# hfma-

massachusetts-rhode island chapter

25<sup>th</sup> Annual Revenue Cycle Conference Tailgates, Touchdowns, & Revenue Cycle Championships! It's time.....to Reignite!

# NEXT GENERATION SYSTEMS & TECHNIQUES

Matt Muscatiello January 25<sup>th</sup>, 2024

# **AGENDA**

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#### # Description

- 1 Why the buzz?
- 2 Definitions
- 3 How do we manage A/R more intelligently?
- 4 Use cases in action
- 5 Key takeaways



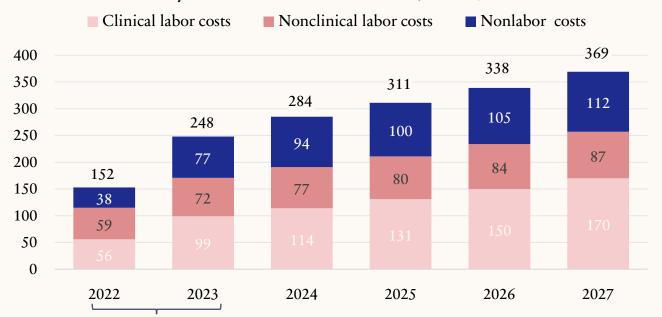
# INCREASING COST PRESSURES AND LABOR SHORTAGES



Costs have continued to grow since the beginning of COVID-19, denial volumes are up, and FTE turnover further compounds the challenges

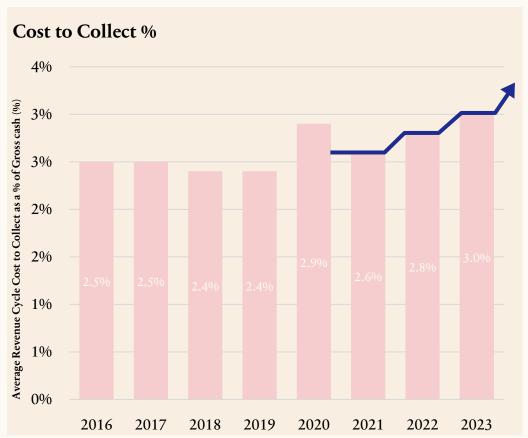
The largest portion of potential extra healthcare costs are introduced to the system in 2022-23.

Potential incremental in-year healthcare costs due to inflation, \$ billion, nominal



inflation and clinical labor wage growth are significantly above baseline trends in **2022 and 2023** before returning to a lower rate of growth on this elevated baseline

Source: McKinsey analysis in partnership with Oxford Economics; expert input



This data was received directly from clients and has not been validated by PwC. Confidential information for the sole benefit and use of PwC's Revenue Cycle Consortium Membership







### **DEFINITIONS**

Automation: Reducing human intervention in processes.



#### **Components**

#### **Artificial Intelligence (AI)**

Software designed to simulate human thinking

#### Machine Learning (ML)

A subset of AI that becomes intelligent by identifying patterns in data

#### **Optical Character Recognition (OCR)**

Converts scanned documents or photos into text

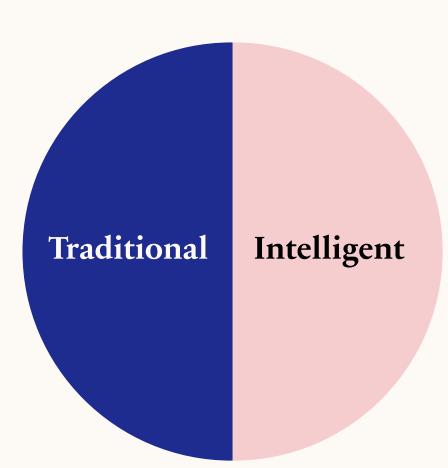
#### **Natural Language Processing (NLP)**

Conversational interface to communicate with humans

#### **Process Mining**

Diagnosing business processes to identify areas for improvement

Software that can mimic human actions based on predefined activities and business rules (think "RPA" – Robotic Process Automation)



# HOW DO WE MANAGE A/R MORE INTELLIGENTLY...

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...to increase resolution efficiency & improve cash collections?



Reduce unnecessary touches



Increase productivity by decreasing the time spent to touch an account



Lower the average number of touches it takes to resolve an account



Prioritize accounts to work the right account at the right time, improving overall inventory liquidity

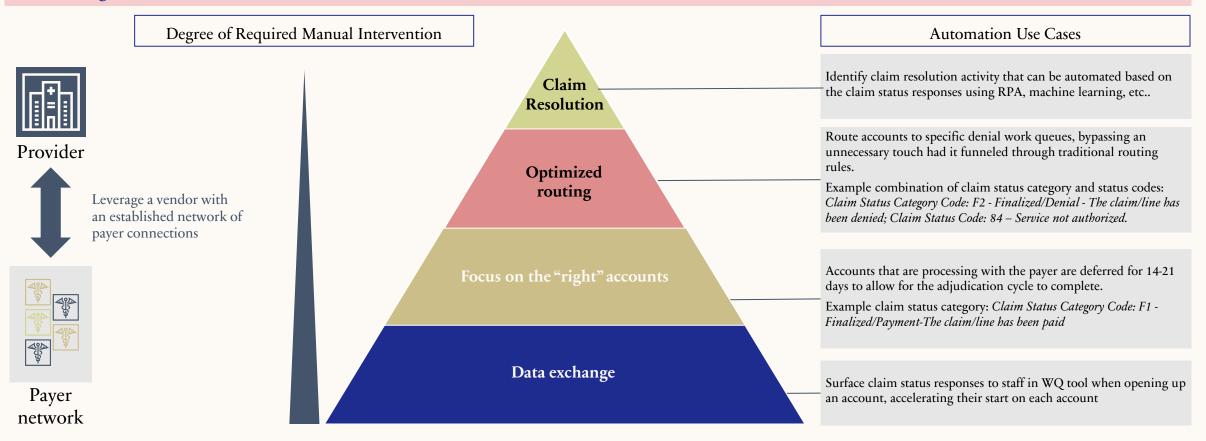


Identify the most optimal path to working like accounts, overturning denials and avoiding write-offs, and doing so in an accelerated manner

# CLAIM STATUS FOCUSES REPS ON ACCOUNTS THAT REQUIRE ACTION AND ROUTE THEM TO THE APPROPRIATE WORK QUEUE, REDUCING THE OVERALL TOUCHES REQUIRED TO REACH RESOLUTION

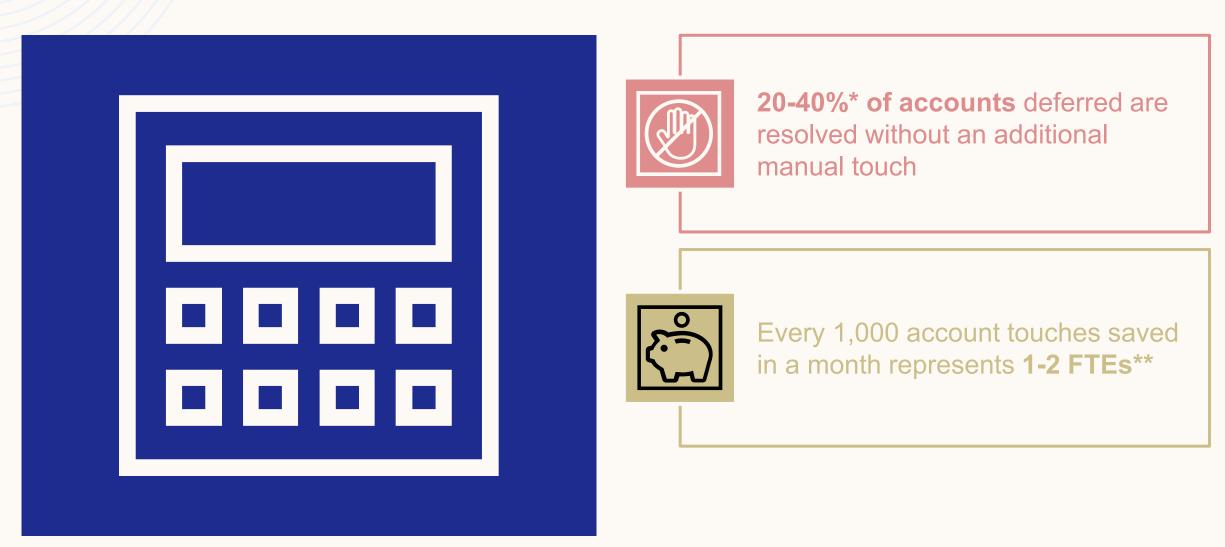


The integrated claim status solution sends select inquiries out in nightly batches, processes the responses, and applies business rules to update accounts and route them appropriately. The latest claim status response is also visible to staff in their WQ Tool when opening up an account, accelerating their start on each account.



# **ROI BEHIND CLAIM STATUS**





<sup>\*</sup>Based on PwC's experience with Revenue Cycle Managed Services client engagement experience \*\*Can vary based on expected productivity levels

# **PROCESS MINING**

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For every click, pull associated metadata and screen captures

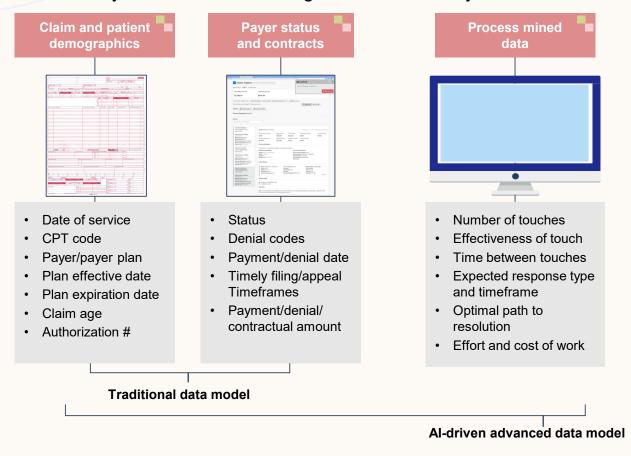
Based on the insights extracted from the process mining output, identify opportunities to improve through training/education, process changes, and technology enhancements

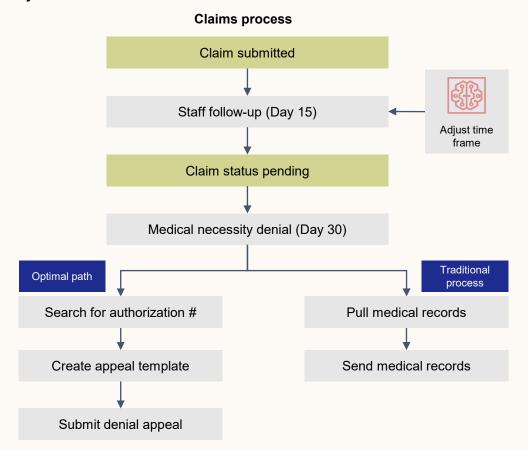
#### Data capture **Improvements** dentify opps for greater charity Provide structure to the **Process** mining Continuously mine processes to extract Leverage OCR technology to process the insights on where there is opportunity screen captures and normalize the massive to become more efficient in how data set, annotating any unstructured data to specific types of claims are resolved derive meaning on processes

# PROCESS MINING (CONT'D)



By deploying a desktop-enabled application that captures transactional metadata and user actions, you can create digital process maps and correlate those process maps to financial outcomes. The result? A "best path flow" to resolution on a variety of accounts with specific attributes. This allows you to focus on touching the accounts that you need to and when you do, you lower the number of touches.

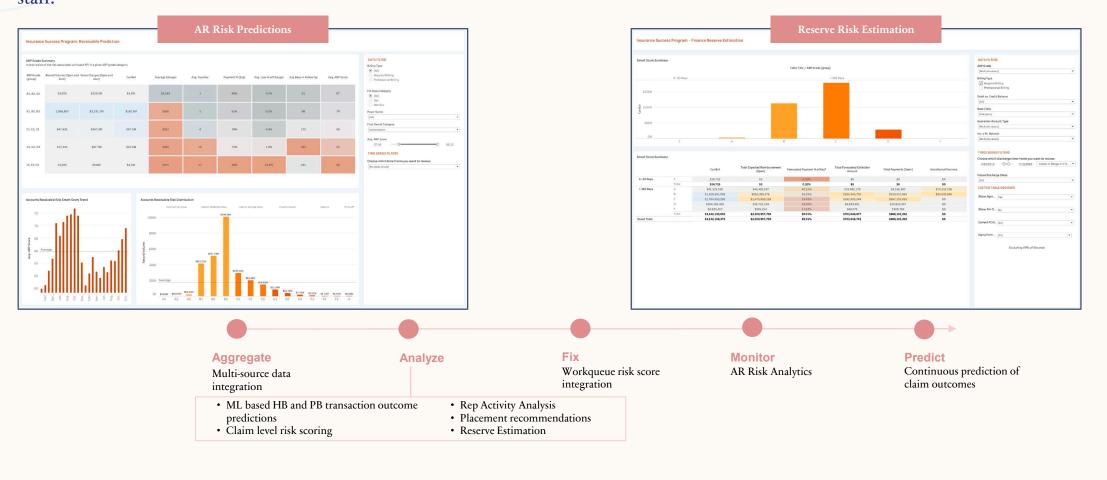




# A/R RISK PREDICTION



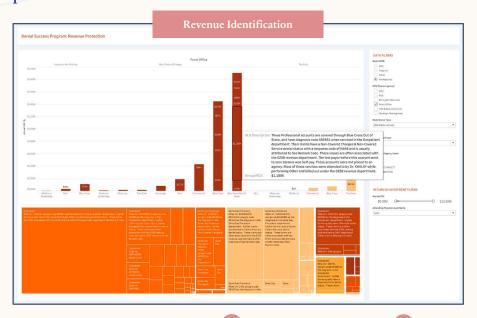
Machine learning solutions for predicting accounts receivable risk and recommending appropriate follow-up action for staff to provide an efficient and accurate way to manage patient accounts and reduce revenue loss. Based on the risk score, define processes for recommended follow-up action to staff.



# **DENIALS MANAGEMENT INTELLIGENCE**



Using machine learning for revenue protection and leakage identification in the revenue cycle, harnessing the power of artificial intelligence to safeguard a healthcare organization's financial health. Advanced algorithms and data analysis techniques can proactively detect, prevent, and rectify potential sources of revenue loss.





Aggregate

Multi-source data integration

**Analyze** 

ML based process mining and project issue clustering

Fix

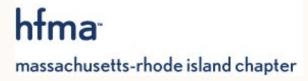
ML based project recommended worklists

Ionitor

Revenue leakage analytics for continuous monitoring of improvements Predict

Continuous prediction and recommendations of KPI loss areas

# **KEY TAKEAWAYS...**





#### **Incremental improvements**

We aren't going to solve for an autonomous revenue cycle overnight. Focus on moving the needle through incremental improvements and continue to iterate on solutions where a foundational layer has been established.



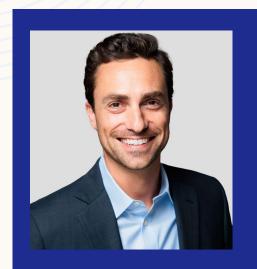
#### Be willing to try and invest

We've exhausted different strategies to lower our cost to collect. We HAVE to try new things, such as intelligent automation; however, it requires an open mindset to see what will work best. Creating a more intelligent tech-enabled workforce is the path we need to invest in.



# WITH YOU TODAY...





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**Industry tenure: 15+ years** 

#### **Summary**

Matt is a director with PwC's Revenue Cycle Managed Services practice, leading engagements and responsible for driving intelligent automation and reporting solutions to accelerate cash flow and increase revenue for our healthcare provider clients. He has 15 years of experience in the healthcare industry, serving in consulting, operational, and analytical roles, with a focus on revenue cycle management and healthcare interoperability.

#### Relevant experience

Matt has consulted health systems and large multi-specialty physician groups to drive operational efficiency and bottom-line growth, focused on their revenue cycle management strategy and operations. Engagements included business office consolidation, physician group merger integration, supply chain cost savings, IT vendor selection, project and change management.

He led an organization at athenahealth responsible for the design, strategy and management of all interoperability needs for existing and prospective clients and partners. Capabilities included API, HL7, C-CDA, SSO, X12, as well as custom flat file integration.



# **THANK YOU!**

