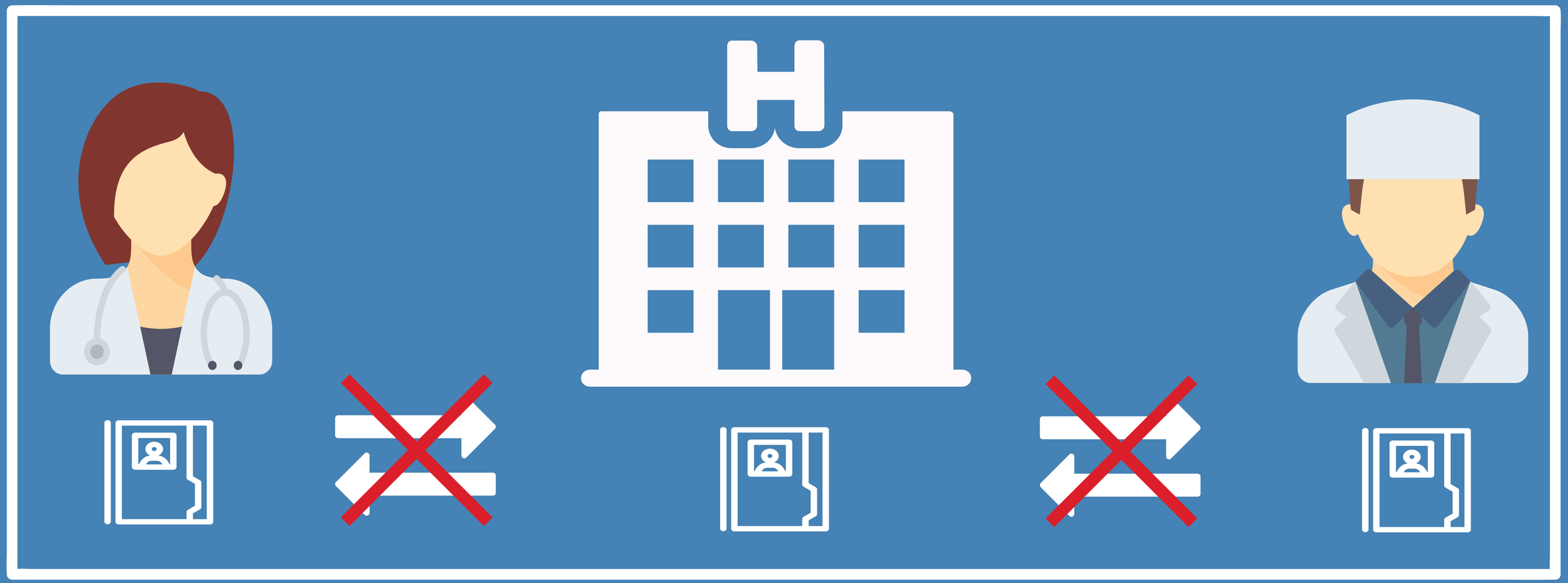
Mesh*EHR*

Enabling the next generation of Healthcare Information Systems

The Problem

Health records are fragmented, insecure, and inefficent.



Patient has no control

Expensive regulatory compliance

Lack of Interoperability

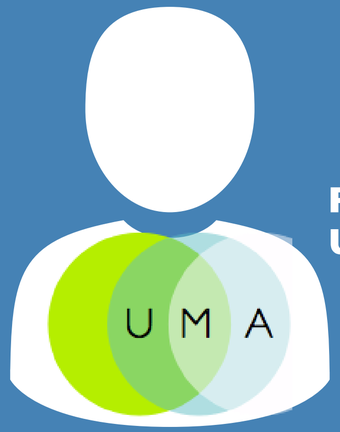
Fragmented and unavailible records

The Mesh Ecosystem

Large Providers directly interface with Mesh API and provide authentication via HEART Spec.

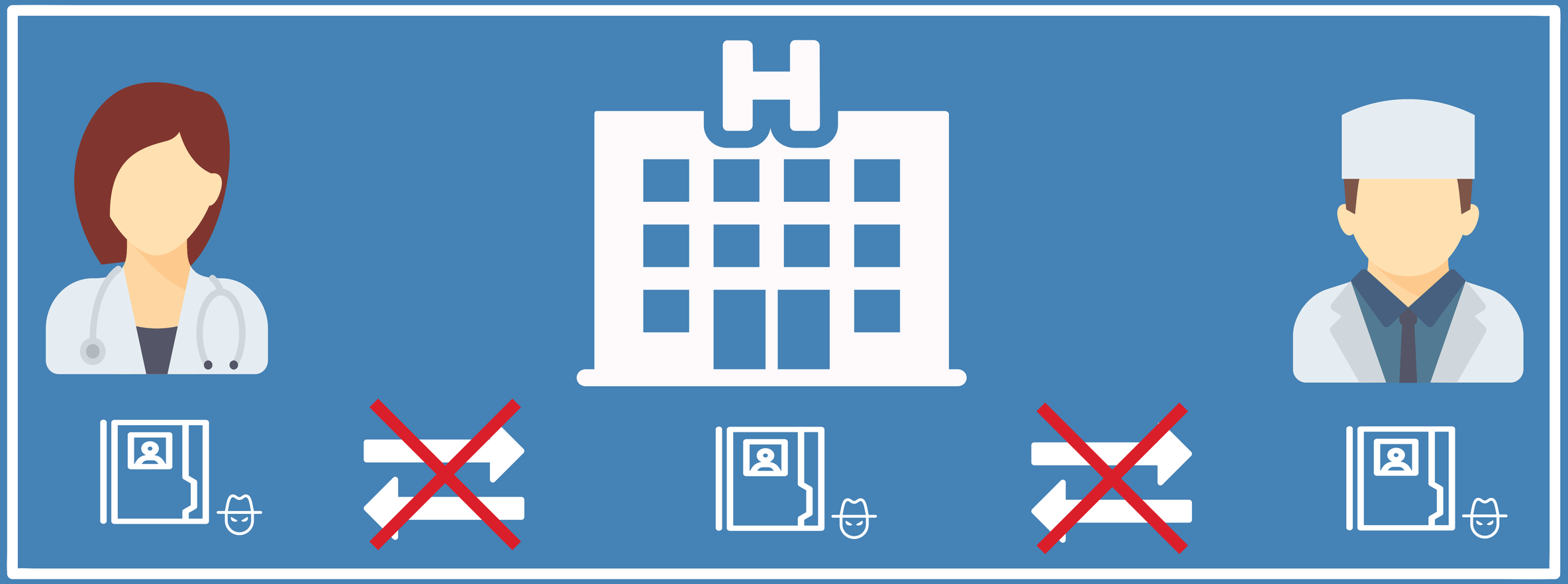
MeshEHR

General Practitioners Interact through workstation and authenticate via HEART Spec.



Patient may access via Mobile, Web-App, or Terminal. UMA provides secure access token for record data.

The Health Information Ecosystem is fragmented



In present implementations, The Patient:

Records Security: LOW

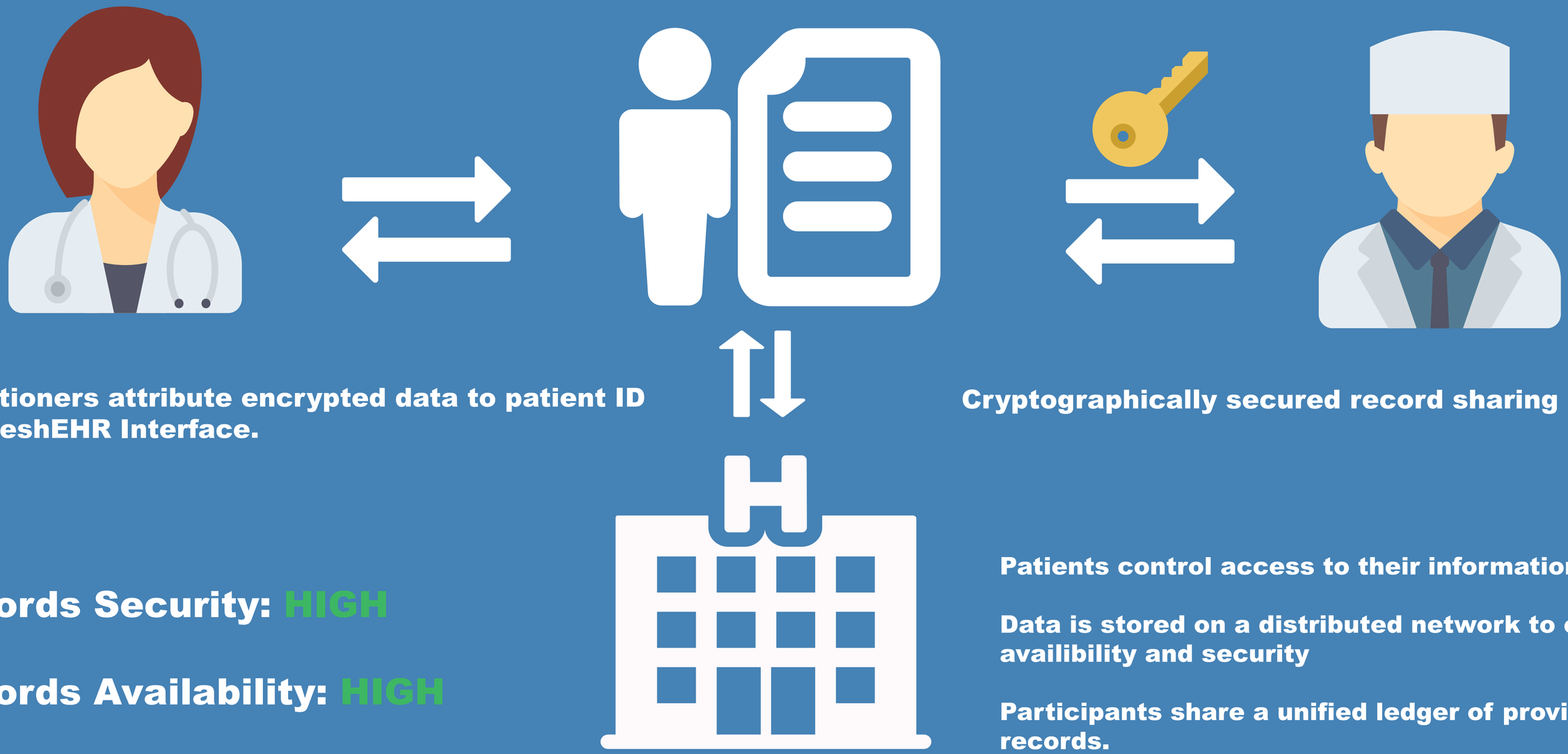
Records Availablilty: LOW

- must rely on third parties to store their data
- has no control of their records
- owns records in multiple, isolated locations

The Solution

A User-Centric Model.

Patients Provision whom may access their records.



Pracitioners attribute encrypted data to patient ID via MeshEHR Interface.

Cryptographically secured record sharing

Records Security: HIGH

Records Availability: HIGH

Patients control access to their information

Data is stored on a distributed network to ensure availibility and security

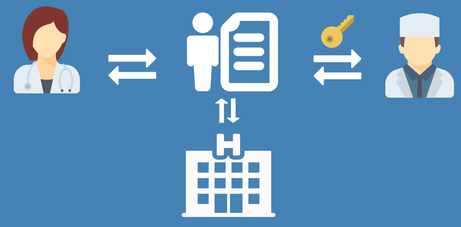
Participants share a unified ledger of provisioned records.

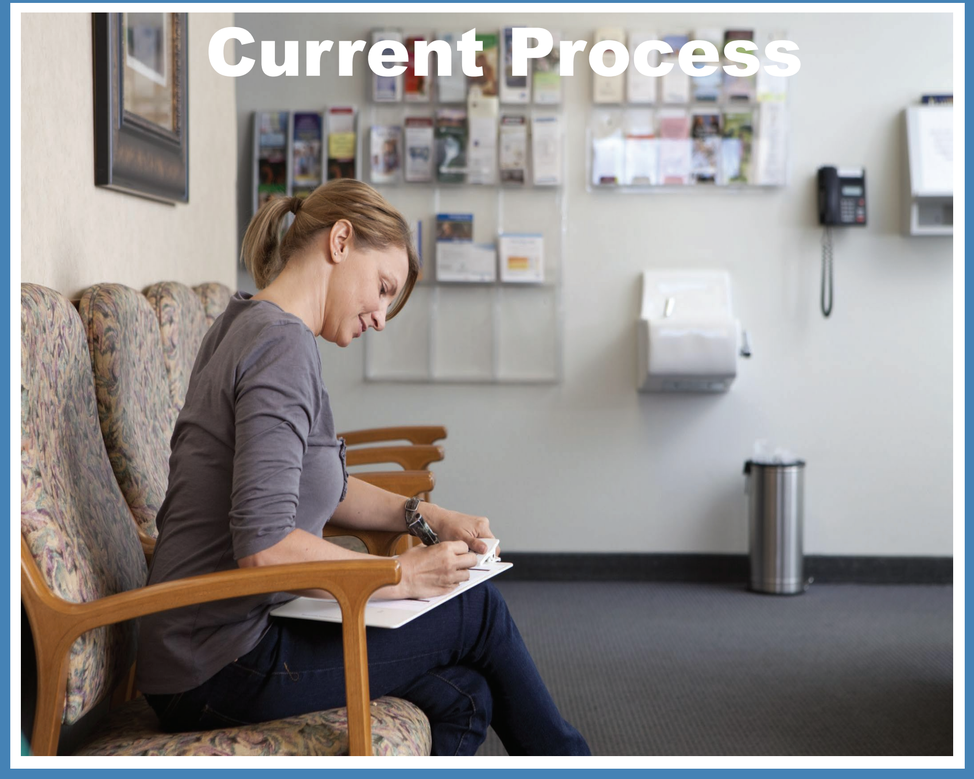
User Experience

Streamlining and Securing Healthcare Information

Easier than ever.

1: Patient arrives
2: Sign in via HEART UMA
3: Shares info with Doctor
4: Receives service
5: Doctor updates Profile





Time Consuming
Insecure
Produces fragmented, inefficient records

Efficient
Secure
Enables Unified Record System

- Within the Mesh Network, regulatory agencies may be provisioned oversight of Information exchange, and ensure that entities are compliant through a transparent and automated system.
- Records are interoperable and available on a unified platform, enabling secure, transparent information exchange between parties.
- NIST and The Office of The National Coordinator for Healthcare Information Technology are interested inthe distributed network, or blockchain technology, for Healthcare IT solutions.

https://www.healthit.gov/newsroom/blockchain-challenge

The Mesh Platform Process

1: The Doctor securely issues patient record through MESH interface

2: The Patient may view their record

3: Patient securely shares their record

Technology Validation

The following Government Agencies are working to employ blockchain technology for secure information sharing and authentication. Mesh Provides a modular framework for implementation.

https://www.sbir.gov/sbirsearch/detail/867797

NIST

The Office of The National Coordinator for Healthcare Information Technology

https://www.sbir.gov/sbirsearch/detail/1144411