



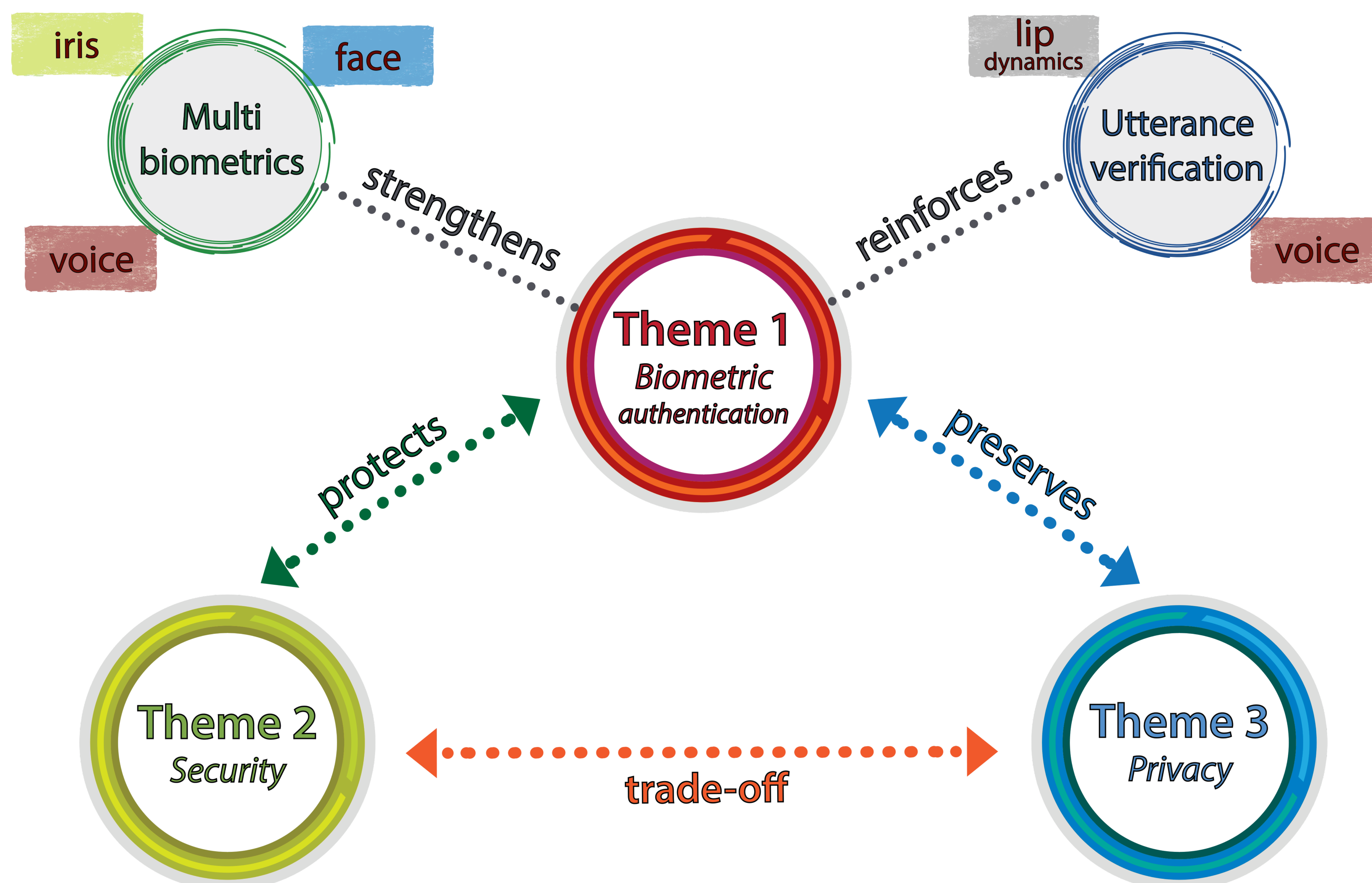
RESPECT

REliable, Secure and Privacy preserving multi-biometric pErson authentiCaTion

goals

The objectives of the RESPECT project are to simultaneously ensure both security protection and privacy preservation for multi-biometric audio-visual recognition systems. At the same time, recognition accuracy and reliability will be improved, thereby boosting confidence in future technologies and increasing their societal and economic benefits.

modules



contributions

● Theme 1 – Biometric authentication

- improve the **accuracy** of biometric person authentication in unconstrained scenarios by the combination of three convenient biometric characteristics: **voice**, **iris**, and **face**;
- reinforce **reliability** by adding dedicated mechanisms for **utterance verification** through the analysis of voice, **face**, and **lip dynamics**.

● Theme 2 – Security

- address security risks by delivering general **multi-biometric Presentation Attack Detection** (PAD) methods.

● Theme 3 – Privacy

- provide privacy-preserving **multi-biometric template protection** (BTP) schemes, e.g., based on advanced **cryptographic techniques** such as homomorphic encryption.

❖ Funding Agency:

- Deutsche Forschungsgemeinschaft (DFG)
- Agence Nationale de la Recherche (ANR)

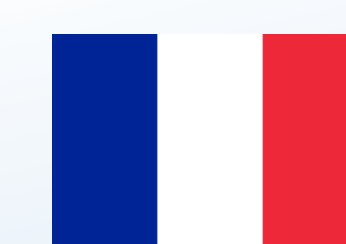
❖ Performance period: April 2019 – March 2022

❖ Website: www.respect-project.eu

❖ Team members:

- Hochschule Darmstadt, EURECOM and Inria

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BIOMETRICS AND INTERNET-SECURITY
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