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Explore EXPANDER Bootcamp – Q1 - 25

Team

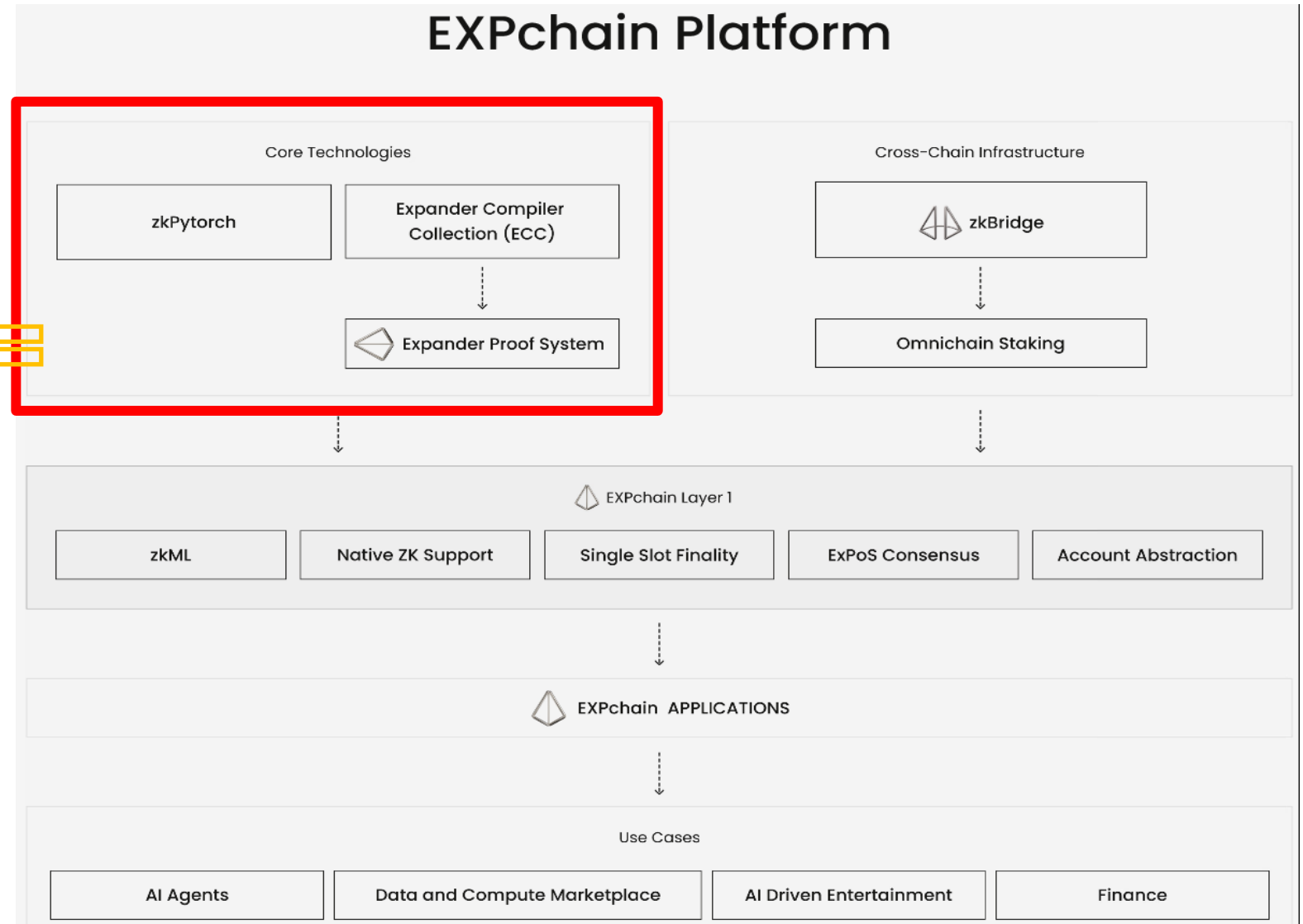
Arcadio Garcia

EXPchain Platform

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Bounty Track

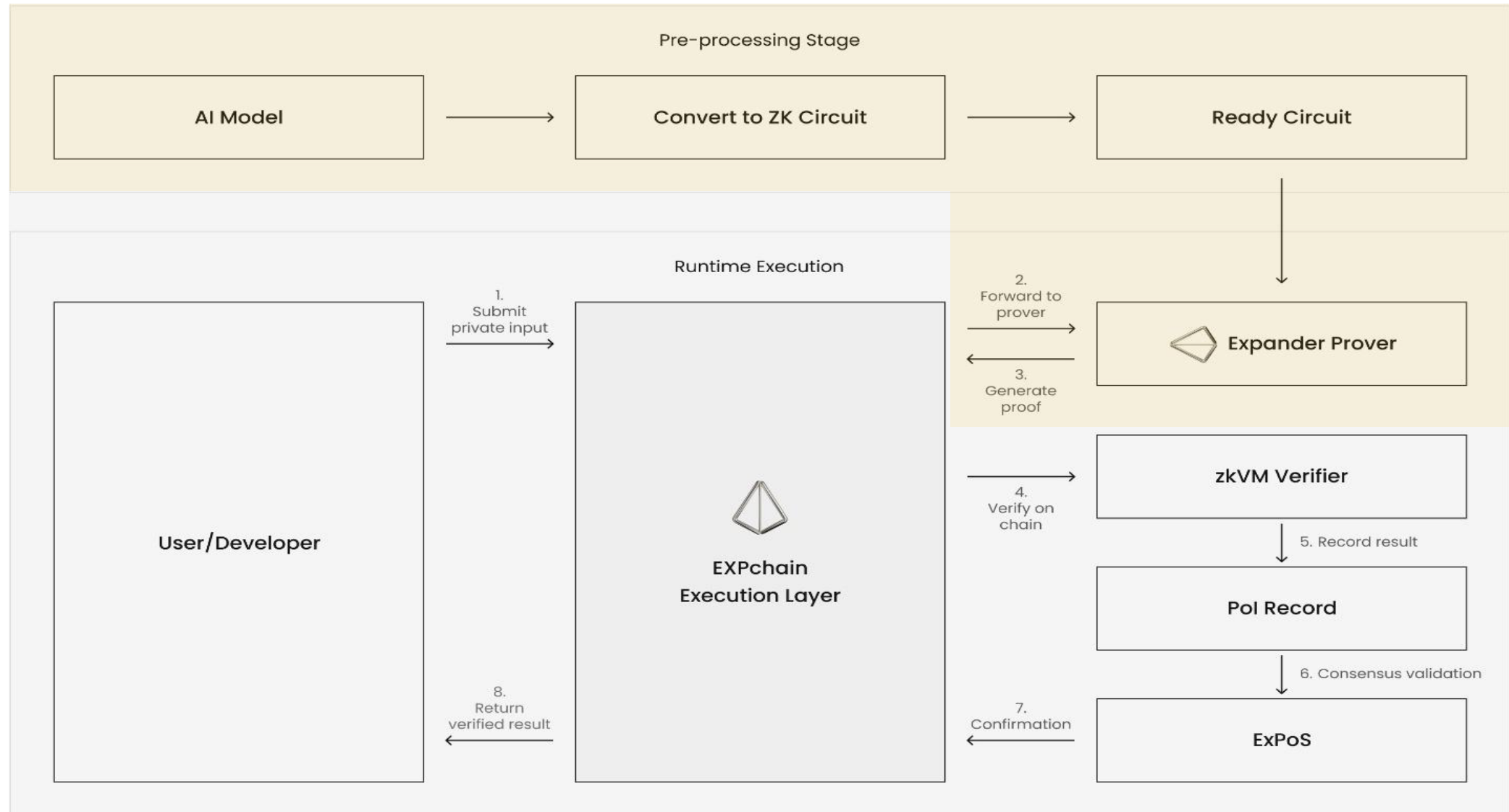


<https://expchain.ai/>

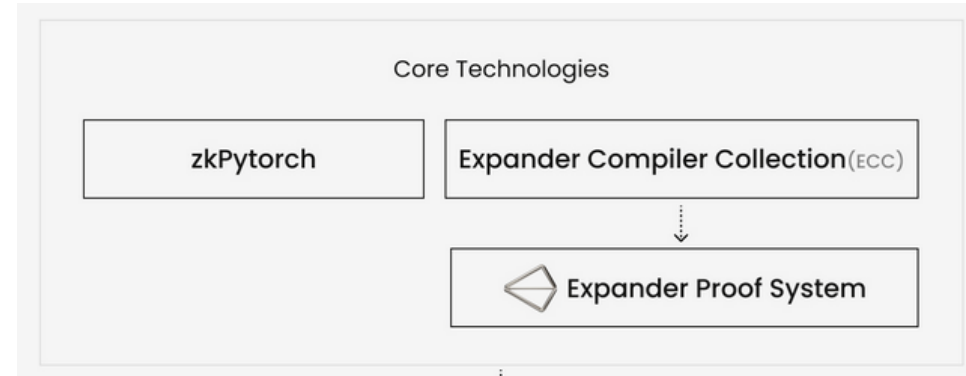
General Process

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Process workflow – **Big** steps



In a typical workflow:

1. Implement the circuit in our circuit frontend language **RUST**.
2. Use [ExpanderCompilerCollection](#) to compile the **circuit** into layered circuit.
3. Use [Expander prover](#) to generate and verify proofs. You may also use integrated prover inside the compiler.

Process workflow – Detailed steps

Pre-Processing stage

- 0 . Synthetic Data generator
- 1 . ML model -> Find and Train an ML model **PyTorch**
- 2 . Export the ML model to **ONNX** - Open Neural Network Exchange
- 3 . Convert to ZK Circuit -> Use **ECC** - Expander Compiler Collection

Runtime stage

- 4 . ZK circuit – **Expander** Prover -> Generate a circuit with a proof a prediction
- 5 . Smart contract to validate on-chain
- 6 . Proof storage **EXPchain**

Project Statement

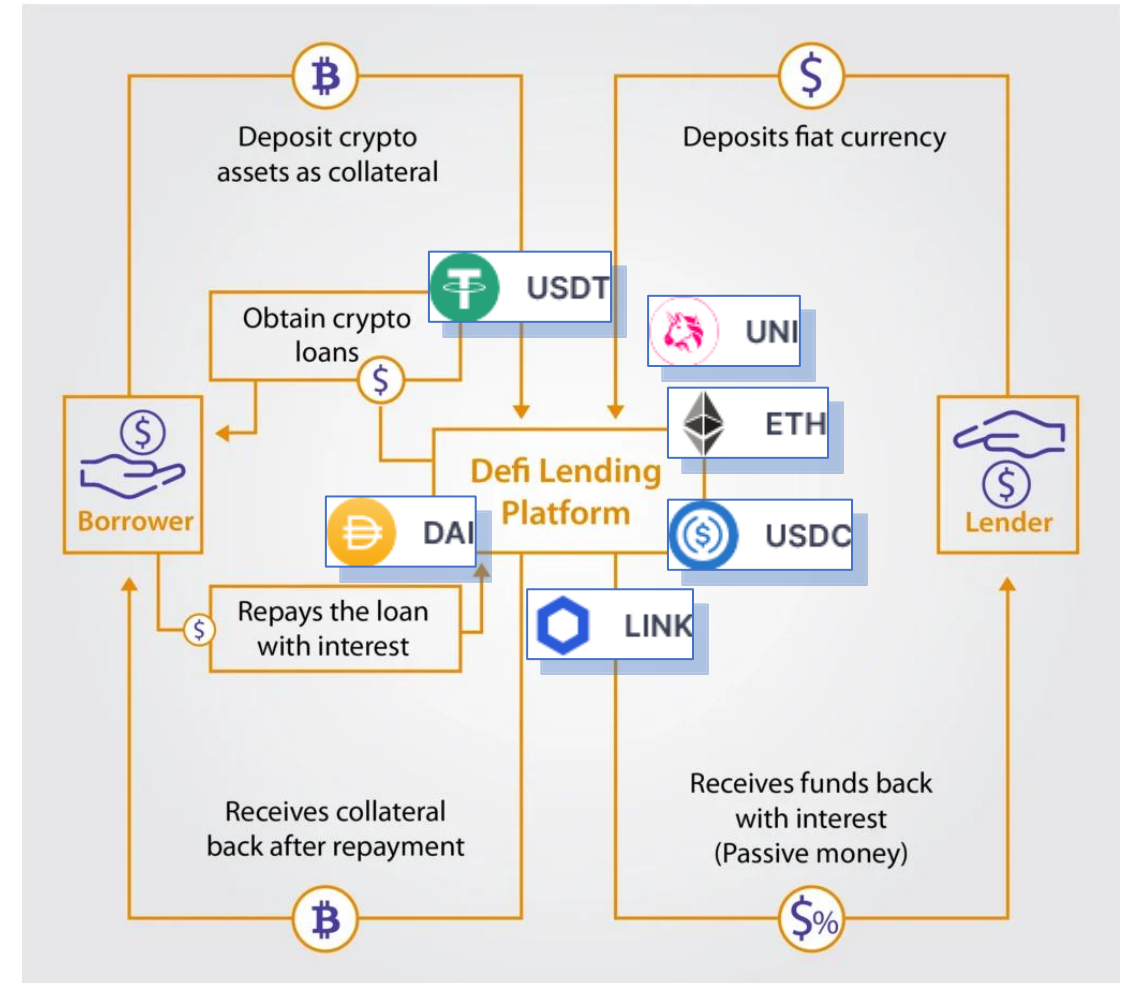
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DeFi Lending and Borrowing



Decentralized Lending/Borrowing is implemented through Smart Contracts that let users LEND or BORROW digital assets at fixed or variable interest rates.



Project Statement

DeFi Lending and Borrowing



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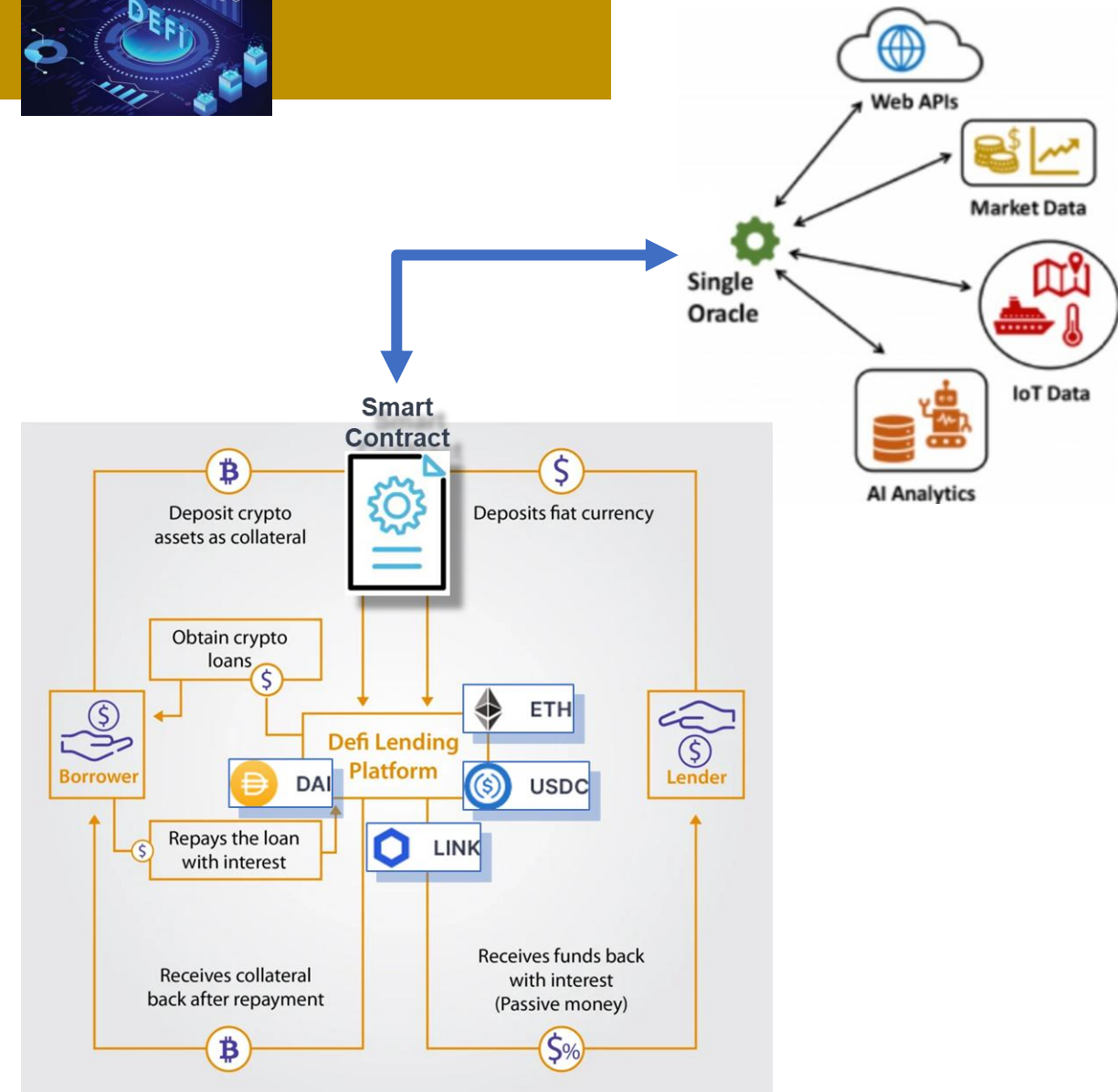
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ORACLES Integration

Oracles serve as the data-bridges for DeFi applications, enabling **Smart Contracts** to interact with external data sources, and they provide this information by fetching data from multiple trusted sources and delivering it to the blockchain.

Oracles provide **accurate** and **real-time**:

- > **price feeds** for assets
- > interest rates
- and
- > collateral values



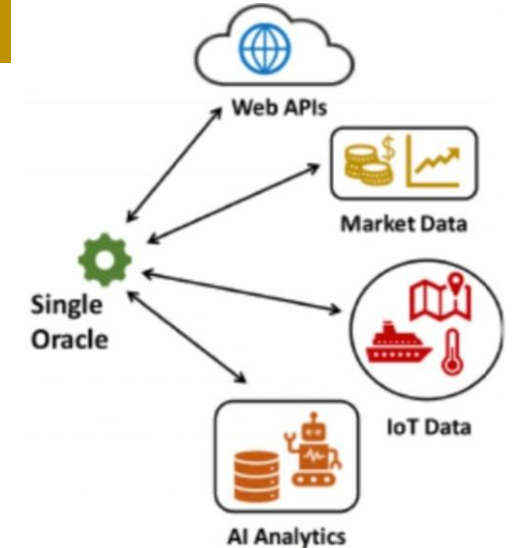
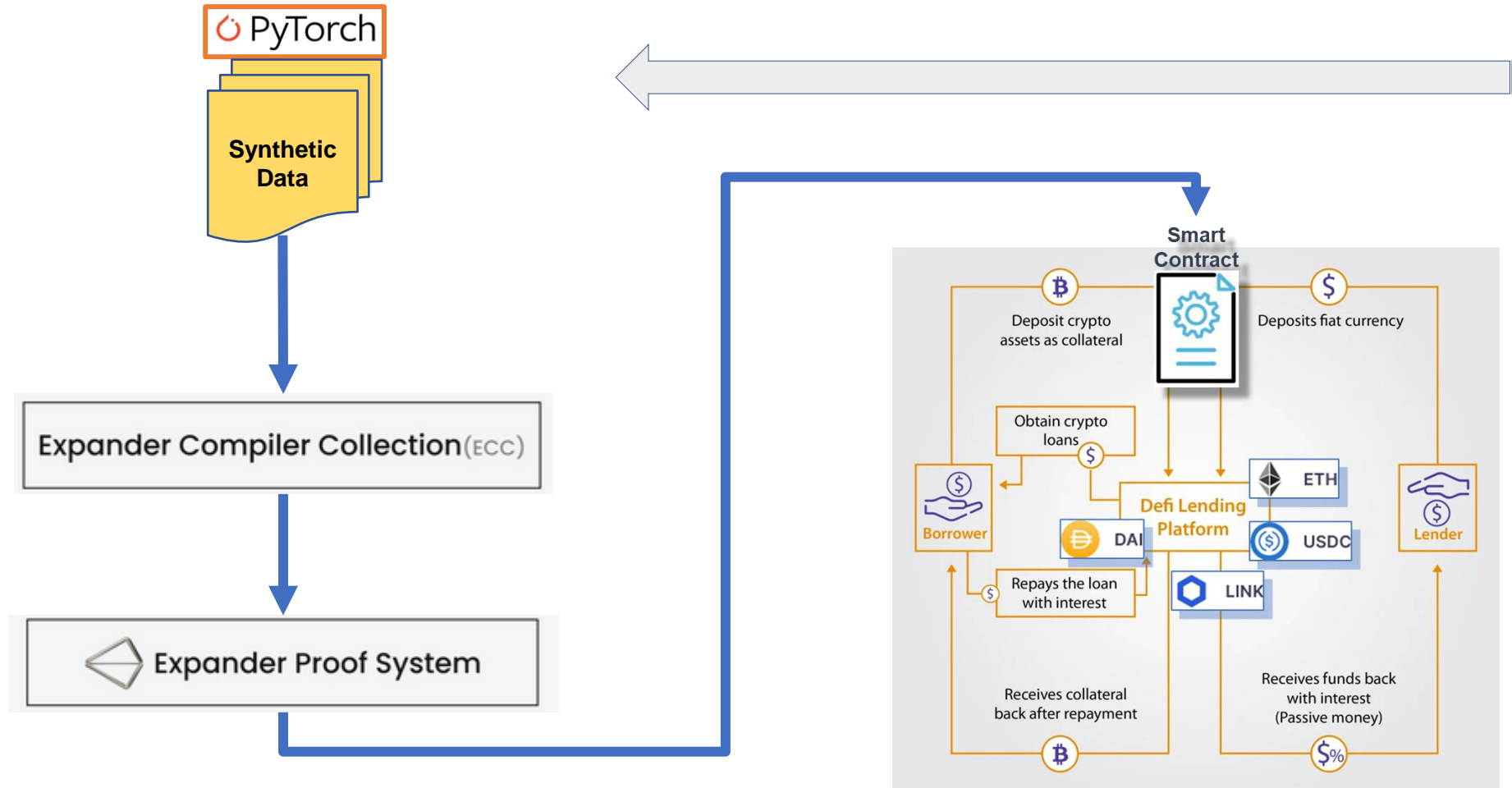
Project Statement

DeFi Lending and Borrowing



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