

Project Close-out Report

Challenge Setting	F8: Cardano scaling solutions
Name of project	Simplify SPO rollups in Vietnam
URL in ideascala	https://cardano.ideascale.com/c/idea/399806
Project ID	800319

Name of project manager: **Hieu Nguyen Van**
Date project start date: May 8, 2022
Date project Tentative complete date: November 30, 2022

Report Date: Nov 23, 2022

Challenge KPIs and how the project addressed them :

We have done the work on this project to achieve the KPIs as registered:

Part 1:

- We translate SPO related documents from Cardano Developer such as: Why is Cardano?; introduction into Cardano; 05 lectures on installing a Cardano node, running a node, using cardano-cli, EUTxO Model, Generate wallet key and address, create transaction, Create wallet and address of Stake Pool, Create and register Stake Pool, Mechanism commit (Pledge), Secure your keys, Logging and monitoring with Prometheus, Grafana Dashboard;

- Translate Handbook documents about SPO.

Part 2:

- We simplify the installation steps by creating simple scripts such as: Create USB boot and Air-gap; The process of creating wallets and pools using cntools with maximum security; Install a node on the Cardano mainnet; Configure connection of nodes; Create wallet and pool with cntools; Configure BP node and protect important files; 04 videos documenting Pool creation with cntools.

Part 3:

- How to install a Stake Pool on a mini computer: "Raspberry Pi Pool Kit" with clean energy (using solar energy)

Documents are uploaded to website <https://cardano2vn.io> and [23 videos on Youtube channel](#) including videos of seminars shared for the Vietnamese community.

Key achievements (in particular around collaboration and engagement):

We achieved the following results in this project:

- Installation document
- [Physical Packaging of the stake pool kit release](#)
- Support 3 Vietnamese SPOs to launch pools on the cloud,
- Create and support 2 SPOs using the Raspberry PI Pool kit

All pictures and videos are shared [here](#)

Key learnings

- The installation and operation of the stake group is for technical people only because the documentation is not simple enough. This limits the diversity of people involved in the SPO.
- It is rare for any stakeholder group to be using clean energy due to the lack of a simple and comprehensive solution. We needed an affordable all-in-one solution for this.
- **We have addressed the above issues by focusing on:** Create and optimize simple, [4-video tutorials](#) and setup, operating scripts in Vietnamese so that many non-technological users can deploy and operate their own stake group on their diverse infrastructure.
- These documents will be created based on the cloud operations, VPS, VM on-premises. [Provide pre-configured solar-powered stake pools to the market](#). These are gear boxes pre-installed with BP, Replay, solar panels, batteries.. Users just need to download the wallet address and take the minimum steps to have a pool of shares available.
- In the past time, we have been a partner of 3 groups on Cardano to support technical infrastructure, develop Open ISPO, support SPOs in Vietnam and create a playground for the Community as: BlockTree; WMTViet; Miverse.
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Next steps for the product or service developed:

- We continue to support and create SPO services for all SPOs on the Cardano Blockchain.

- We continue to look for reliable partners to grow together.

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Final thoughts/comments:

- SPO is the core infrastructure of Blockchain. it needs to spread knowledge and decentralize both geographically and ownership. SPO is the infrastructure for Hydra, Mithril... in the future.

Links to other relevant project sources or documents

Cardano2vn website :

<https://cardano2vn.io/>

<https://cardano2vn.io/docs/stake-pool-course>

Cardano2vn youtube channel: [Playlist Simplify SPO rollups in Vietnam](#)

Completion video: <https://youtu.be/RX6koZToZ-g>