

DỰ ÁN:

V-CHAIN: A BLOCKCHAIN-BASED PLATFORM FOR DEVELOPMENT AND DEPLOYMENT OF DECENTRALIZED APPLICATIONS

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Motivation and Objectives

Motivation: most blockchain applications today are written as static, tightly tied, one-time application code and deployed as smart contracts/chain-codes. Many common problems when developing and deploying DApps:

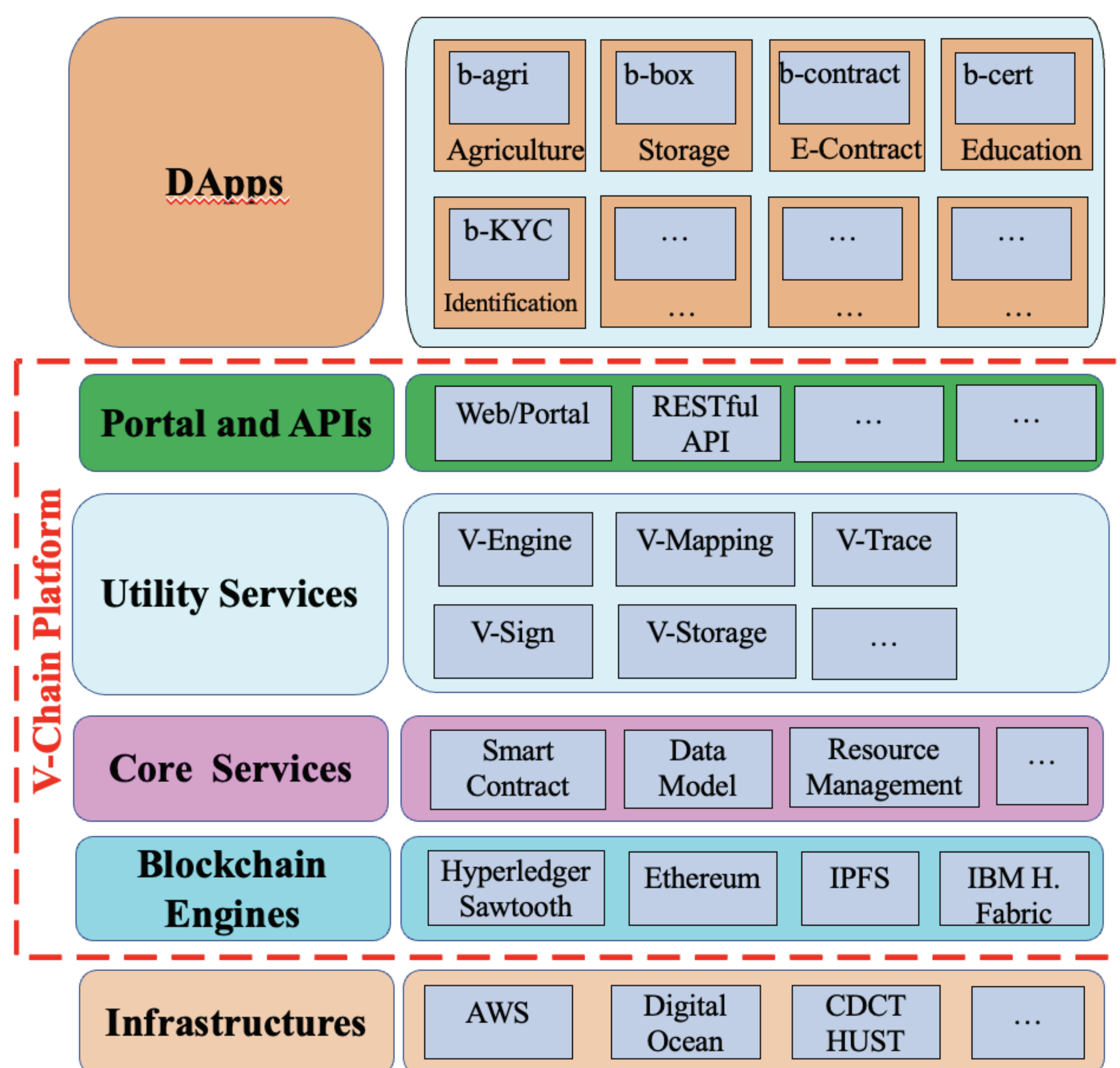
- How to reuse developed code?
- How to deliver end-to-end security with other integrated applications
- How to store data outside blockchain

Objectives: creating a new blockchain-based platform (named as V-Chain) with features:

1. Support developers to build and deploy decentralized applications in an easy way
2. Open research directions on blockchain area
3. Build real solution and applications
4. Publish on top journals/conferences
5. Registration of intellectual property

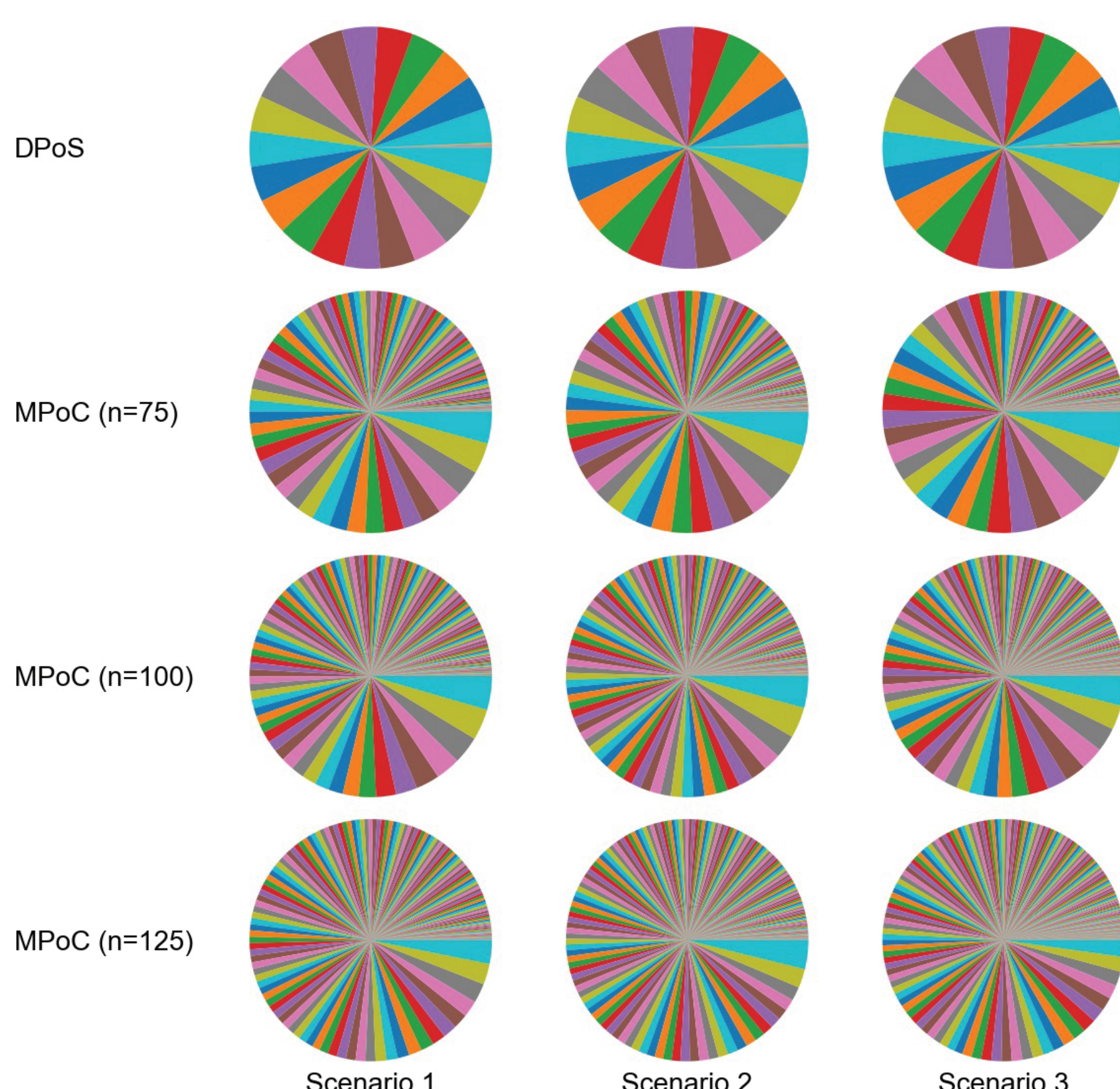
V-Chain Architecture

- Sits on top of key state-of-the-art blockchain engines
- Offers prewritten services facilitating blockchain business application development and management



Achieved Results

MPoC Consensus Protocol: Percentage of the node number become block producers



Project Outcomes

- V-Chain platform prototype
- 01 US patent publication
- 11 publications (4Q1 journals, 3 rank A conferences)
- 04 Msc. theses
- Support 02 Ph.D. theses
- 02 prototype applications (tracing agriculture products & certification verification)
- Premise for 02 startup development

BML: A Data Mapping Language for Blockchain

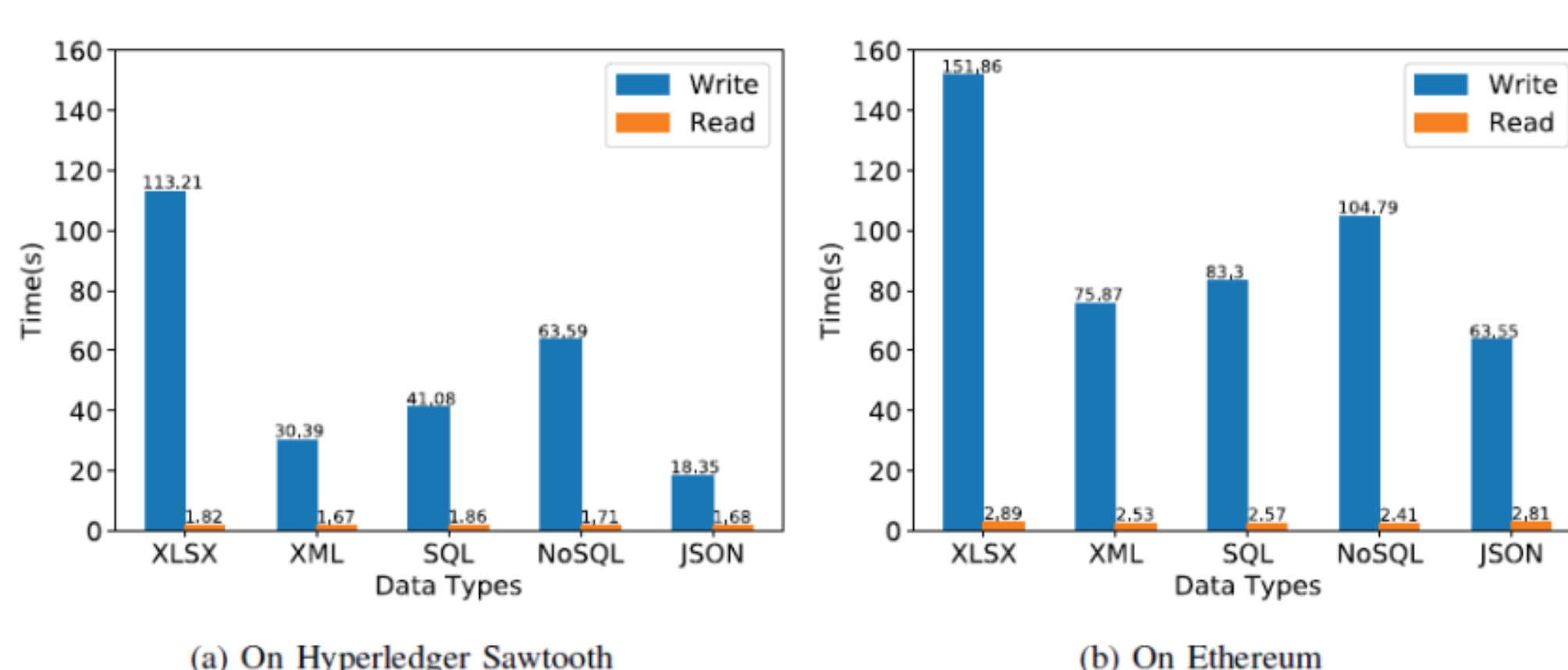
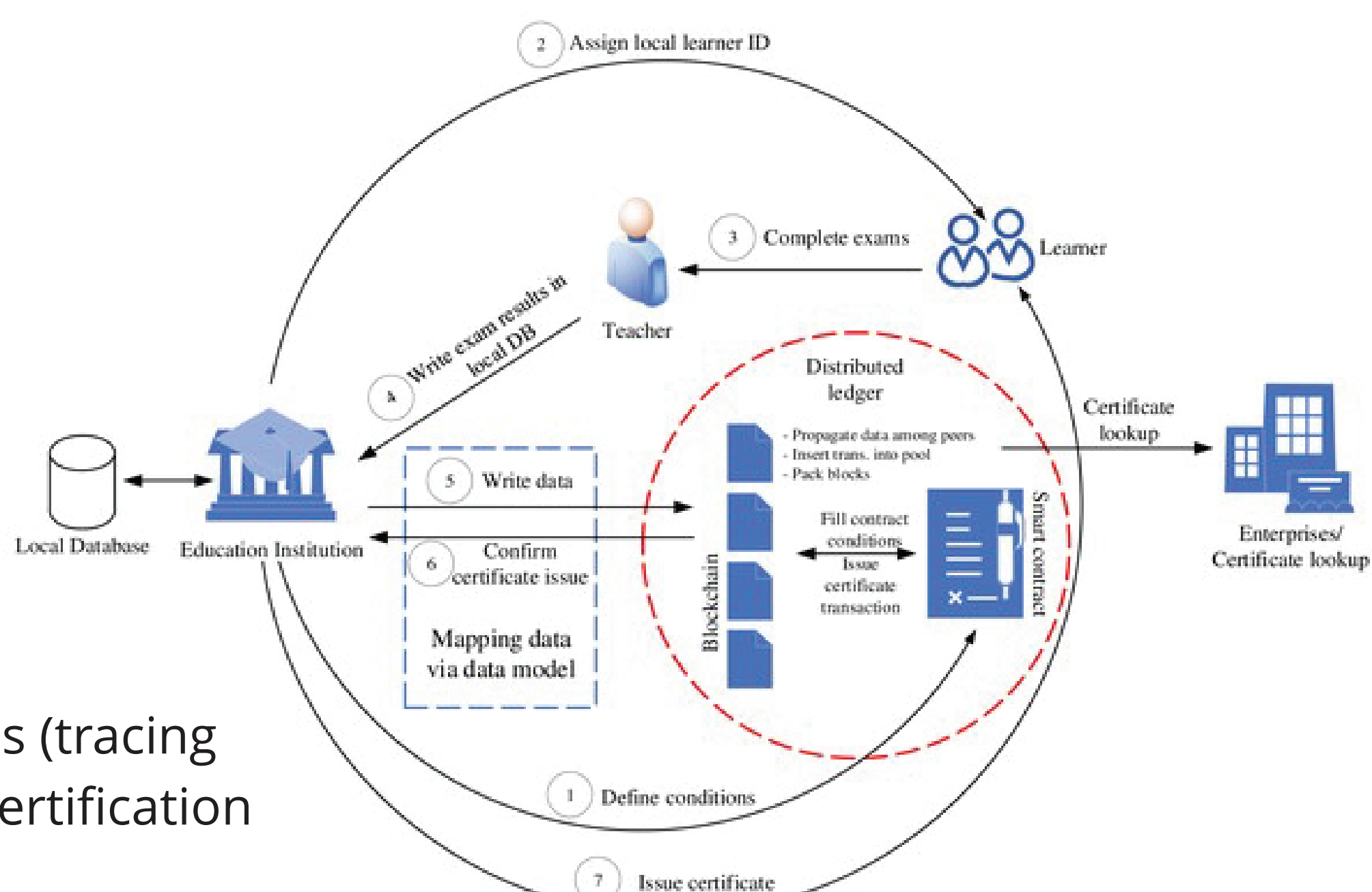


Fig. 2: BML Performance

Blockchain-based certificate authentication system



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🌐 <https://v-chain.vn/>

GIẢI THƯỞNG
NHÂN TÀI ĐẤT VIỆT

Vietnamese talent encouragement prize in 2019