



Algorithmic Anthropometry.

The digital measurement of the human individual for the purpose of governing.

Why privacy matters

Primary Contact:	Tilmar Goos
Amount requested:	\$15,000 USD (upon completion of grant)
Grant Description:	<p>My proposal aims to advance Zcash's privacy-focused blockchain technology through cutting-edge research and community-building initiatives, fostering greater adoption and enhancing financial privacy for individuals and institutions alike.</p> <p>The rapid growth of big data and its increasing use in government, business, and other domains has raised concerns about the potential impact on citizens' privacy. As governments and other organizations collect and analyze vast amounts of data on individuals, questions arise about how this information is being used and whether citizens have sufficient control over their personal information. In particular, the push for transparent citizen services, which aims to use big data to improve public services and enhance government transparency, has led to a tension between the benefits of data-driven decision-making and the need to protect citizens' privacy. While big data can help to identify patterns and insights that may improve public services, citizens may feel uncomfortable with the level of data collection and analysis required to achieve these benefits. Therefore, it is important to examine the trade-offs between the potential benefits of big data in transparent citizen services and the privacy concerns</p>

raised by this approach. The problem statement then becomes how to balance the benefits of big data and transparent citizen services with citizens' right to privacy, to ensure that individuals can trust the use of their data by the government or any other entities, while improving public services in a meaningful way.

The purpose of this proposed project is to raise awareness of the importance of privacy in the digital age and to promote responsible data practices among individuals, businesses, and governments. Its ultimate goal is to widen the footprint of Zcash in a professional manner. In today's interconnected world, personal information is increasingly being collected, stored, and shared by a wide range of entities, and the potential risks to privacy and security are growing.

This proposal will produce:

- Academic Research & Publish of the papers
- Several Zcash Blockchain Workshop & Presentations
- Community Growth
- Event participation & organization
- Consulting sessions on Zcash wallet set up
- Regulatory engagement
- Partnerships with universities and research institutions

The goal of this project is to produce a research paper, several workshops throughout the year, and education sessions that will promote meaningful data management, community growth, awareness, and engagement with zCash. By bringing together experts from various fields, I aim to develop a deeper understanding of how big data can be used to enhance transparent citizen services while preserving privacy. The research paper will serve as a valuable resource for policymakers, practitioners, and researchers seeking to balance the benefits of big data with citizens' privacy concerns. In addition, the workshops and education sessions will provide a forum for discussion and exchange of ideas, allowing participants to learn from one another and explore new approaches to data management and privacy protection. By fostering a strong community of stakeholders, I hope to increase awareness and engagement with zCash, a cryptocurrency that emphasizes privacy and anonymity. Overall, this project aims to contribute to the growing field of big data and privacy, while promoting community growth and engagement with zCash.

Like any project, there are potential execution risks associated with this proposal. One major obstacle I may face is attracting and engaging a diverse set of stakeholders. I will need to ensure that

our workshops and education sessions are inclusive and accessible to individuals from different backgrounds and areas of expertise. Another challenge may be balancing the need for meaningful data management and privacy protection with the benefits of big data in transparent citizen services. It will be essential to involve experts from multiple disciplines and perspectives to develop a comprehensive approach that addresses these competing priorities. To address these challenges, I plan to take a collaborative and iterative approach, continually seeking feedback from stakeholders and refining my approach as needed. I will also prioritize transparency and communication to build trust and engagement with the community. Finally, I will work closely with partners to ensure that I have the necessary resources and expertise to carry out the project successfully. By taking a proactive and collaborative approach, I believe I can overcome these execution risks and make meaningful contributions to the field of big data and privacy.

While the goal of this project is to promote meaningful data management, community growth, awareness, and engagement with zCash, there may be unintended consequences if the project is successful. One potential negative ramification could be the over-reliance on zCash and other blockchain-based solutions, leading to a lack of diversity and competition in the market. Another unintended consequence could be the increased complexity and technical debt associated with the use of blockchain technology, which may make it difficult for smaller organizations and individuals to participate in transparent citizen services. Additionally, there may be privacy implications if zCash is used inappropriately or if individuals are not sufficiently educated on its use and potential risks. Finally, there may be challenges related to interoperability and maintainability if zCash is not widely adopted or if other blockchain-based solutions emerge as competitors. To mitigate these unintended consequences, I will need to prioritize education and communication to ensure that individuals and organizations have a comprehensive understanding of the benefits and risks of using zCash and other blockchain-based solutions. I will also need to promote interoperability and diversity in the market, and work closely with partners and stakeholders to ensure that the technology is stable, secure, and accessible to all. By addressing these potential unintended consequences proactively, I can help to ensure that the benefits of big data and blockchain technology are realized while minimizing any negative ramifications.

To evaluate the success of this project, I plan to share several quantitative and qualitative metrics with the community.

Quantitative metrics will include the number of individuals and organizations that participate in our workshops and education sessions, the level of engagement and feedback we receive from the community, and the number of downloads and citations of our research paper.

In addition to these quantitative metrics, I will also commit to reporting qualitative metrics that reflect the impact and effectiveness of our project. These may include case studies or testimonials from individuals and organizations that have successfully implemented zCash in their transparent citizen services, as well as feedback and suggestions from participants in our workshops and education sessions. I will also seek to capture the extent to which our project has contributed to community growth, awareness, and engagement with zCash, and any changes in perceptions and attitudes toward the use of blockchain technology for transparent citizen services.

Overall, I believe that sharing both quantitative and qualitative metrics will provide a more comprehensive and nuanced evaluation of the success of our project. By tracking both the adoption and use of zCash and the impact of our education and engagement efforts, we can ensure that our project is making meaningful contributions to the field of big data and privacy, while also promoting community growth and awareness. To ensure effective tracking of the project's success, it will be divided into several milestones, each with specific objectives, timelines, and deliverables.

To effectively execute this project, it is crucial to provide a competitive and reasonable total compensation budget. By providing a well-structured and competitive compensation package, I can ensure that I am fully committed to the success of the project and that we achieve our objectives in a timely and efficient manner.

First Milestone:

finalize & publish first paper (approx. 7 pages, 3,500 words single spaced) + offline presentation in Zurich.

Second Milestone:

finalize & publish second paper (approx. 7 pages, 3,500 words single spaced) + offline presentation in Zurich.

Third Milestone:

finalize & publish thirds paper (approx. 7 pages, 3,500 words single spaced) + offline presentation in Zurich.

The aim is to achieve the milestones throughout 2023.

	<p>The project timeline was determined based on several factors, including the scope of the project, the available resources and expertise, and the desired outcomes and deliverables. To create a realistic timeline, I started by breaking down the project into several phases, each with specific objectives, tasks, and timelines. I then estimated the time required for each task, taking into account factors such as the level of complexity, available resources, and dependencies on external entities. In addition, I conducted consultations with relevant stakeholders, external partners, and the community, to gather input and feedback on the timeline and make any necessary adjustments. I also allowed for some flexibility in the timeline to accommodate unexpected events or changes in project priorities. Overall, the project timeline was determined through a collaborative and iterative process that took into account the project's scope, resources, and desired outcomes. By carefully planning and monitoring the project timeline, I can ensure that I stay on track and achieve our goals in a timely and effective manner.</p> <p>As a member of this community, I am familiar with these channels and have been actively participating in discussions and sharing insights on topics related to Zcash, blockchain technology, cryptography, and privacy. I am interested in the importance of privacy which led me to discover the Zcash Community Grants program, which provides an opportunity to support and contribute to the development and advancement of technologies that promote privacy and financial freedom. By applying for this grant, I leverage my knowledge and skills to make a meaningful impact on the Zcash community and help to shape the future of privacy-focused blockchain technologies.</p>
Team:	<p>Tilmars professional experience ranges from business, IT, tax and legal consultation but also to the work with several renowned blockchain and crypto projects such as the set up of large Bitcoin Mining Facilities in Quebec Canada in early 2017, advising at the United Nations New York on Policy Aspects of blockchain technology. Tilmar held the position as the Legal Counsel of Cardano Foundation, worked as a IT Project Manager at SEBA Bank, the first pure digital asset bank in Switzerland where he joined before the Banking license was granted, He taught at its SEBAversity and worked as a Senior IT Business Analyst at Bank Frick in Liechtenstein, the first private bank offering blockchain banking to crypto companies. Most recently he joined Copper.co - amongst the largest institutional custodian for digital assets as a Business Developer where he shapes the strategy to enter the Swiss and Liechtenstein market. Tilmar Goos is a Ph.D researcher specialization into accounting where he focuses on accounting,</p>

accountability and the role of privacy in Big Data management (including financial data), Digital Ethics and the role of blockchain technology. His research is facilitated by the University of Minho, where he collaborates with Prof. Dr. Carlos Menezes.

Tilmar is the author of the “Banking Bitcoins Taxation Handbook — The Handbook of International Money Management and Digital Assets” bbthandbook.com, the only book you can purchase with fiat and cryptocurrencies. He voluntarily Chairs the Crypto Valley Association Working Group Education and initiated the Call-For-Papers 2022 and regularly participates in panels discussions or acts as a keynote speaker.