

# Use of biometrics for regeneration of cancelable post-quantum crypto-biometric keys

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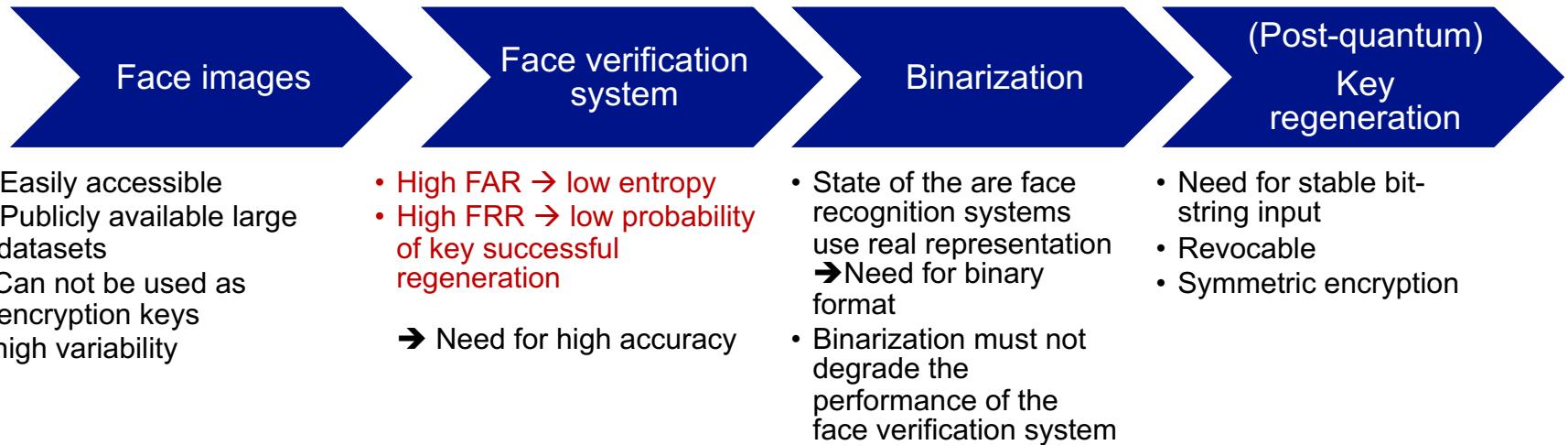
# Objective

- Create cryptographic keys from biometric data that are resistant to quantum computing.

## Motivation

- Advances in Quantum computing
- Non-repudiation
- Revocability

# Plan



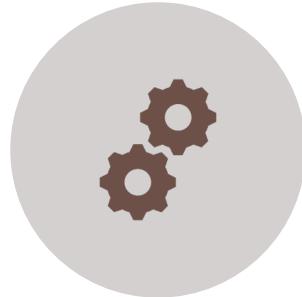
# Face verification system: Contributions



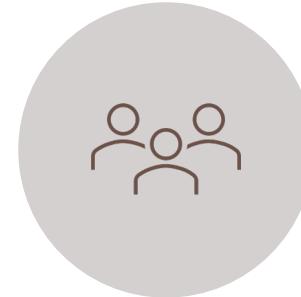
IMPLEMENTATION IN THE H2020  
SPEECHXRAYS PROJECT AND  
TESTED ON 2000 USERS

+

CANCELABLE VERSION



IMPLEMENTATION IN THE H2020  
EMPATHIC PROJECT



PARTICIPATION IN THE NIST  
SRE'19 MULTIMEDIA  
CHALLENGE (BEST SINGLE  
SYSTEM ON FACE)

# Results

