# TRAPEZE - TRAnsparency, Privacy and security for European citiZEns

## Results

<table>
<thead>
<tr>
<th>Project Information</th>
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<tr>
<td><strong>TRAPEZE</strong></td>
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<tr>
<td>Grant agreement ID: 883464</td>
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<tr>
<td><strong>DOI</strong></td>
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<tr>
<td>10.3030/883464</td>
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<tr>
<td><strong>Start date</strong></td>
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<td>1 September 2020</td>
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<td><strong>End date</strong></td>
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<td>31 August 2023</td>
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<td><strong>Funded under</strong></td>
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<td>H2020-EU.3.7.</td>
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<td>H2020-EU.3.7.6.</td>
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<td>H2020-EU.3.7.4.</td>
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<td><strong>Overall budget</strong></td>
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<tr>
<td>€ 6,017,950</td>
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<td><strong>EU contribution</strong></td>
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<td>€ 4,995,812.50</td>
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<td><strong>Coordinated by</strong></td>
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<td>TENFORCE</td>
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<td>Belgium</td>
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## Deliverables

### Documents, reports (14)

- **Policy Language - First version**
  Syntax and semantics of the extended policy language taking into account the feedback of use cases, plus a complexity analysis pointing out the possible intractability of some reasoning tasks.

- **Citizen-centric use case scenarios - First version**
  Document detailing the use cases and data sharing scenarios provided by TRAPEZE partners.
Sticky Policies - First version
Tamper-proof encoding and storage of the links between data and policies.

Roadmap for dissemination and communication
List of planned activities, their description, place, date and specific target audiences as well as the partners responsible

Usability and accessibility testing report - First version
A report on the results of usability and accessibility testing with the different participant groups

Privacy preferences and sociological aspects analysis - First version
A report on the results of the survey on privacy preferences and sociological considerations in privacy-enhancing solution design

Citizen-centric use case scenarios - Second version
Document detailing the use cases and data sharing scenarios provided by TRAPEZE partners.

Security and Privacy Resilience Framework and Guidelines - Second version
This document will include the requirements for and subsequent definition of the TRAPEZE security and privacy resilience framework as well as the guidelines for its application in relevant environments

Data Protection Requirements - Second version
The Report includes a depiction of legal and technical data protection fundamentals and the derived requirements for the project and its use cases.

Platform specification and design - Second version
Report on technical requirements and challenges T14 that arise in extending the SPECIAL concepts to cope with TRAPEZE requirements while ensuring scalability and security

TRAPEZE clustering and networking - First version
Report on the TRAPEZE clustering and networking activities with a short assessment of the impact

Security and Privacy Resilience Framework and Guidelines - First version
This document will include the requirements for and subsequent definition of the TRAPEZE security and privacy resilience framework, as well as the guidelines for its application in relevant environments.

Platform specification and design - First version
Report on technical requirements and challenges (T1.4) that arise in extending the SPECIAL concepts to cope with TRAPEZE requirements while ensuring scalability and security.

Data Protection Requirements - First version
The Report includes a depiction of legal and technical data protection fundamentals and the derived requirements for the project and its use cases.

Other (7)

Dynamic consent mechanisms - First version
This deliverable will provide an overview and implementations of different approaches to dynamic consent acquisition.

Compliance and explanation engines - First version
SW release of the compliance engine with the features of the policy language (D2.1 and D2.6) and implementing the algorithms (D2.3 and D2.8).

TRAPEZE Security and Data Protection knowledge base - First version
Multilingual knowledge base content RDF vocabularies and accompanying report.

TRAPEZE platform - First version
Integrated platform releases with the initial one delivering early integration of the semantic blockchain layer and privacy dashboards and allowing an early evaluation of the developments in WPs 2 3 and 4. The final release will deliver authentication and authorization risk management and incident reporting more mature components and the first integration with the PDI.

Securing citizens smart terminals and online communication - First version
Definition of the citizen’s interactions with the platform via smart terminals, as well as identification and implementation of the protection mechanisms through KMS SDK. The reports will also clearly outline the features unique to TRAPEZE or common with the other projects (GEIGER and CitySCAPE).

Privacy dashboards - First version
The first release of the privacy dashboards will deliver early policy control and transparency and compliance interfaces. This will be followed by risk management and incident reporting interfaces and overall more robust solutions based on the citizens feedback.

Transparency and compliance checking - First version
Efficient algorithms for compliance checking and explanations, supporting the extended policy language described in D2.1.

**Websites, patent fillings, videos etc. (2)**

- Project communication material - First version️
  TRAPEZE project brochures, leaflets and posters. To be updated in M24 with relevant developments and results.

- Project identity kit and web presence - First version️
  Project logo, colours, poster, presentation and deliverable templates, and guidelines on the usage for dissemination and communication, along with a project website. The poster will be updated in M24 with relevant developments and results.

**Demonstrators, pilots, prototypes (1)**

- Use case implementation - First version️
  Document detailing the implementation plans integration activities difficulties and final results

**Publications**

**Conference proceedings (2)**

- Tractable Compliance Checking with Negation
  **Author(s):** Piero A. Bonatti, Luigi Sauro  
  **Published in:** Proceedings of the 34th International Workshop on Description Logics DL2021, 2021, ISSN 1613-0073  
  **Publisher:** CEUR-WS.org

- Representing Consent and Policies for Compliance️
  **Author(s):** Piero A. Bonatti, Luigi Sauro, Jonathan Langens  
  **Published in:** {IEEE} European Symposium on Security and Privacy Workshops, EuroS\&P 2021, Vienna, Austria, September 6-10, 2021, 2021, Page(s) 283-291, ISBN 978-1-6654-1012-0
Using DPVC's outcome in TRAPEZE's compliance framework

Author(s): Bonatti, Piero A.; Sauro, Luigi; Langens, Jonathan
Published in: 1, 2021
Publisher: Author
DOI: 10.5281/zenodo.6461390

Real-time reasoning in OWL2 for GDPR compliance

Author(s): Piero A. Bonatti, Luca Ioffredo, Iliana M. Petrova, Luigi Sauro, Ida R. Siahaan,
Published in: Artificial Intelligence, 2020, Page(s) Volume 289,, ISSN 0004-3702
Publisher: Elsevier BV
DOI: 10.1016/j.artint.2020.103389

Last update: 27 April 2022
Record number: 229544

Permalink: https://cordis.europa.eu/project/id/883464/results

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