



## A Novel Decentralized Exchange for Encointer Community Currencies

Encointer is a decentralized proof-of-personhood protocol which aims to enable local community currencies with basic income and subsidiary democracy with one-person-one-vote without relying on any centralized authority to act as a bank or issuer of identity documents.

In this thesis we aim at solving the problem of enabling trade and global democracy between different communities that might not trust each other. Specifically, a socio-economic approach to building a global web-of-trust shall be investigated, where we allow all local community currencies to be exchanged on a novel type of decentralized exchange (DEX).

Such a DEX and possible alternative approaches shall first be analyzed theoretically in terms of protocol security and economics. Then, a prototype shall be implemented in Rust, using the substrate framework (as used by Polkadot). Optionally, the prototype shall be deployed on Encointer's public Testnet and bots can be scripted to simulate realistic behavior.

**Requirements:** Knowledge of the Rust programming language is a plus. We will have weekly meetings to discuss open questions and determine the next steps.



**Interested? Please contact us for more details!**

### Contact

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