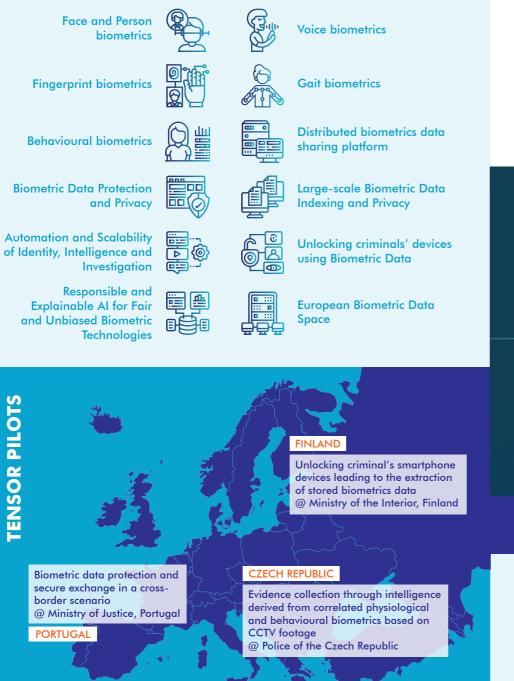
TENSOR TECHNOLOGIES



TENSOR PILOTS





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TENSOR OVERVIEW

TENSOR OBJECTIVES

TENSOR will provide Police Authorities a platform that facilitates the biometric evidence extraction, sharing and storage in cross border environments allowing them to share best practices in an automated, robust, secure, privacy-preserving, and scalable manner. The full potential of biometric technologies will be exploited along with their fusion to strengthen their acceptance in court when partial evidence is gathered from the crime scenes. More particularly, TENSOR will equip security practitioners with novel tools focusing on: 01/01/2023

End Date 31/12/2025

Topic

HORIZON-CL3-2021-FCT-01-05 – Modern biometrics used in forensic science and by police

Total cost € 5 739 725

EC funding € 4 562 975

 (a) Extraction of biometrics and other distinctive features that will assist police authorities in identification, identity verification, intelligence and investigation processes and can be leveraged to unlock criminals' mobile devices.

(b) Sharing of biometrics through secure, scalable exchange of biometric intelligence and court-proof evidence among police authorities in a cross-border manner, enhancing the interoperability among legacy systems owned by security practitioners and Forensic Institutes.

(c) Storage of biometrics in a privacy-preserving way through a biometric data protection mechanism enabling revocability of biometric templates.

TENSOR will also introduce the one-of-its-kind European Biometric Data Space creating a common ground among police authorities, Forensic Institutes and Security Researchers assisting in the faster adoption of modern biometric solutions.



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SUPPORT the forensic investigation through the provision of innovative biometric intelligence and insights

EXPLOIT further the potential of behavioural and physiological biometrics via emerging, privacy preserving and legally compliant technologies enabling the derivation of concrete and robust contextual evidence.





FACILITATE the secure cross-border exchange of biometric data through accountable and sovereign blockchain mechanism, while ensuring interoperability with different legacy systems.

DEMONSTRATE and validate the effectiveness and accuracy of the proposed solutions in three complementary use cases in real settings with the active engagement of several LEAs and Forensic institutes accomplishing at the end of the project a TRL 7 for the entire platform.





ENSURE wide communication of the produced results and the efficient exploitation and business planning of the TENSOR concepts, processes and solutions facilitating their rapid uptake by relevant Police Authorities and Forensic Institutes.

CONSORTIUM

