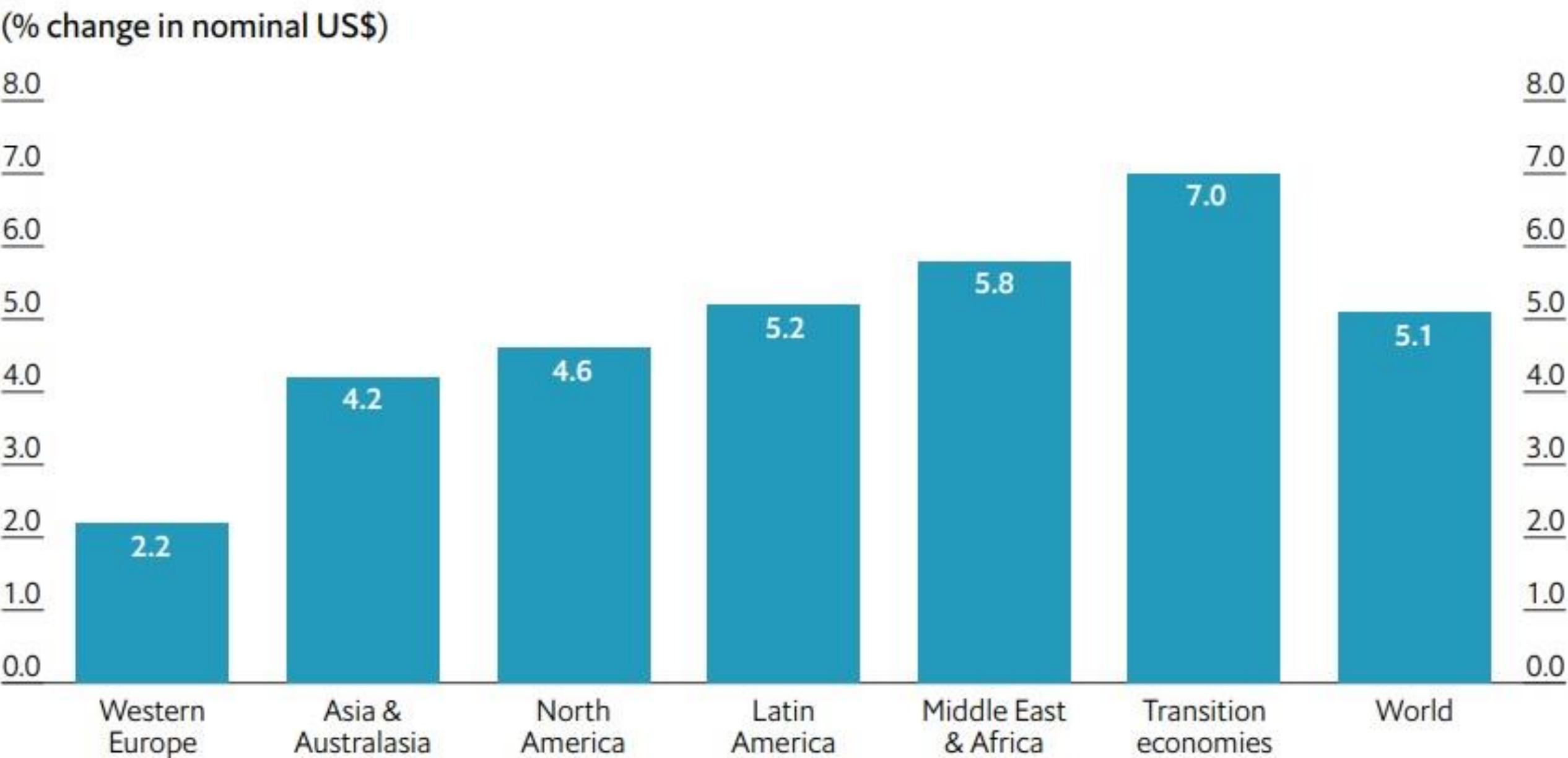


Serverless healthcare platform

Anand Iyer

Enterprise Solution Architect, AISPL

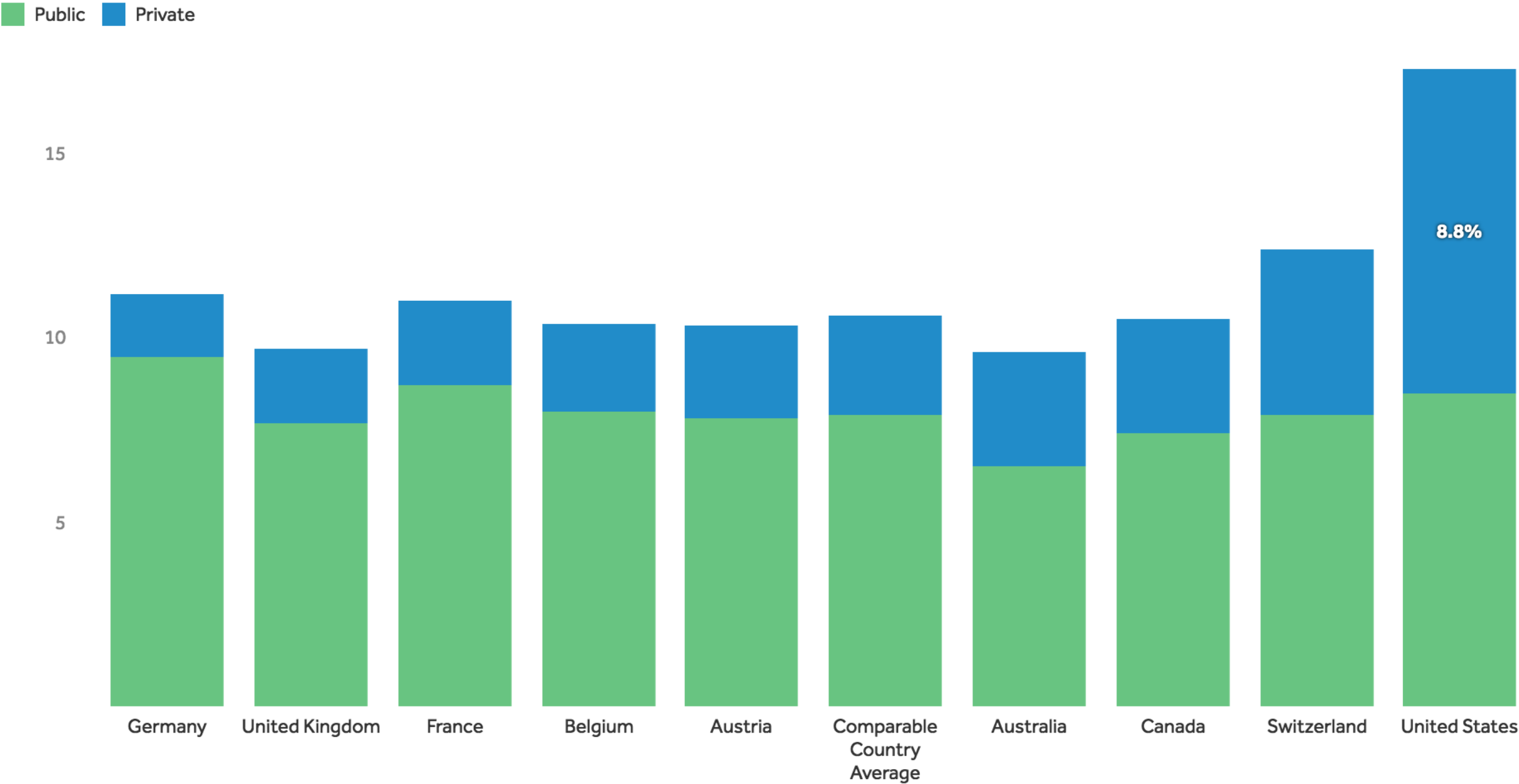
Health spending growth in 2019



Source: The Economist Intelligence Unit.



Total health expenditures as percent of GDP by public vs. private spending, 2016



Source: [KFF analysis of OECD data](#) • [Get the data](#) • [PNG](#)

Peterson-Kaiser
Health System Tracker



Healthcare evolution

- Chronic care instead of merely acute care
- Remote care (monitoring, assistance, consultation, diagnosis, operation) and home care
- Patient-oriented care and patient empowerment
- Need for reliable and coordinated management and access to knowledge
- Cost control

However, this evolution needs...

- Collaboration between all actors in health care
- Efficient and safe electronic communication between all actors
- High-quality electronic patient files, across specialties
- Information Security
- Privacy Protection

Mission of an eHealth Platform

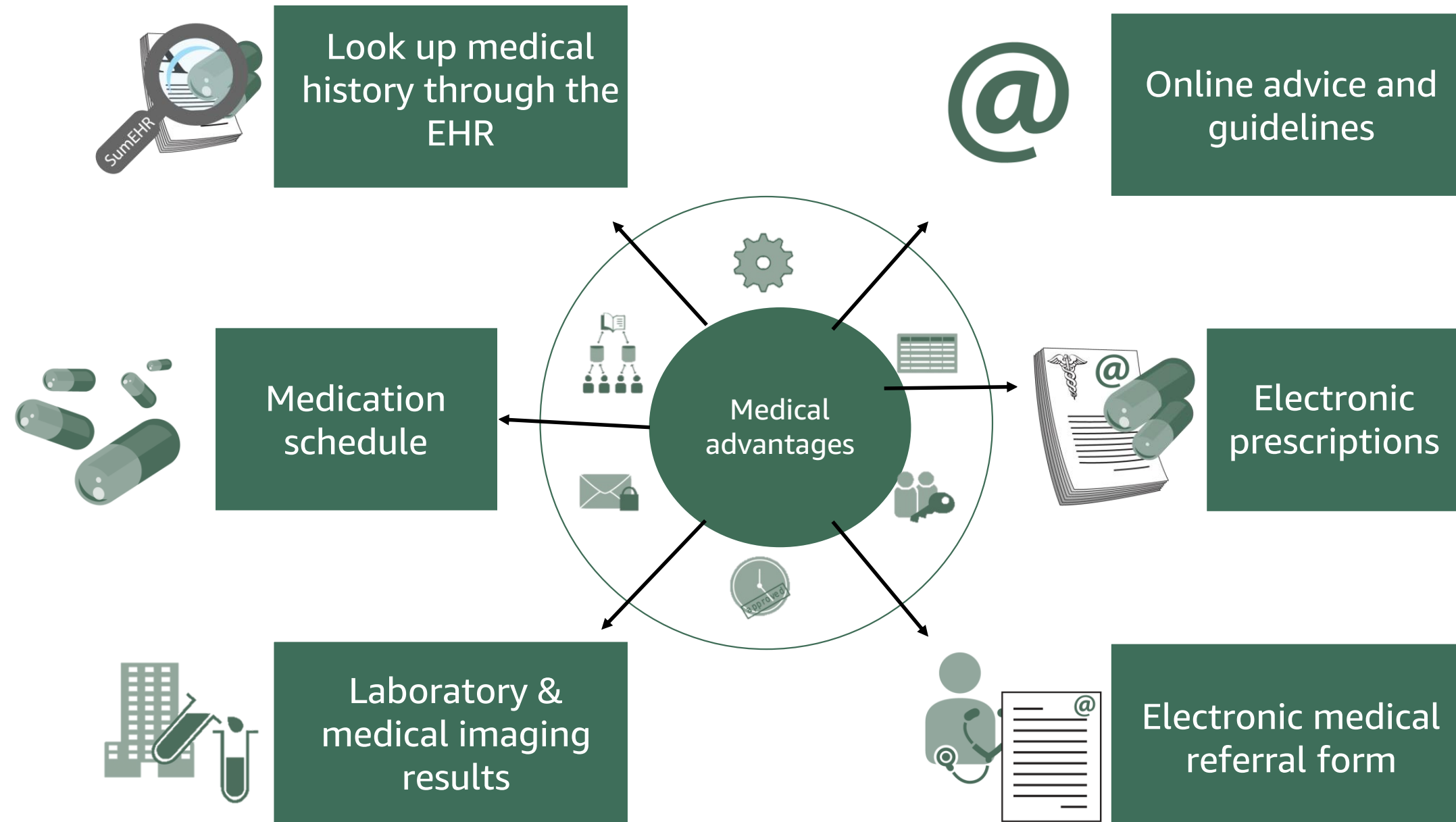
- **How?**

- Through a well-organized, mutual electronic service and information exchange between all actors in health care
- By providing the necessary guarantees with regard to information security, privacy protection and professional secrecy

- **What?**

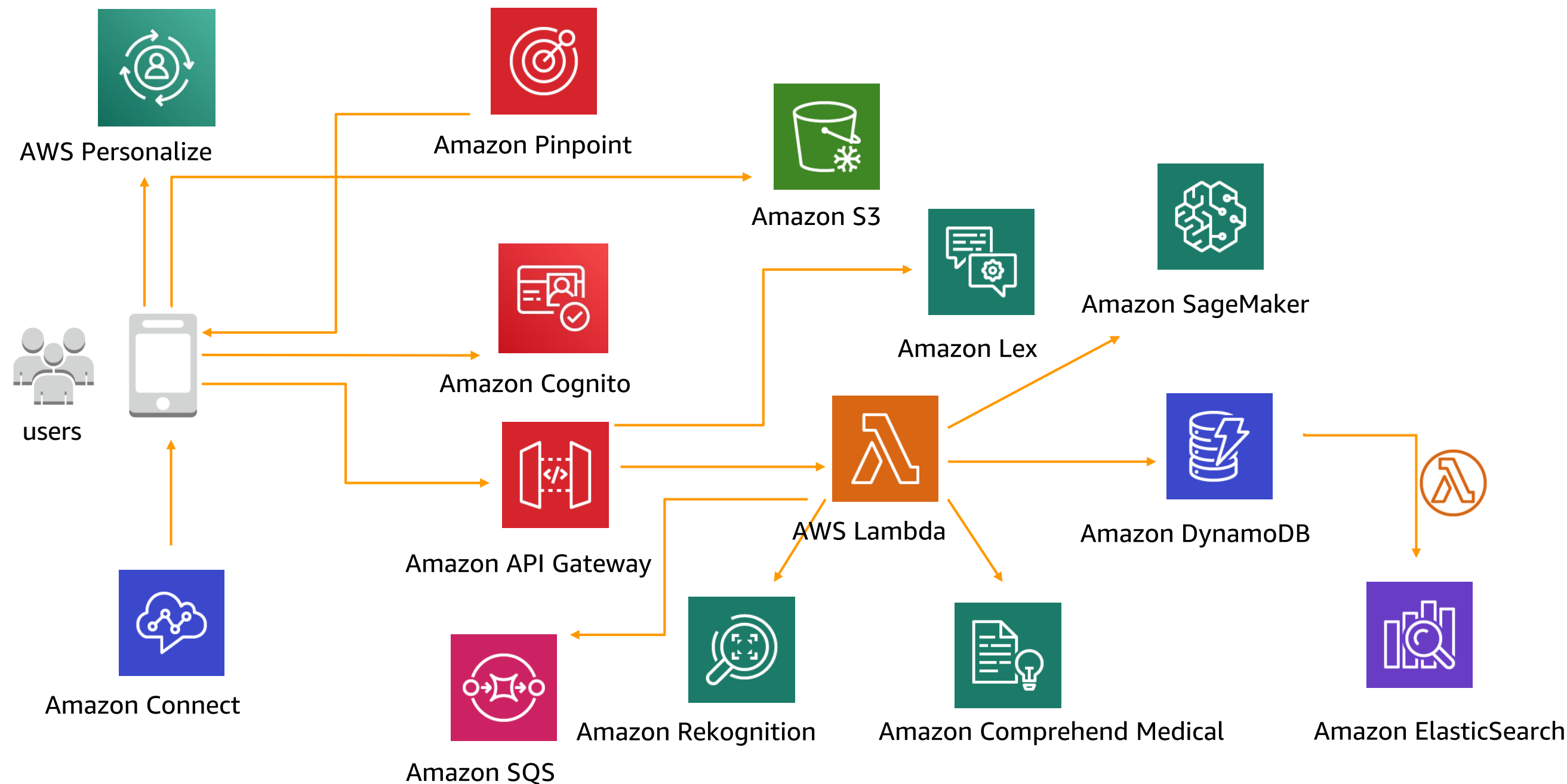
- Optimization of health care quality and continuity
- Optimization of patient safety
- Reduction of administrative burden for all actors in health care

eHealth platform



Demo

Serverless eHealth platform architecture



AWS Service	Serverless	Database	AI/ML
Amazon Cognito	✓		
Amazon S3	✓		
Amazon Lex	✓		✓
AWS Lambda	✓		
Amazon Rekognition	✓		✓
Amazon Comprehend Medical	✓		
Amazon SageMaker	✓		✓
Amazon Pinpoint	✓		
Amazon ElasticSearch	✓		
Amazon DynamoDB	✓	✓	
AWS Personalize	✓		✓
Amazon Connect	✓		
Amazon APIGateway	✓		



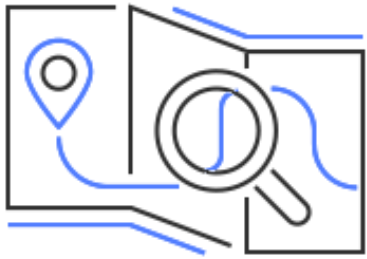
Architecting for HIPAA in the cloud

You can use AWS to run sensitive workloads regulated under the U.S. Health Insurance Portability and Accountability Act (HIPAA). If you plan to include Protected Health Information (as defined by HIPAA) on AWS services, you must first accept the AWS Business Associate Addendum (AWS BAA). You can review, accept, and check the status of your AWS BAA through a self-service portal available in [AWS Artifact](#).

Any AWS service can be used with a healthcare application, but only services covered by the AWS BAA can be used to store, process, and transmit Protected Health Information under HIPAA.

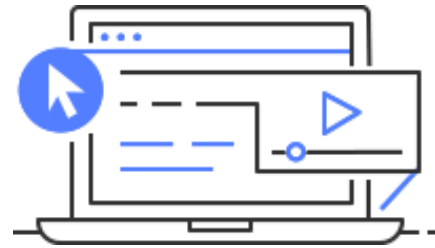
[View the current list of services covered by the AWS BAA »](#)

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Thank you!

Anand Iyer
Enterprise Solution Architect, AISPL