









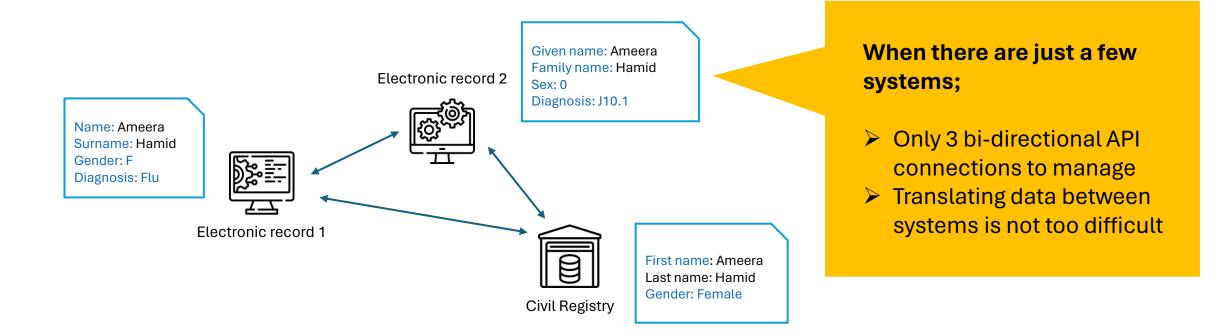
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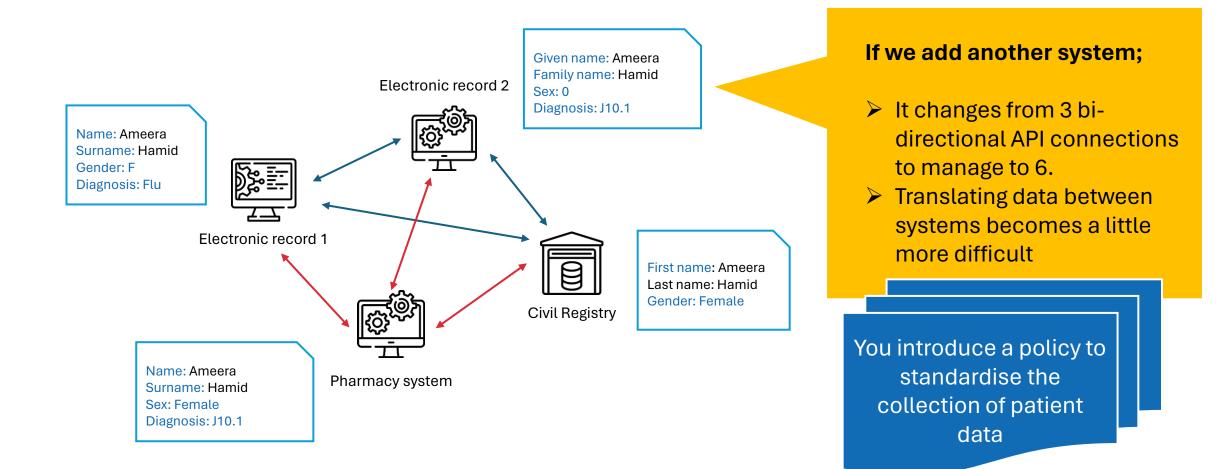
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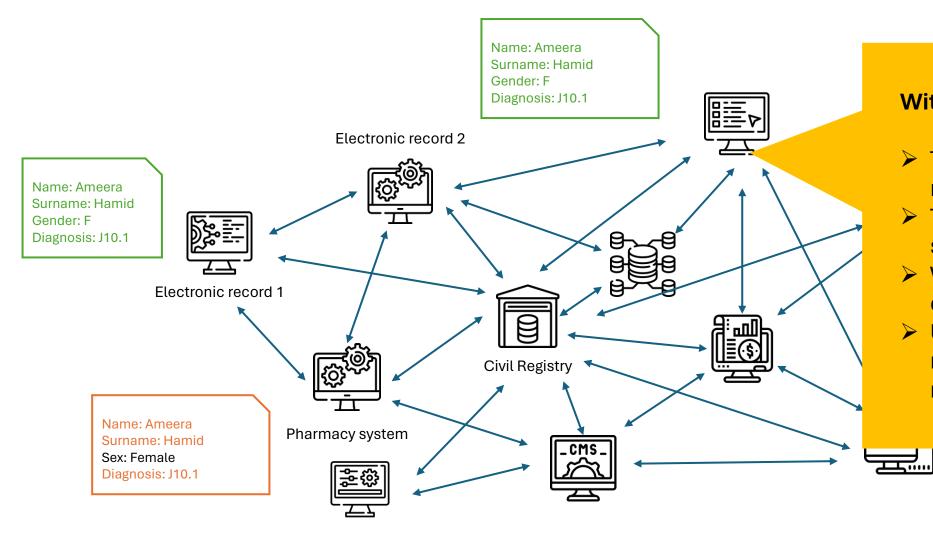
Factors affecting the implementation of digital health technologies

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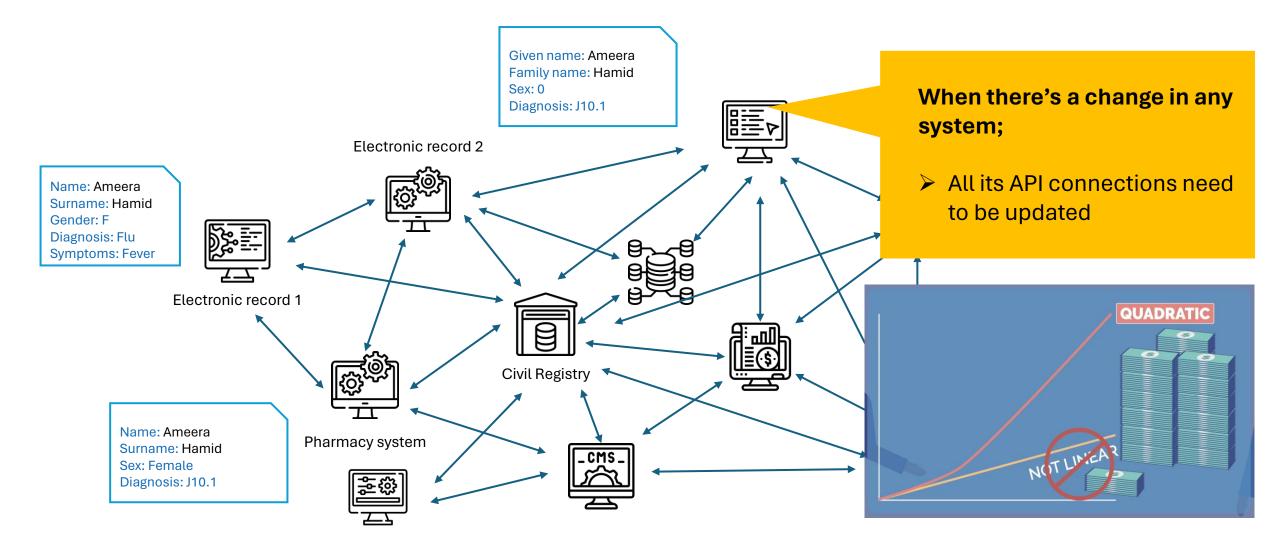






With many systems;

- Too many API connections to manage
- Translating data between systems is prone to errors
- Who is monitoring compliance of the policy?
- Users have to enter data and maintain user logins across multiple systems



Growth can increase complexity, so we need to continually improve the enabling environment!

What does this mean?

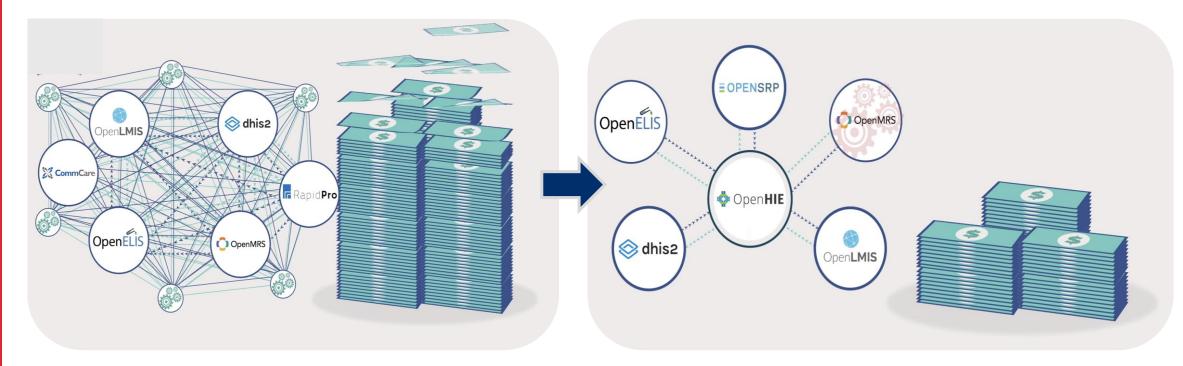
Managing increasing implementations

- Integration should become interoperability!
- There should be a permanent unit to coordinate digital health activities (active, centralised governance and program management)
- Policy documents may be strengthened through compliance mechanisms
- The architecture should be clear to all stakeholders
- User consultation and testing are recommended in the development process

Integration vs Interoperability



What is the difference



Data exchange shifts from API integration across systems to a health information exchange platform!

A central platform that translates data and facilitates exchange across systems.

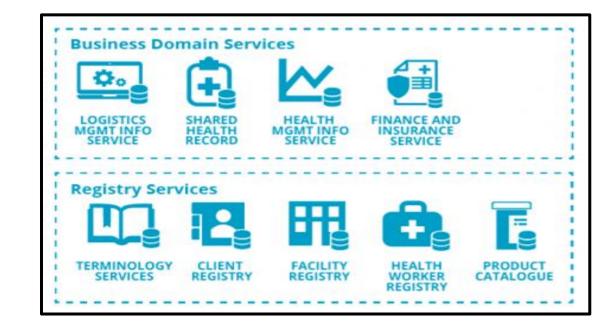
What does an HIE consist off?

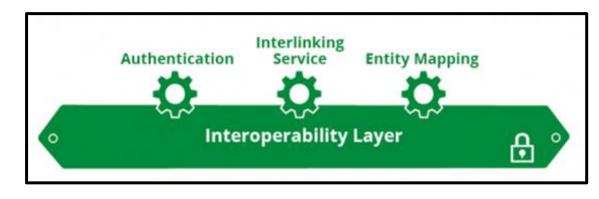
Components Layer

- Stores only COMMONLY exchanged data: people, places, things
- Includes data warehouses for analytics and management

Interoperability Services Layer

- Checks who is accessing data and if they have permissions
- Translates data structures and formats
- Maps the data between the application and the data storage component





Compliance monitoring through regulatory sandbox



What is it?

- A controlled testing environment to allow software developers and companies to test their systems and innovations
 - Does it meet the regulatory requirements
 - Is it compatible with the national architecture
- Already being used in Germany, Singapore, Malaysia, Canada

How is it used?

- Government manages the platform
- Any system developer and business can register to test their system or innovation
- During testing, both government and the business can evaluate the system or innovation
- If the system passes the government evaluation, the company can be certified for use by the health system
- Hospitals can check the sandbox website for approved systems before purchasing any.

Benefits







Businesses are incentivised to develop systems that align with government requirements Governments can ensure implementations will be successful and make decision before investing in software Businesses can test the system with users to ensure it is user friendly, thereby reducing dissatisfaction.





HIE and regulatory sandboxes are global best practices that can help Mongolia fast-track their digital transformation journey!

Thank you