

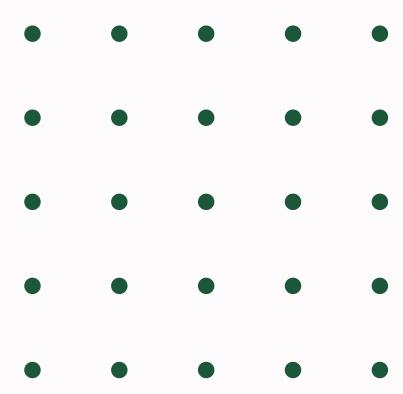
BLOCKCHAIN DRIVEN PERSONAL HEALTH RECORD



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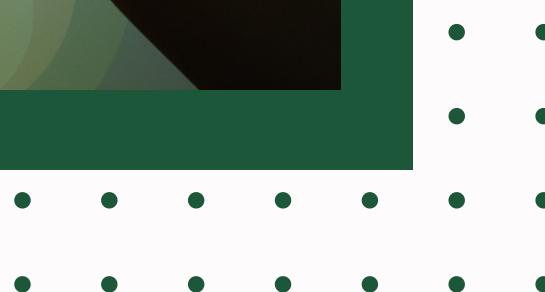
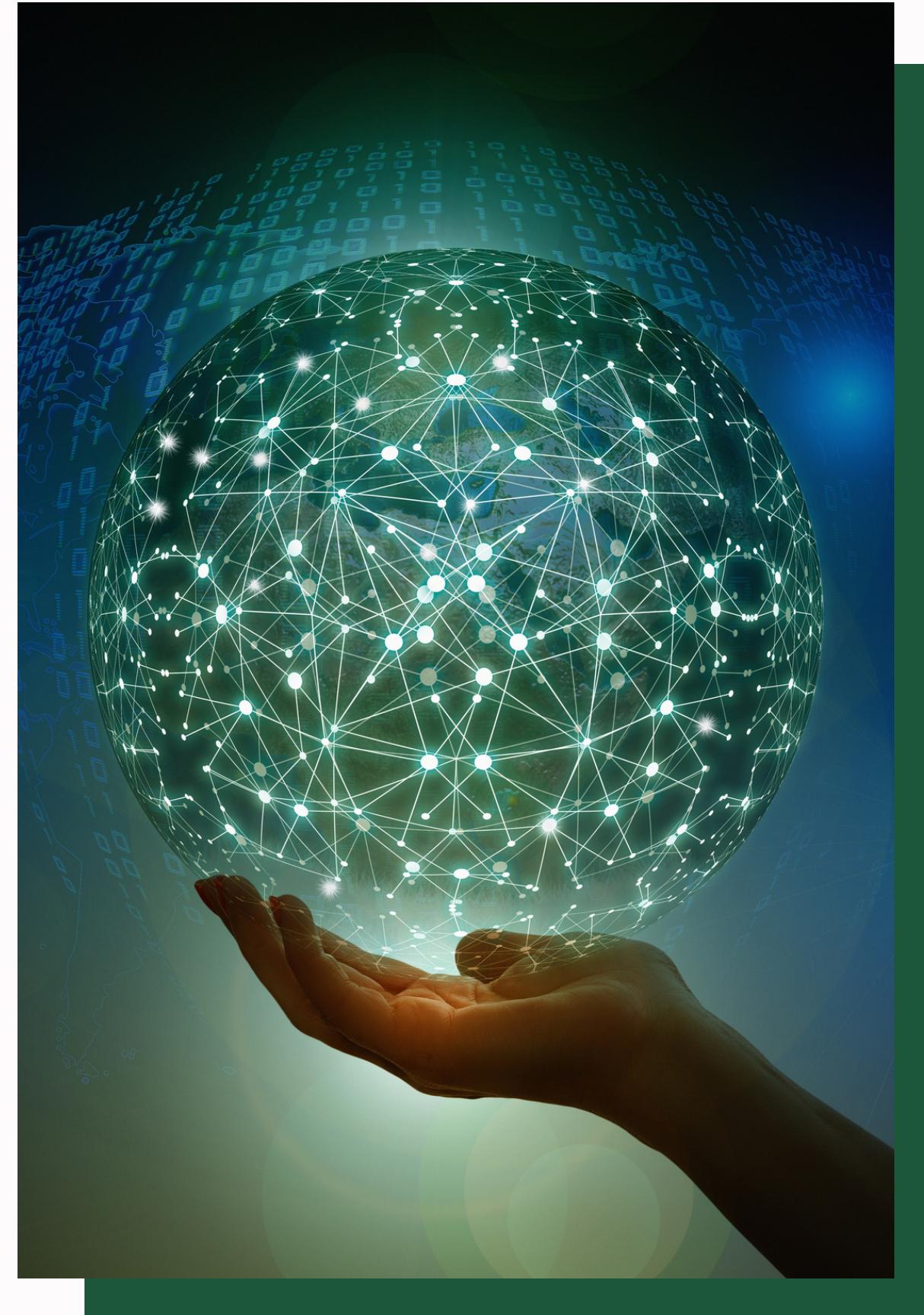
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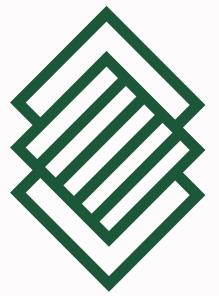


AIM

Our project aims to leverage blockchain technology to revolutionize the way individuals manage and share their health records securely and seamlessly. By combining the principles of blockchain with healthcare data, we intend to create a robust and decentralized PHR system that empowers patients while ensuring data integrity and privacy.



PERSONAL HEALTH RECORDS



PHRs: Digital health repositories for individuals.



Store medical history, diagnoses, medications, allergies, and treatment plans.



Patient-controlled:
Individuals decide who can access and share their medical details, enhancing privacy and ownership.



Empower individuals to manage and access their health data easily.

CURRENT SYSTEM

- Current system: EHRs (Electronic Health Records).
- Digital records maintained by healthcare providers.
- Primarily used within healthcare institutions.
- Local to the respective hospital or healthcare facility.
- Form a centralized data repository for patient records.
- Facilitate clinical workflows and data management for providers within the institution.



DISADVANTAGES OF CURRENT SYSTEM

- Limited patient access to own records.
- Data privacy and security concerns.
- Interoperability issues between institutions.
- Potential for data breaches.
- Dependency on centralized control
- Vulnerability to damage and loss:..

PROPOSED SYSTEM

- Our proposed system harnesses blockchain to transform healthcare data management, addressing EHR shortcomings. It offers enhanced security, privacy, patient control, and data accessibility.
- Patients can store data securely, control access, and verify their identity.
- Blockchain ensures encryption and transparency.
- Healthcare providers can access data securely from anywhere.
- The system prioritizes patient-centric care, emphasizing privacy and enhancing data management and security, resulting in a better patient experience.

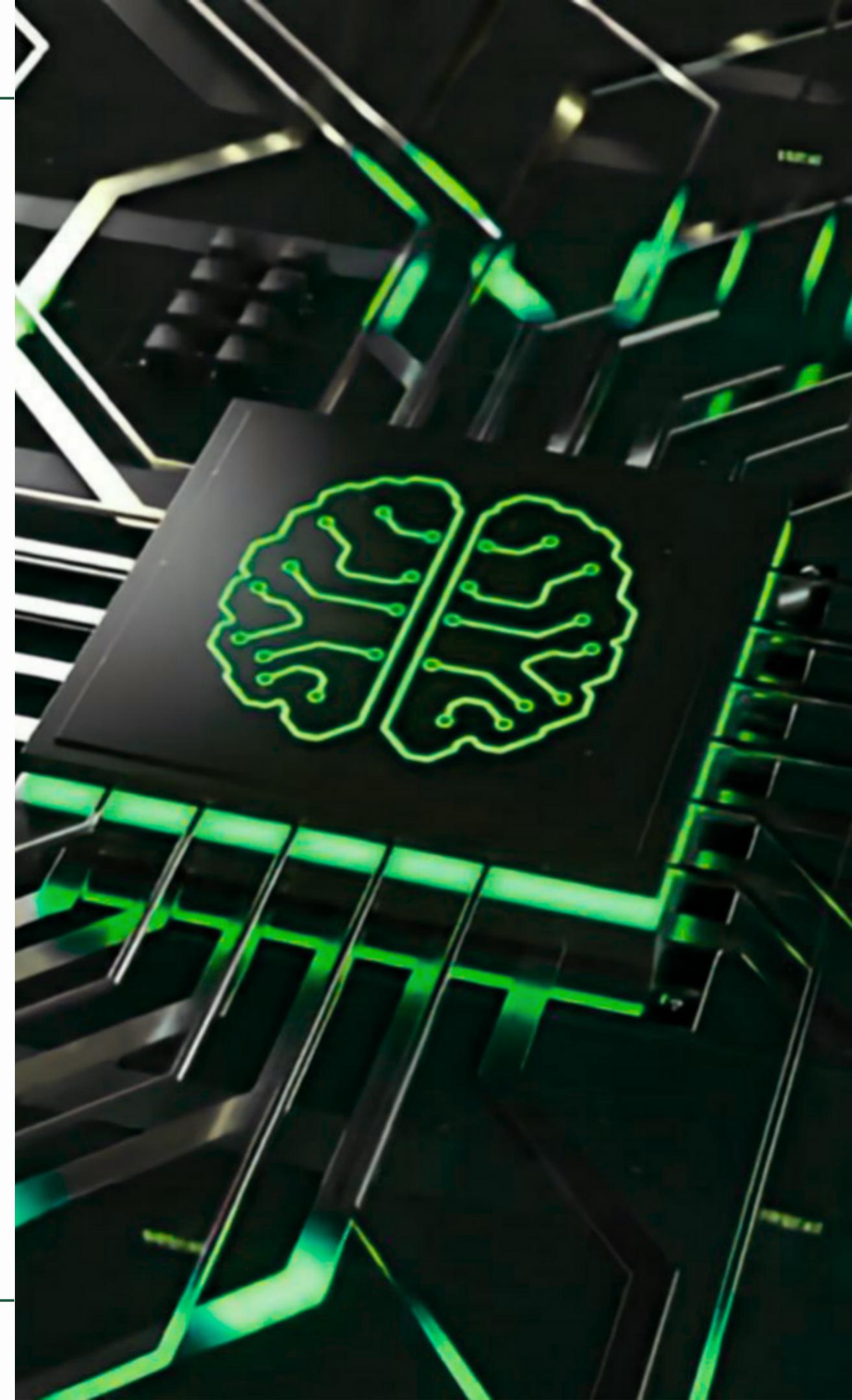


ADVANTAGES OF PROPOSED SYSTEM

- Patient Empowerment: Patients have full control over their EHRs for independent management and sharing.
- Blockchain Encryption: Data is securely stored in the blockchain, encrypted and transparent.
- Decentralized Trust: Unlike centralized systems, this open-source approach builds trust among patients, doctors, and healthcare providers.
- Global Accessibility: EHRs can be accessed worldwide, facilitating healthcare solutions internationally.
- End-to-End Verifiability: The blockchain ensures the entire process is verifiable and transparent.
- Patient Database Tracking: Blockchain records all patient data transactions, creating a transparent patient record database.
- Permission-less Access: Patients can directly use their records without organization permissions, thanks to secret keys.
- Network Flexibility: The blockchain network allows computers to join or leave at any time, ensuring data availability and security

FUTURE SCOPE

- **Integration with Wearable Devices:** Integration with wearables and remote monitoring systems can expand the capabilities of blockchain-based PHRs. Real-time data from these devices can be securely recorded and accessed via the blockchain.
- **AI and Analytics:** The integration of artificial intelligence (AI) and advanced analytics with blockchain-powered PHRs can enable predictive healthcare, personalized treatment plans, and advanced research capabilities while preserving data privacy.
- **Easy and Secure Data Access:** NFC cards can store a patient's unique identifier and access permissions securely. Patients can simply tap their NFC card to access their health records, enhancing convenience and security.



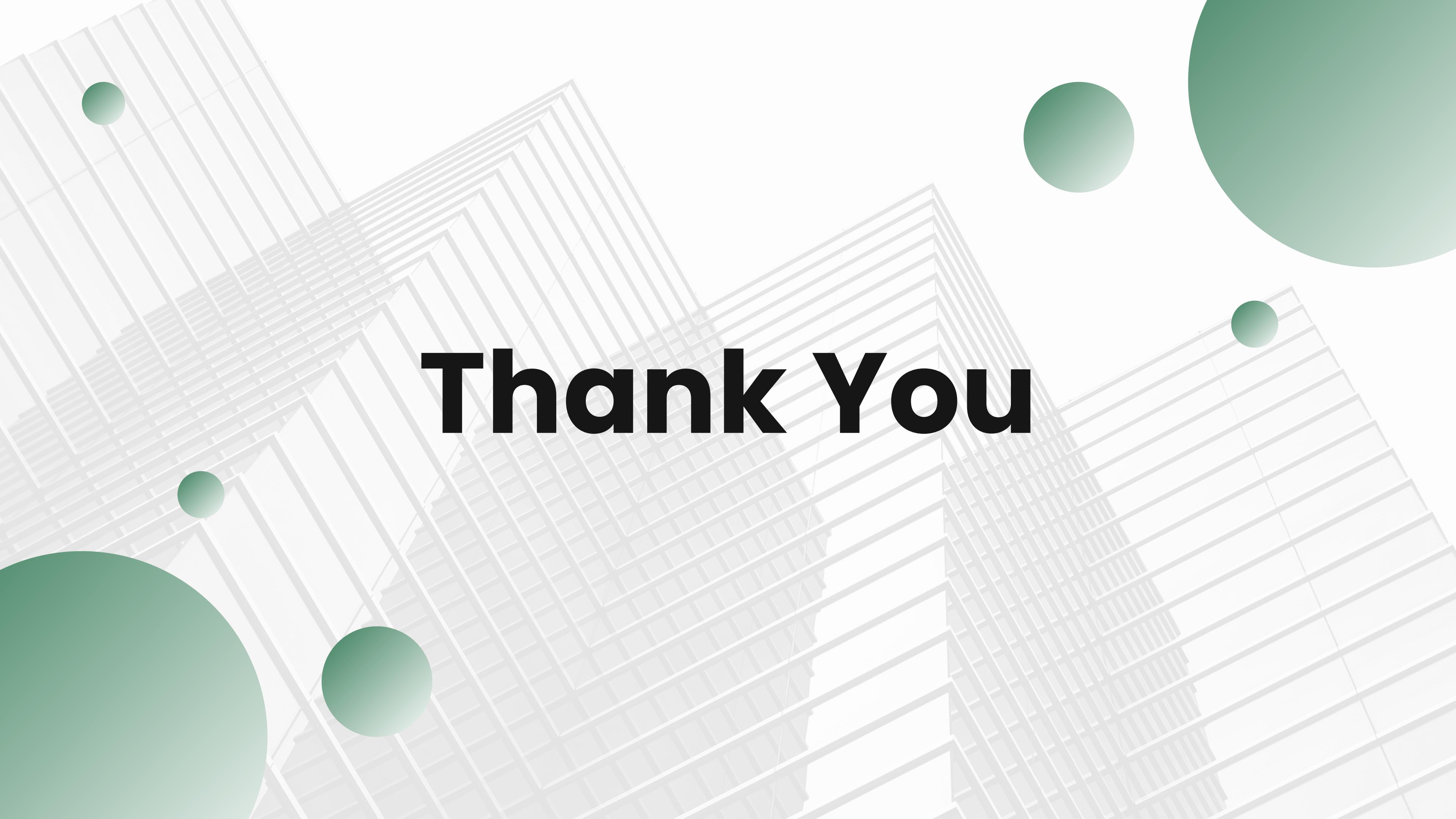
CONCLUSION

PHR products offer a diverse range of content-, connectivity-, and collaboration-based features and functions for their users.

Although consumers benefit from the tools provided by PHR technologies, their overall value extends across the constituents of the health care delivery chain. Despite advances in technology, our literature review identifies a shortfall in the research addressing consumer value enabled by PHR tools. In addition to scholars and researchers, our literature review and proposed framework may be especially helpful for value analysis committees in the health care sector tasked with evaluating innovative health information technologies such as PHRs.

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Thank You