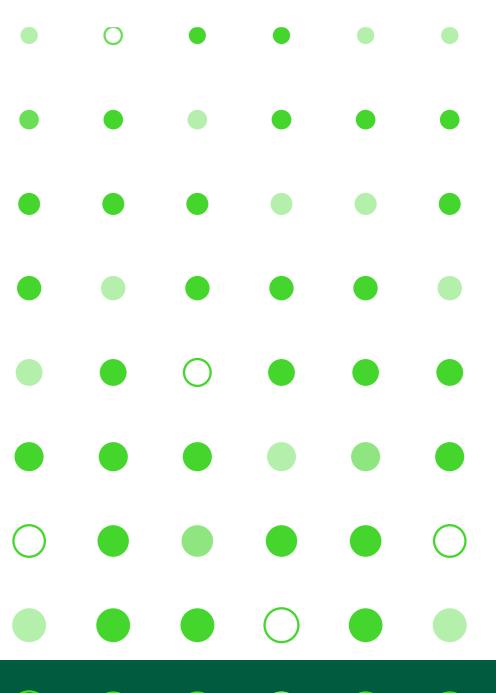


AI: Reconciling Its Reputation With the Facts



Overview

A NEW WORLD OF DATA SCIENCE IS OUR FUTURE ... AND *SOME* OF THIS FUTURE HAS ALREADY ARRIVED. LET'S ASSESS:



Artificial
Intelligence (AI) is
maturing rapidly



Al tools are becoming more accessible and cheaper



Everybody is thinking about how to take advantage of new capabilities



30% of Digital transformation initiatives result in a negative ROI

Learning Objectives

DURING THIS SEMINAR, ATTENDEES WILL LEARN TO:

- $f{1}$ Analyze the current state of the industry.
- 2 Evaluate AI and other tools through various use cases.
- Assess selection, implementation, and program governance considerations.

About Today's Speakers

About Advata

Advata is an advanced analytics software company with a suite of SaaS products that drive better healthcare. Advata fuses data science research with responsible artificial intelligence (AI), machine learning (ML), and robotic process automation (RPA) to improve patient outcomes, enhance efficiencies, optimize revenue, and decrease costs.

Advata serves both clinical and back-office management to optimize operations using advanced analytics. Advata solutions help healthcare organizations improve revenue cycle management (RCM) and streamline workflows.

The name "Advata" is indicative of our value proposition – advanced data analytics for healthcare.



Keith A. Shanks
Vice President, Sales
Advata

Keith Shanks is the Vice President at Advata. With over 19 years of experience, he is well-versed in healthcare revenue cycle management workflow with a specific focus on technology, services, and analytics.

Prior to Advata, Keith has steered the go-to-market growths for strategic planning and market oversight for three healthcare organizations, in addition to two startup companies.

Keith holds a B.S. from the University of Idaho. The foundation of his career success began in 1988 when he enlisted in the U.S. Navy. Keith honorably served for 15 years and earned his commission as a Naval Officer at the halfway mark of his tenure.



Kristin Steen
Senior Product Manager
Advata

Kristin Steen is a Senior Product Manager of Revenue Cycle Management applications at Advata. Her primary focus is on building denial analytics and root cause analysis solutions that proactively inform healthcare back-office teams on denial and underpayment trends and issues.

Prior to Advata, Kristin launched a mobile application for a digital-first health service provider, combining artificial intelligence with virtual clinical operations. Her experience includes setting strategic direction through product roadmaps for data-focused SaaS start-ups.

Kristin holds a Bachelor of Business Administration degree in Finance from Texas A&M University and a Master of Business Administration degree from the University of Washington.



Poll #1: What is your organization's experience with AI?

1

We are using AI now.

4

We want to build our own!

2

We don't buy the hype, so we're not considering anything beyond our core systems.

5

We used an AI vendor, but the AI didn't do what they said it would and/or the return on investment was negative.

3

We are in the process of assessing our options with AI.

6

We think that our EHR offers enough AI that we're fine.



Definitions

- Artificial Intelligence (AI): the capability for machines, using statistical techniques, to independently make decisions based on perceived environment
- Predictive Modeling: the use of statistical techniques to predict future outcomes based on historical data
- Machine Learning (ML): the ability for a software to learn and improve without being explicitly programmed
- Robotic Process Automation (RPA): using software to interact with information systems and perform tasks without human intervention
- Business Intelligence (BI): application software that collect and process large amounts of data from internal and external systems, and identifies patterns and trends



Common Use Cases



Predictive Analytics

- Propensity to pay
- Price Transparency
- Readmissions



Artificial Intelligence / Machine Learning

- Transcription Services
- Computer Assisted Coding



Robotic Process Automation

- Claim Status Checking
- Eligibility Checks

- The underlying data is often unreliable, not standardized, or not specific
- Modern workflows aren't integrated into legacy processes

- Development tools and processes get cheaper
- Point solutions are broadly available and generally accepted tools



Common Use Cases - Emerging



Predictive Analytics

- Predicted denials
- Propensity to recover



Artificial Intelligence / Machine Learning

- Computer Automated Coding
- Reserve model audit
- Process mining/task mining



Robotic Process Automation

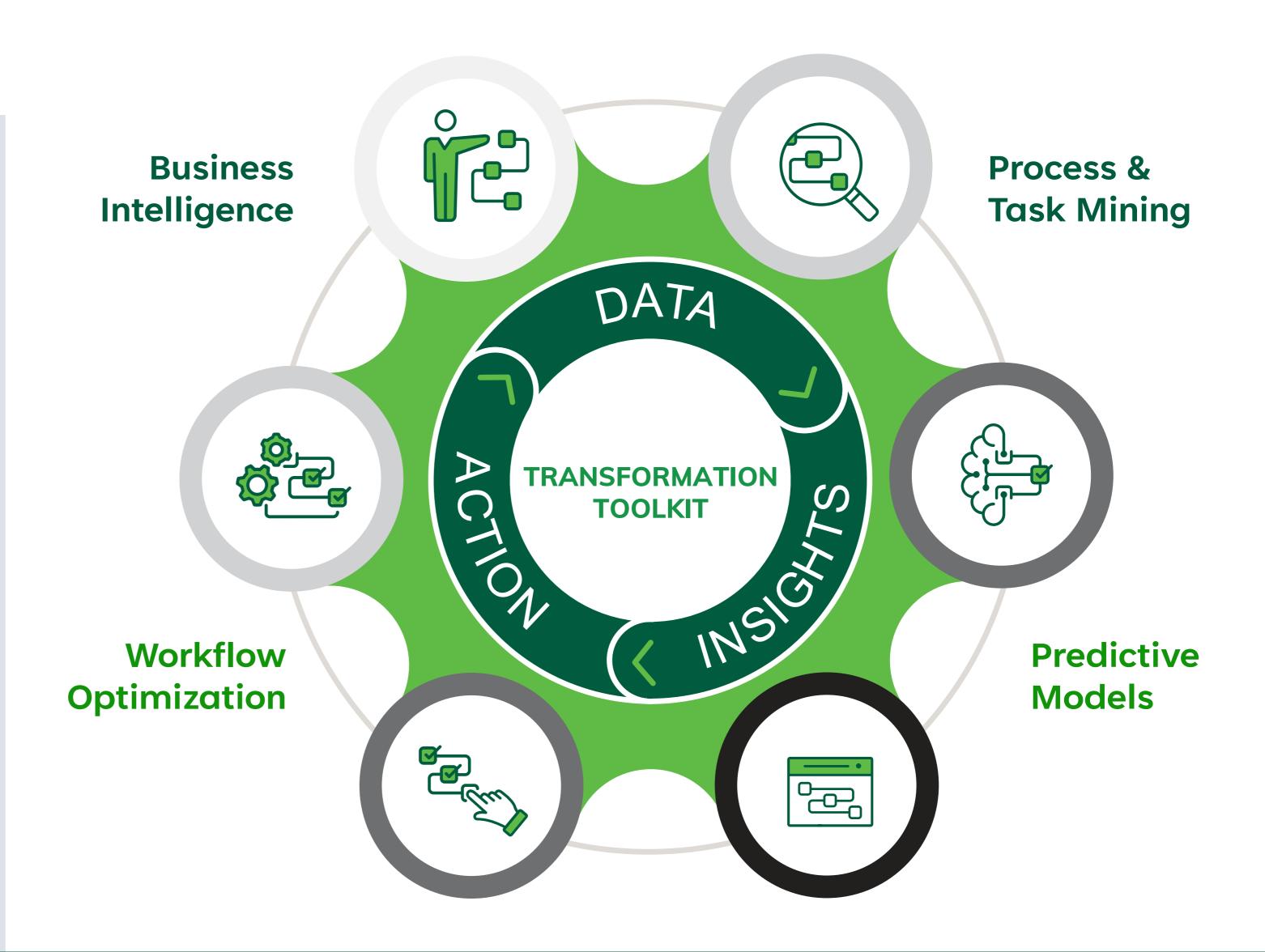
- Host system workflows
- Appeals process
- "Attended" automations

- Most products are unproven
- Most are not fully integrated workflows



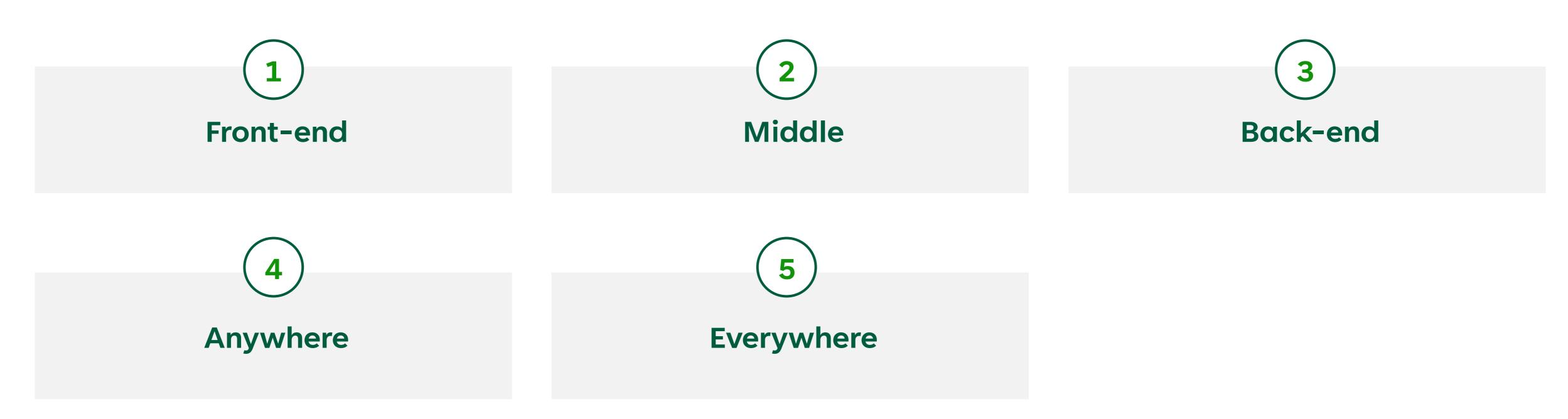
> Transformation Toolkit

An Intelligent Business Process
Management Suite (iBPMS)
integrates the use of these
emerging techniques, enabling a
more comprehensive approach to
digital transformation





Poll #2: Where is your biggest pain point that AI would benefit?



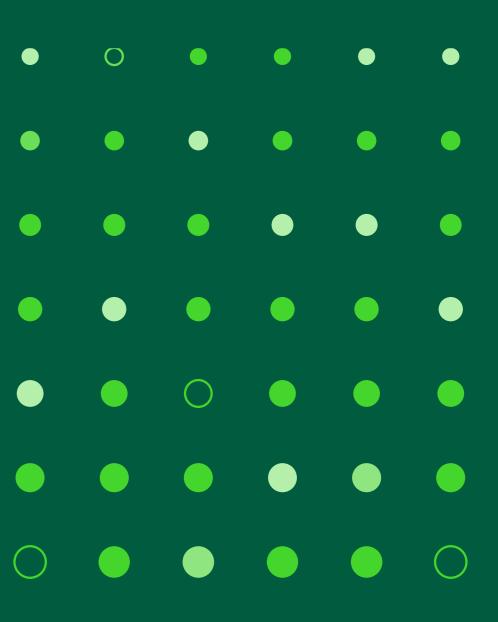


Case Study

While administrative and finance functions have rote, unchallenging tasks across the revenue cycle, focusing first on the back-end maximizes ROI. Not only are the applications for the sort of technology discussed more mature in this space, the generation of otherwise uncollected revenue — with the reduction of costs a secondary though beneficial result — means a degree of growth in today's tight margins.

To illustrate what we have discussed so far, what follows is an examination of a common problem, solution built from the box of tools, and a glimpse of the outcomes.

Let's look at the use case of Low Balance Accounts Receivable (AR).



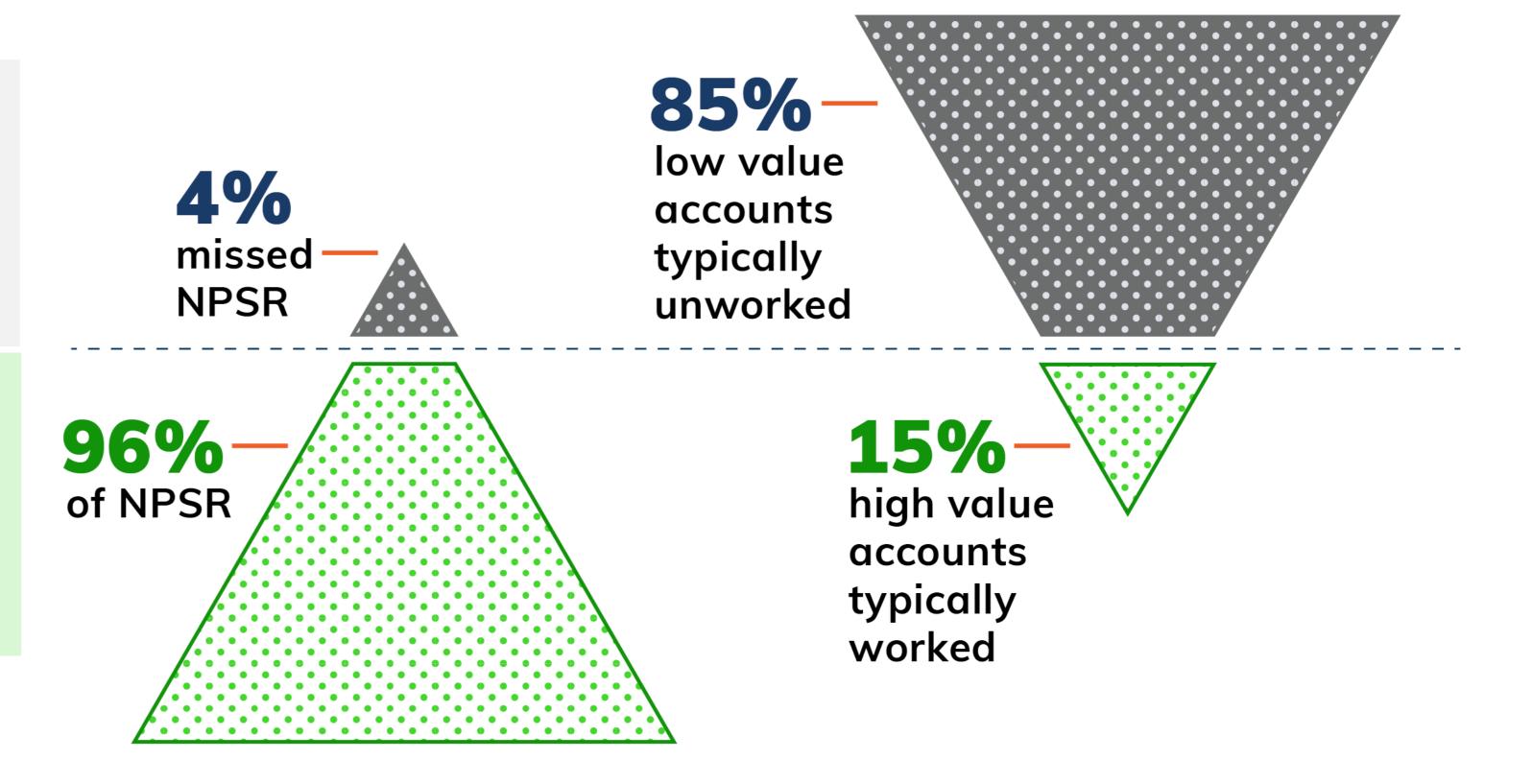


> Problem:

YOU AREN'T WORKING MOST OF YOUR AR

Low \$ accounts
Typically unworked

High \$ accounts
Typically worked





> Transformation Toolkit

Business Intelligence

- Denials Analysis
- Payer Anomalies





TRANSFORMATION TOOLKIT



- Robotic process automation
- Like accounts in sequence
- Due for work timing



Process & Task Mining

- AI-Powered Process Mapping
- RCM Process KPIs

Predictive Models

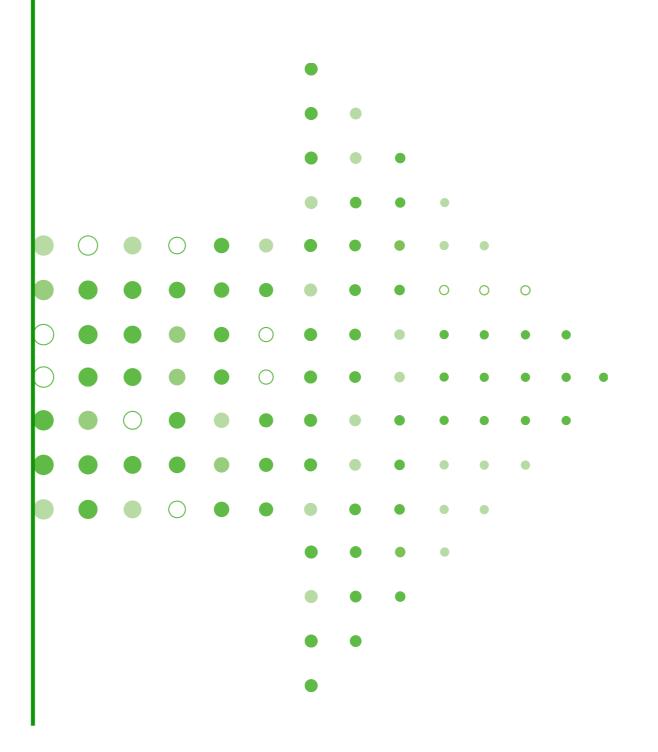
- Propensity to recover
- Expected labor cost
- Deadwood/negative ROI accounts





Business Intelligence Reports:

- Denials Clusters
- Payer anomalies
- "False denials"
- Low propensity to recover

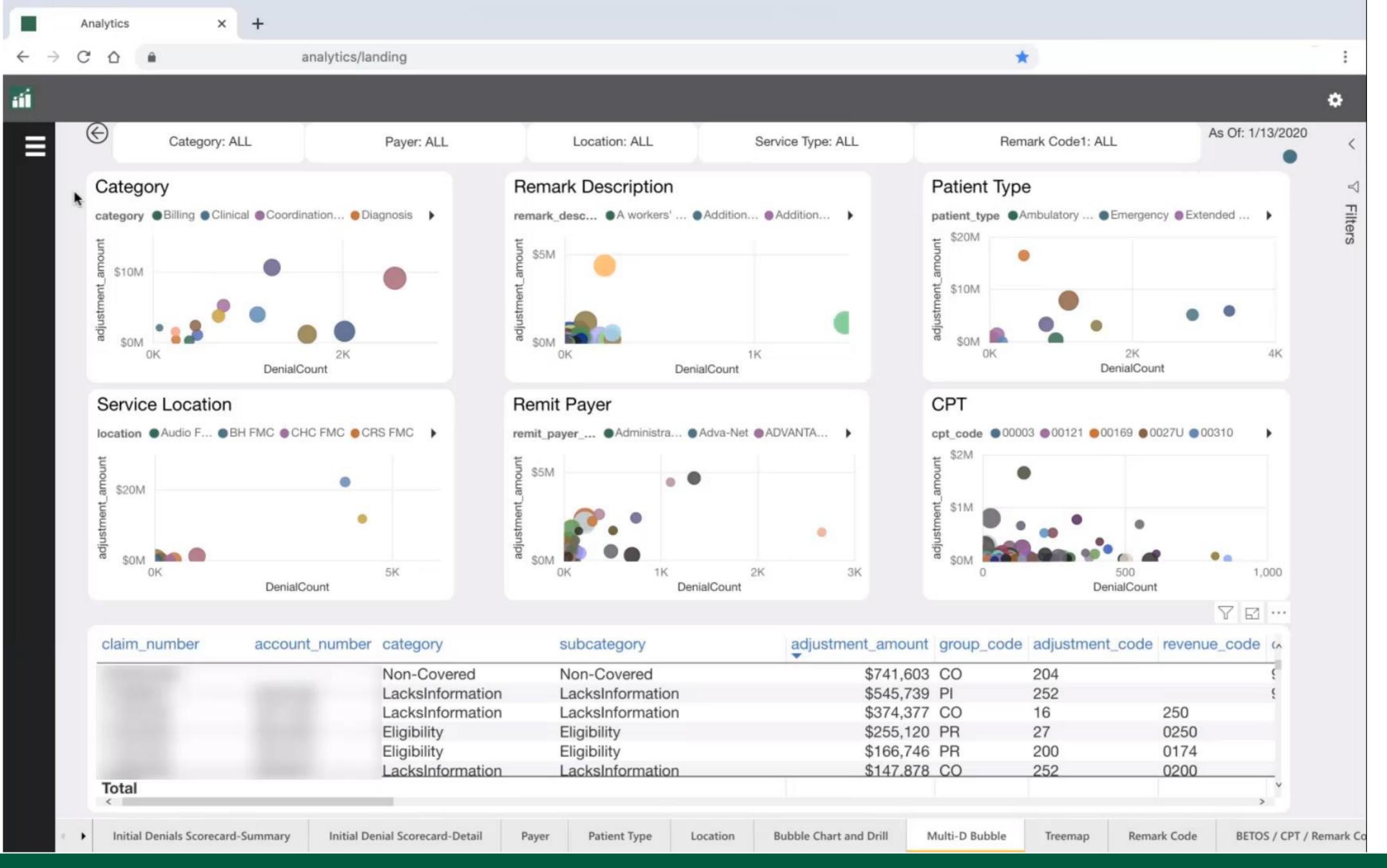




Discovered Opportunities:

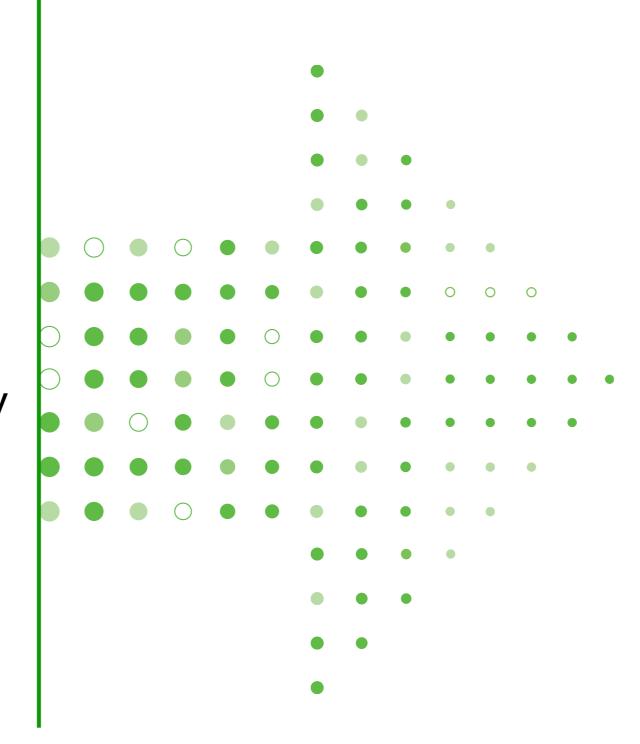
- "False Denials" from managed
 Medicaid payers
- "Net Down" transactions holding up Co-Pays
- Denial Prevention opportunities up stream in RCM
- "Mass Appeal" opportunities







- **1** Business Intelligence Reports
- Process Mining / Task Mining:
 Process visualization as it really happens
 - Process bottlenecks
 - Redundant loops / unnecessary steps
 - Variant analysis
 - Correlations to positive / negative outcomes
 - Conformance checking





Discovered Opportunities:

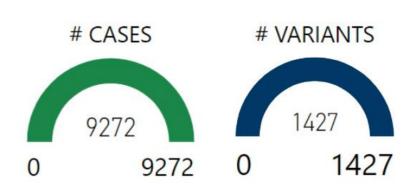
- Performance baseline
- Variance among follow up agents
- Bottlenecks in hand offs between departments
- Auto-adjustment thresholds / categories
- Catalog of "job aides"
- Structure for business rules



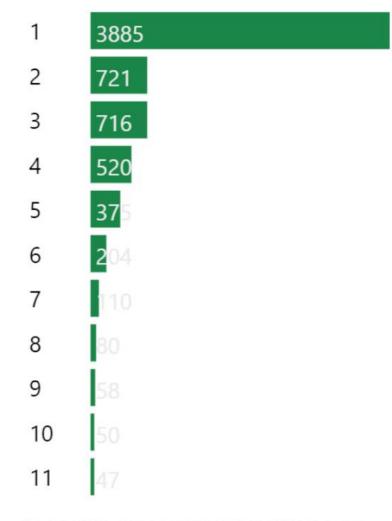


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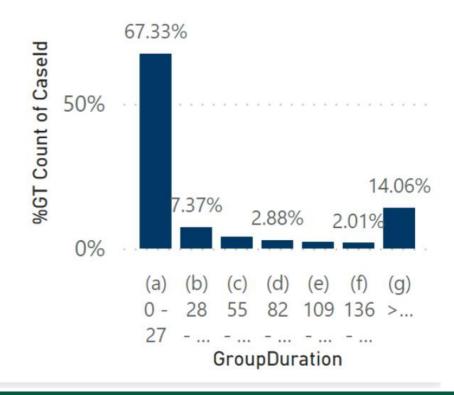
Days in AR

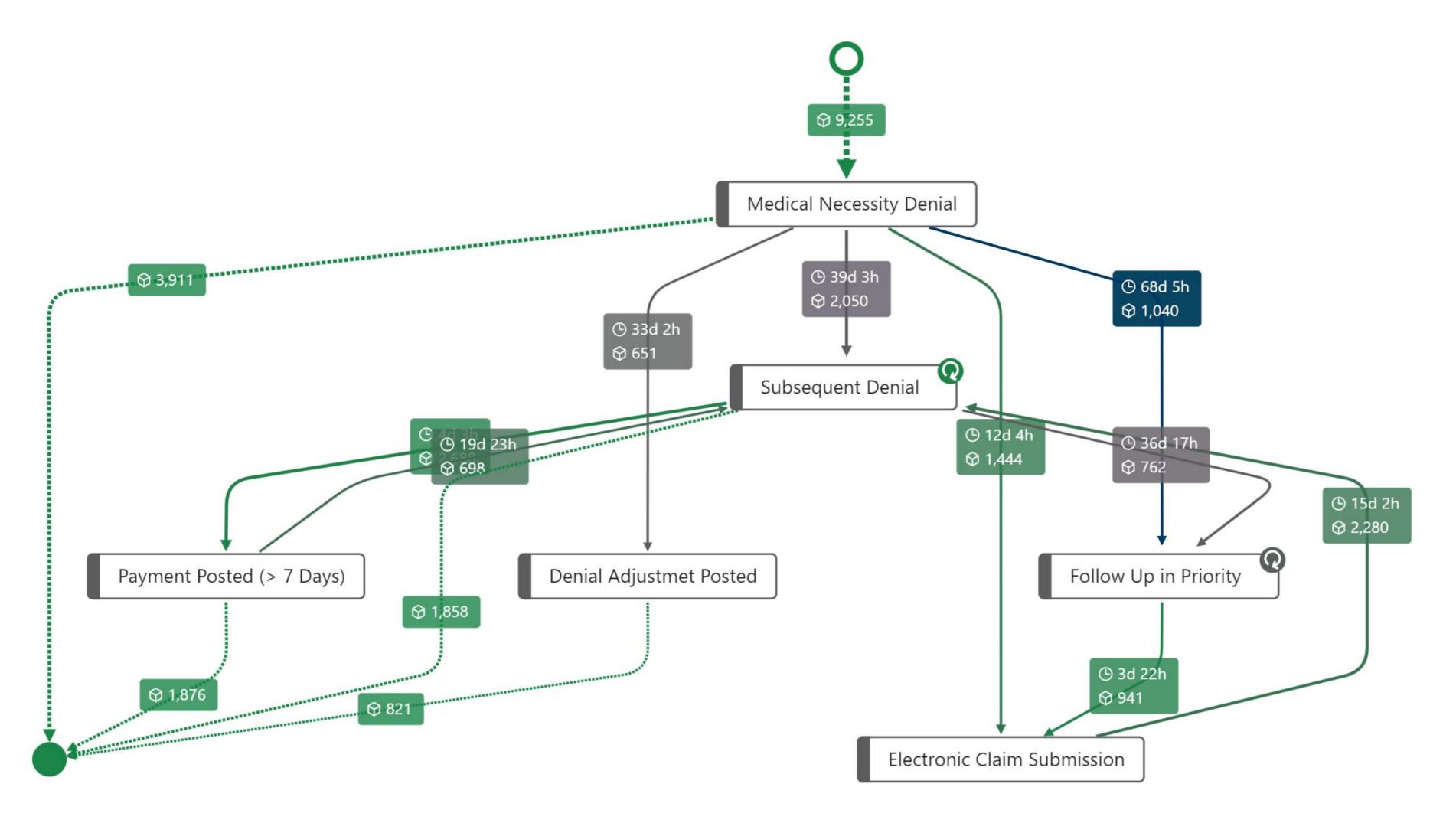


VARIANT FILTER



% CASES GROUPED BY DAYS IN AR

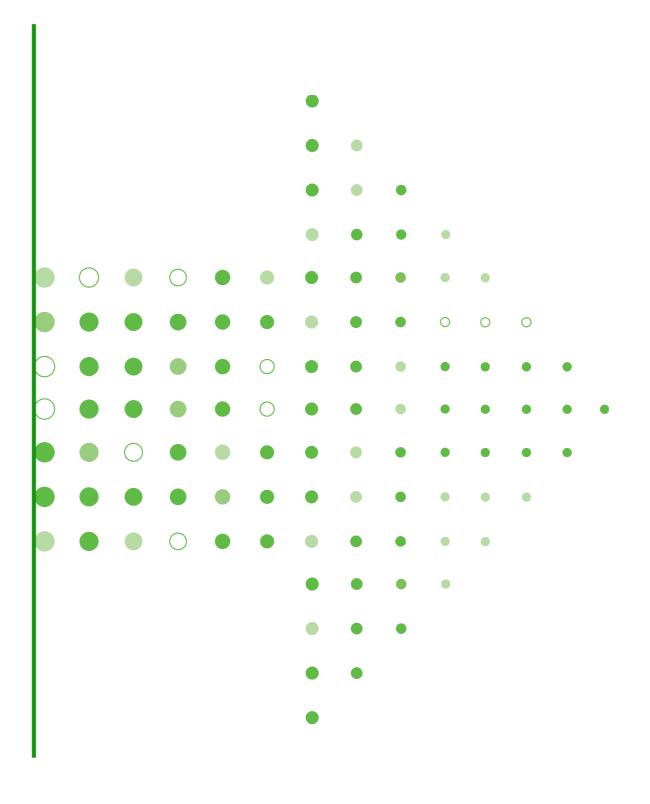








- **1** Business Intelligence Reports
- (2) Process Mining / Task Mining
- (3) Predictive Models:
 - Expected labor cost
 - Propensity to recovery
 - Deadwood accounts





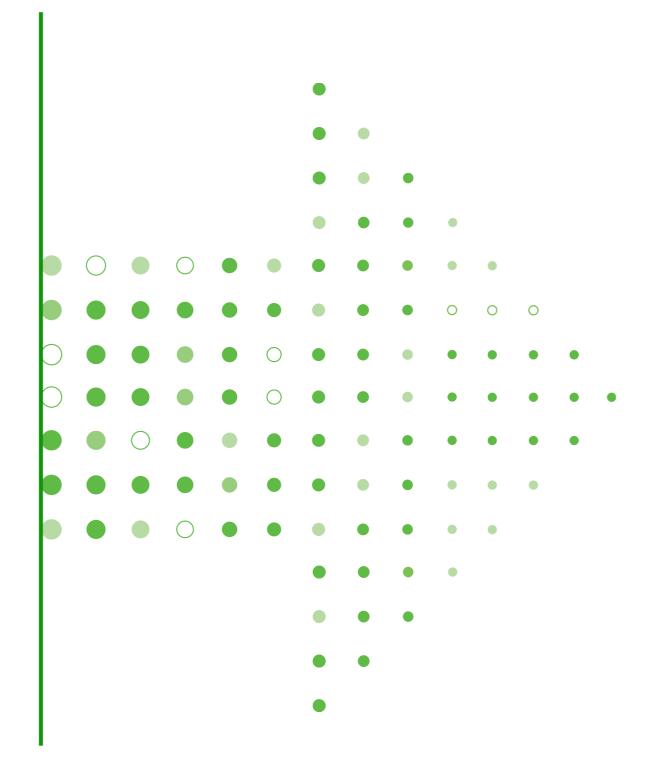
Discovered Opportunities:

- Negative ROI accounts
- Past all filing / appeal limits accounts





- (1) Business Intelligence Reports
- (2) Process Mining / Task Mining
- (3) Predictive Models
- 4 Workflow Optimizations:
 - Robotic Process Automation (RPA)
 - Sort like accounts in sequence
 - Due for work algorithm



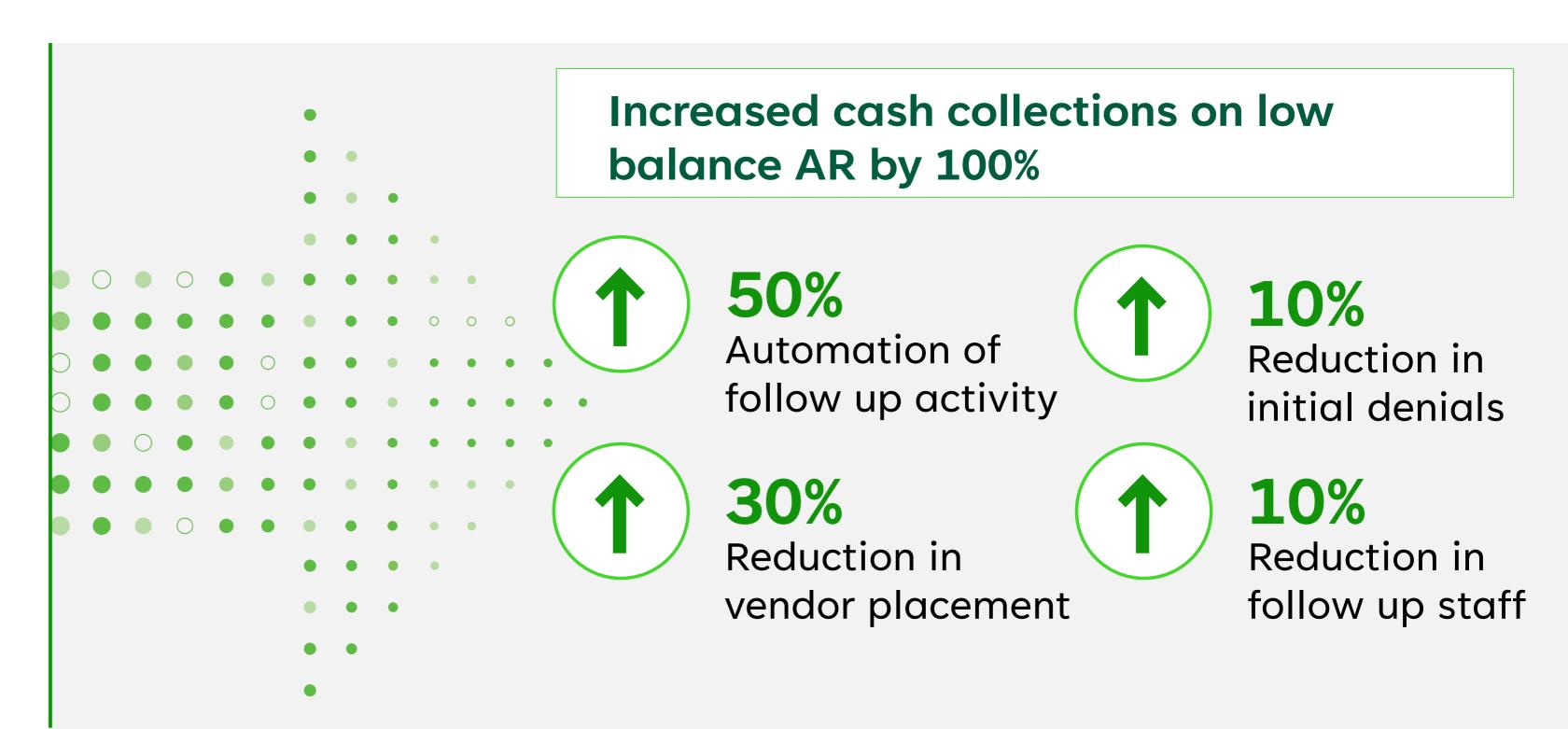


Discovered Opportunities:

- RPA: auto contractual adjustments
- RPA: negative ROI accounts
- RPA: business rules
- RPA: appeals form fill
- RPA: claim status COB denials
- Delay charge correction / crossover accounts



- **1** Business Intelligence Reports
- 2 Process Mining / Task Mining
- (3) Predictive Models
- 4 Workflow Optimizations:



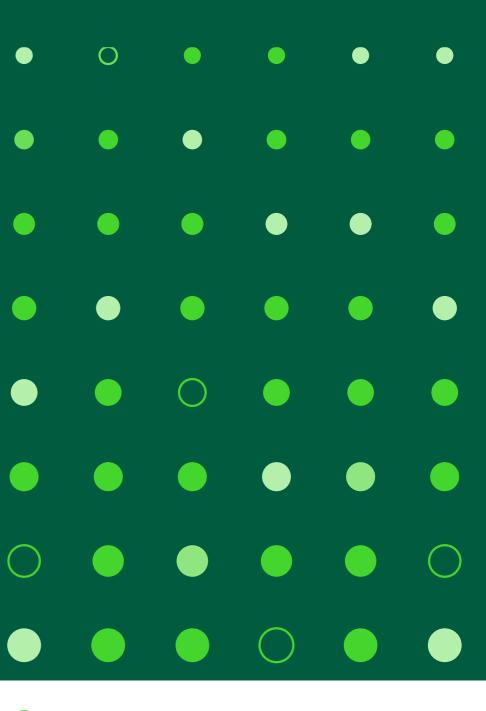


Conclusion

In order to create solutions to today's challenges in the healthcare revenue cycle, a toolbox of technology will build the best answer.

We have reviewed some of the assets that will aid in a response to the problems our industry is facing such as strains on revenue and staffing. I think anyone who takes a closer look will see the synergy between tools.

From better analytics enabling the highest use of automation to RPA creating more effective RCM programs: cash improvements, increased productivity, supports efficient staff, etc., there are opportunities to see enhanced results from your RCM.





Conclusion

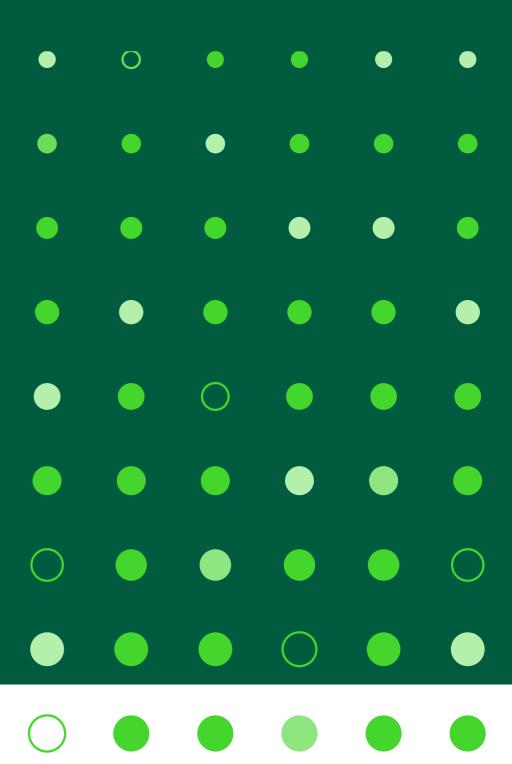
Thank you to our attendees! We welcome any questions, comments, or feedback regarding this presentation. If you would like to reach out to the presenter directly, please use the contact information shown here.



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Thank You

