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Executive Summary

The QCI-CAT website <https://qci-cat.at/> aims to be the first address on the Internet where the public can get information about the national EuroQCI project QCI-CAT. The website aims to maximize the visibility of the project within the research community but also the wider public. Hence it provides an overview of the project's goals and objectives, the partners involved, news, and project results. In addition, the website serves as a repository for various dissemination activities. The website is online since March 2023 and is updated on a regular basis during the project's lifetime.



1. Introduction

1.1. Purpose and scope of the document

The project website is one of the main communication channels of the project [1]. Hence, the website aims to give a high-level overview of the project objectives and use cases. Furthermore, it also serves as venue to present the project results from academic papers to software and hardware components that are developed within the project to a wider audience.

The purpose of this document is to present a general overview of the project's website which is available under the URLs <https://qci-cat.at/>, <https://qci-cat.eu/>, and <https://qci.at/>. It provides an overview of the different subpages available on the website as well as a description of the content that is intended to be published there in accordance with the communication and dissemination plan.

1.2. Target Audience

The target audience of the webpage is the general public.

1.3. Relation to other project work

This deliverable is closely related to D10.2 Dissemination, communication and exploitation plan which outlines the general strategy for the project's dissemination and communication activities. The public webpage for the project is one of the main communication channels of the project that has been identified in D10.2.

1.4. Structure of the document

The document is structured as follows: Section 2 provides a general overview of the design of the webpage together with the technical implementation. It also discussed the content of each individual subpage that is available on the project website.



2. Structure and subpages of the project website

As a central communication channel of the project, the website is designed to be visually appealing and to provide an overview of the main project goals and achievements to a broad range of visitors. The layout is thus vertically divided into a header (c.f. Figure 1) containing the project logo and the website menu at the top which is followed by the main content of the individual subpages and footer (c.f. Figure 2) containing the description of the project and important links at the bottom of the page. The header and the footer are on a dark blue background following the color scheme of the project logo and the main content is displayed on white background. With this choice of contrasting background colors, visitors are able to easily distinguish the content from the menu and the footer.



Figure 1 - Website header with the project logo and the website menu

The subpages are divided into the landing page, project news, project overview, results and a contact page. These subpages are discussed in more detailed in the following sections.

The footer contains a short description of the project (“About QCI-CAT”). This section is accompanied with hyperlinks to the imprint hosted on AIT’s main web page,¹ which also applies to the QCI-CAT website since it is hosted by AIT, as well as the privacy note on the processing of personal data, and the contact form. Furthermore, links to all social media accounts by the project are also provided there. Finally, acknowledgement for the funding from the DIGITAL-2021-QCI-01 Digital European Program and the national co-funding from Nationalstiftung Forschung, Technologie und Entwicklung is also included.



Figure 2 - Website footer with an “About QCI-CAT” section, important links and the funding acknowledgement.

¹ <https://www.ait.ac.at/en/imprint>



2.1. Landing Page

The landing page (homepage) of the webpage serves as the first entry point to visitors of the QCI-CAT website. Hence it is important to provide a short and easy to understand overview of project goals, together with some key facts on this page. The structure of the landing page is thus as follows: first, the main objectives of the project are discussed (c.f. Figure 4). Afterwards, the landing page provides an overview of the use cases (c.f. Figure 4) and some key facts on the deployment of the national EuroQCI network in Austria (c.f. Figure 5). Finally, the page lists the logos of all partners of QCI-CAT (c.f. Figure 5). The page thus provides the key facts to the visitors. Following the links placed on the landing page, the visitors are provided with more detailed information on the project.

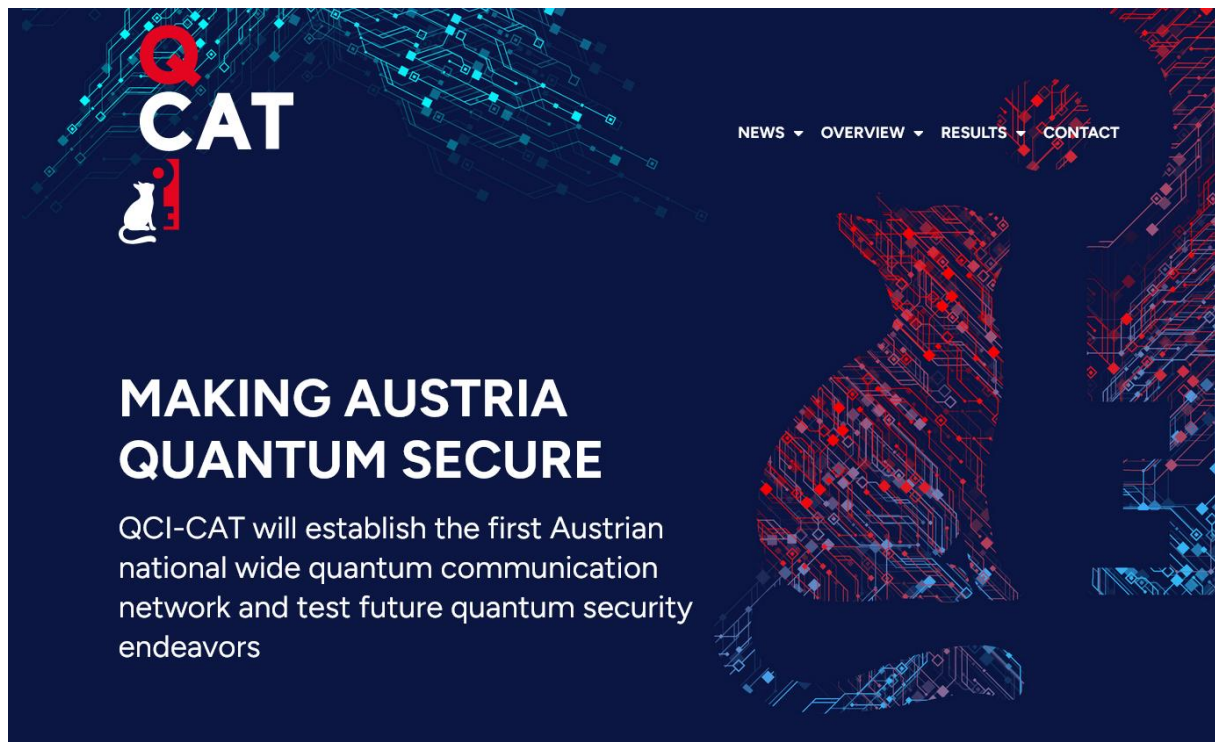


Figure 3 - Landing Page (1/3) with headline



QCI-CAT forms the Austrian subproject of the European Commissions EuroQCI initiative. With this, the EU will transform their way of communication to a new, groundbreaking form with security guarantee – granted by the laws of nature.

With our top level researchers at five different universities, large industrial partners with grand expertise in security topics and great cooperations from Austrian ministries, QCI-CAT will be one of the prime examples to contribute to EuroQCIs overall endeavor. Our consortium is bringing together a mature ecosystem of technology suppliers, integrators & operators and finally end-users, which will allow the project to perform its activities as close as possible to the real operation of QKD secured communication networks.

USE CASES



Exchange of Genome Data



Quantum Secured Secret
Sharing between Authorities



HSM Back-Up using Quantum
Key Distribution



Real-life Quantum
Communication in Audio and
Video

Figure 4 - Landing Page (2/3) with a short description of the project and a representation of the use cases

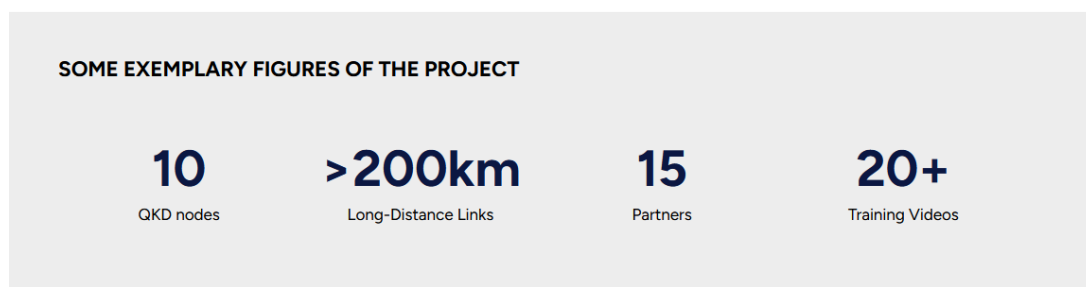


Figure 5 - Landing Page (3/3) with key facts and a selection of the partner logos. The partner logos are rotating to display all logos over some time frame.

2.2. News

The “News” page provides visitors with the latest project related news and also with upcoming events. The purpose this section is to give an overview of the project progress and to raise interest of project related events. The news entries are thus categorized as follows:

- **"Project News"** is a continuous display of news related to the project to highlight the achievements of the project.
- **"Events"** lists upcoming events that are planned as part of the project with all relevant information (location, participating partners, date, brief description, organizer, and a link if available). Furthermore, events within the scope of the project's topic are also listed under this section.



For both categories all entries get a dedicated page whereas the “Project News” and “Events” page list all entries with a picture, header, and short description. A sample of the overview of “Project News” is provided in Figure 6 and a sample news entry is depicted in Figure 7.

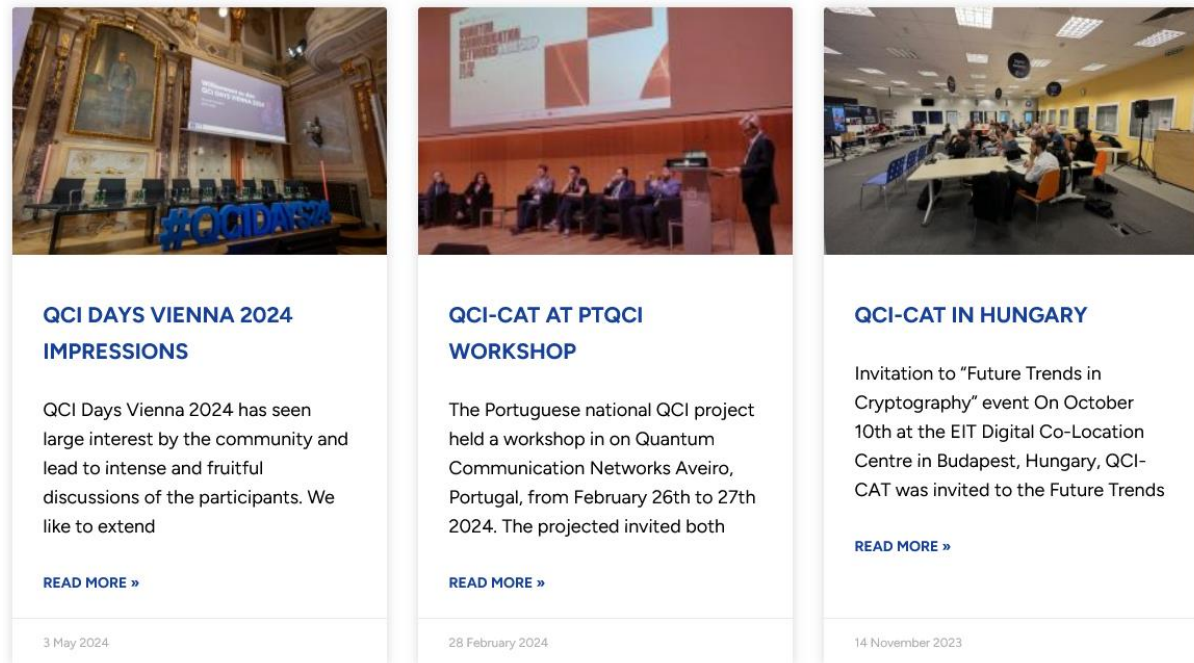


Figure 6 - Listing of news entries on the “Project News” page.

QCI-CAT AT PTQCI WORKSHOP

The Portuguese national QCI project held a workshop in on [Quantum Communication Networks](#) Aveiro, Portugal, from February 26th to 27th 2024. The projected invited both national and international speakers to discuss the implementation of quantum communication network as part of EuroQCI. From QCI-CAT, Sebastian Ramacher (AIT), Sebastian Ecker (qtlabs) and Christoph Pacher (fragmentiX) were invited to present the project, research results and their products at the workshop.



Figure 7 - Sample news entry with the headline and the introduction.

For the “Events” category, the structure is similar. The overview page provides a listing of all events (c.f. Figure 8) whereas detailed information can be found on dedicated pages (c.f. Figure 9).



QCI DAYS EVENT IN VIENNA

10 October 2023

Join us at QCI Days Vienna 2024 hosted by AIT Austrian Institute of Technology where experts will discuss cutting-edge trends in quantum-secure communication.

[Read More »](#)

WORLD OF QUANTUM 2023

12 June 2023

From 06/27/2023 – 06/30/2023, World of Quantum 2023 will take place at the Trade Fair Center Messe München in Munich, Germany. Its goal is to give the

[Read More »](#)

IMAGINE 23

31 May 2023

The IMAGINE is the flagship event for digital technologies organized by the Austrian Ministry for Digital and Economic Affairs (BMK) and the Austrian Research Promotion

[Read More »](#)

Figure 8 - List of events on the "Events" page.



From 06/27/2023 – 06/30/2023, *World of Quantum 2023* will take place at the *Trade Fair Center Messe München* in Munich, Germany. Its goal is to give the quantum community a platform in order to exchange knowledge, to interconnect with their international colleagues and to broaden the European quantum network. An elaborate agenda covering numerous topic of quantum information and quantum communication with namely speaker from politics, science and economy is being provided.

QCI-CAT consortium members together with other AIT quantum colleagues will attend this meeting together with the Austrian Federal Ministry for Climate Action (BMK), in order to represent the Austrian developments within this field and to promote the QCI-CAT project internationally.

We are very much looking forward to meeting you there.

For further information, please visit the [World of Quantum 2023 website](#).



Figure 9 - Sample "Events" entry for the World of Quantum 2023.

2.3. Overview

The "Overview" submenu is the entry point to information on the project objectives, partners and use cases. When first entering this section of the website, visitors will be directed to the "Objectives" pages. We discuss the three subpages in the following sections.

2.3.1. Objectives

The goal of the "Objectives" subpage is to give the visitor a high-level overview of the four main objectives of the project. The description of the objectives is aimed to be understandable by a broad range of visitors without requiring in-depth knowledge about quantum-safe technologies. Visually, the objectives together with a description are presented in a „Z shape“ [2] as it is a layout pattern that follows the typical reading pattern of users and thus provides benefits in terms of readability. This layout consists of a constant vertical interchange of text and pictures or figures with each entry. Each objective is accompanied with a descriptive short text as well as a fitting picture.



OBJECTIVES



BEST OF BOTH WORLDS: COMBINING QUANTUM AND CLASSICAL SECURITY ASPECTS

QCI-CAT will deploy a QKD testbed facility using existing fiber infrastructures in the city of Vienna and Graz. We will combine state-of-the-art modern encryption techniques with quantum key distribution protocols in a way that is easily adaptable and implementable in order to spread sensitive information among different Austrian authorities, hospitals and universities

GOING FOR THE LONG HAUL

In order to set a cornerstone for a long-term international quantum communication between Austria and EuroQCI participating countries, QCI-CAT will employ a link between Graz and Vienna, implementing top-security features such as trusted nodes and testing highly experimental quantum repeaters in order to bridge this unusual high distance in the realms of quantum key distribution



Figure 10 - Header and two of the objectives as displayed on the "Objectives" page.

2.3.2. Partners

Apart from the logos of all partners on the landing page, the "Partners" displays the logos with a short description and links to the web presences of all partners. The page divides the partners based on the categories project coordinator, academic partners, industries and federal ministries (c.f. Figure 11).



PROJECT LEAD



AIT Austrian Institute of Technology (AIT) is Austria's largest research and technology organization. The institute takes a leading position in the Austrian innovation system and a key role in Europe. With its expertise of handling large EU quantum communication projects such as OPENQKD, AIT will coordinate QCI-CAT from an administrative point, as well as act as the technical manager and project lead.

INDUSTRIES



Today, CANCOM Austria AG is Austria's number 1 digitalization partner and develops new end-to-end business models in close cooperation with customers. With access to the technologies utilized in this project, CANCOM wants to widen its portfolio and grant customers the possibility to use high security transmission with quantum cryptography technology.



dacoso GmbH is a leading IT service provider in the DACH region and brings network performance and data security to the business customers with a focus on managing services for optical networks, intelligent networks and cyber security. For the project, dacoso will support with the security assessment, EuroQCI architecture, procurement and the installation/provisioning.

Figure 11 - Subset of the partner descriptions and their categorization on the “Partners” page.

2.3.3. Use Cases

The “Use Cases” subpage depicts all use cases of QCI-CAT to give the visitor an overview of the different application areas that the project is addressing. For all use cases, a representative figure and a short one to two sentence description of the use cases (cf. **Fehler! Verweisquelle konnte nicht gefunden werden.**). A link is provided for the visitors to read up on more details of the individual use cases.



USE CASES

The QKD network deployed as part of QCI-CAT serves as testbed for three use cases: the backup of keys of a Hardware Security Module, secure video conferencing, secure exchange of governmental and medical data.



HSM BACKUP

In the Hardware Security Module (HSM) backup use case, keys stored in a HSM are transferred using a QKD-protected network to a backup HSM.

[Click Here](#)



MEDICAL USE CASE

In the medical use case, medical data is exchanged securely between the Medical University in Graz and collaborators in Vienna.

[Click Here](#)

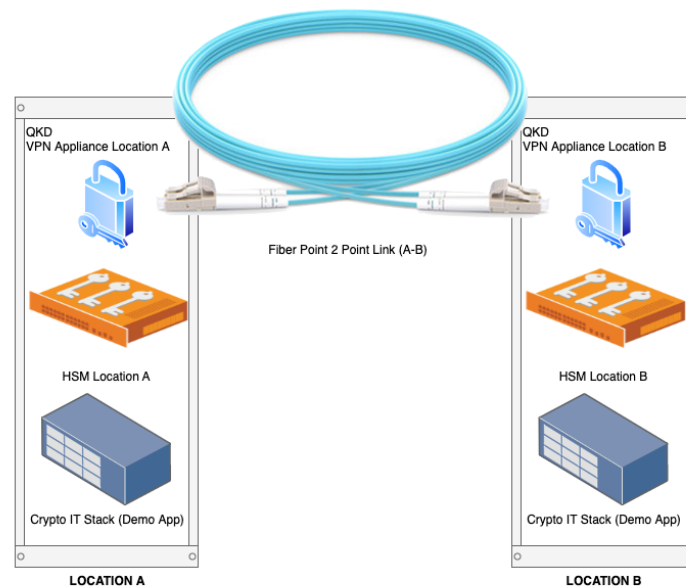
Figure 12 - Overview of the use cases on the "Use Cases" page

The pages for the individual use case – for an example see Figure 13 – discuss the goals, the network and functional architecture, and the implementation plan among others. As the implementation of the use cases progresses, the corresponding pages are updated with the adapted architectures, network and implementation plans.



HSM BACKUP USING QKD

This implementation involves securely transfer cryptographic material from a Hardware Security Module (HSM) to a backup HSM via a Virtual Private Network (VPN) data link that safeguards the transfer with Quantum Key Distribution (QKD) adding an unbreakable encryption layer. This ensures redundancy in case of a primary site failure.



The use case expectations center on showcasing the seamless integration of Quantum Key Distribution (QKD) and the ETSI 014 protocol within conventional Virtual Private Networks (VPN) and encryption frameworks. This integration aims to leverage the principles of quantum physics to ensure both, the confidentiality and integrity of sensitive data. The demonstration seeks to highlight the synergistic relationship between advanced quantum cryptography and established encryption protocols, emphasizing their combined strength in safeguarding data transmission.

Figure 13 - A subsection of the "HSM Backup using QKD" Use Case page.

2.4. Results

The final section of the page is dedicated to the results of the project that are achieved during the project runtime. As such, it provides all public deliverables, details on scientific and non-scientific publications in relation to the project and other publicly disclosable results.

2.4.1. Deliverables

The "Deliverables" page (c.f. Figure 14) provides a list of all public deliverables as well as download links once they are ready. During the project runtime, all public deliverables will be made available as they are accepted by European Commission and the expert reviewers. Whenever a public deliverable is posted on the website, a corresponding news entry will announce its availability to a wider audience.



DELIVERABLES

All public deliverables that are produced as part of the work on QCI-CAT will be made available for download here. Deliverable downloads will be added after the deliverables have been accepted by the European Commission.

The public deliverables are as follows:

- D4.2: QKD system comparison
- D6.1: Report on HSM key-wrapping via QKD based VPN
- D7.1: Report on Medical Use Case demonstration
- D7.2: Intermediary Report on Medical Use Case Demonstration
- D8.1: Prototype of the UIBK Quantum Repater
- D8.2: AIT-DV QKD System
- D8.3: PQC-hardened Key Management Systems for QKD
- D9.1: Online platform for training of users and engineers in quantum communication
- D9.2: Pilot training period for public and private stakeholders
- D10.1: QCI-CAT webpage
- D10.2: Dissemination, communication and exploitation plan
- D10.3: National EuroQCI workshop
- D10.4: Report on communication, dissemination, end user workshops and exploitation activities

Figure 14 - "Deliverables" subpage with the list of public deliverables. Download links will be added once the deliverables have been accepted.

2.4.2. Publications

The "Publications" page serves as collection of all scientific publications in conference proceedings and journals. As such it will provide a list of all publications with a link to page providing detailed information on the publication. Furthermore, a link to both the original publication and an open access version of the publication (if the original publication is not available as open access) are provided.

PUBLICATIONS

The following table provides an overview of all scientific publications that were published in connection with QCI-CAT.

TITLE	AUTHORS	KEY WORDS	LINK
<i>Muckle+: End-to-End Hybrid Authenticated Key Exchanges</i>	Sonja Bruckner, Sebastian Ramacher, Christoph Striecks	End-to-End authenticity, Muckle+, post-quantum digital signatures, PQC, hybrid authenticated key exchange (HAKE)	Publisher , ePrint (open access)
<i>Key Management Systems for Large-Scale Quantum Key Distribution Networks</i>	Paul James, Stephan Laschet, Sebastian Ramacher, Luca Torresetti	Key Management System (KMS), Quantum Key Distribution Network (QKDN), PQC Hybridization, ETSI GS QKD 004	Publisher (open access)
<i>Quantum-resistant End-to-End Secure Messaging and Email Communication</i>	Christoph Döberl, Wolfgang Eibner, Simon Gärtner, Manuela Kos, Florian Kutschera, Sebastian Ramacher	Delta Chat, quantum-resistant cryptography, end-to-end secure messaging, PQC	Publisher (open access)

Figure 15 - List of publications with their title, authors, key words, and links to the publisher's version of the publication and an open access link (if the publisher's version is not open access).



2.4.3. Individual results

Finally, individual results that are achieved by the project and may be of independent interest for the wider public are presented on a separate page. With this approach the results can be presented with varying levels of technical details that are deemed appropriate for the target audience. For results that are, for example, relevant for the cyber security community, a different style of presentation will be used than for results targeted at decisions makers.

FAEST

FAEST is a digital signature algorithm designed to be secure against quantum computers. The security of FAEST is based on standard cryptographic hashes (SHA3) and ciphers (AES) which are believed to remain secure against quantum adversaries.

DESIGN

The design of FAEST follows the design principle of [Picnic signature scheme](#). The signing key is an AES key, while the public verification key is a plaintext-ciphertext pair, obtained by encrypting a random message under the signing key. A non-interactive zero-knowledge proof of knowledge is used to produce the signature by showing that the AES key maps the message stored in the public key to the ciphertext. FAEST uses a new zero-knowledge proof technique called VOLE-in-the-head, which improves upon the established MPC-in-the-head paradigm.

Figure 16 - Subsection of the subpage on "FAEST" which targets cryptographic experts.

2.5. Contact

The website visitor has the possibility to contact the project coordinator AIT Austrian Institute of Technology via a contact form. Technically, each inquiry created using the form provided on this page will be sent to the mail address qci-cat.admin@list.ait.ac.at which is managed by the project coordinator. The form (c.f. Figure 17) consists of a field to enter a name, an e-mail address, optional the associated organization, and a short message. Additionally, the address of the project coordinator and the administrative e-mail address of the project is shown.



QCI-CAT

OBJECTIVES PARTNERS NEWS **CONTACT**

CONTACT

GET IN TOUCH

Project Lead:
AIT Austrian Institute of Technology GmbH
Giefinggasse 4
1210 Vienna
Austria
qci-cat.admin@list.ait.ac.at

Name *

Email *

Organisation

Message *

☐ By submitting your data, you agree that your data from this form will be processed. The purpose is to answer your request. I agree to the data privacy conditions.

* required

Send Message

Figure 17 - Contact Page

2.6. Privacy

As potentially personally identifiable information is processed via the contact form, legal compliance requires the visitor to be informed about information on the data processing and the user's rights. A dedicated subpage – “Privacy” – provides this information and is linked from the footer of the website. It contains information about the website's host (the project coordinator AIT Austrian Institute of Technology), its contact information such as an email address, a telephone number and a mail address. Furthermore, it declares the legal basis for the processing and storage period of personal data. It also provides the necessary disclaimers of the linked social media accounts.

3. Technical Implementation

From technical perspective, the website is hosted using the WordPress² content management system (CMS) version 6.5.3 and is built using the Elementor Pro³ plugin. This plugin offers a “what you see is what you get” (WYSIWYG) no-code development experience with a drag-and-drop interface to create custom layouts and functionality. The WordPress instance is hosted on a webserver running Ubuntu⁴ 20.04 LTS Focal Fossa with Apache server version 2.4.41⁵. The webserver hosting the website enforces secure

² <https://wordpress.com>

³ <https://elementor.com/academy/getting-started-pro/>

⁴ <https://releases.ubuntu.com/focal/>

⁵ <https://httpd.apache.org/>



communication via the Transport Layer Security (TLS) protocol version 1.2⁶ or newer whereas the certificates are obtained via Let's Encrypt⁷.

SSL Report: qci-cat.at (81.189.135.238)

Assessed on: Fri, 10 May 2024 12:05:30 UTC | HIDDEN | [Clear cache](#)

[Scan Another »](#)

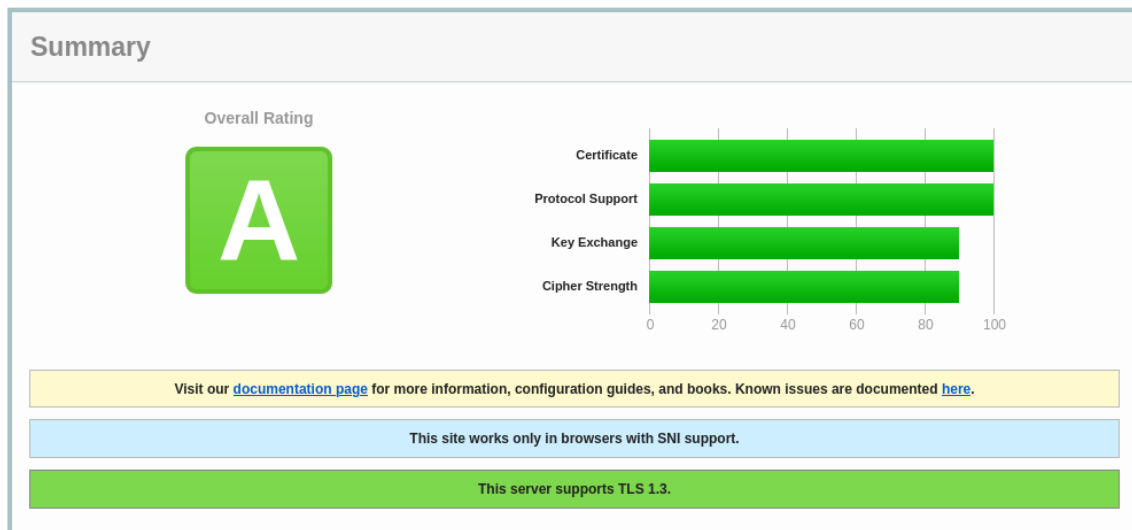


Figure 18 - Report on the TLS connection offered by the webserver from Qualsys' SSL Labs.

To follow best practices, security updates are installed and applied by the IT department from AIT Austrian Institute of Technology. These updates are applied for all software components involved in serving the website - from the webserver software to WordPress and its plugins.

Finally, to monitor the reach of the website, user statistics are collected using AWStats⁸ (c.f. Figure 19). The web analytics software is hosted locally at AIT to avoid the usage of cloud-based trackers and to limit the sharing of personal data with third parties.

⁶ <https://www.rfc-editor.org/rfc/rfc5246>

⁷ <https://letsencrypt.org/>

⁸ <https://awstats.org>

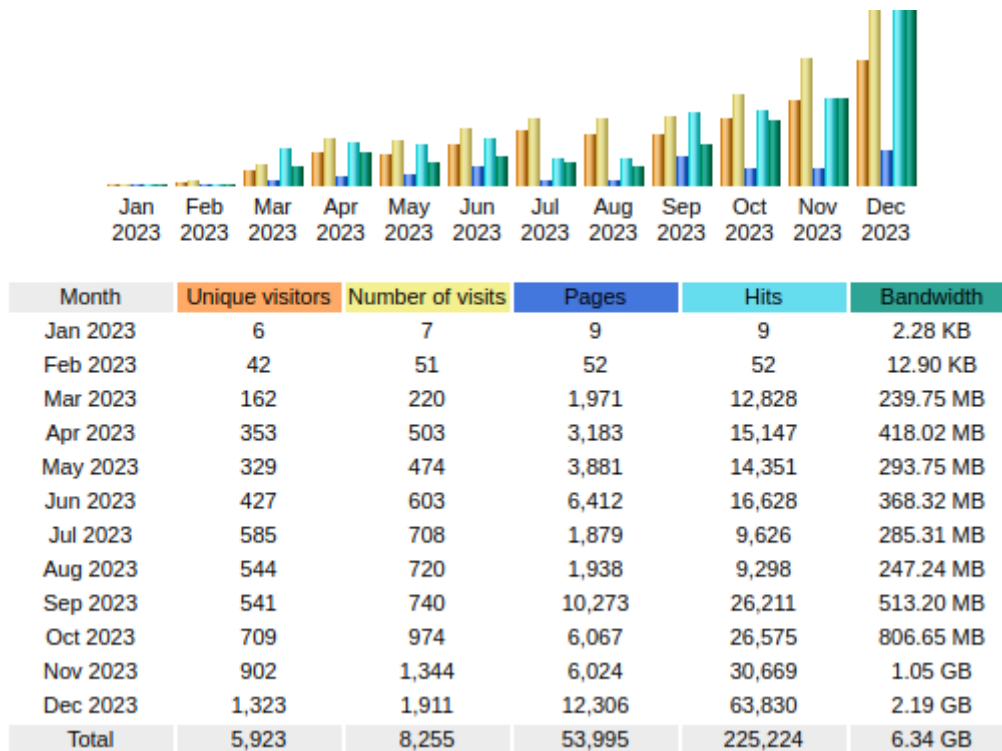


Figure 19 - Monthly visitor statistics for qci-cat.at in 2023.

Summary

The QCI-CAT website is one of the main communication channels of the project with the potential to reach the general public, stakeholders, decision makers, academia, and many more. Hence the website is aimed to provide an overview of the goals and use cases of the project on a visually appealing and easily navigate-able website. Beyond the goals of the project, visitors are also informed on project results including publications and are provided with download links to the public deliverables of the document. With the possibility to also inform about all project related activities, the website fulfils its purpose in line with the dissemination and communication plan [1].



Appendix A - List of Acronyms

- CMS: Content Management System
- LTS: Long term support
- QCI: Quantum Communication Infrastructure
- QCI-CAT: QCI: Proof of Concept – Secure Connectivity Austria
- TLS: Transport Layer Security
- WYSIWYG: what you see is what you get



Appendix B – Bibliography

- [1] QCI-CAT Consortium, "D10.2: Dissemination, communication and exploitation plan," 2023.
- [2] S. Bradley, "3 Design Layouts: Gutenberg Diagram, Z-Pattern, And F-Pattern," vaneo design, 2021.
[Online]. Available: <https://vaneodesign.com/web-design/3-design-layouts/>.