Case Novartis

Blockchain Challenge 2021

Team 8

May 11, 2021

The Team

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UniBas, PhD Candidate
Pharmaceutical Sciences

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Business Information Systems

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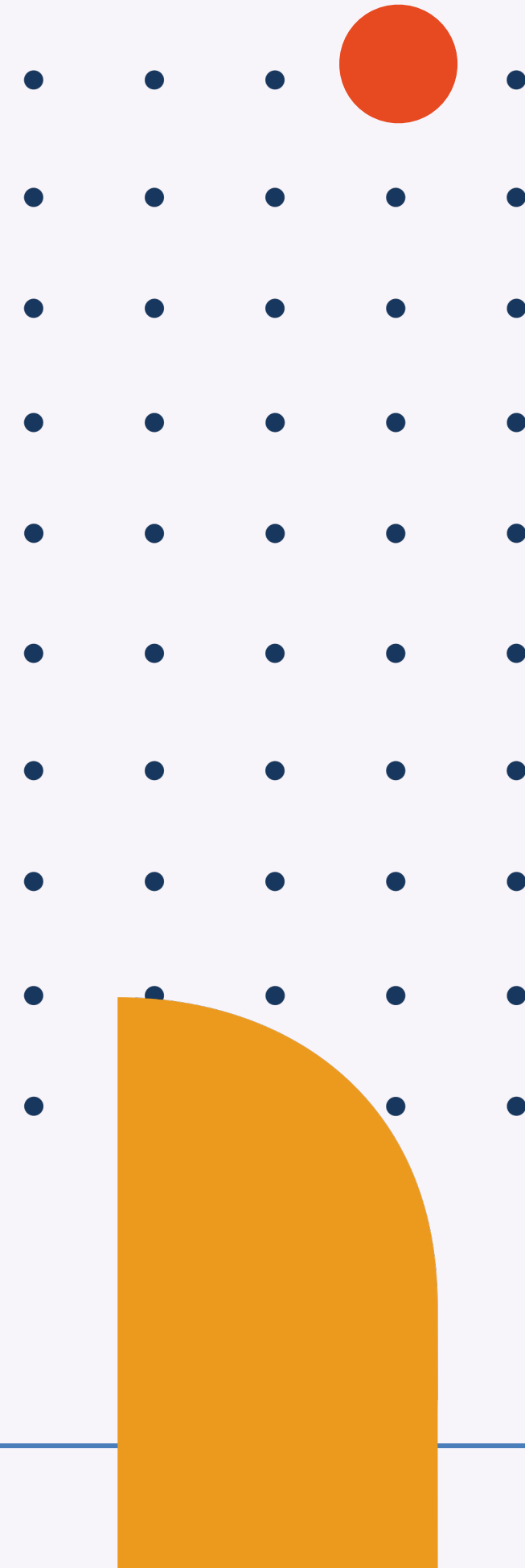**Business&Economics**

Josep Brunet Kunz
ETH, MSc Student
Biotechnology

Agenda

1. **Introduction to PharmaLedger**

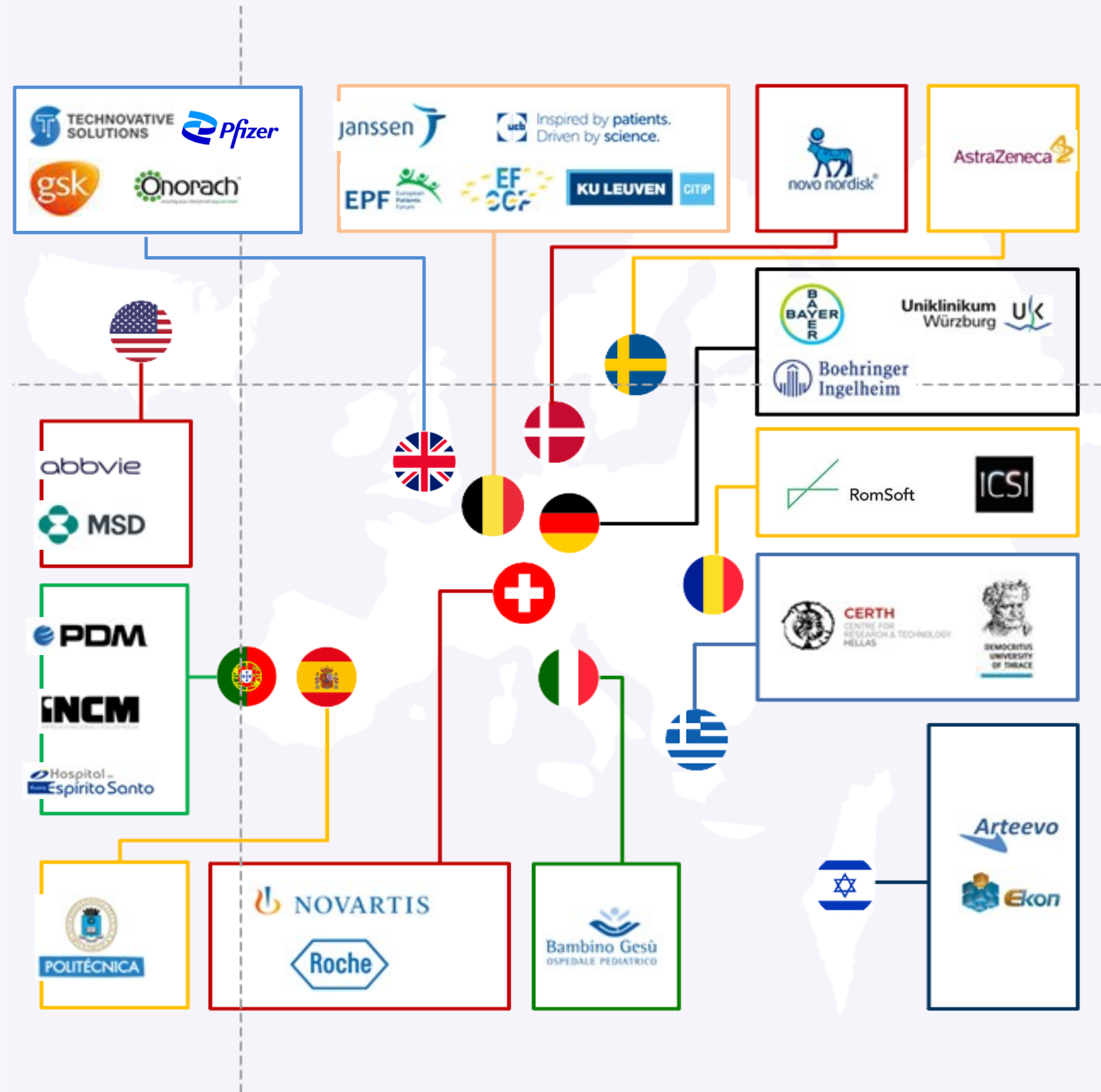2. **ePI demo**

3. **Incentive Model & Governance**

4. **Mockup**

1. Introduction to PharmaLedger

Team Novartis - Blockchain Challenge 2021

→ **29 members**
→ **8 use cases**
→ **Different focus points:**
  → **Supply Chain**
  → **Clinical Trials**
  → **Health Data**
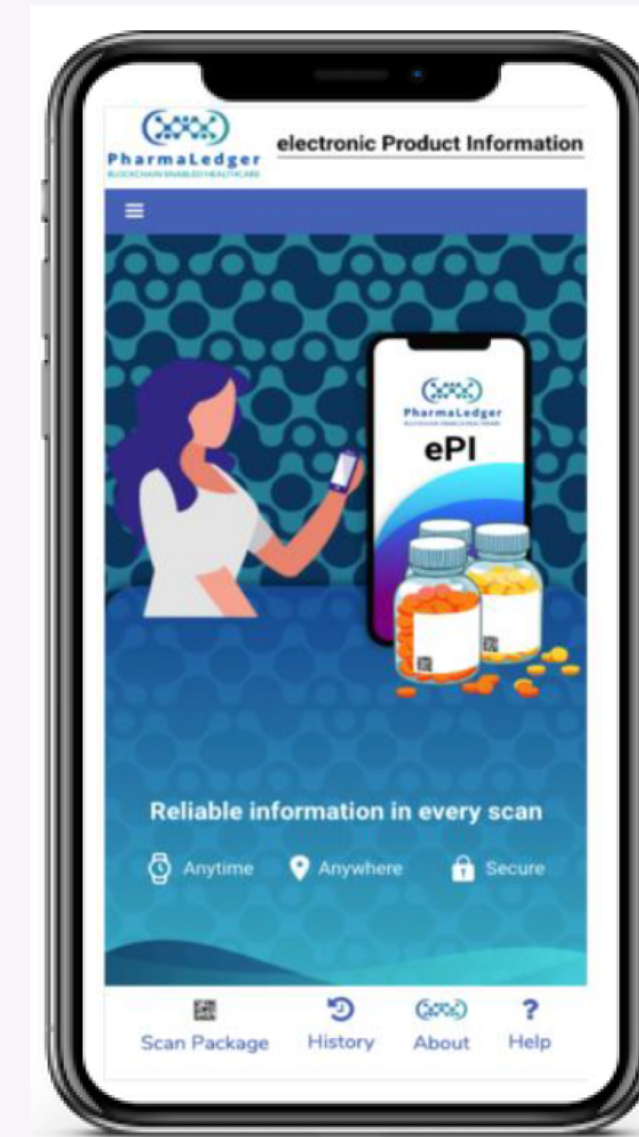
What already exists

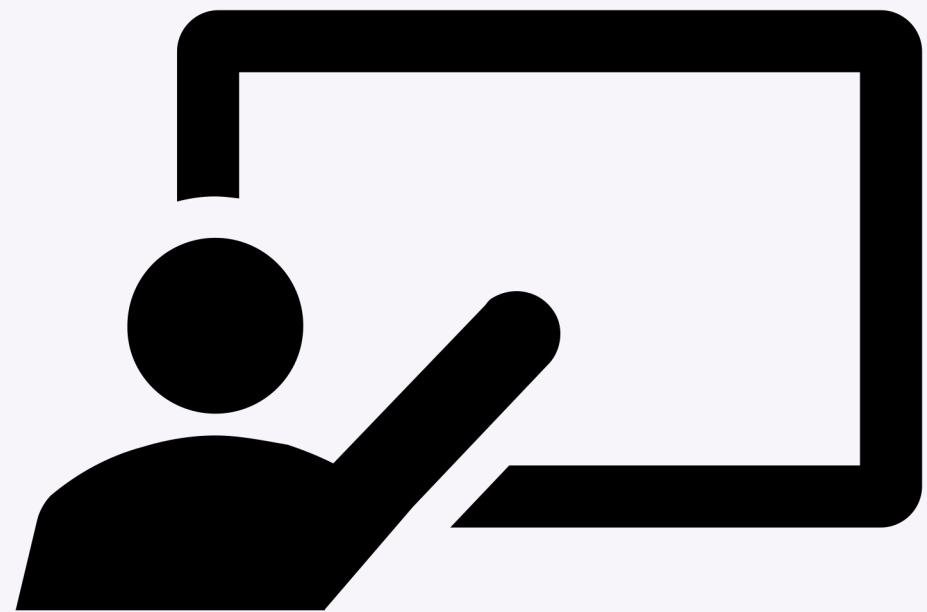ePI most advanced application within PharmaLedger

The Stakeholders

Manufacturers, Patients, and Developers

Our Mission
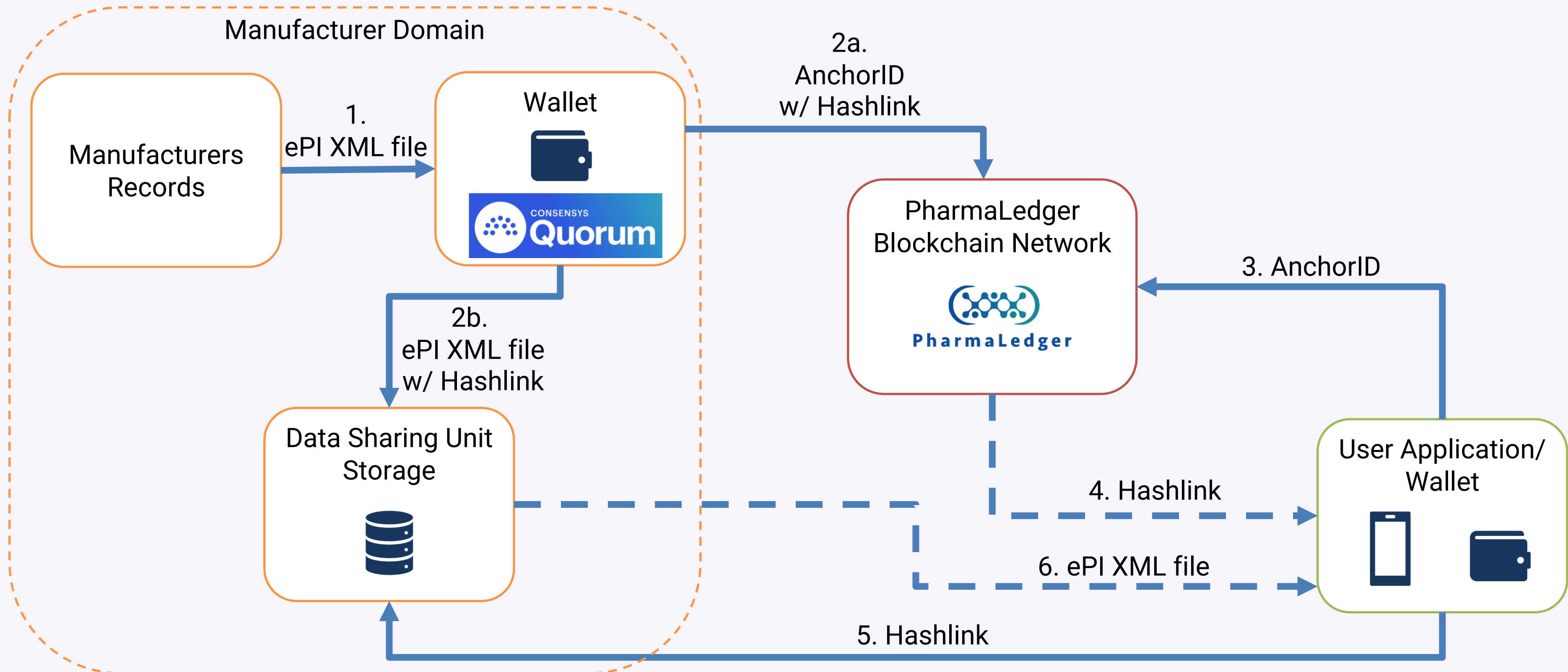
Governance & Incentivization

2. ePI Demo

Architecture

Manufacturer Domain

Manufacturers Records

1.
ePI XML file

Wallet

CONSENSYS
Quorum

2a.
AnchorID
w/ Hashlink

PharmaLedger
Blockchain Network

PharmaLedger

3. AnchorID

2b.
ePI XML file
w/ Hashlink

Data Sharing Unit
Storage

4. Hashlink

6. ePI XML file

User Application/
Wallet

5. Hashlink

Key Stakeholders

Patients

Regulator
Transparency

Manufacturers
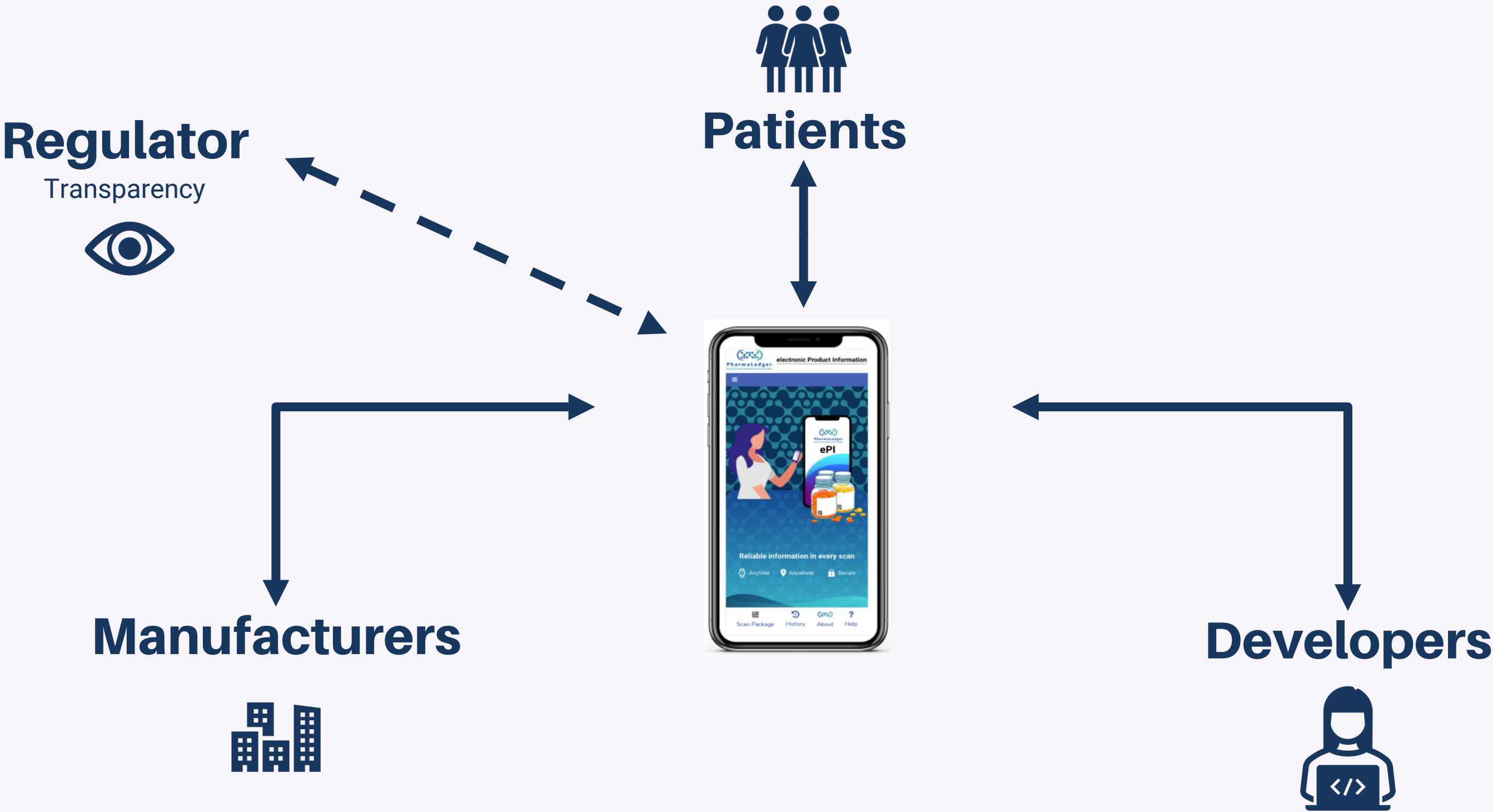
Developers

3. Incentive Model & Governance

Incentive Model for Developers

PharmaLedger **Foundation**

Proposal

Receive funding

Main Goal:
Ecosystem Maintenance

USDP Stable Coin

Used to pay membership fees and developers.

Manufacturers and key players
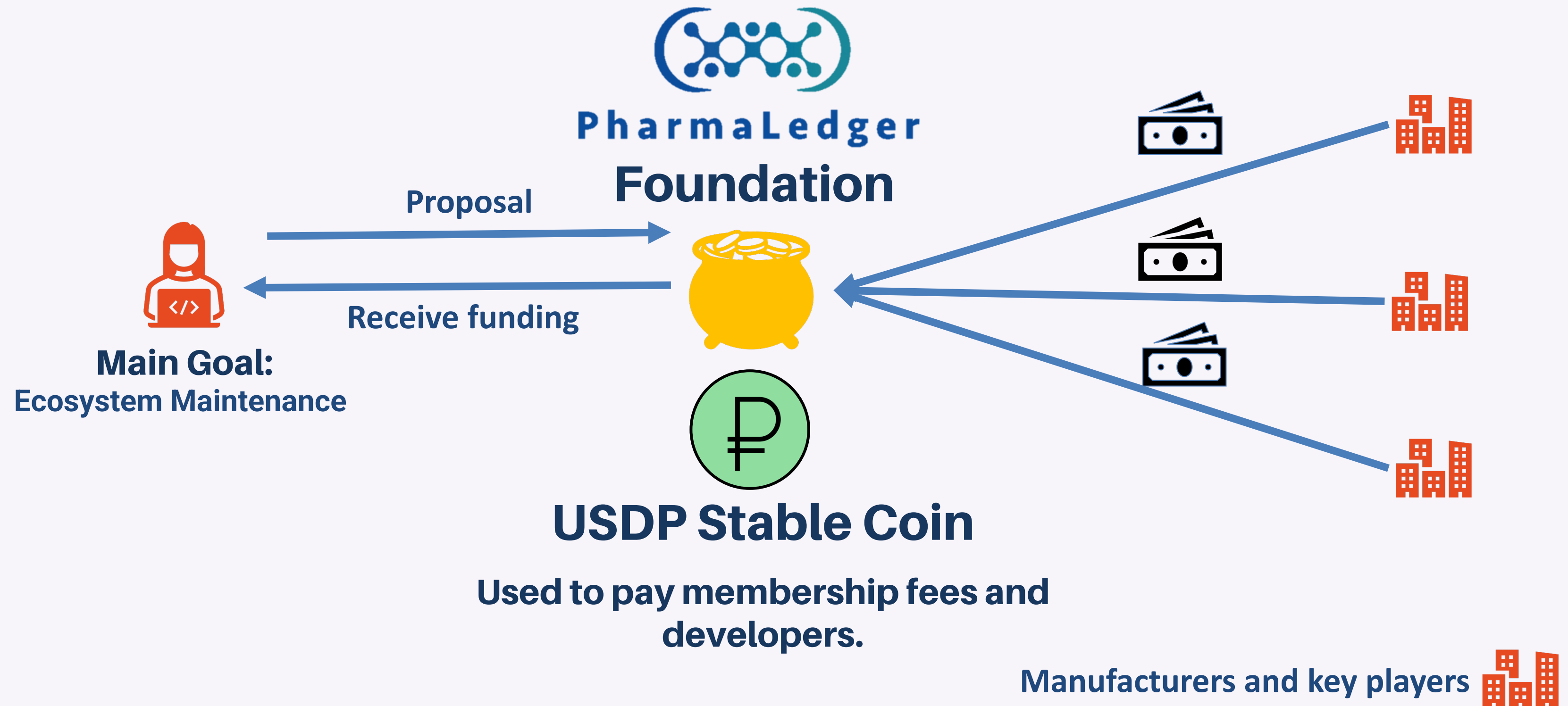
Governance of PharmaLedger

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PHA Voting Token

Used to vote for proposals and adding or removing members.
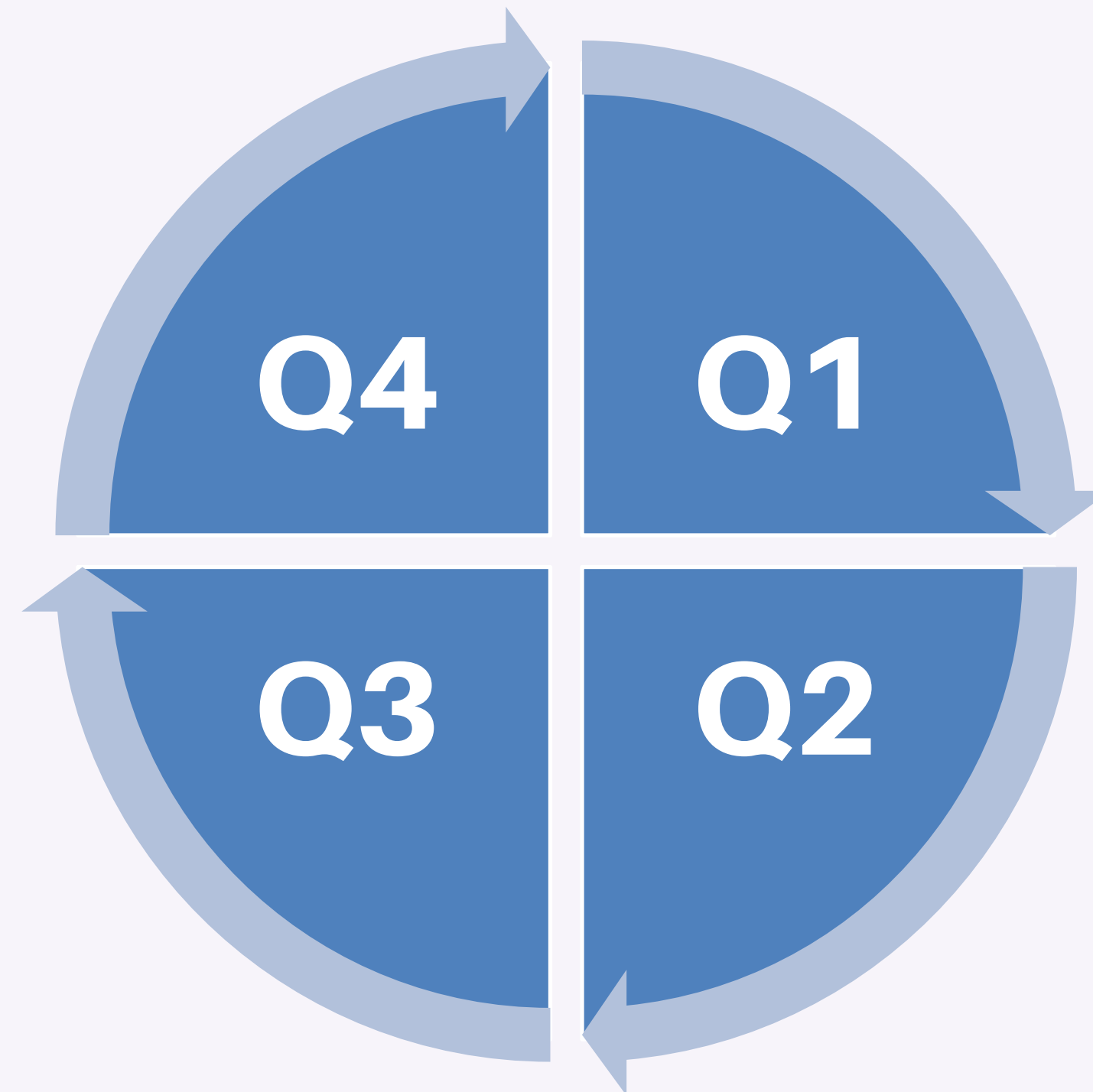
2-Phase Voting System for new proposals

1. Up- or down-vote by all members.

2. Final voting by PHA holders.

Voting Timeline

Q1

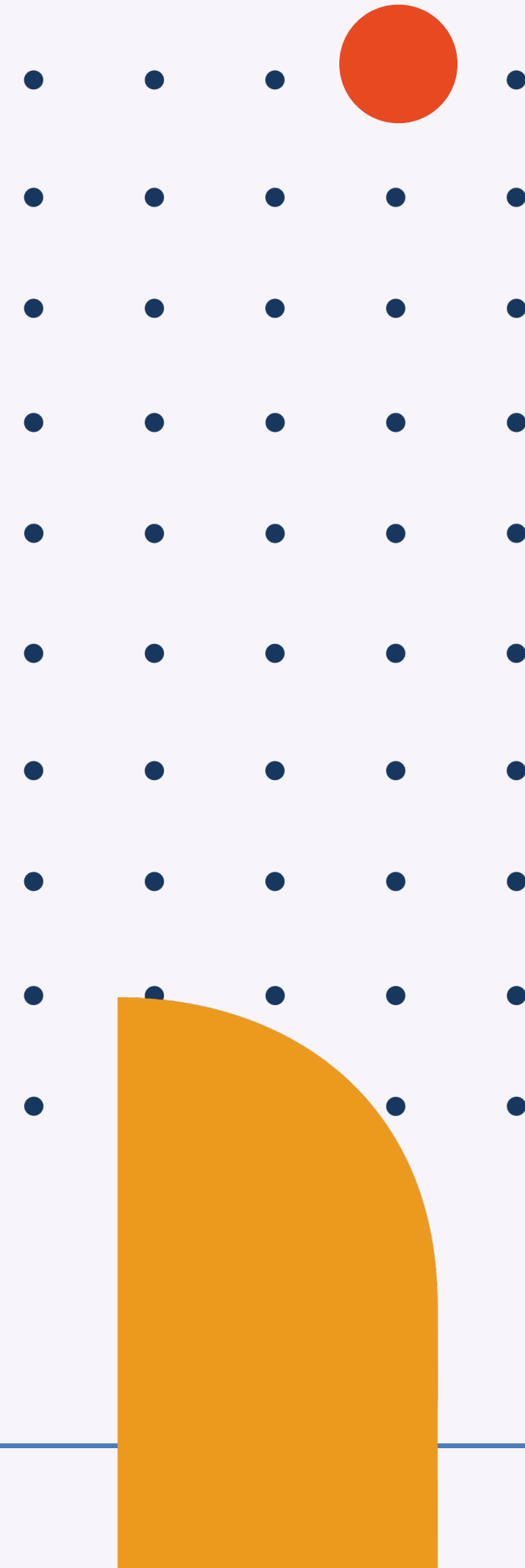|	Proposal Review		Proposal Review		Results
1-31 January	1-28 February	1-5 March	5-20 March	20-31 March	31 March
Accepting Proposals		Up and Down Voting		Final Voting	

Voting Timeline

Q4 Q1 Q3 Q2

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4. Mockup

Summary

1. **Introduction to PharmaLedger**

2. **ePI demo**

3. **Incentive Model & Governance**

4. **Mockup**

Questions and Discussion

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