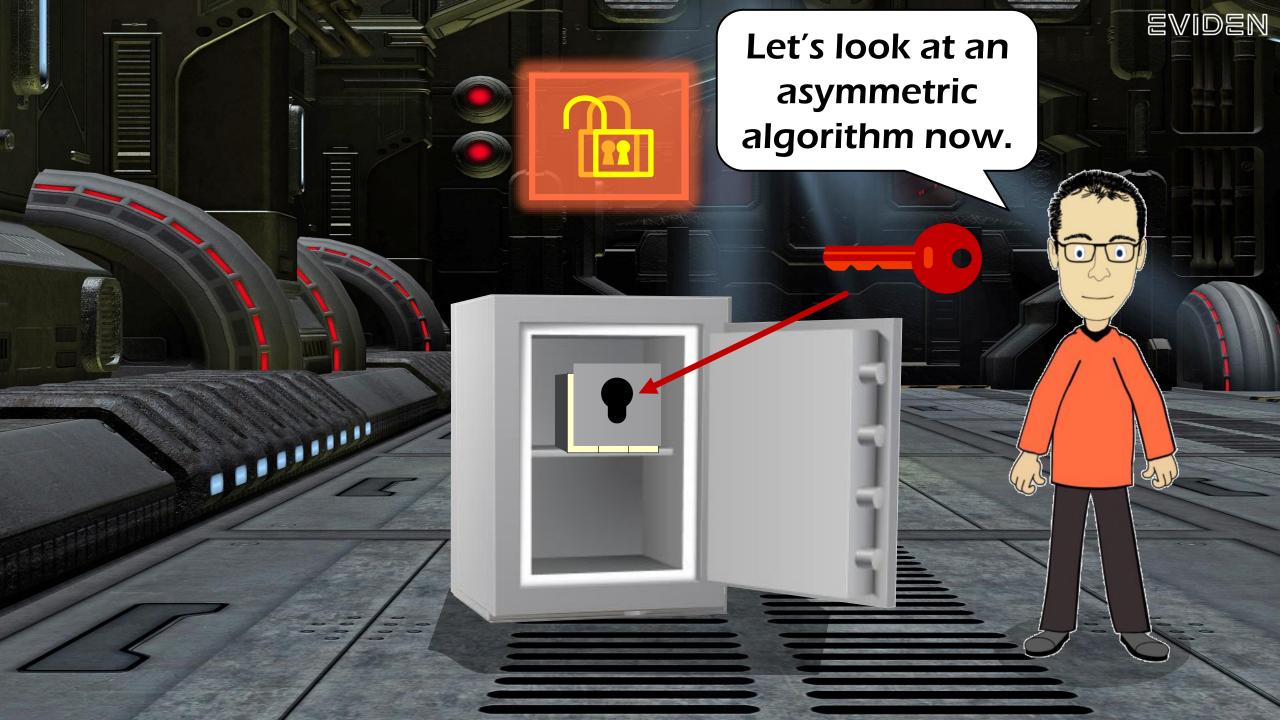


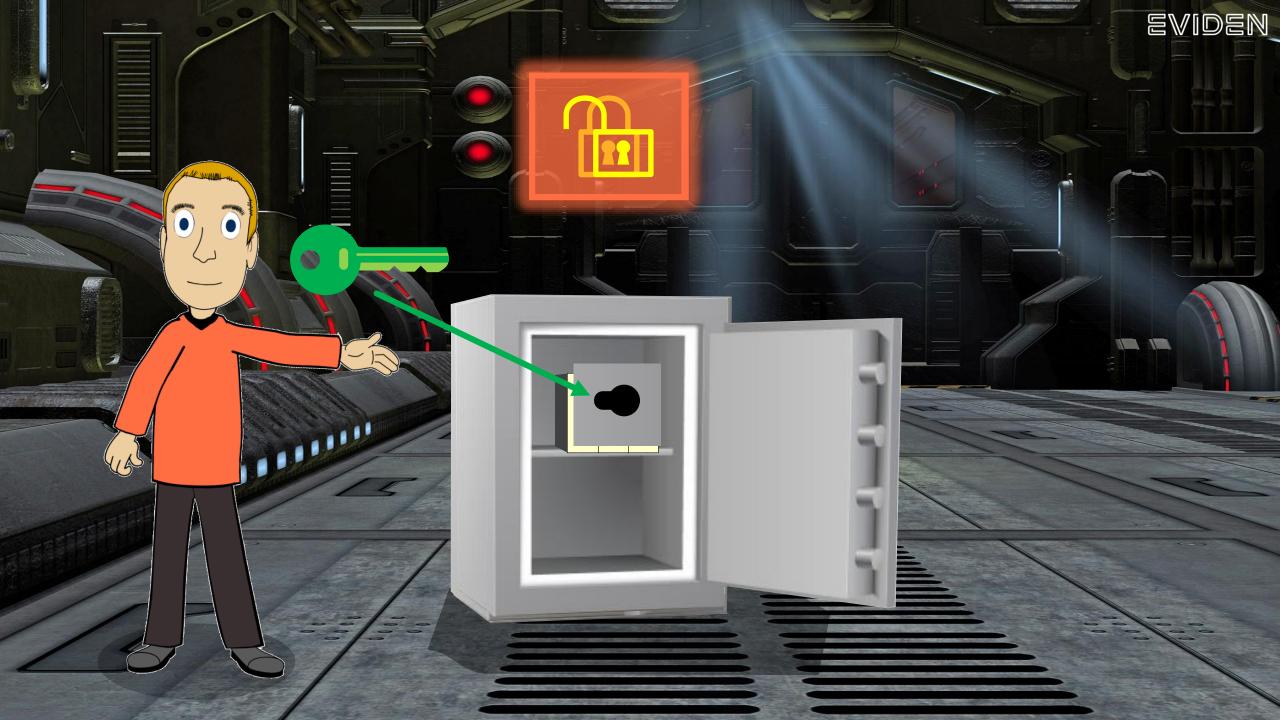












RSA Crypto System

Can be used for encryption or digital signatures

 $17 \times 23 = 291$

prime prime

Multiplication is easy, factorization is difficult

RSA Crypto System

Private key

= key to open safe

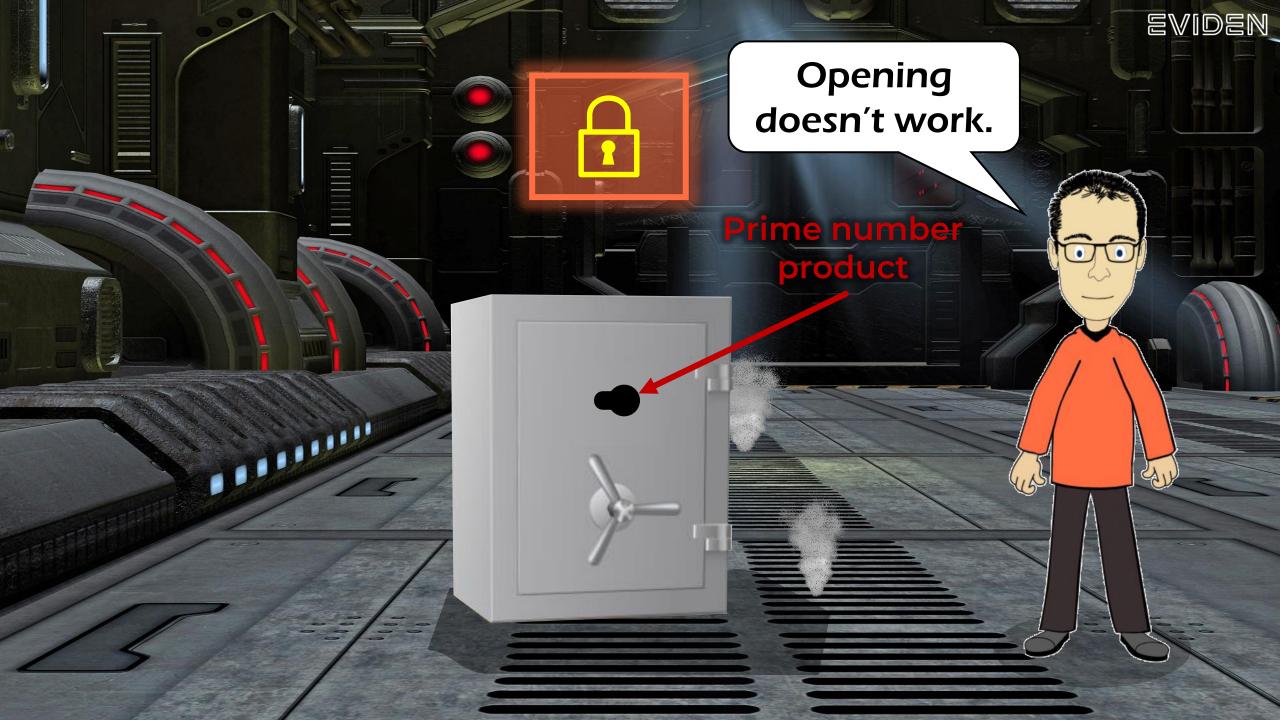
Public key

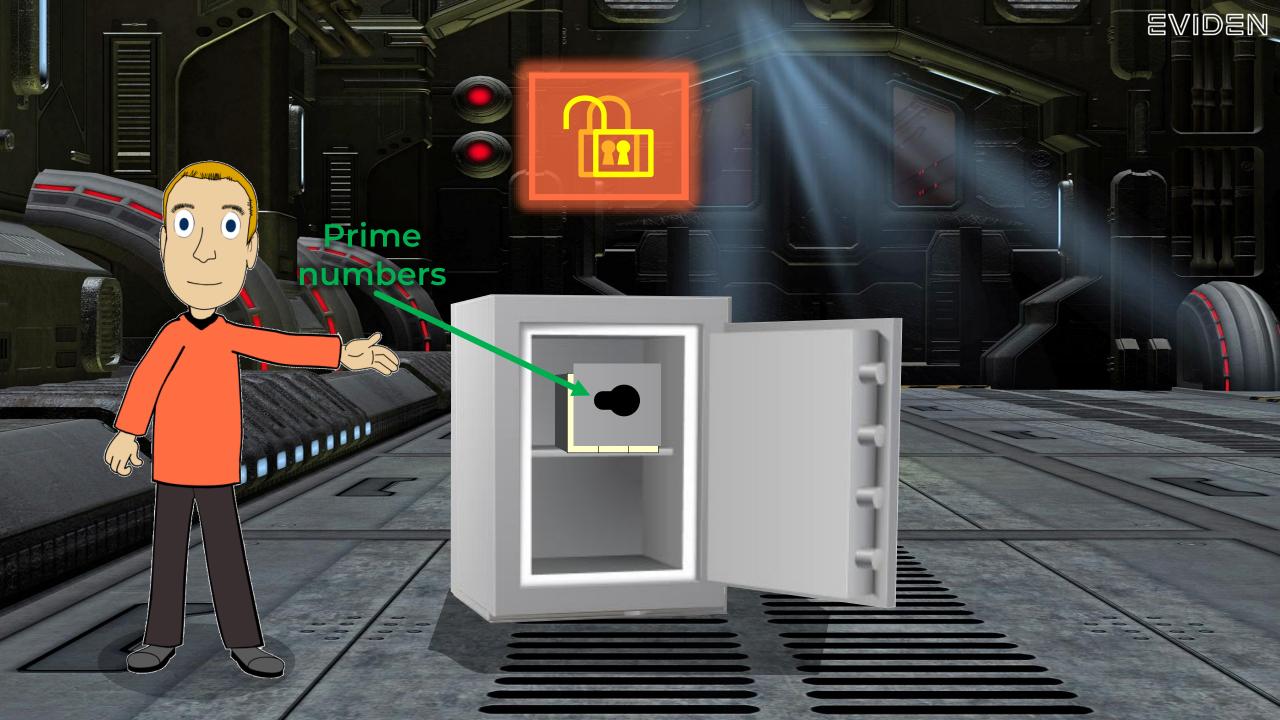
= safe

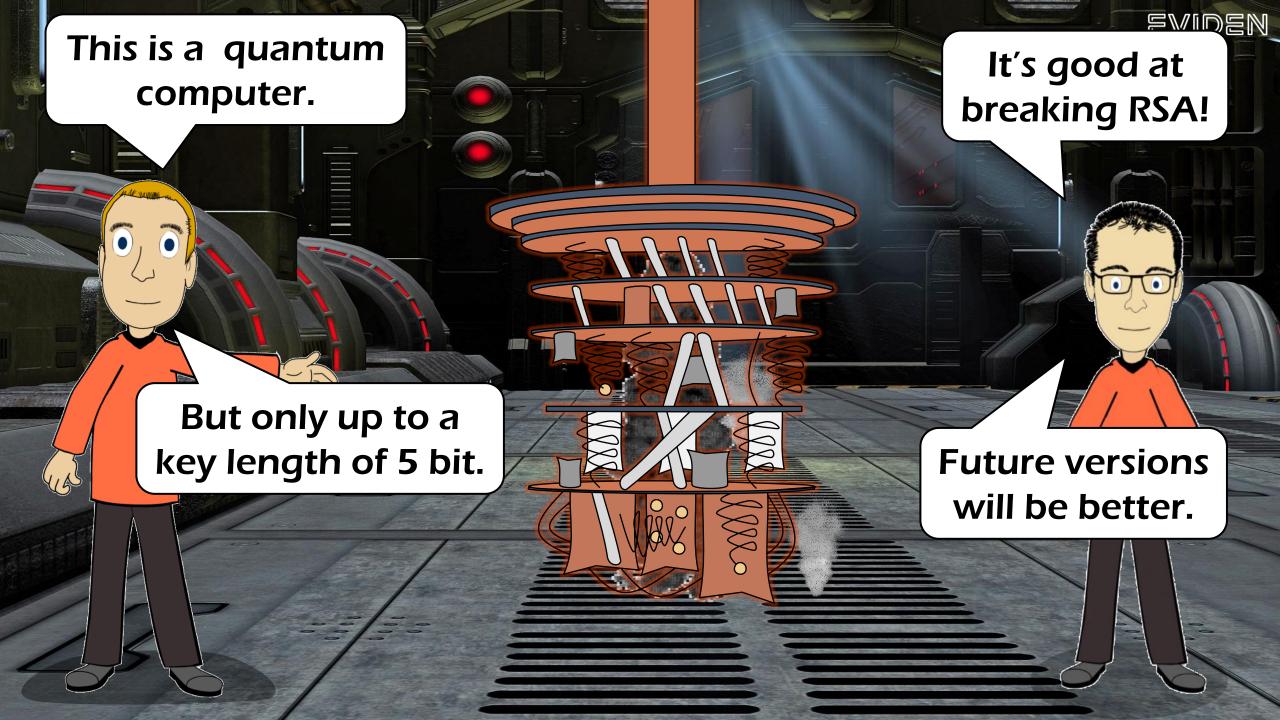
17×23 - 291

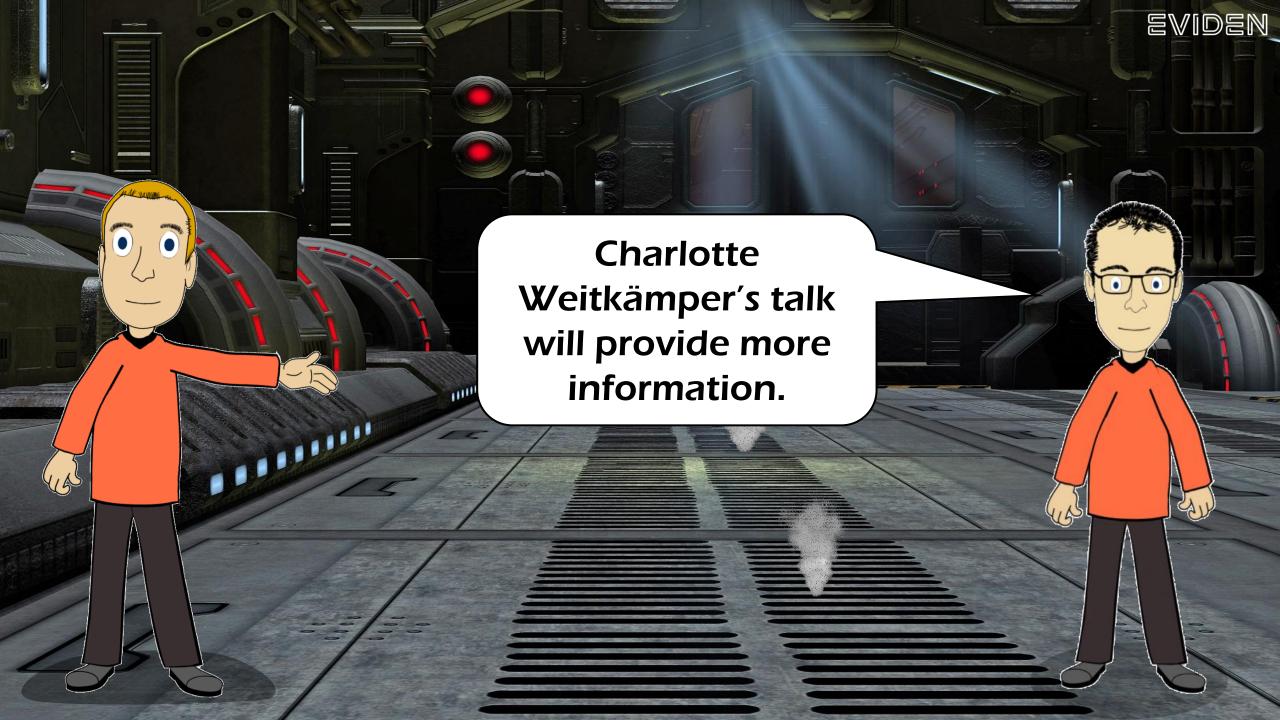
Typical public key length: 2048 bit

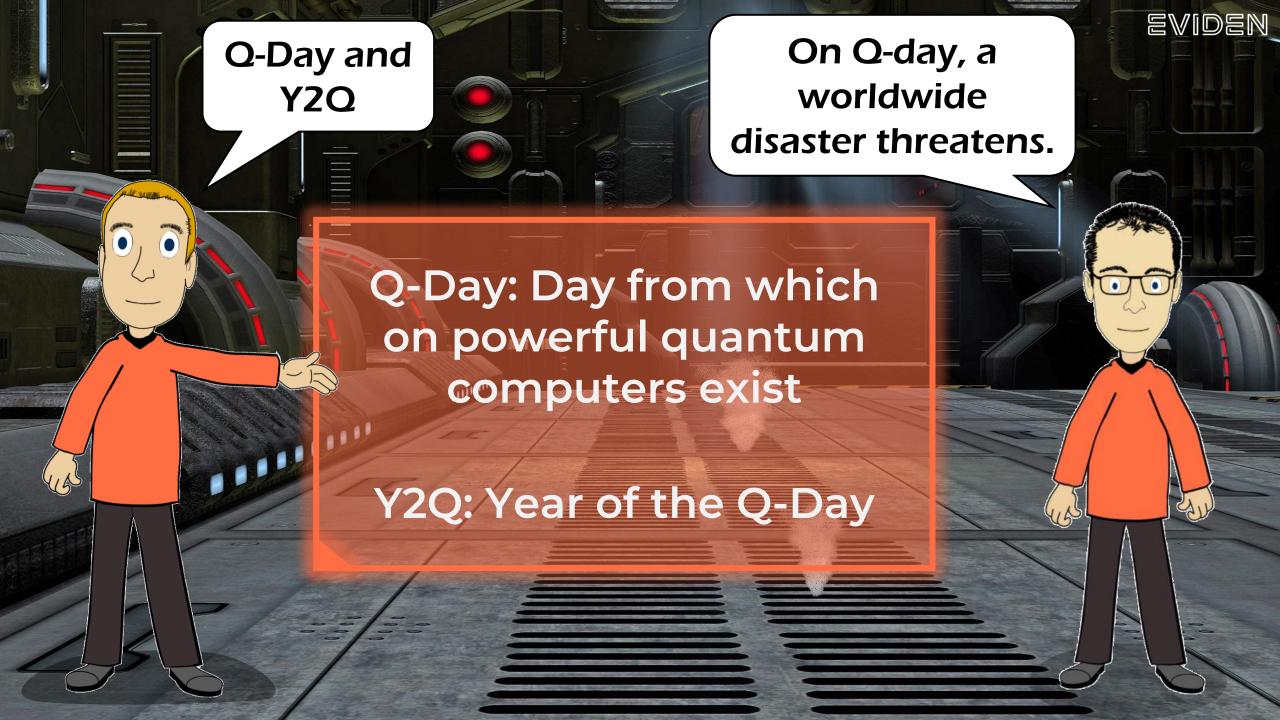






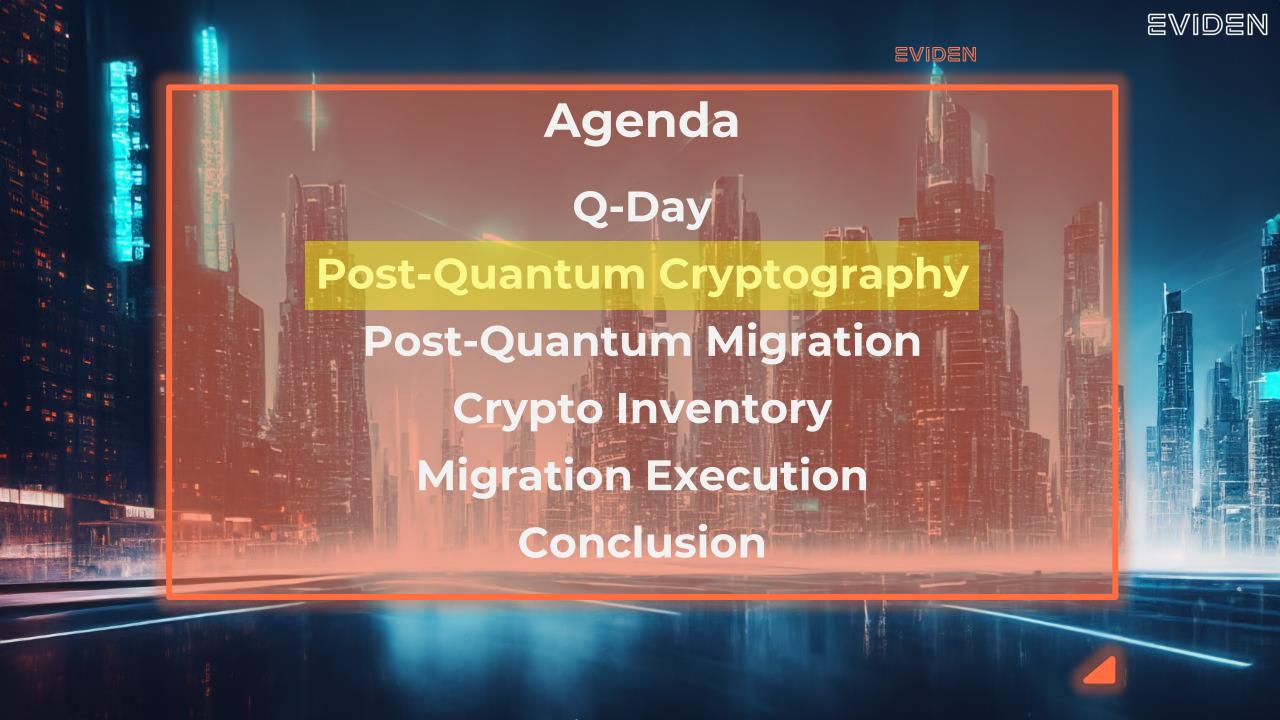


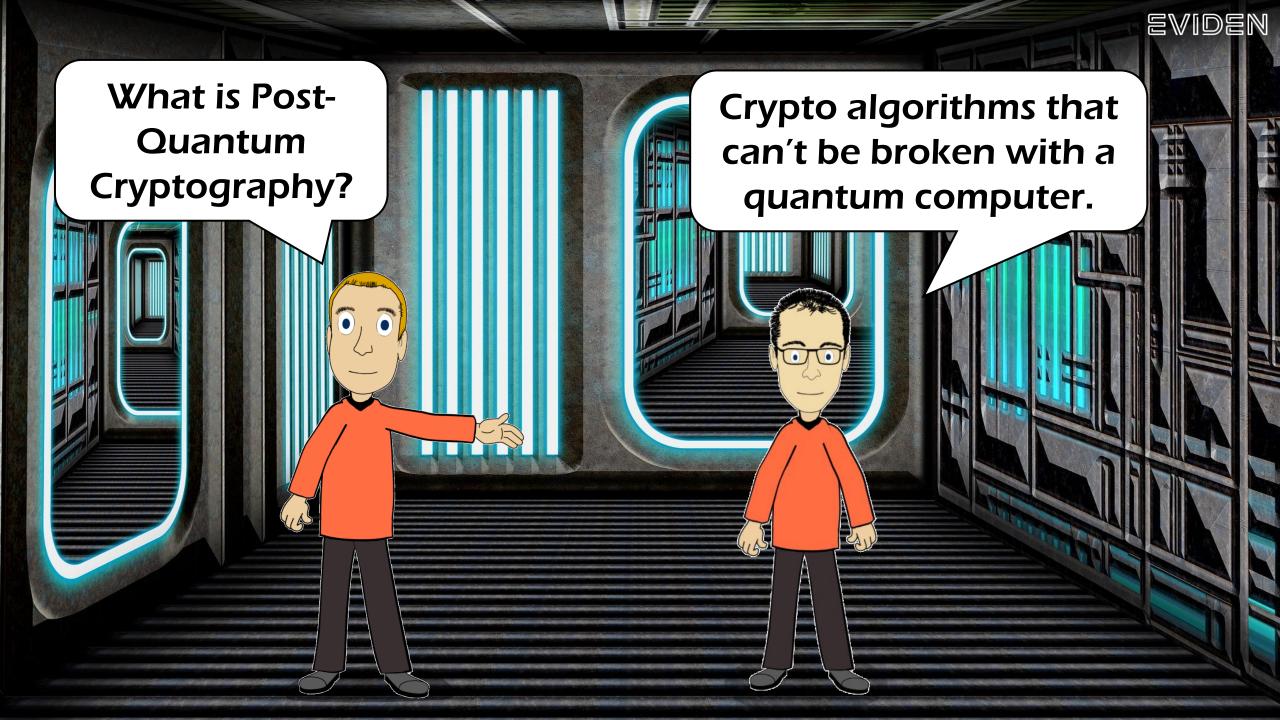


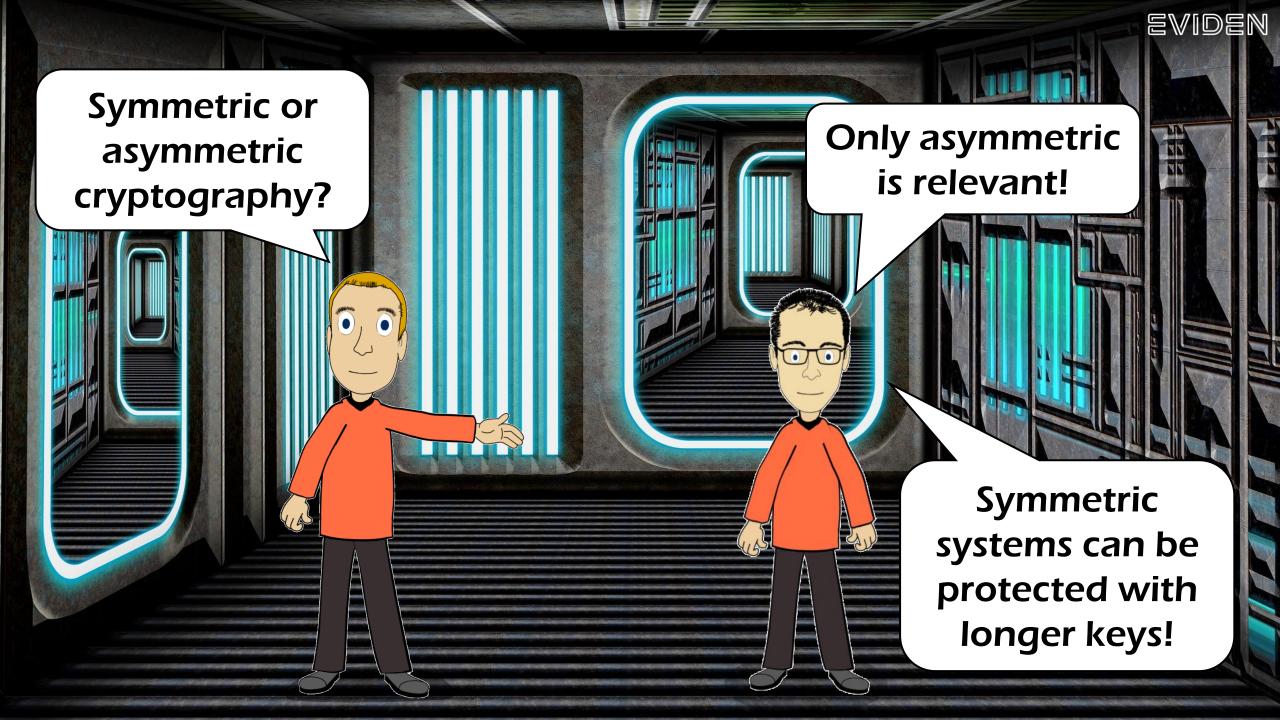














Post-Quantum algorithms (asymmetric)

Current algorithms

CRYSTALS-Kyber

CRYSTALS-Dilithium

FALCON

SPHINCS+

FrodoKEM

XMSS

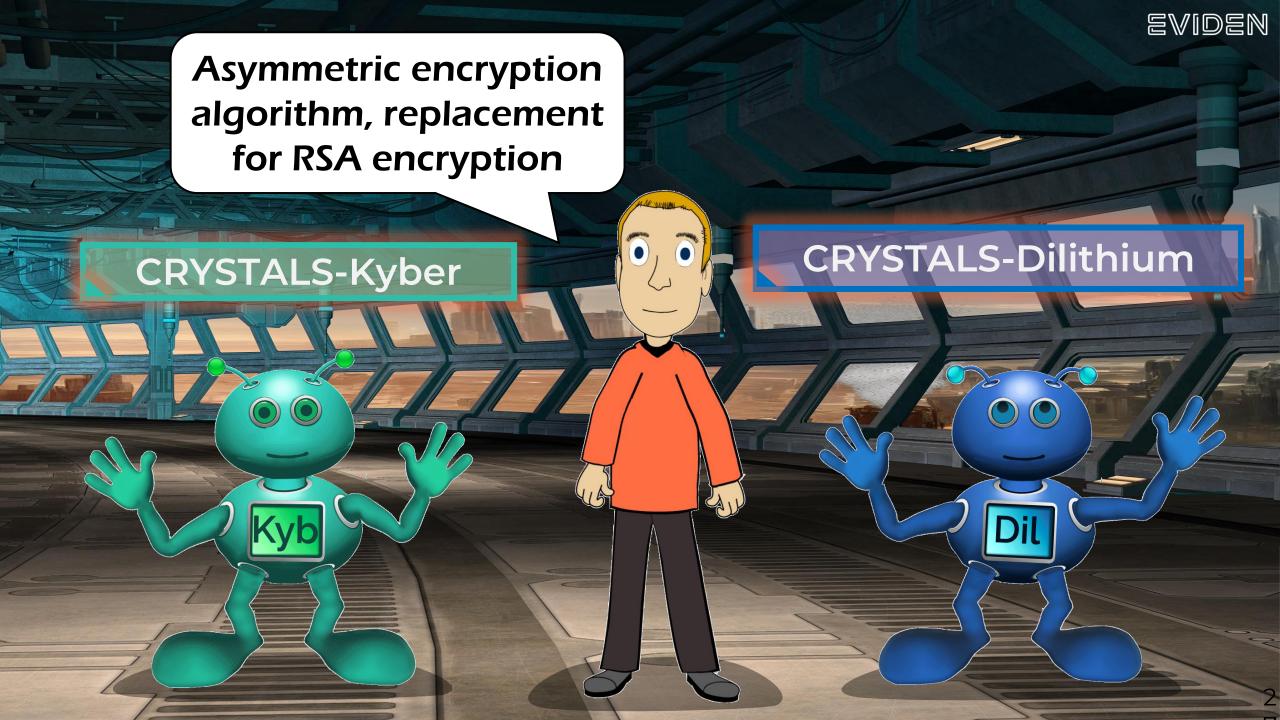
Leighton-Micali

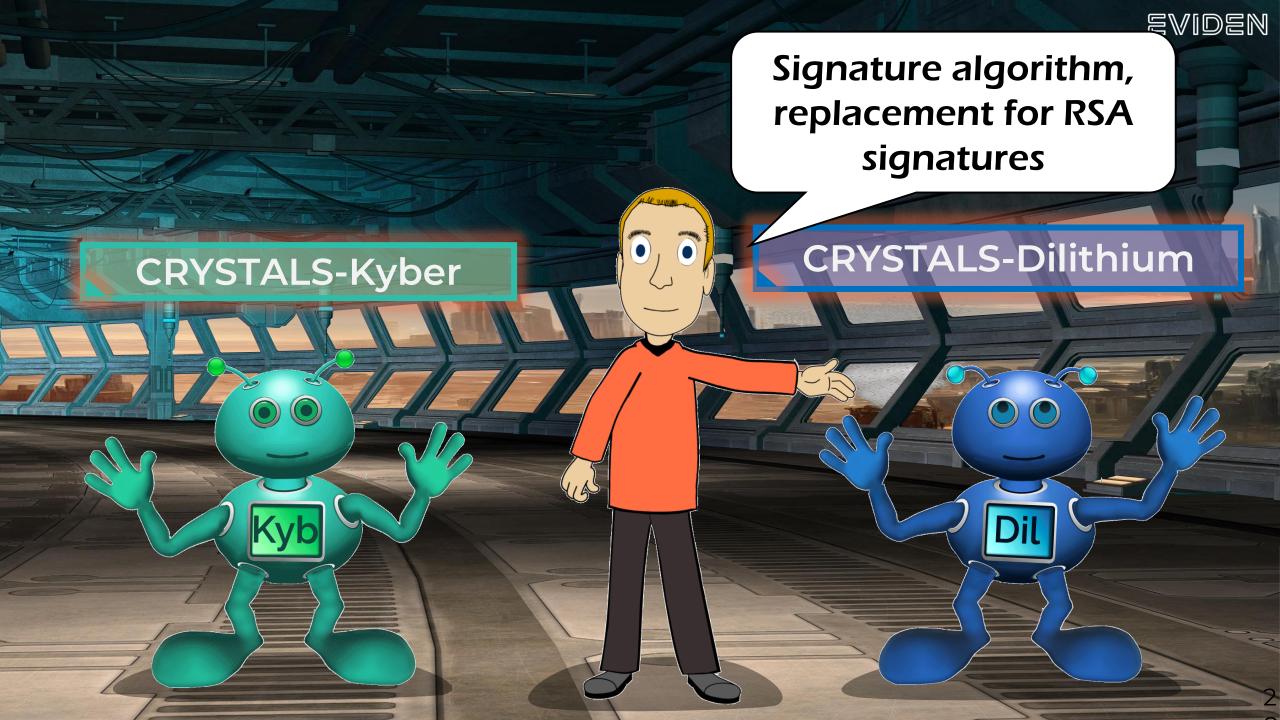
Under evaluation

McEliece

BIKE

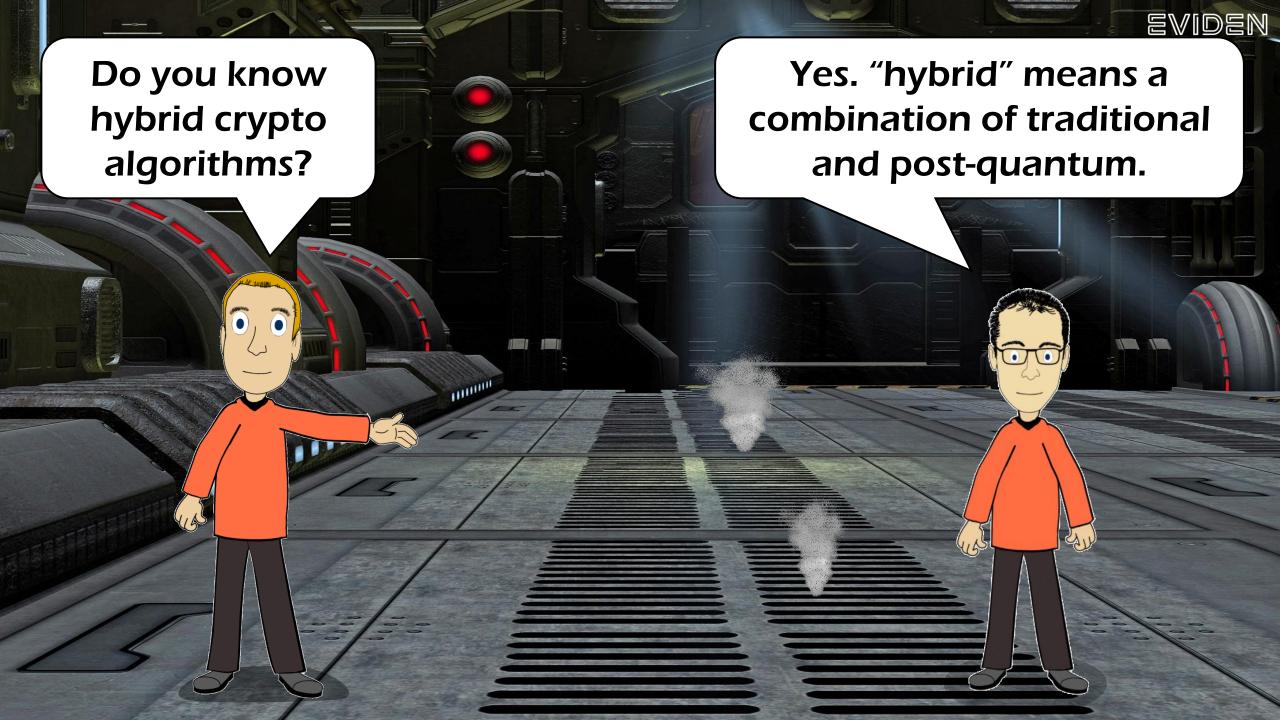
HQC

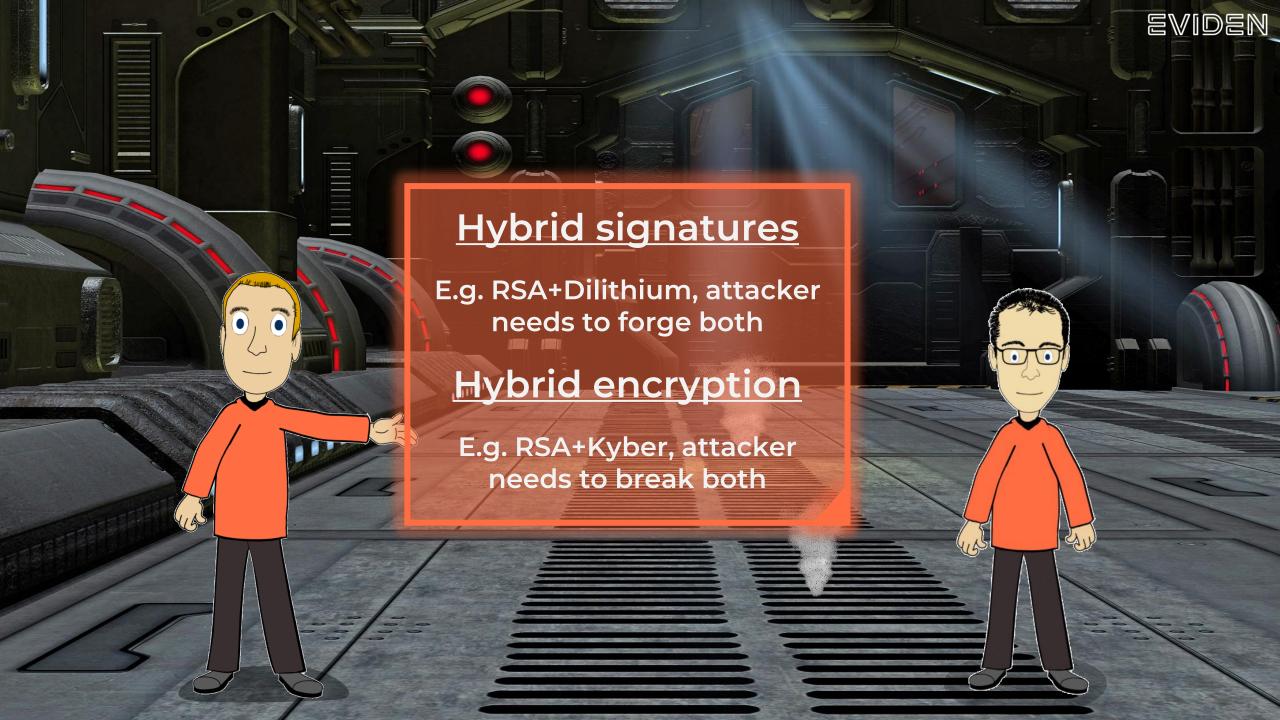


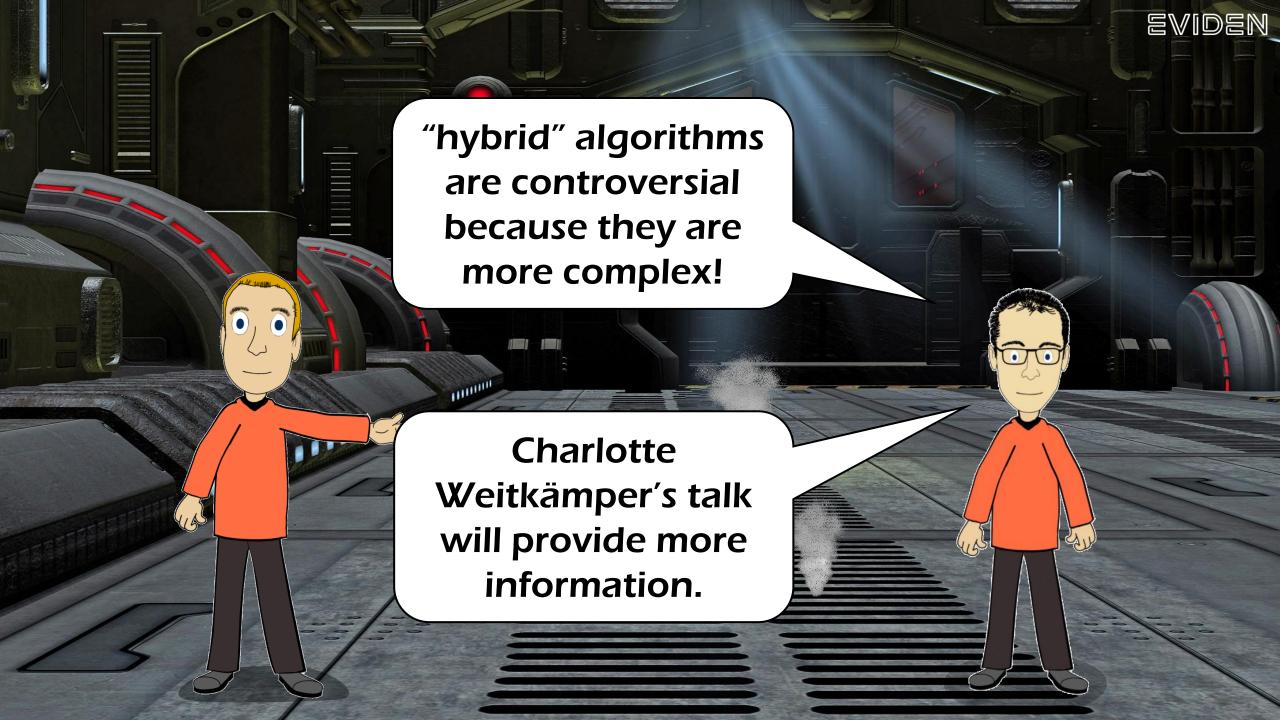






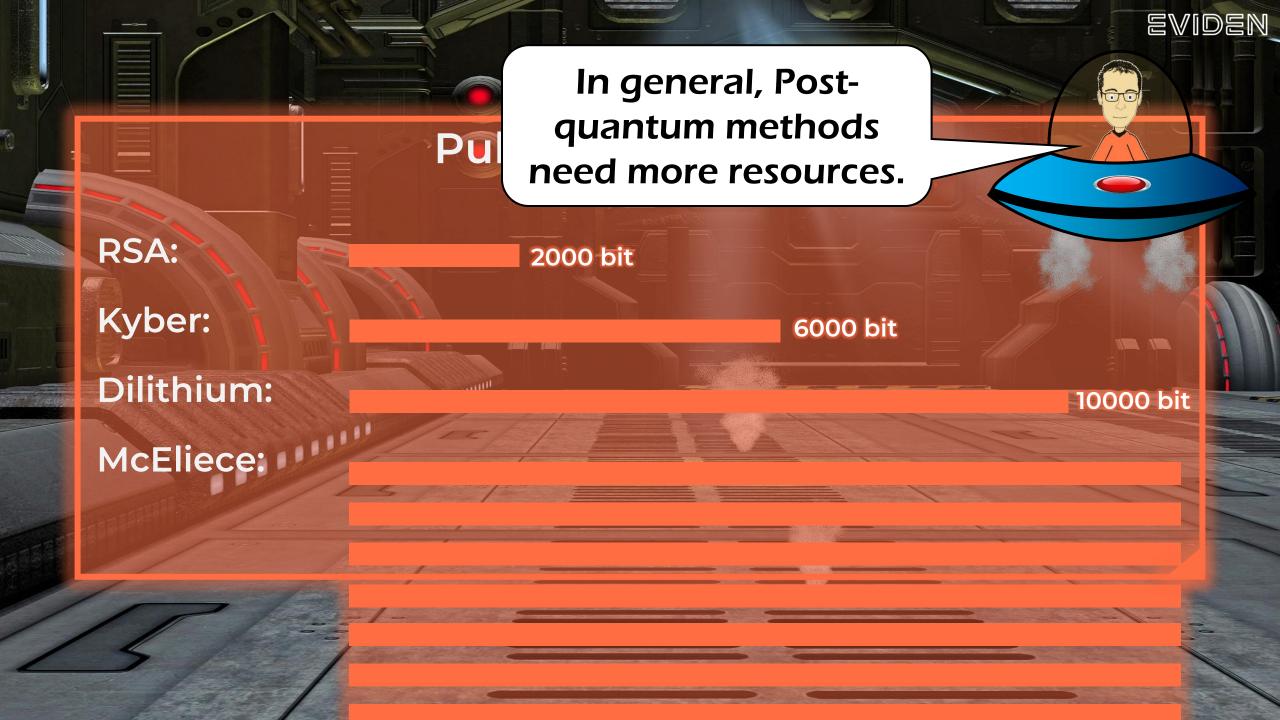




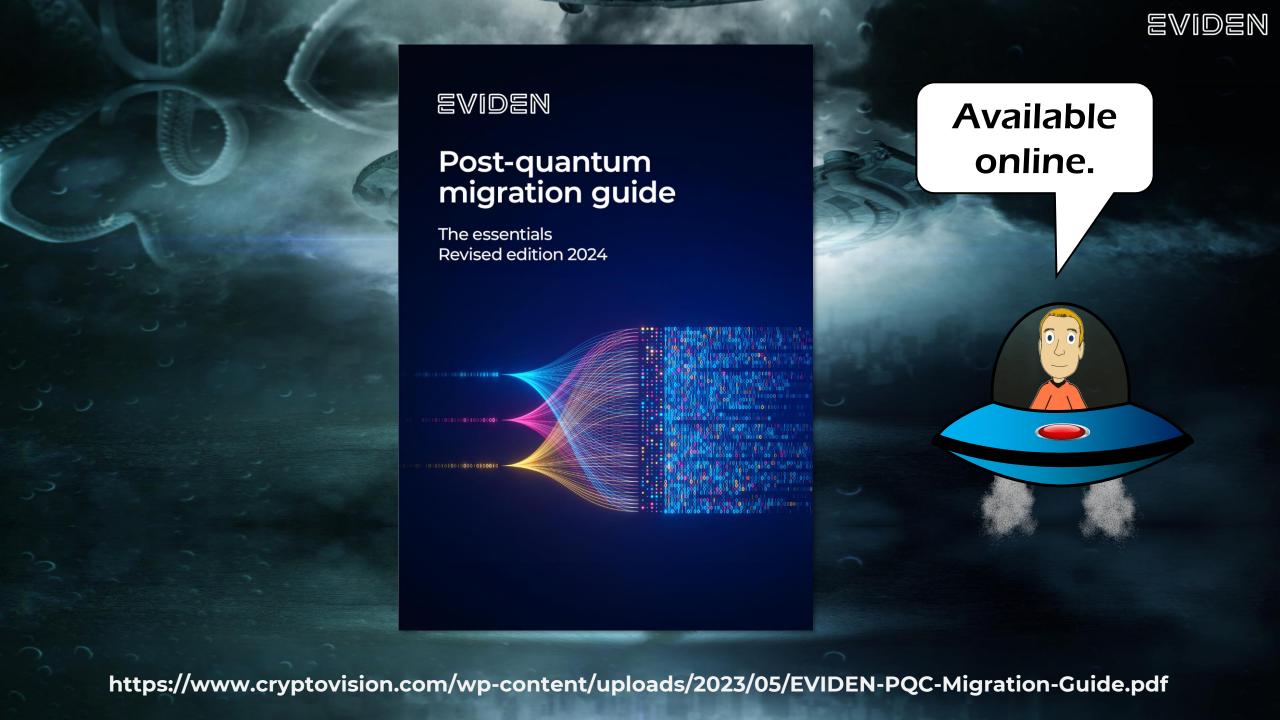


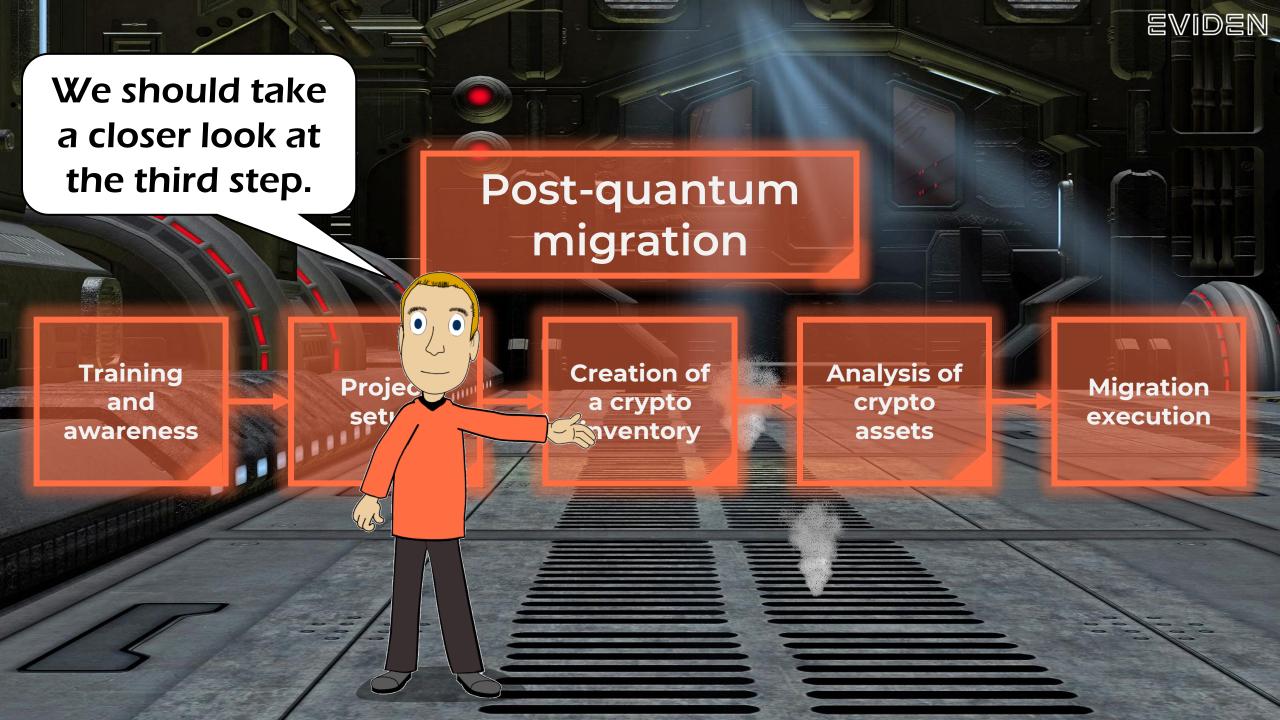




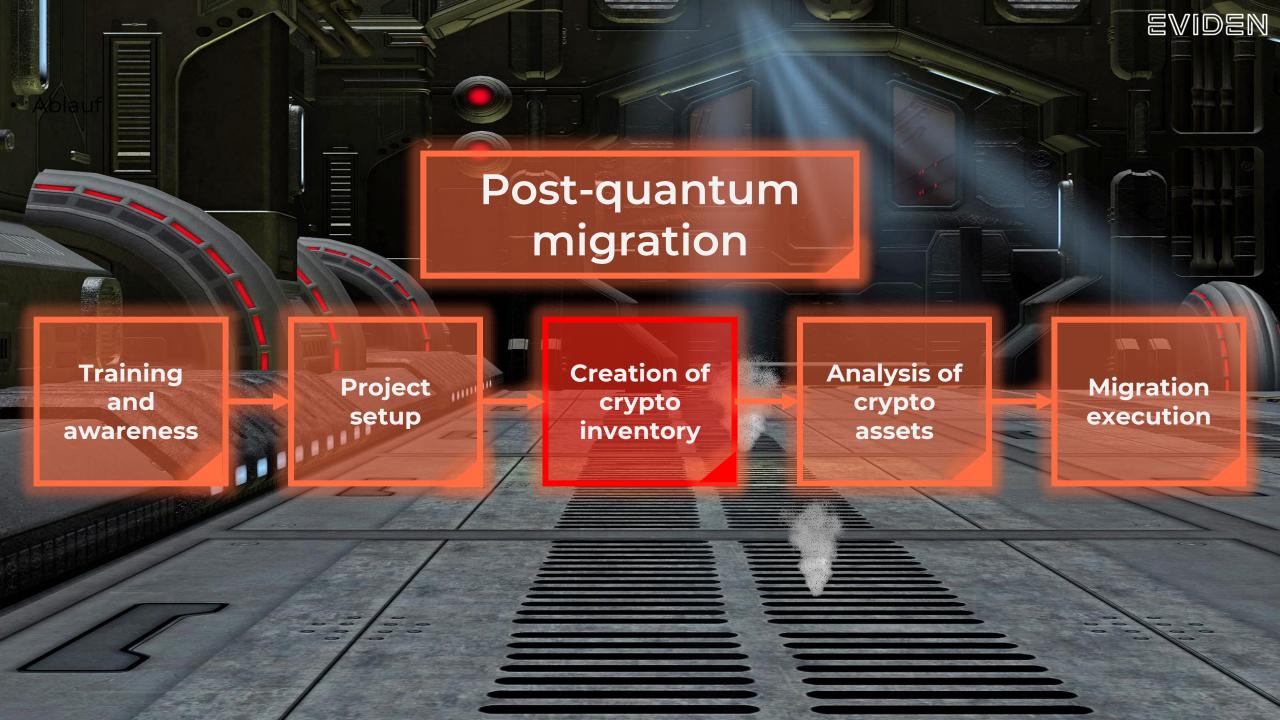








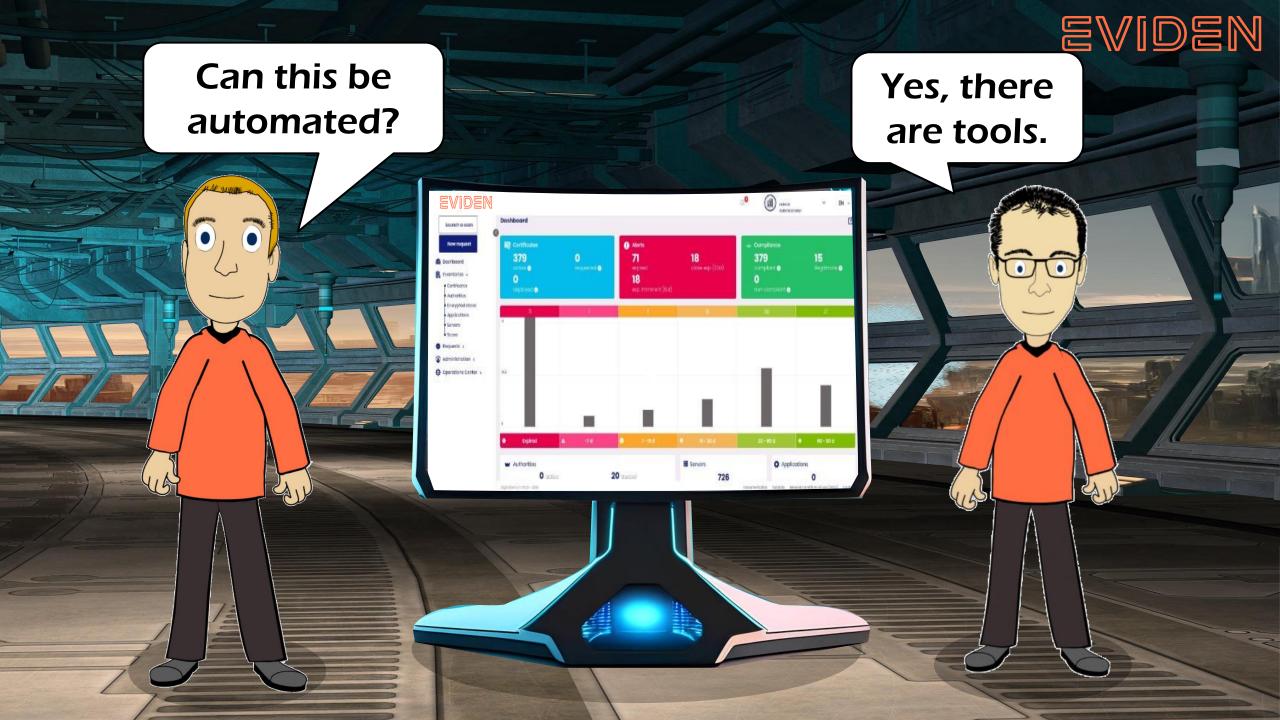


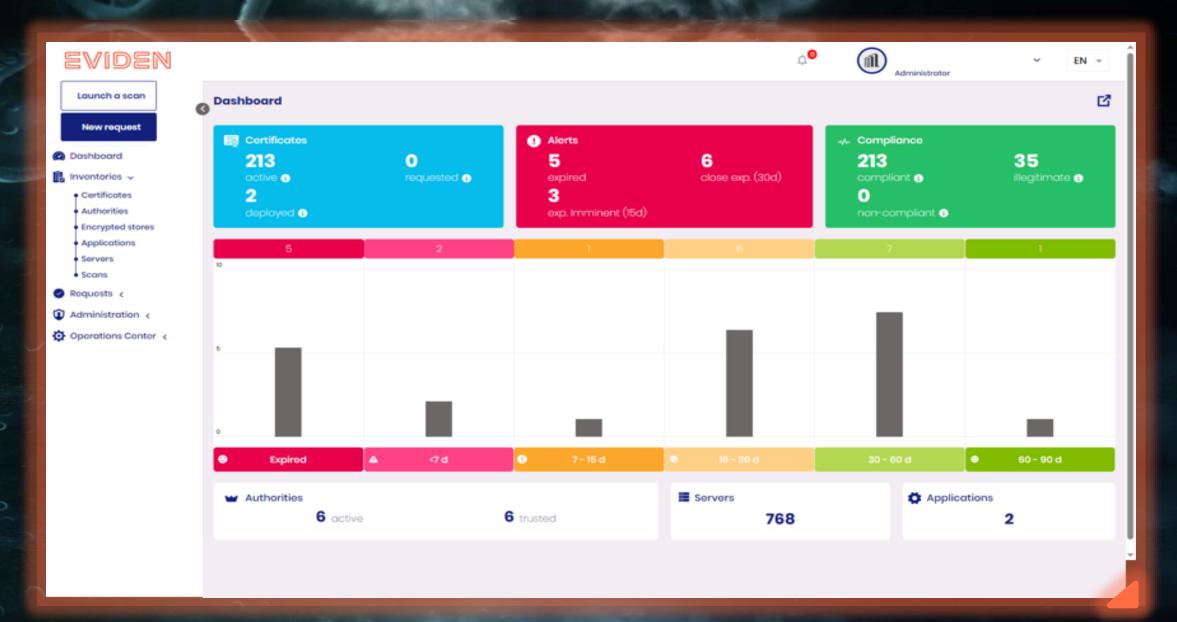


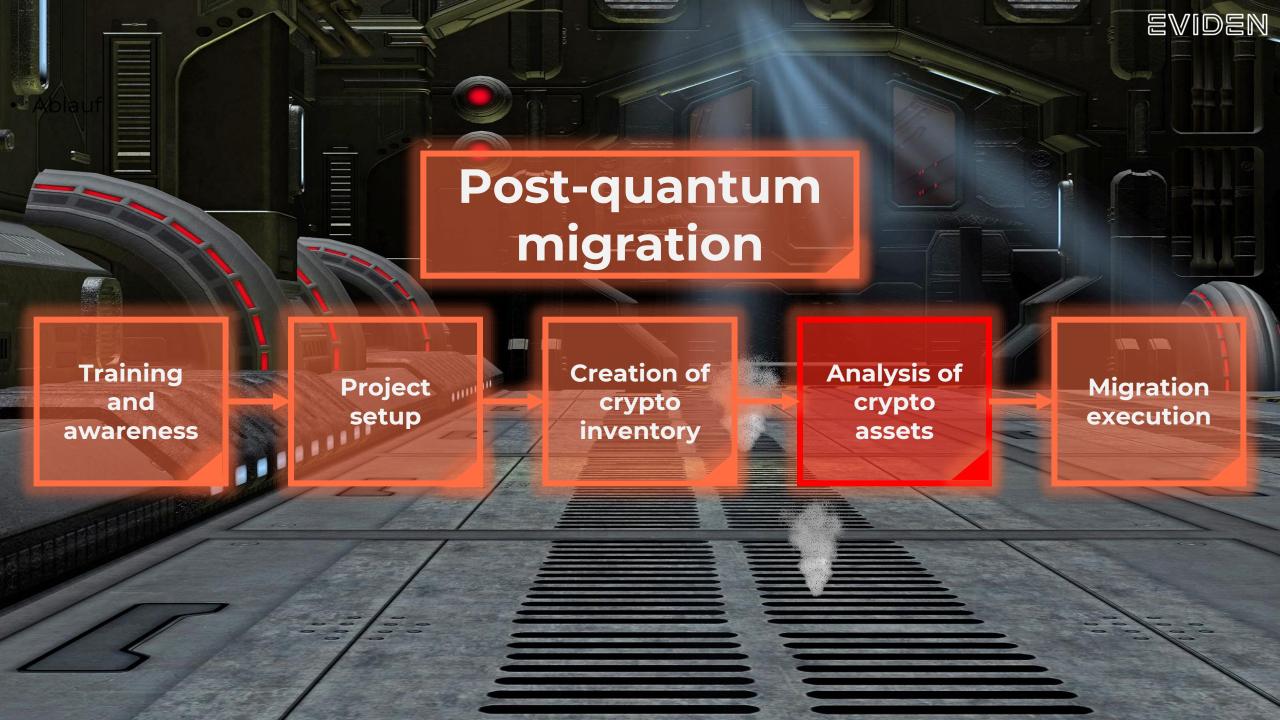


Crypto Inventory

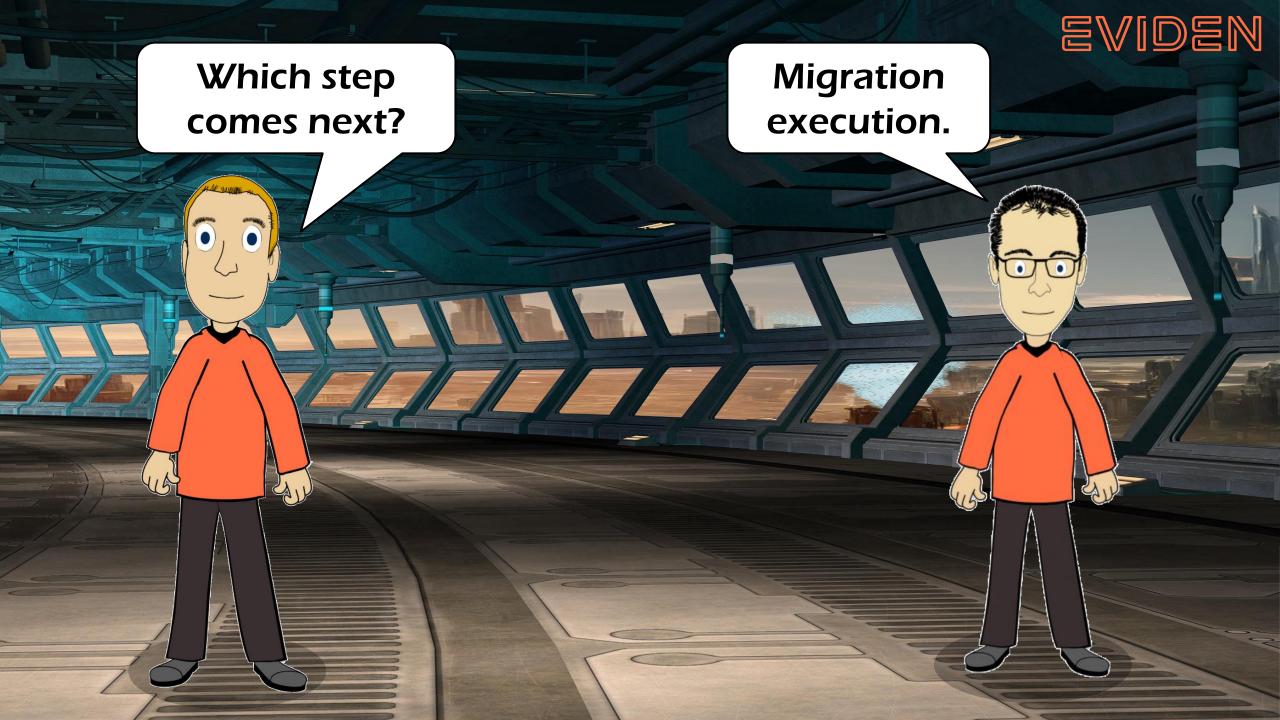
| ID | Field of application | Crypto solution | Crypto method | Status |
|------|---|--------------------------------------|----------------------------------|--------------------|
| 259 | Secure web access | Firefox TLS | AES-256 SHA-384 ECDH P-256 | PQC-readiness plan |
| 260 | File encryption for USB drives | VeraCrypt | AES-256 SHA-512 | PQC-ready |
| 263 | E-Mail encryption in controlling department | Outlook 2021 for Windows | AES-256 SHA-384 RSA-2048 | PQC-readiness plan |
| 264 | E-Mail encryption in development department Disc | over weak p | oints | PQC-readiness plan |
| 267 | E-Mail crypto gateway | ABC Secure Mail Gate crease visibil | AES-256 SHA-384 | PQC-readiness plan |
| 269 | VPN client | ARÇ V/DNI | SHA-1 RSA-1024 | PQC-option |
| 270. | E-mail signature | Mail-Sign | AES-256 | POC-readings plan |



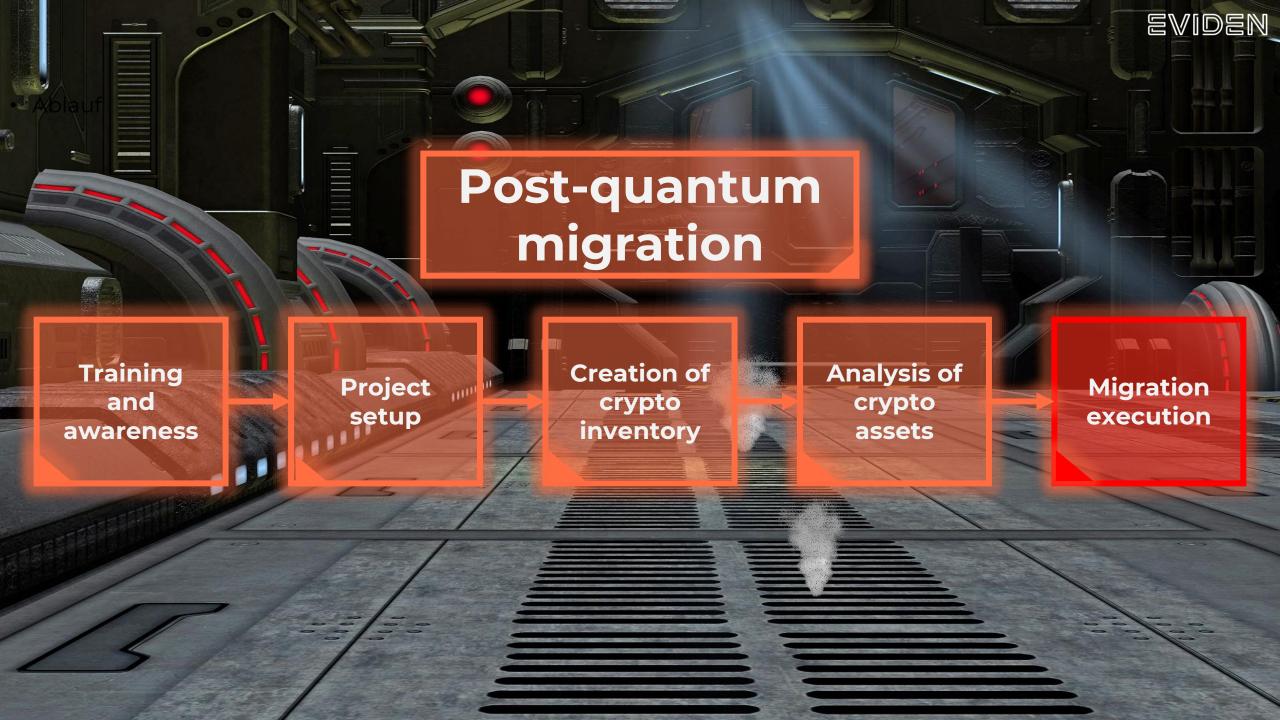




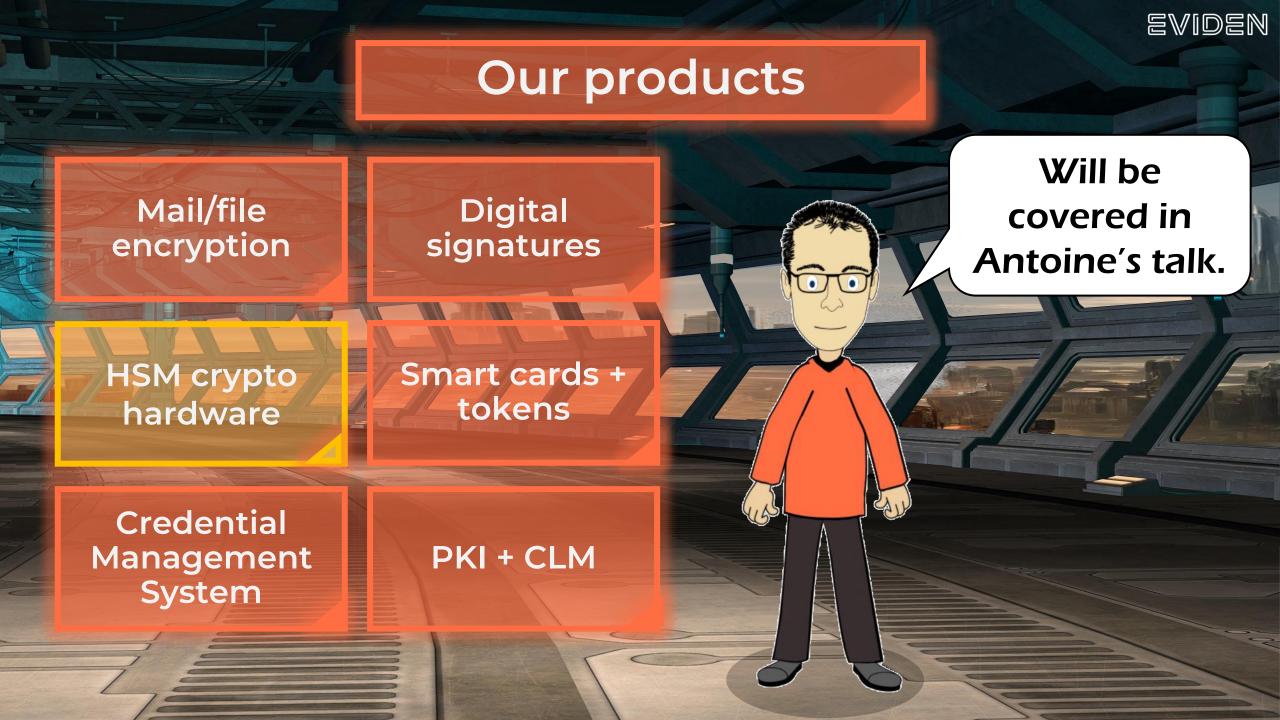




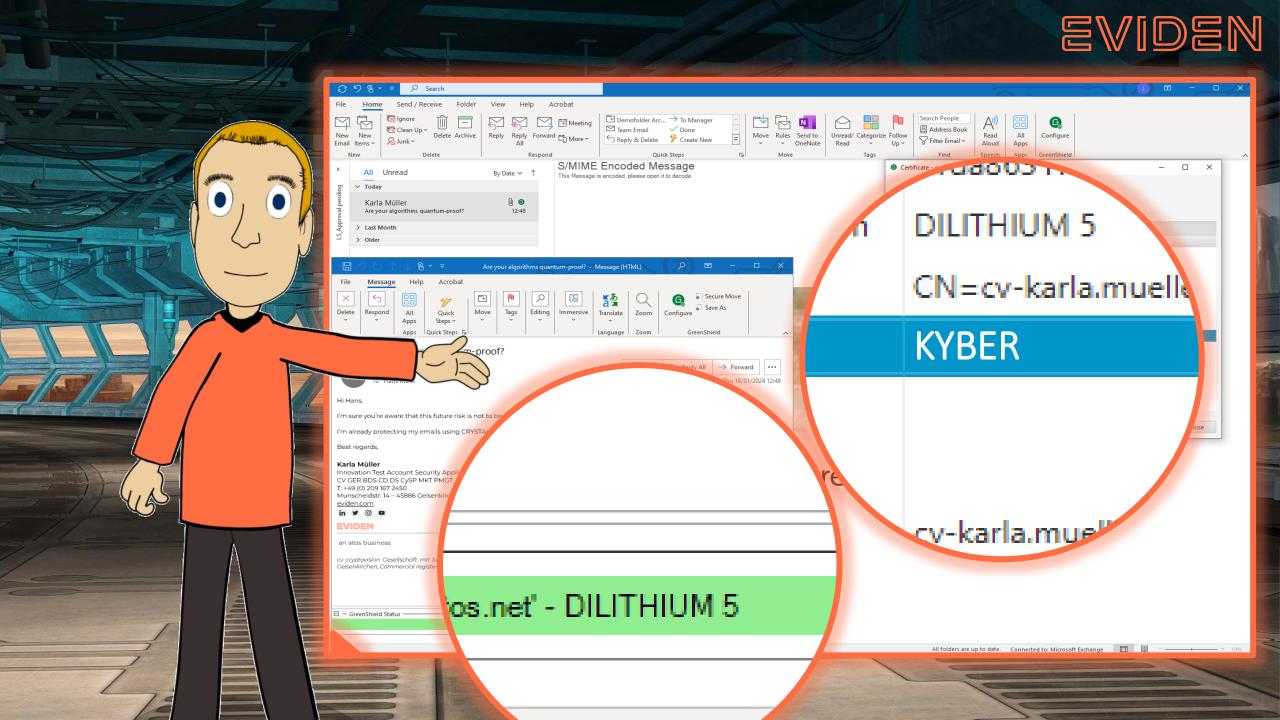




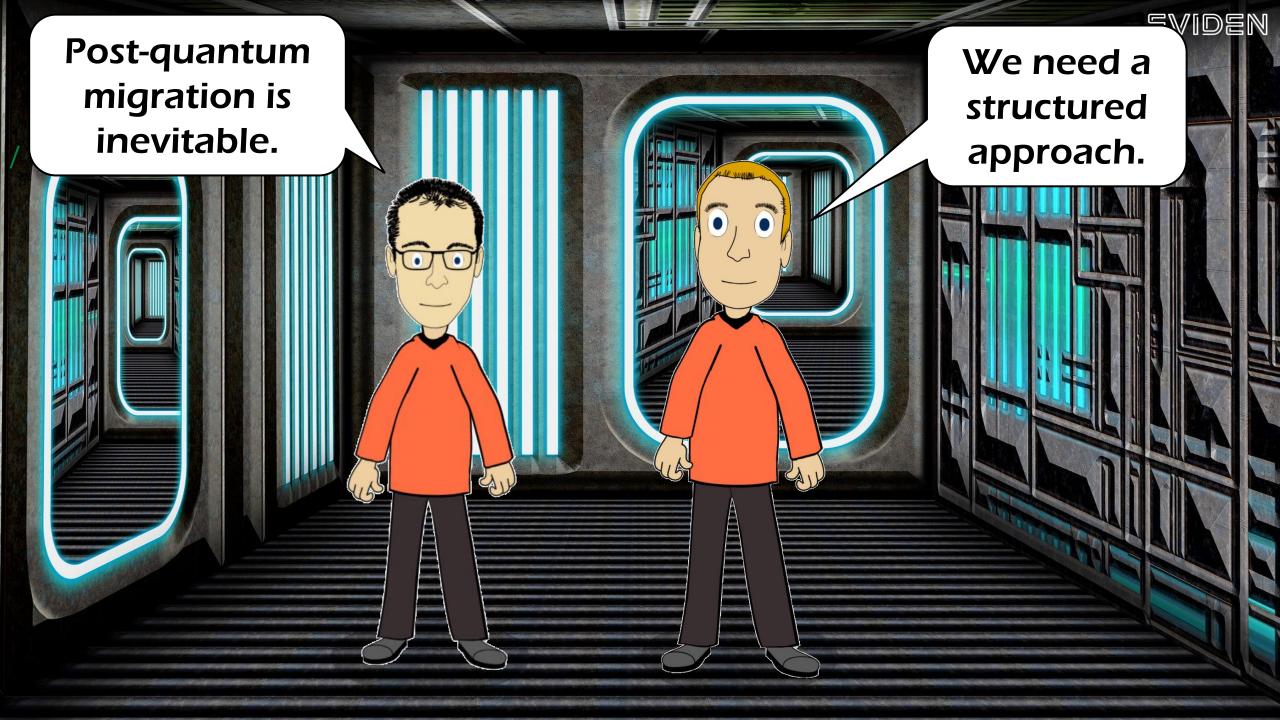


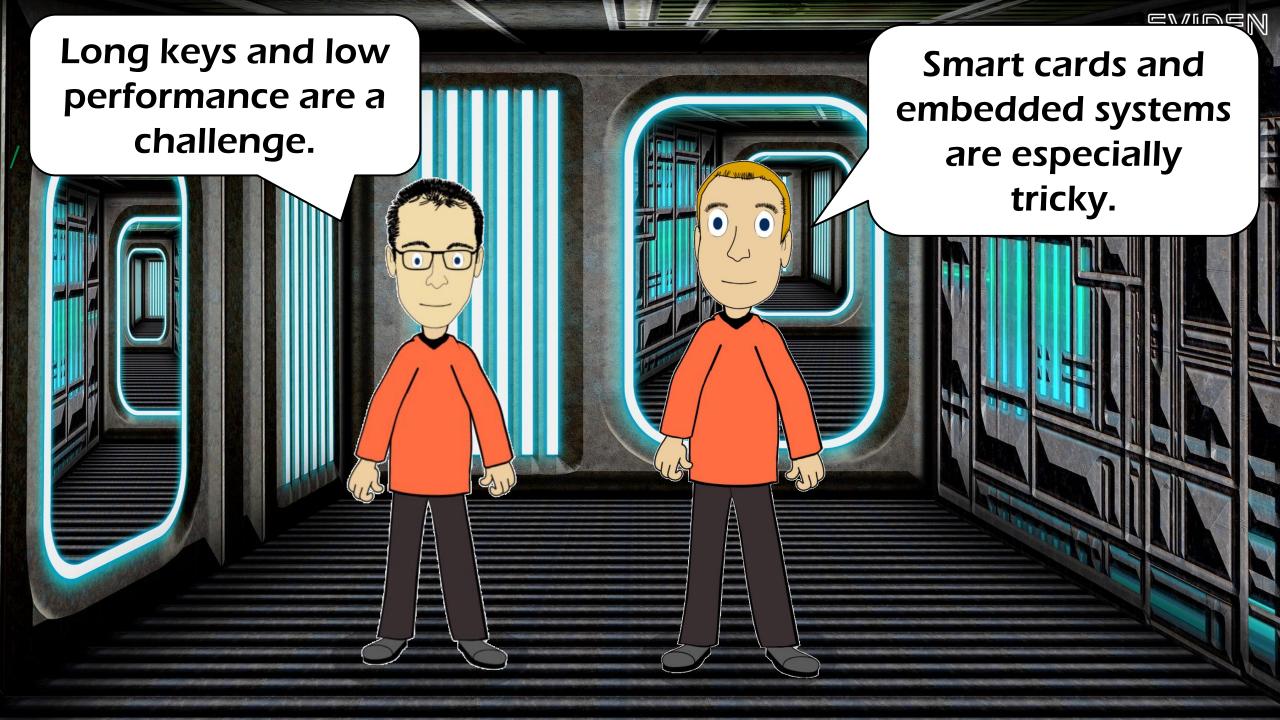


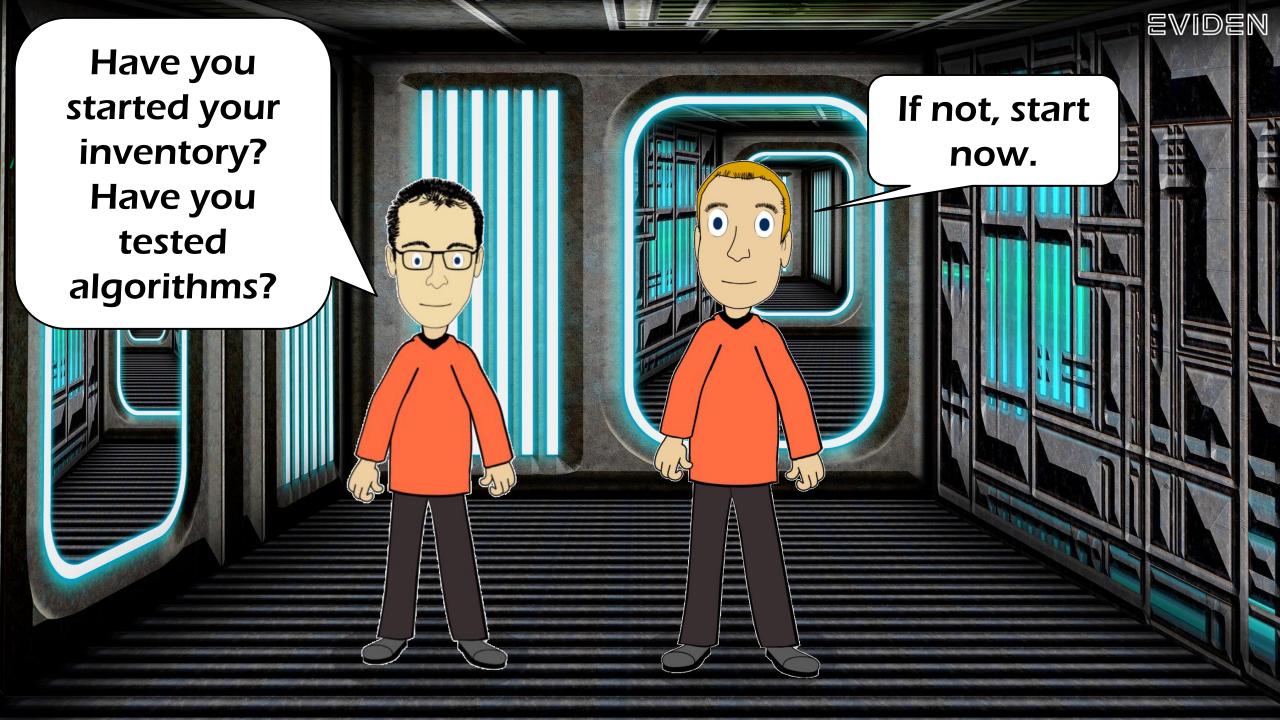


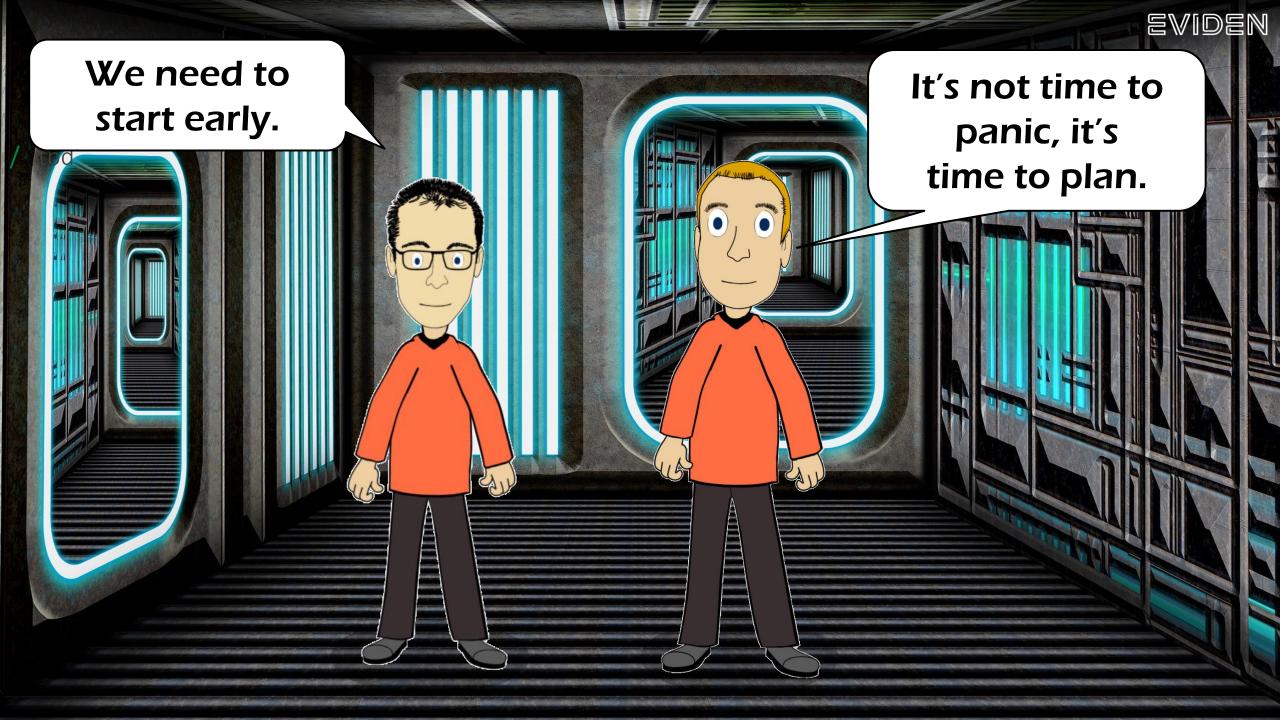














TAKE A MINUTE AND GIVE US FEEDBACK ...





