

# FUTURE PROOF COMPUTER SECURITY

## EU SPONSORED PROJECT COMPLETES MISSION TO ADDRESS SECURITY THREATS FROM QUANTUM COMPUTING

December, 2020

VILLACH, AUSTRIA—The Trusted Platform Module (TPM) is the key security part of most computing systems in use today.

The FutureTPM Project was launched three years ago to help find ways of futureproofing the TPM's mission. This embedded device provides computer security by adhering to a rigid set of rules which are developed by standardization bodies around the world. Thus far, the TPM has provided a reliable and flexible way to secure systems through integrated cryptographic keys. The upcoming challenge is ensuring the TPM can perform effectively once quantum computing enters the mainstream in the not so distant future. The overwhelming speed of computations under quantum computing may jeopardize the inherent security of today's TPMs.

The FutureTPM project constructed and tested new quantum resistant algorithms and applied their findings to three use cases: online banking, activity tracking and device management. Ideally, the findings of FutureTPM will serve to inform the standardization bodies ISO, IEC, ETSI and the TCG. Members of the project consortium recently had the valuable opportunity to present their results to the TCG (Trusted Computing Group).

The FutureTPM consortium was made up of fifteen highly qualified industrial and academic partners from Austria, Germany, Cyprus, Greece, Luxembourg, Portugal, Switzerland, United Kingdom, Denmark. The project was coordinated by Technikon in Austria.

Technikon is a private research service and engineering company in Austria which manages multinational teams in the organization, execution and assessment of research projects. Technikon is Europe's leading private company coordinating and disseminating technology-based cooperative European research projects.

**For more information about the FutureTPM project, visit our web site or contact the coordinator directly:**

**Web:** <https://futuretpm.eu/>  
**Contact:** MMag. Martina TRUSKALLER  
**Office:** TECHNIKON Forschungs- und Planungsgesellschaft mbH  
Burgplatz 3a, A-9500 Villach, AUSTRIA  
**PHONE:** +43 4242 233-5571  
**E-MAIL:** [coordination@futuretpm.eu](mailto:coordination@futuretpm.eu)

Follow FutureTPM on:



FutureTPM Project



@FutureTPM\_H2020



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 779391.