



# Professional Blockchain Course

Use Cases: Healthcare



# Blockchain in Public Health Security

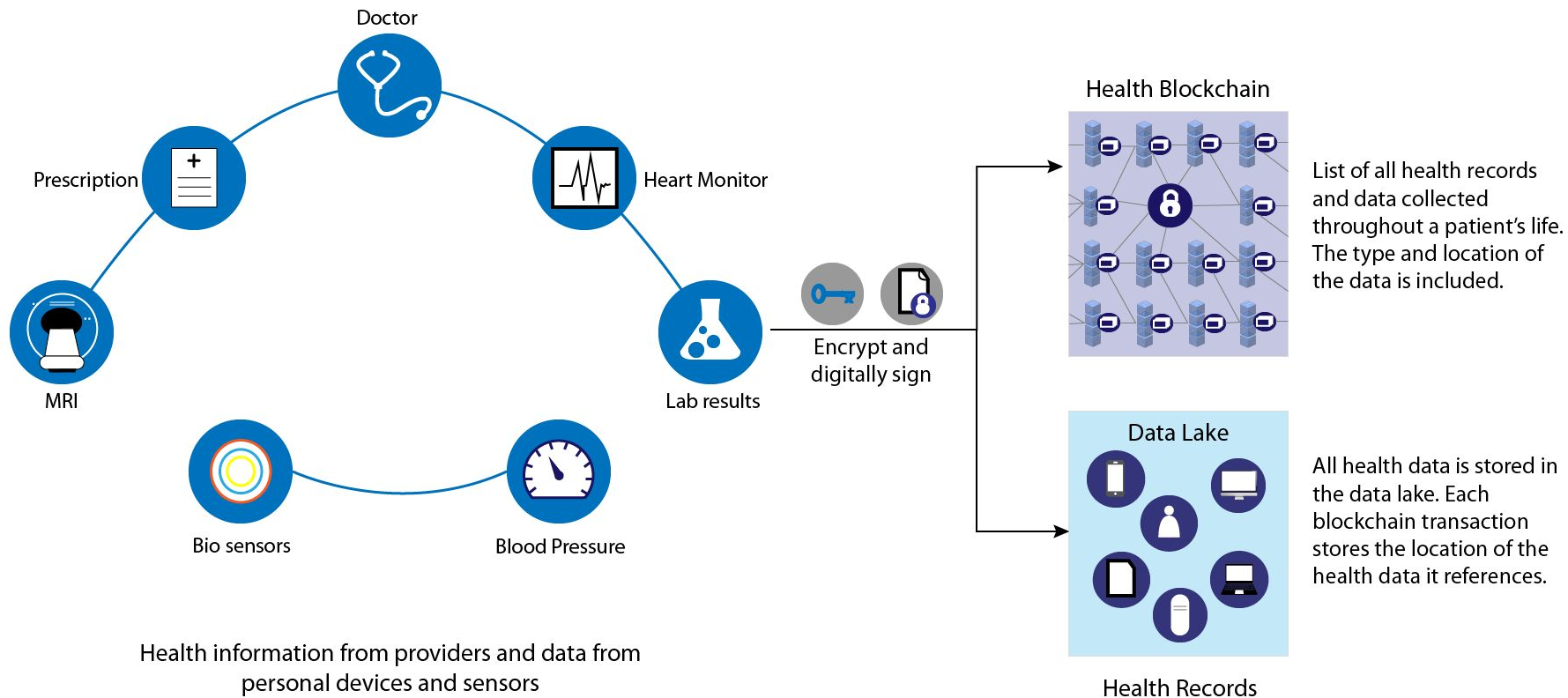
**PROBLEM:** How to maintain and share public health records?.

**SOLUTION:** A public blockchain between healthcare providers, pharmacies, and patients.

- All the health records are maintained using the public ledger.
- An encrypted link to the patient's record is created for the doctor and patient access only.
- IoT device can be integrated to record data directly over the blockchain.
- Smart Contracts can be initiated between entities to share medical data.

**BENEFITS:**

- Data security is maintained as the hackers would need to breach every participant in the network simultaneously.
- Data privacy can be maintained by using proper permissions.
- Reduce barriers involved in complex data sharing agreements.





# Blockchain in Drug Traceability

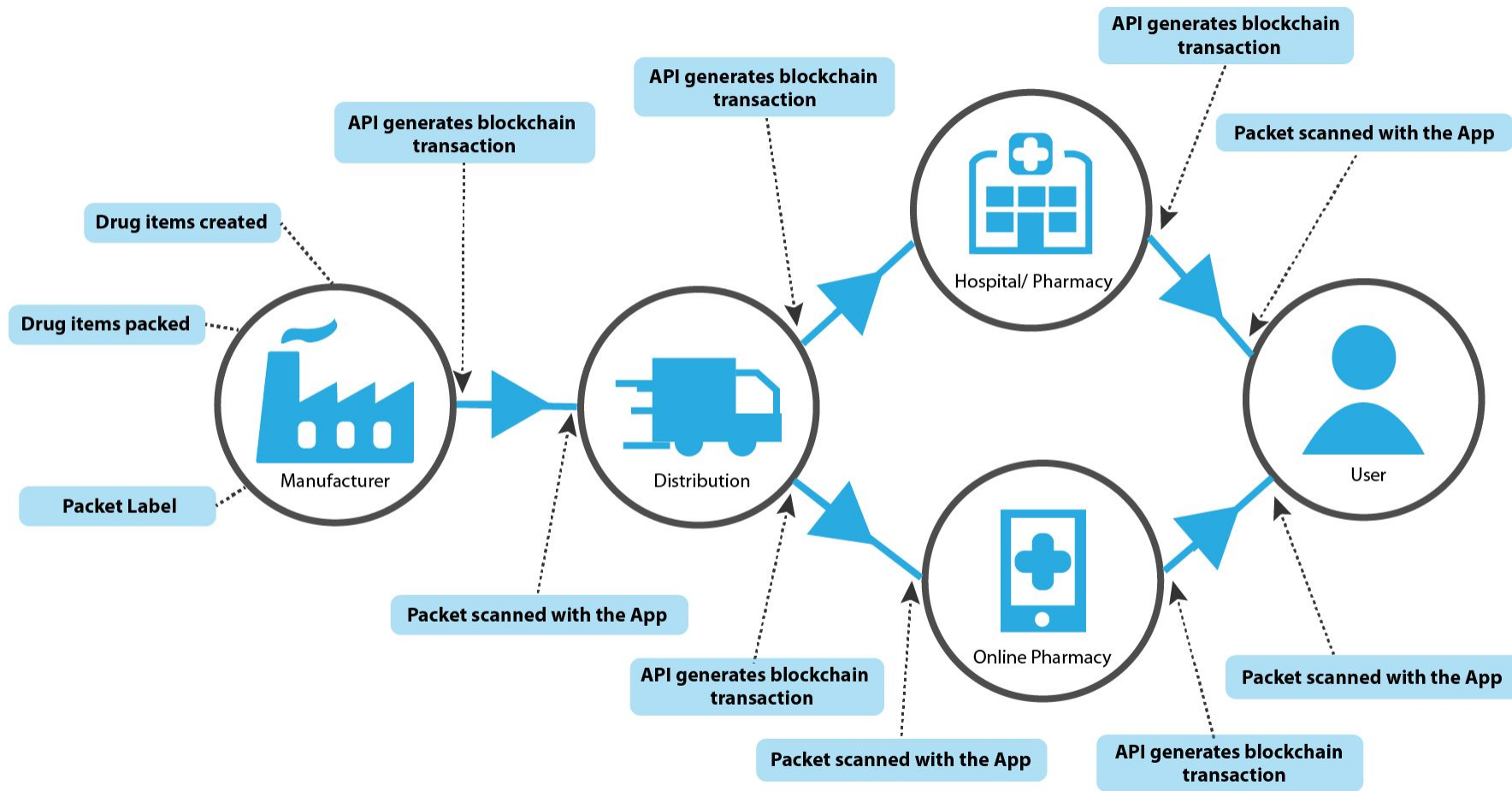
**PROBLEM:** A lot of counterfeit drugs on the market which even lead to loss of lives.

**SOLUTION:** A blockchain based solution for drug supply chain integrity.

- Unique ID based solution for tracking the drugs.
- A separate ledger can be initiated for government-approved drug suppliers.
- Patents for the drugs can also be recorded over the blockchain for verification.
- Smart Contracts can be initiated between suppliers and distributors.

## **BENEFITS:**

- Provide visibility needed to make critical decisions.
- Reduce costs lost due to counterfeit.
- Protect consumers and brand through reduction of fake pharmaceuticals companies.





# Blockchain in Clinical Trials

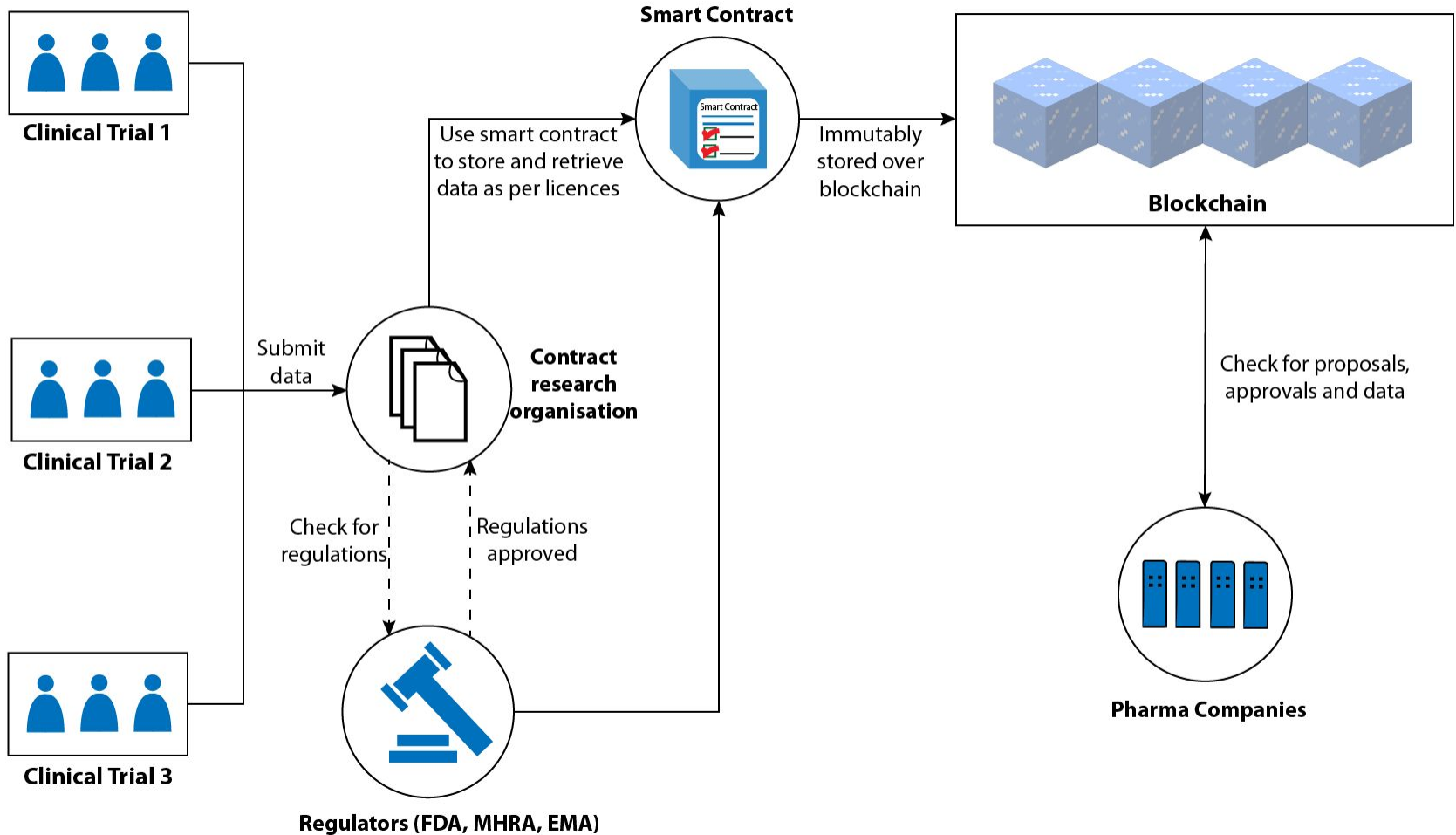
**PROBLEM:** Over half of the clinical trials report misconducted research.

**SOLUTION:** A blockchain based solution for providing secure and synchronised data submission.

- Patients can control their own data and contribute to decisions related to their preferred treatment choices
- Intercommunication can be established using smart contracts.
- Authorisation can be maintained for different parties involved.

## **BENEFITS:**

- Increase access to urgent information.
- Increase inter-operations between multiple hospitals.
- Insight into multiple data sources, resulting in new treatment plans.



# Blockchain in Health Care Billing

**PROBLEM:** Healthcare billing faces several challenges including unintentional billing inaccuracies, fraud and time taken to process the transactions.

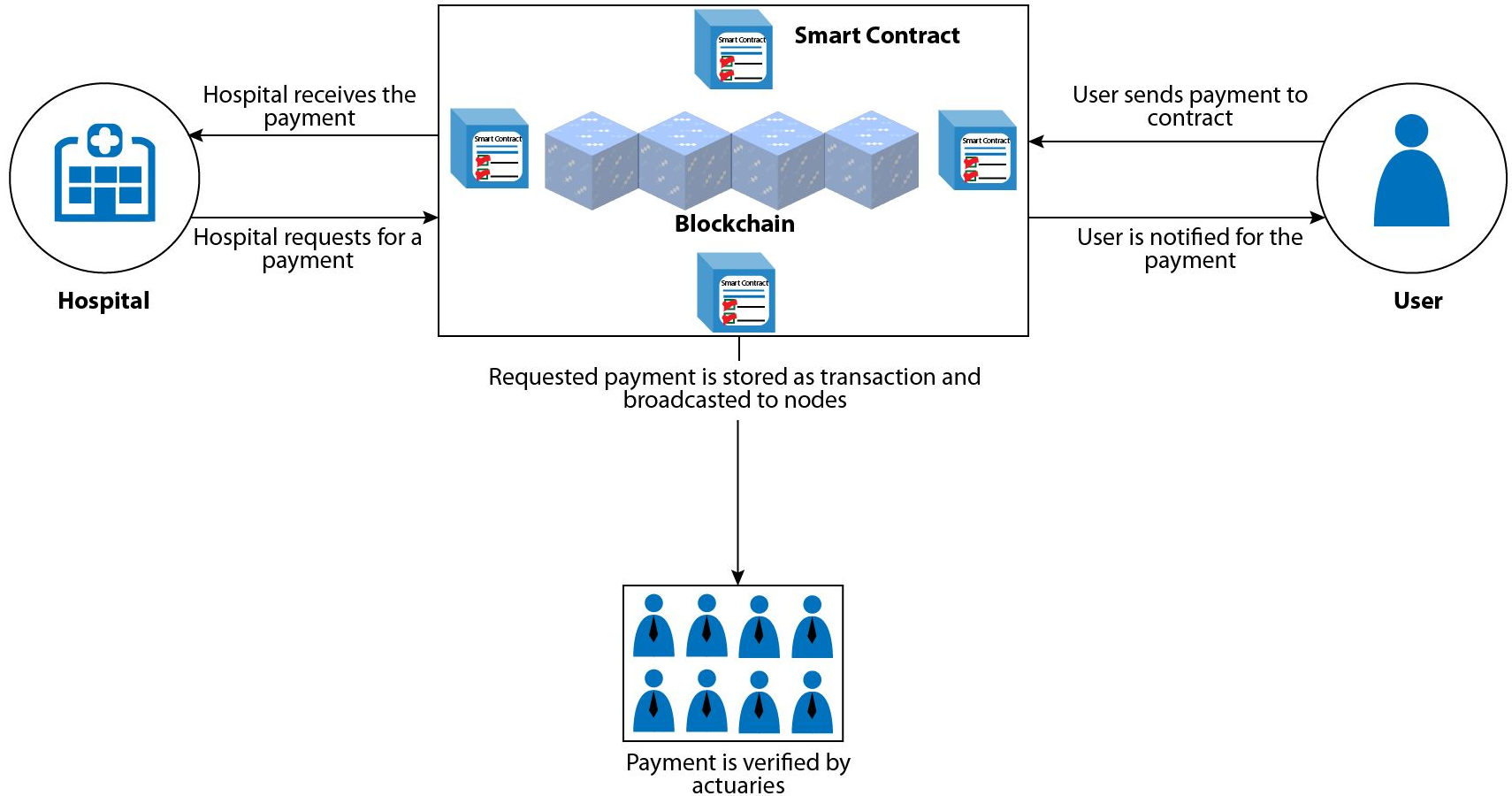
**SOLUTION:** A blockchain based solution for proper payment processing.

- Blockchain will provide audit and transparency for the all the payments processed.
- Smart Contracts can be initiated for automatic payment processing as per the services received.
- Smart Contracts can also be initiated for providing insurance to the patients.

## **BENEFITS:**

- By storing billing information inside blockchain, a reliable source of information for claims adjudication will be kept..
- Reduce costs and save time for funds transfer.
- Billing frauds will be reduced as everything is immutable.







# THANK YOU

For more information contact  
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