



Secure Shared Computation in the Public Cloud

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Income Analysis

Problem : How to analyse income
and preserve privacy,
and optimize infrastructure costs by using the cloud

Solution: Sharemind® on the public cloud:

- ⊙ Amazon EC2,
 - ⊙ Microsoft Azure and
 - ⊙ Zone Media.
- ⊙ None of the cloud service providers can access data - individual incomes, or find out who they belonged to.

← → ↻ <https://sharemind.cyber.ee/clouddemo/> ☆ » ☰

INTRODUCTION • **REPORTS** • **SOURCES** • **ABOUT SHAREMIND** • **CONTACTS**

Income analysis
of the Estonian public sector



Welcome to the income analysis of the Estonian public sector!
This page compiles information from several public sector institutions in Estonia **into a short analysis.**

The information is collected from the ministries and municipalities of Estonia and entered into a **cloud service based on Sharemind.** Sharemind uses secret sharing to guarantee that data stays anonymous during both collection and processing. The cloud servers compute statistics without reconstructing any of the private values.

[Click here to access the report](#)

<https://sharemind.cyber.ee/clouddemo/>

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Current state

- ⊙ Privacy preservation, even against insider attacks, cost optimization and sufficient performance are achieved
- ⊙ Privacy-preserving
 - ⊙ data acquisition (existing sources or data entry)
 - ⊙ database linking
 - ⊙ statistical analysis
 - ⊙ integration with reporting tools

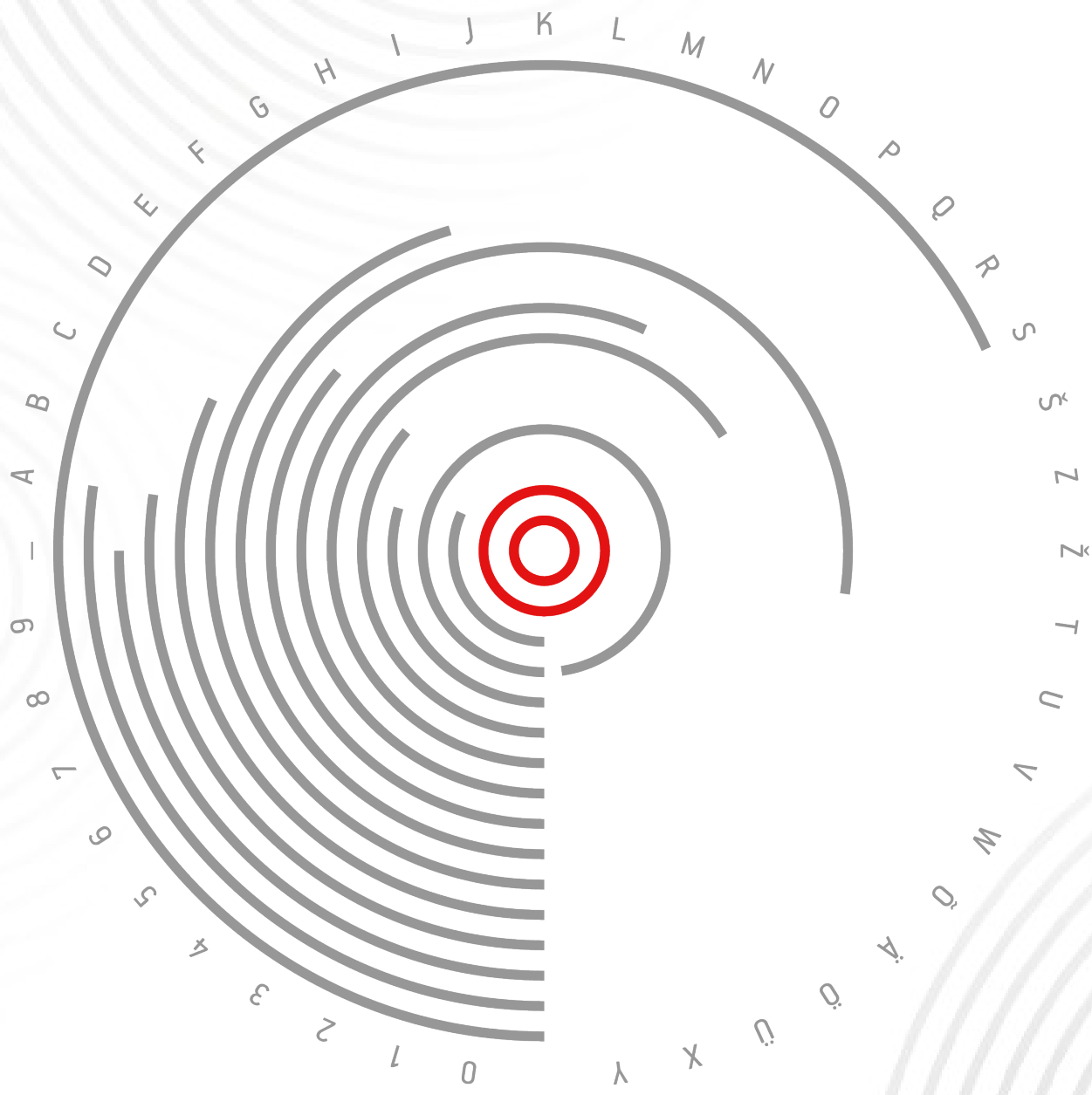
Where Next?

Future state:

- ⊙ EU Framework 7 project PRACTICE with top European experts
<http://www.practice-project.eu/>
- ⊙ Bringing privacy-preserving cloud solutions to the market



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