

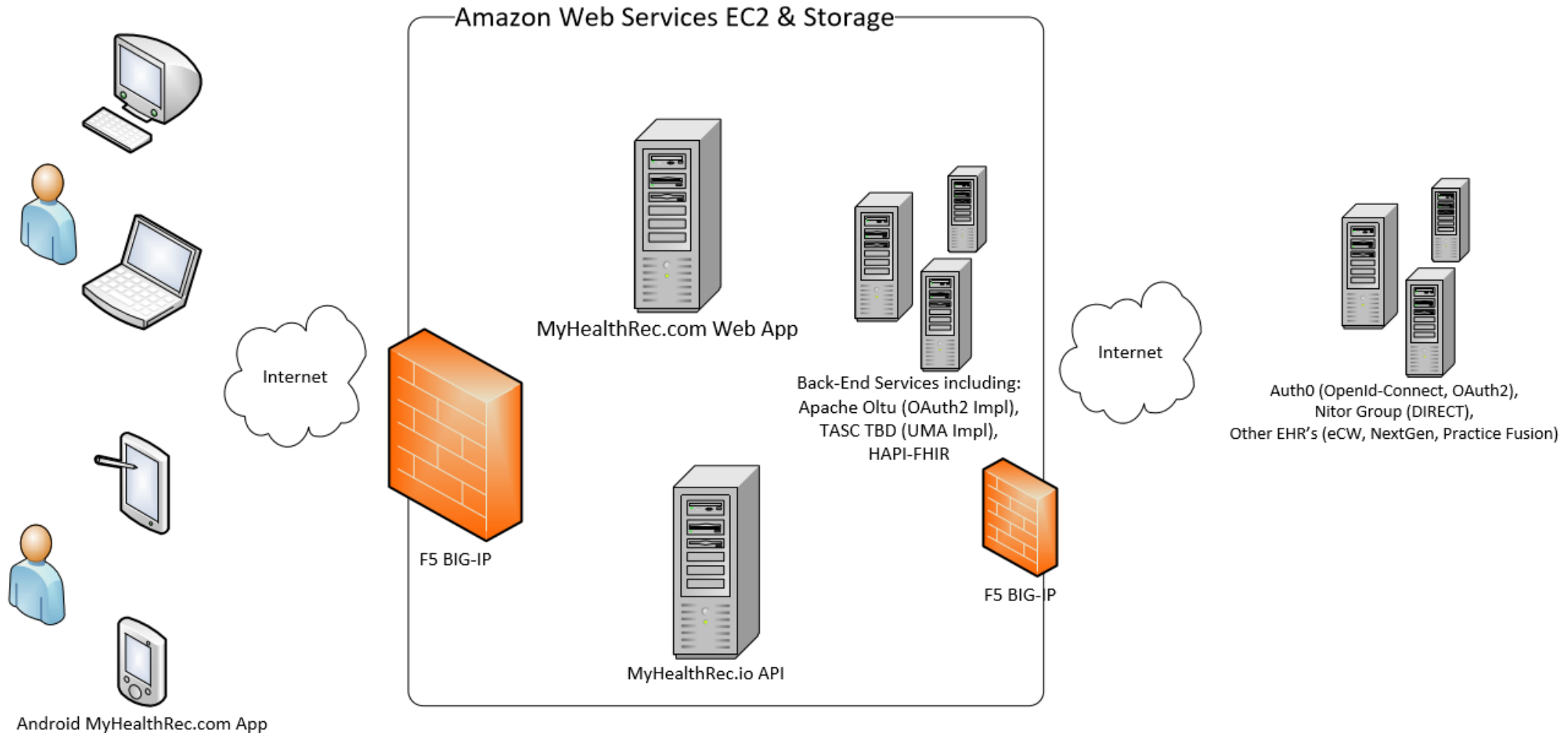
# MyHealthRec.io API

- Thoughtkeg Application Services Corporation
- Thomas “Rick” Bell, Founder & CEO
- Slides:
  - Solution Technical Description
  - High-Level System Architecture
  - HEART WG Specifications Usage
  - Two Basic Use Cases
  - Provider Value Proposition with MIPS
  - Final Statements on Advantages

# Solution Technical Description

- MyHealthRec.com
- Patient Portal Web App
- HTML5, CSS, Modern Javascript Front-End, Single Page Application built on Aurelia Framework
- MyHealthRec.io
- RESTful API providing:
  - FHIR Server & Client
  - DIRECT Messaging
  - OpenID-Connect & OAuth2
  - UMA
- Micro-services Architecture
- Back-End Services for Web App & Mobile App

# MyHealthRec High-Level System Architecture

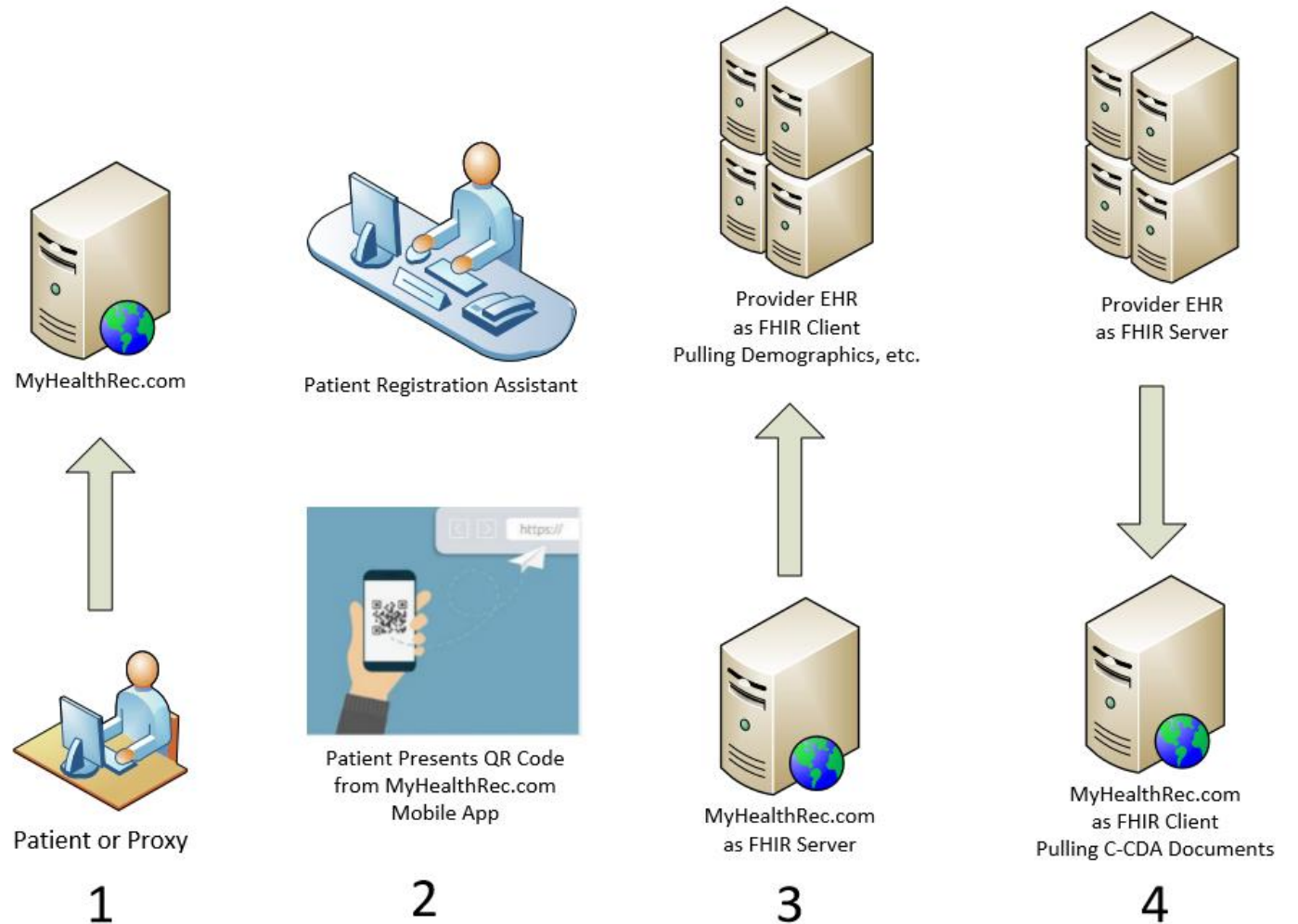


# HEART WG Specifications Usage

- Patient can use a MyHealthRec ID or use a social media account, like Google, Amazon, Microsoft, etc. to log in (OpenID-Connect, OAuth2)
- Patient can specify a Data Sharing Policy authorizing other users or entities to gain access and/or share their data based on certain conditions or claims. (UMA, OpenID-Connect, OAuth2)
  - Initial Patient Registration (sharing Demographics, etc.), Registration by Patient's designated Proxy
  - Sharing C-CDA document over DIRECT, or a FHIR Resource, from a Specialist with a Primary Care Provider

# Example Use Case: Patient Registration

- 1) Patient signs up with MyHealthRec.com and provides demographics, history and physical, etc.
  - a) Alternatively, Patient signs up and authorizes Proxy to provide and allow sharing of data (UMA)
- 2) Patient or Proxy presents at Provider's registration assistant with a QR Code to scan. This overcomes the Patient Matching Issue.
- 3) Provider's EHR performs as a FHIR Client pulling registration data from MyHealthRec.com (MyHealthRec.io's API) which performs as a FHIR Server.
- 4) After the visit is complete, MyHealthRec.com can call the MyHealthRec.io API to pull from the Provider EHR's FHIR Server.



# Example Use Case: Creating UMA Policy

To the right is a wireframe of a form that could potentially be used to assist the Patient in creating Data Sharing Policies.

This is a very rough mockup, but the basic approach is that a UMA is essentially a statement of “WHO, identified by attributes or claims (like identity claims or others), can do HOW (action) on WHAT (data or documents as defined by types or attributes, like Tags or Categories)”

MyHealthRec.com

## WIREFRAME of UMA Policy Creation Form

Using this form, please identify any additional sharing rules that apply for you. For example, you could define a rule where “Proxies can Amend History and Physical documents that are Non-Sensitive”

User Attributes

Select Role

Patient  
Proxy  
Primary Care Prov.  
Specialist  
Provider Known to You  
Payer (Insurance Co., etc.)  
Testing Center

Ability

Select Action(s)

View  
Download  
Share  
Import to EHR  
Comment  
Amend

Document Type

Column 1

History & Physical  
Diagnostic Results  
Recent Care Summary  
Advanced Directives  
Bills  
Messages with Provider  
All Documents

Data Tags &  
Categories

Column 1

Sensitive  
Non-Sensitive  
Abnormal  
Non-Clinical  
Clinical

Save Rule

# MyHealthRec will help Providers with MIPS: Advancing Care Information

Provides:

FHIR API for API Access measures

DIRECT Messaging for View,  
Download & Transmit measures

Exchanging data with Providers and  
with Patients

SOURCE: <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/Advancing-Care-Information-Presentation.pdf>

## **PROPOSED RULE** **MIPS: Advancing Care Information** **Performance Category**

**THE PERFORMANCE SCORE**  
The performance score accounts for up to 80 percentage points towards the total Advancing Care Information category score

Physicians select the measures that best fit their practice from the following objectives, which emphasize patient care and information access:



**Patient Electronic Access**



**Coordination of Care Through  
Patient Engagement**



**Health Information Exchange**

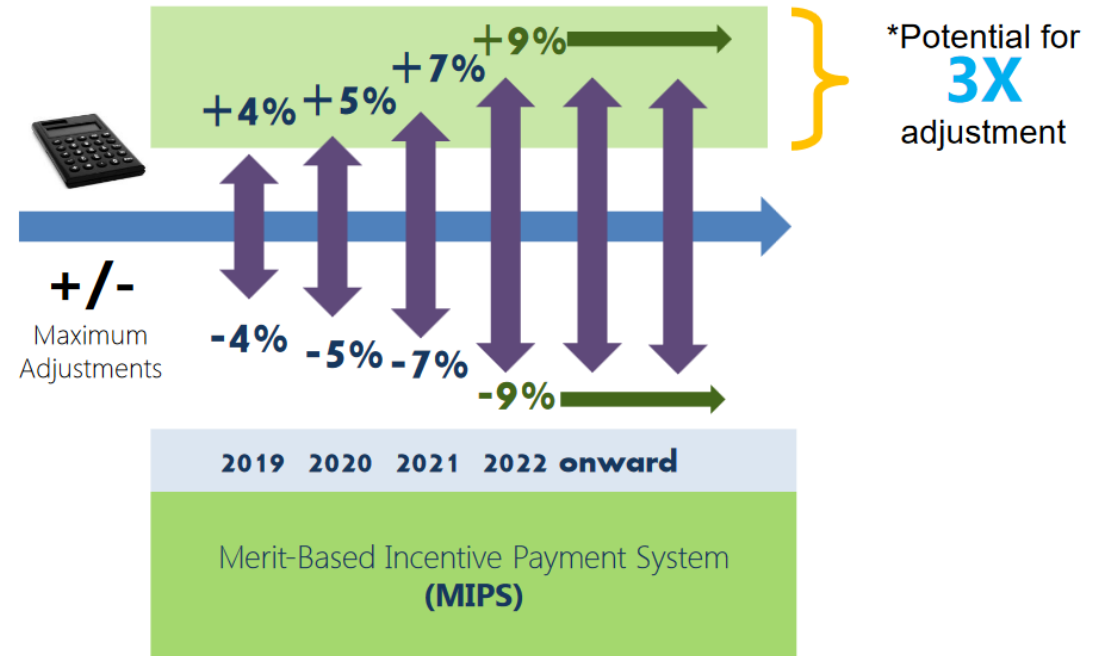
# MIPS Potential Impact to Provider Revenue

The potential impact to Provider Revenue could be significant.

SOURCE: <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/CPIA-Performance-Category-slide-deck.pdf>

## How much can MIPS adjust payments?

**Note:** MIPS will be a **budget-neutral** program. Total upward and downward adjustments will be balanced so that the average change is 0%.





# Advantages of this Solution

- For Patients,
  - Set up properly, relieves some burden of moving data from Patient to Provider and Provider to Provider in a secure, controlled, consumer-mediated exchange
  - Keeps Healthcare Data as Data which can be moved swiftly and securely rather than Paperwork which can be lost or destroyed
  - Assists Family members supporting Patients to act on Patients behalf regarding data
- For Providers,
  - Streamlines the Patient Registration workflow and receipt of data from other Providers
  - Provides Patients with a better customer experience and reduces bothersome failures to connect in a dis-jointed healthcare system
  - Providers can use MyHealthRec to improve Advancing Care Information Performance scores for the MIPS program!

Thank You!