

# TRUST

aWARE



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TREE TECHNOLOGY

**ENHANCING DIGITAL SECURITY, PRIVACY AND TRUST IN SOFTWARE**

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101021377




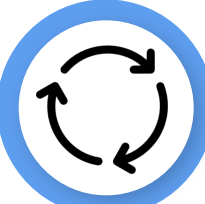

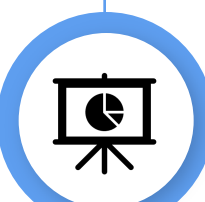
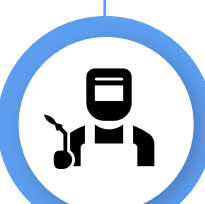
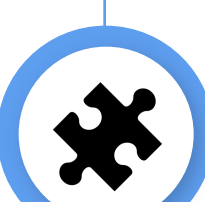


# Factsheet

<b>Programme</b>	Horizon 2020
<b>Grant Agreement</b>	101021377
<b>Topic</b>	SU-DS03-2019-2020 - Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises
<b>Funding scheme</b>	IA – Innovation Action
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<b>End date</b>	31 May 2024
<b>Website</b>	<a href="http://www.trustaware.eu">www.trustaware.eu</a>
<b>Social media</b>	@Trustaware  



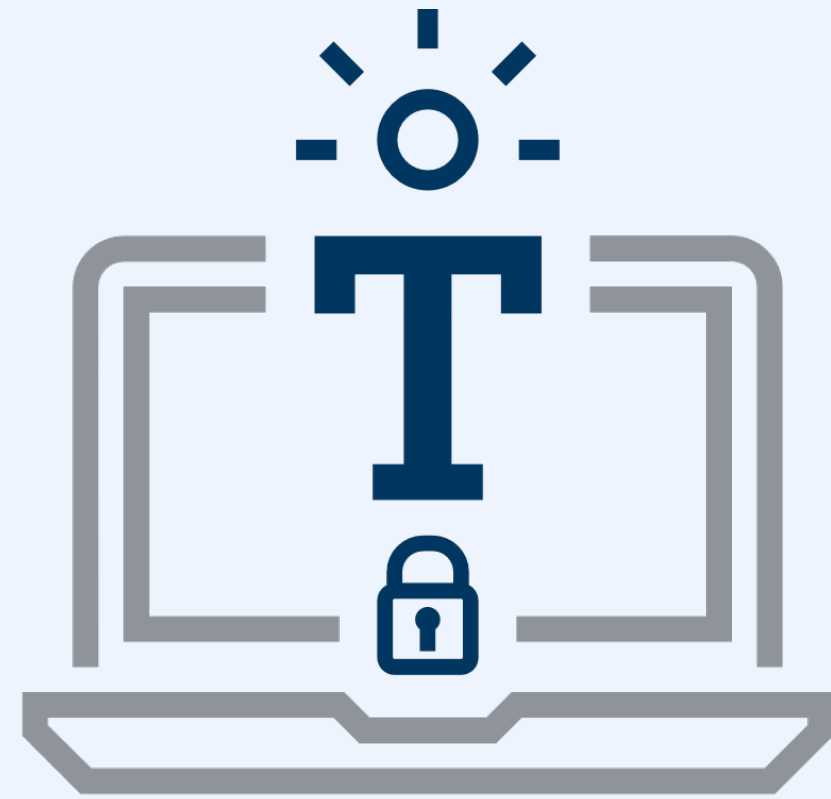
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# Who we are



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- 04 User associations
- 03 Industrial companies
- 03 Research organisations
- 01 CERT body
- 01 International platform



# Who we are



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# Motivation



01

**Users are not always aware of their exposure to Security & Privacy (S&P) risks** when they use software. This results in bad usage habits and lack of risk prevention mechanisms.

03

**Standards and certifications are key enablers for assessing and assuring the level of S&P protection** provided by modern software and their risks. **However, developers and operators lack S&P certification methods and standards.**

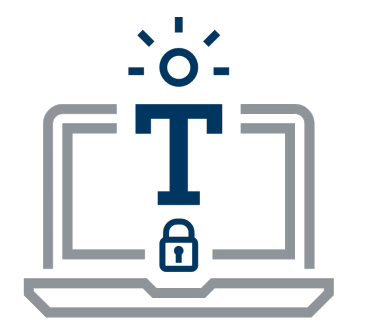
02

**Developers are lacking best-practices for S&P-by-design in software engineering.**

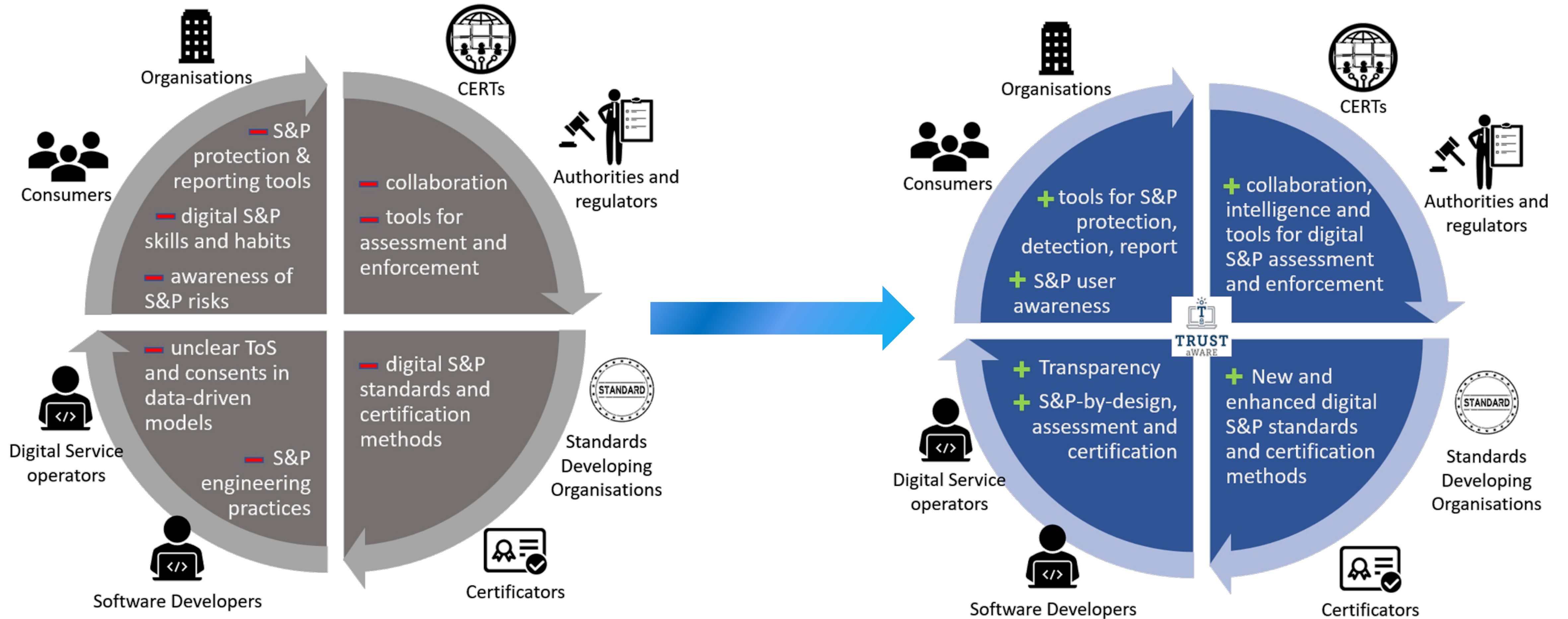
04

Regulators and national agencies all over the world **are defining and implementing new legal frameworks** for protecting citizens against online S&P threats. But it is **unclear whether the penalties are sufficient** deterrent against S&P mispractices.

# S&P Vicious VS Virtuous cycle



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# Overall mission



TRUST aWARE's mission is to provide a **holistic and effective digital Security & Privacy (S&P) framework** comprising a set of novel and integrated tools and services co-created by citizens and stakeholders. This framework will help to **identify, audit, analyse, prevent, and mitigate the impact of the various S&P threats** associated with citizen's digital activities in a timely manner, while enhancing software trust and regulatory compliance.



# Overall mission

01



TO PROTECT CONSUMERS  
AGAINST S&P  
CYBERTHREATS

02



TO ENSURE TRANSPARENT,  
SECURE AND REGULATORY  
COMPLIANT DIGITAL  
PRODUCTS

03



TO FOSTER S&P-BY-  
DESIGN SOFTWARE BY  
SUPPORTING STANDARDS  
AND CERTIFICATION  
METHODS

**Collective intelligence for Computer Emergency Response Teams (CERTs) and Authorities in collaboration with citizens, Chief Information Security Officers (CISOs) and Data Protection Officers (DPOs)** to ensure and audit that digital products and their S&P practices are transparent, secure and in compliance with regulation.

**User-friendly tools to protect consumers against S&P cyberthreats** (attacks, abusive practices and inappropriate behaviours of digital services) to enable them to better **understand, control, detect and respond to S&P threats and attacks** in a timely manner, as well as configuring their own S&P protection settings.



**Knowledge to foster S&P-by-design in software engineering** by supporting developers and digital service operators with standards and certification methods for compliance with the European S&P regulation..

# Technical challenges



1

A **Digital S&P Analysis Lab** (DS&PA Lab) will provide digital S&P assessment capabilities longitudinally and at scale to gain **behavioural intelligence on S&P risks in digital products** used by regular users (applications, websites, and browser extensions).

2

**Digital S&P Enhancing Tools (S&PETs) for end users** augmented with the intelligence generated in the **DS&PA Lab** to identify a wider spectrum of risks

3

**Collective S&P Cyber Threat Intelligence (S&PCTI) for stakeholders**, building bridges between **citizens, organisations, CERTs, DPAs, and developers.**



# Socio-technical challenges



1

**Build on a multidisciplinary analysis of the framework conditions** that determine the various S&P risks faced by EU citizens, addressing **technical, social, economic, ethical, standardisation, regulatory and legal aspects**. These are critical for informing the different software engineering stages (from design to production) towards the assurance of impact and adoption of TRUST aWARE's solutions. Additionally, this process will allow us to obtain evidence and insights for informing the cyberthreat, standardisation, and regulatory debates and efforts.

2

**Develop a user-centric co-creation and evaluation process**, with users and stakeholders involved for assuring the impacts of TRUST aWARE in **operational environment** (Technology Readiness Level: **TRL-7**). User-driven pilots will enable a continuous feedback loop. As TRUST aWARE will provide **tools for all citizens**, including vulnerable groups, our pilots will consider gender balance and diverse population groups, with specific focus on **minors** (<18 y/o), where special S&P protection is required; and **elderly** (>65 y/o), who often lack digital skills.

3

**Perform cross-disciplinary actions** in a holistic manner for assuring **impacts, sustainability and adoption**, fostering: **training** programs for citizens and stakeholders; **certification** methods (building on [Europrivacy](#)); liaison and contributions to relevant **standardisation** initiatives; and **exploitation** and **communication** actions.

# Community engagement



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