

# AI symposium

Case studies from across the industry

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## Your speakers



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# What you'll learn today

- $01 \quad \text{How different types of healthcare organizations are approaching AI governance} \\ \text{and their early lessons from these processes}$
- Why aligning Al investments to strategic goals is necessary and how to prioritize among investment options
- How to apply a "problems first" approach to AI investment and what it looks like using case studies
- How to build and implement AI solutions with the end user in mind to ensure buy-in and minimal workflow disruption



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## Agenda

- Identifying the transferrable lessons from AI case studies
- 3 lessons from 3 Al case studies
- Putting it all together



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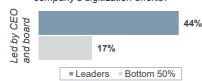


## Internal attributes make the difference

4 differentiators identified by Harvard Business Review's survey of leading Al organizations

## **Executive involvement**

Q: What level in your organization leads your company's digitization efforts?





## Identification of high-impact, low-risk use cases

"The [Al leaders] are better at identifying and implementing use cases that deliver positive outcomes with lower risk."



## Centralized, cross-functional organizing structure

"One common approach [among successful companies] was a cross-silo internal organization...that ensures that AI projects get implemented efficiently and deliver value, while also addressing issues such as cybersecurity, data error, and compliance."



## Prior success with AI investments

"As [Al leaders] build differentiated capabilities, these have a compounding effect over time, widening the performance advantage."

Source: Lawler B, D'Silva V, Arora V. What Companies Succeeding with Al Do Differently. Harvard Business Review. January 9, 2025.



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## Copying others' investments is not the right answer

3 keys to identifying the best use cases for your organization

Let existing strategy guide Al investments



Instead of adopting a new AI strategy, consider how AI will help your organization meet its existing strategic goals.

Consider previously unsolvable challenges -



Beyond your existing strategy, consider any key challenges that may have seemed unsolvable. Can AI make potential solutions more attainable?

Prioritize high-impact, low-risk use cases



Start with solutions that limit your organizational risk and use those solutions to test your governance and decision-making processes.



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## Replicate what led to others' successes

2 key areas of focus across today's case studies

Processes for adopting and implementing Al

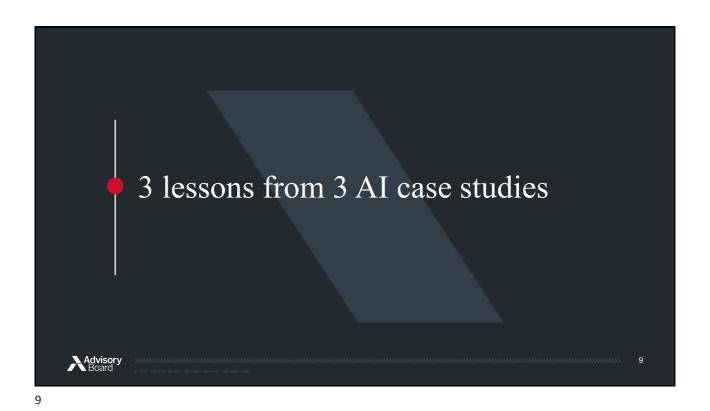


Strategies for identifying high-impact use cases

What do we mean when we say governance?

Al governance: The standards, frameworks, policies, and procedures that guide how Al investment and rollout is directed, controlled, and held accountable. This process includes the establishment of rules and practices that ensure transparency, fairness, improvement, and accountability.





Building a sustainable, successful AI investment process

#### **Baptist Health System KY and IN**

Create governance structures that maximize existing organizational resources

#### **SCAN Health Plan**

Prioritize high-impact, low-risk solutions

## OptumCare<sup>1</sup> Florida

Ensure successful adoption by tuning models and adjusting to end user needs

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# Baptist Health System KY and IN

Create governance structures that maximize existing organizational resources



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## About Baptist Health System KY and IN

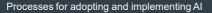




#### **Baptist Health**

- The organization: The Baptist Health System consists of nine hospitals, employed and independent physicians, and more than 400 points of care. The system employs more than 23,000 people in Kentucky and surrounding states.
- Background: Baptist has spent the past few years taking a strategic approach to AI investment across their system due to limited resources. They have placed a heavy emphasis on governance and evaluation while also participating in AI pilots.

#### Key teaching points



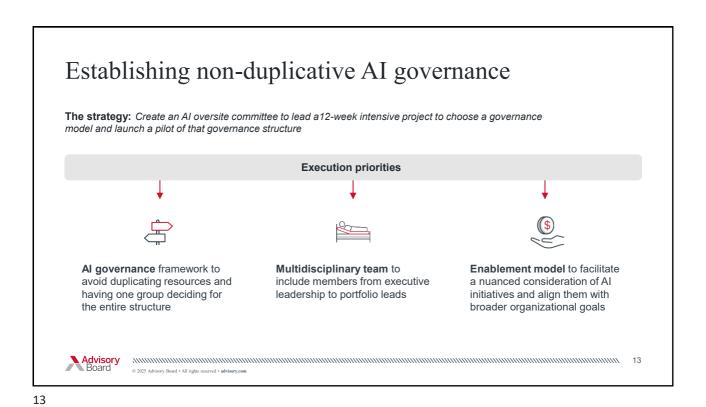


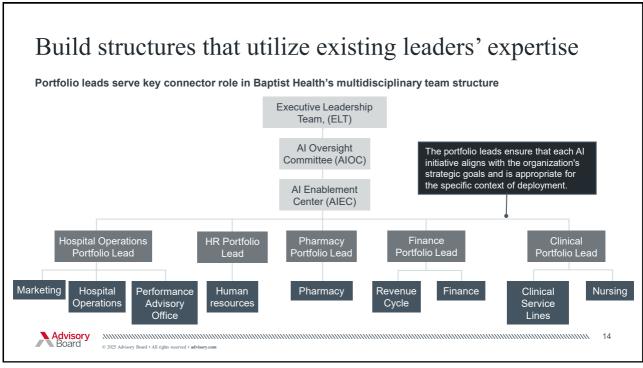
Strategies for identifying high-impact use cases

- Create a non-duplicative yet comprehensive governance structure
- Leverage internal expertise and training key leaders on AI
- · Adapt governance on the fly



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## AI enablement model: Building institutional knowledge

#### **Baptist Health's AI evaluation process**

#### STEP 1

Business leader submits intake form

#### STEP 2

Conversation with portfolio lead

#### STEP 3

Evaluation of vendor

#### STEP 4

Generation of "report

Portfolio lead completes intake form to classify the solution and identify its clinical relevance. This helps determine if it's a new model, an Epic-native model, or just a good opportunity to use AI.

Portfolio lead engages with the business owner to discuss the proposed solution's objectives, requirements, and potential impact.

Portfolio lead, in conjunction with AI enablement center, conducts a thorough evaluation designed to assess the vendor's capabilities, experience, and reliability.

The "report card" assesses the model's performance against key metrics, providing a snapshot of its effectiveness and suitability for the organization.



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## Adjust governance based on early pilot experiences

Lessons learned from Al pilots at Baptist that started before current governance model was established

#### Al for in-basket messaging

LESSONS LEARNED

#### Establish clear goals and metrics (early)

 Learned importance of defining usage goals and KPIs before implementation

#### Set firm evaluation timelines

 Saw value of a stricter timeline for assessing new components, such as generative AI

#### Plan for contingencies

 Understood importance of scenario planning for potential suboptimal performance

ACTION TAKEN: Sifted the tool's application to the MA nurse space, enhancing utility and communication.



LESSONS LEARNED

#### Demand vendor transparency

 Needed clarity from the vendor on the tool's mechanisms and accuracy rates

#### Understand the business case

 Saw the importance of comprehending the business justification for AI implementation

#### **Budgetary considerations**

 Learned that the optimal solution may not always align with budget constraints

ACTION TAKEN: Trained ER doctors to leverage AI for faster patient disposition, reducing wait times and costs.



## AI inventory since implementing intake process



**Current inventory** 

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Vendors/algorithms inventoried in the following categories:

4 pilots 9 discovery 14 live 3 closed





Impact of intake process

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Initial AI intake forms since implementing intake process in January 2025



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## Early reflections from Baptist's experience

#### Early results



Handling AI projects in the pipeline while setting up governance has provided valuable learning experiences and shaped governance for future AI deployments.



Having a governance structure itself is a milestone. Now, no Al project goes live without being at least inventoried.



There's been a noticeable shift in mindset and culture. The organization now embraces the governance model as a necessary step for all Al initiatives.



#### **Future considerations**



Exploring AI governance software

Specialized software can more efficiently intake, evaluate, and monitor Al projects.



Contracting data scientists as needed

Expertise in data science can improve risk management profiles and provide more in-depth analysis of Al solutions.



Assessing how to expand governance team

The governance team is intentionally small now, but as more departments bring AI requests the team's scope will need to expand.



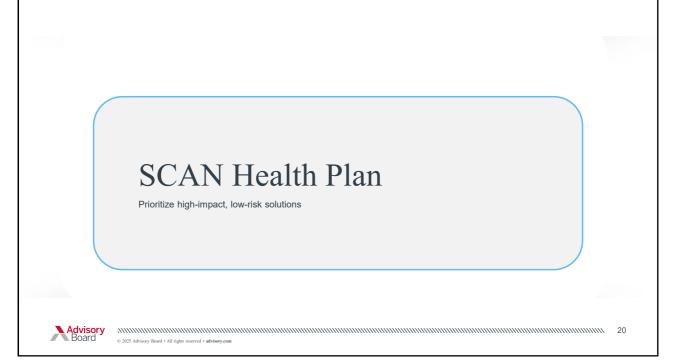
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## Key takeaways from Baptist

- Enablement over approval: An enablement-focused governance model empowers teams and integrates Al initiatives with broader business objectives.
- Continuous learning and adaptation: A governance structure that allows for ongoing learning from active AI projects allows you to adapt policies and procedures as the technology and organizational needs evolve.
- Avoid duplication: Integrate AI governance within existing organizational structures to leverage current resources and avoid unnecessary duplication of processes. This promotes seamless implementation and encourages broader acceptance across departments.



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## About SCAN Health Plan



#### **SCAN Health Plan**

- The organization: SCAN Health Plan is a not-for-profit Medicare Advantage (MA) plan serving more than 277,000 members across CA, AZ, NV, NM, and TX.
- · Background: SCAN's Emerging Technology work group runs business impact assessments to evaluate how AI can address major business problems.

#### Key teaching points

#### Processes for adopting and implementing Al

- · Create a standardized vendor evaluation framework
- · Establish measures for success prior to adoption and regularly track progress once implemented



#### Strategies for identifying high-impact use cases

- · Involve staff in brainstorming biggest challenges that AI could help solve
- · Develop methods for prioritizing potential investments based on impact, risk, and ease

Source: Peterson J. How SCAN Health Plan leveraged Al to improve call center operations. Advisory Board. November 14, 2024.



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## Evaluate AI's impact on existing business challenges

#### Brainstormed potential business problems



#### Prioritized which problem to tackle first



Held general education sessions to give employees a baseline knowledge of AI



Brainstormed inefficiencies contributing to "organizational debt"



Identified tasks that were considered the worst part of someone's job



Recognized problems considered unmanageable



#### Mapped each potential use case by value and effort:

- · "Value": Ability to reduce cost or personhours on low-value work
- · "Effort": Ease of implementation, potential

#### Selected business problems that:

- Were persistent
- · Presented a low potential risk
- · Enabled long-term growth

Source: Peterson J. How SCAN Health Plan leveraged AI to improve call center operations. Advisory Board. November 14, 2024.



# Map potential investments based on effort, value Brainstormed potential business problems Prerquistas Prerquistas Prerquistas Prerquistas Prerquistas Prerquistas Prioritized which problem to tackle first Prioritized which problem t

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## Tie desired outcomes to financial impacts

SCAN's business impact model ties potential benefits to financial outcomes



#### **Decide on metrics**

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## Get leaders' support



#### Track progress

- Decide on which metrics to track, like financial impact and member experience.
- Design method to measure metrics.
- · Sample outcomes:
  - Reduced training time
  - Reduced attrition
  - Avoidance of new head count
  - Improved member experience score
- Bring model by finance and operations leaders, including the Chief Information Office, CVP of member experience, and the Investment Review Committee.
- · Iterate on model until sign-off.
- Track progress at monthly Steering Committee meetings.
- Estimate time until return on investment (ROI).

Source: Peterson J. How SCAN Health Plan leveraged AI to improve call center operations. Advisory Board. November 14, 2024.

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## Use comprehensive vendor framework

#### **Ensure vendor meets requirements**



Scored potential vendor on five-point scale on detailed vendor evaluation framework.



Prioritized a vendor who could prove two fundamental qualities:

- Durability: Partner trusted to endure the initial growth of players and provide a stable solution.
- Responsible use: Partner can demonstrate responsible use of AI.

#### Al vendor questionnaire

#### Performance

- Have you demonstrated performance of your model in a test-pilot study? What were the results?
- How does the model err? Is there a preference for false positives versus false negatives?

#### User experience

- How do you collect user feedback on model scores or responses?
- How can a user seek assistance if there are issues? Who is responsible for handling the issues?
- How does user feedback inform future models?

#### Model operations

- How do you assess for bias on an ongoing basis?
- How do you monitor results?

#### Model refresh

- What is the minimum frequency of model retraining or fine-tuning?
- How much time do you expect SCAN employees to spend in support of retraining or fine-tuning?
- How do you adapt the model on new data?

Source: Peterson J. How SCAN Health Plan leveraged Al to improve call center operations. Advisory Board. November 14, 202



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## Provide ongoing education and training

Successful rollout depends on end users accepting and using Al tools



## Soft launch to work out early challenges

- Make necessary tweaks and respond to feedback before the full launch
- Set up an anonymous chatterbox for employees to leave feedback without fear of judgement or pushback.



## Ongoing education to get employees on board

- Offer training sessions aligned to different roles and flexible to employees' schedules.
- Monitor performance criteria for adoption across teams.



## Early lessons learned from Al rollouts

- The process needs to be iterative as team tests functionality, shares feedback.
- There's a slight learning curve as it takes time for employees to adapt to the solution at their own pace.

Source: Peterson J. How SCAN Health Plan leveraged Al to improve call center operations. Advisory Board. November 14, 2024.



## Results: SCAN's AI solution for call center operations

#### Improve call center operations

- · Partnered with Cresta to provide an AI solution to enhance call center efficiency and quality while emphasizing a membercentric experience.
- · Call center member service advocates (MSAs) were challenged with increasing volume and variability of inbound calls from senior members.
- The tool supports MSAs through automatic transcription and Al-enabled assistance with notetaking, pulling information from the internal knowledge base, and suggesting talking points.

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#### Results as of September 2024

96%

Adoption rate among eligible MSAs

78.5%

Calls with some form of AI assistance (hints, behaviors, automatic summary, search. guided workflow)

Call-related net promoter score (NPS)

98.6%

Members agreed with "MSA you just spoke with explain(ed) things in an easy-tounderstand way"

89%

Overall call satisfaction

1.6 pt

Improvement in members who believe their issue was addressed in a single call between April 2024 and August 2024

Source: Peterson J. How SCAN Health Plan leveraged AI to improve call center operations. Advisory Board. November 14 2024



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## Key takeaways from SCAN Health Plan

Prioritize existing business challenges: Al has enormous potential, but it can be overwhelming to determine where and how to apply Al. It's helpful to narrow down Al's potential impact by starting with existing challenges.

Tie desired outcomes to financial impact: Clear financial outcomes are necessary to secure leadership's support and justify initial and ongoing investment in AI solutions.

Select vendor based on a comprehensive evaluation framework: Al is a rapidly growing market saturated with vendors, which can make vendor selection overwhelming. Additionally, the novelty of AI amplifies the need for caution and to responsibly engage with AI.



# OptumCare Florida

Ensure successful adoption by tuning models and adjusting to end user needs



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## About OptumCare Florida



#### OptumCare Florida

- The organization: OptumCare Florida clinics have more than 1,400 providers who serve about 185,00 patients throughout central and southern Florida communities.
- Background: Optum AI and the Center for Advanced Clinical Solutions (CACS) have collaborated to tackle the
  problem of kidney disease onset prediction and progression with AI-powered clinical decision support (CDS) tools.
  OptumCare Florida clinics recently deployed AI clinical prediction for chronic kidney disease as a live pilot.

#### Key teaching points

#### Processes for adopting and implementing AI



Strategies for identifying high-impact use cases

- Tune models to local data prior to implementation
- Involve end users in the creation, implementation of AI solutions
- Identify clinical challenges where solutions could have significant impact on outcomes
- Create solutions that provide both explainability and actionability to support end users



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## CKD needs disease onset prediction



Chronic kidney disease can lead to end stage renal disease (ESRD) or kidney failure. Dialysis, transplants, and treatments for ESRD and kidney failure are expensive and disruptive to a patient's life, and therefore preventability and interventions are key to change the course of the disease.



More than 1 in 7 adults (37 million people) in the U.S. may have CKD, and every day, more than 360 people begin treatment for kidney failure.



In 2020, Medicare fee-for-service (FFS) beneficiaries aged ≥66 years with a diagnosis of CKD accounted for over \$75 billion in Medicare FFS spending.

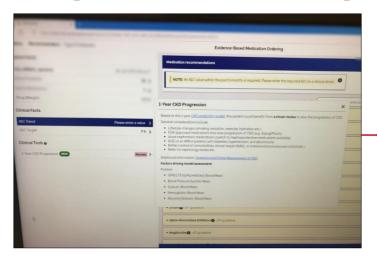


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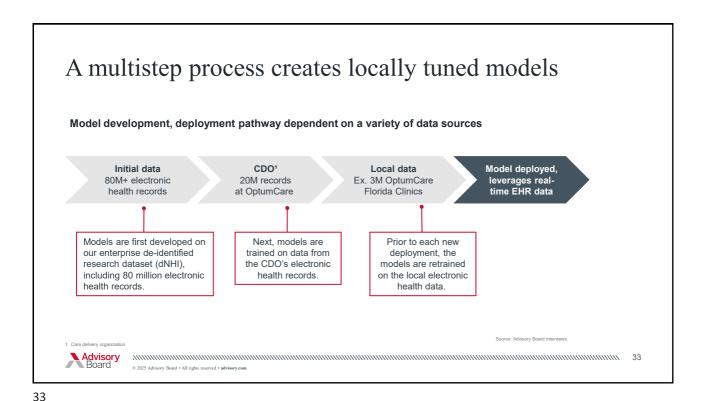
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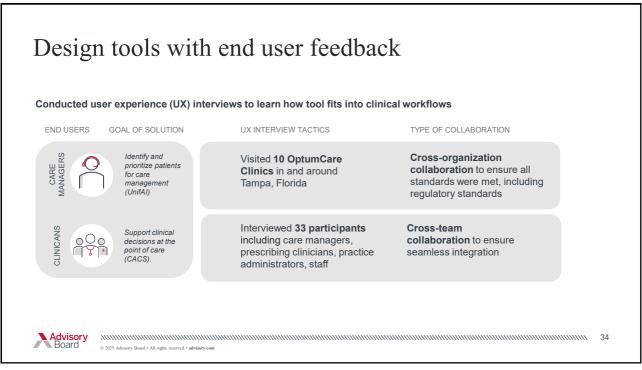
## CKD prediction model built to operate within EHR



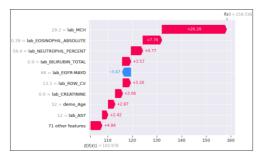
CKD tool on a clinician's screen notifies the clinician of the risk of CKD progression, suggests possible interventions for clinician to consider, and explains the factors that are causing the model to flag the patient.

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## Model explainability — solving the black box problem





Patient A risk score explanation by feature

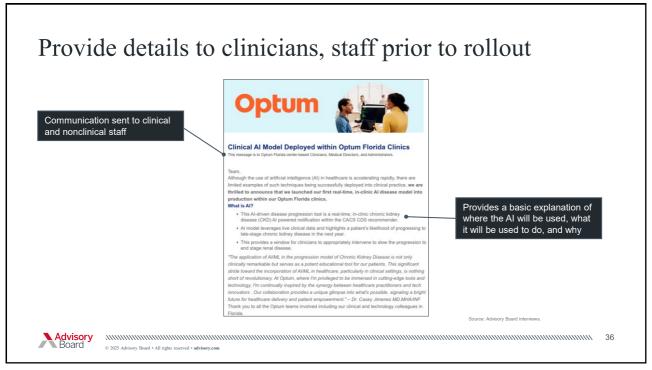
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UX research with clinicians on contributing factors

- · The inability to see how machine learning systems make their decisions is known as the "black box problem"
- · Explainability, the concept that a machine learning model and its output can be explained in a way that makes sense to a human, is critical
- Used SHAP (SHapley Additive exPlanations) to share the details of the risk score drivers for chronic kidney disease



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## Results and future disease models

#### **Timeline**

## 18 months

Development and deployment time

#### Lessons

Process helped lay a strong groundwork to support rapid development and deployment of future predictive models.

#### **Future conditions**



Diabetic foot ulcer



Chronic obstructive pulmonary disease (COPD)



Hypertension

#### Launch feedback

"The application of Al/ML in the progression model of Chronic Kidney Disease is not only clinically remarkable but serves as a potent educational tool for our patients. This significant stride toward the incorporation of Al/ML in healthcare, particularly in clinical settings, is nothing short of revolutionary..."

DR. CASEY JIMENEZ, -MD, MHA/INF
OptumCare Florida





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## Key takeaways from OptumCare Florida

Prioritizing workflow compatibility enhances clinician adoption:
Dedicated efforts make the new tool work effortlessly with doctors'
existing routines, ensure it's user-friendly, and provide just the right information for patient care.

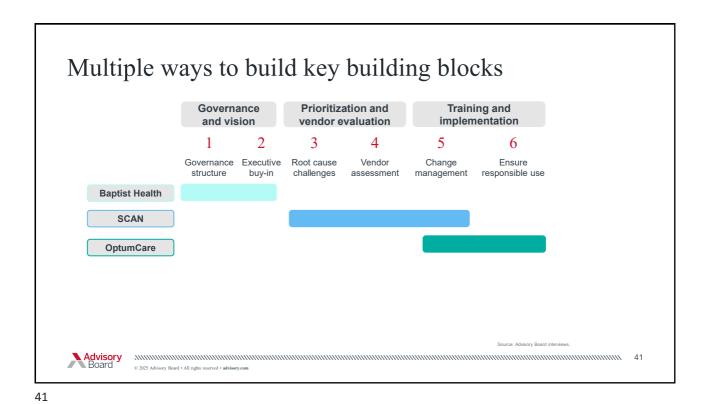
Strategic focus drives better outcomes: Optum was focused on using tech to catch diseases early and act fast, which is crucial for improving health outcomes and reducing healthcare costs.

Scalability and reusability pave the way for future innovation:
Careful planning in creating solutions that can expand and adapt will set the stage for ongoing innovation in healthcare technology.









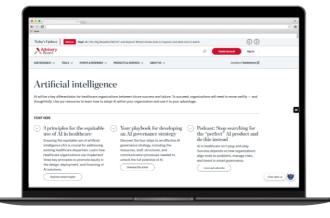
Key takeaways

- A centralized, multidisciplinary governance structure is required to ensure responsible, sustainable, and effective AI investment.
- Be prepared for the significant resource investments that come with evaluating Al solutions for fairness and bias, tuning models to your local population, and continuously monitoring solutions once implemented.
- To identify key investments in a noisy market, conduct prioritization exercises to find highimpact, low-risk AI solutions. Don't forget to consider challenges that you may have previously considered unsolvable.
- 1 Involve end users early and often into AI decisions to ensure correct use of AI solutions and to ensure these solutions fit into existing workflows.

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## Access our full suite of AI research here



Our research library includes resources on:

- 1. Governance resources and case studies
- 2. Educational materials for board members
- 3. Guidance on how to take a problem-first approach to AI investment
- 4. Principles for responsible use
- 5. Radio Advisory podcast episodes

Al resource library



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## Continue the conversation



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Schedule a "Why Al Matters" presentation at your organization.



Leverage our experts by scheduling a phone conversation or submitting a question to AskAdvisory.



Participate in Advisory Board's ongoing research into AI in healthcare. If interested, reach out to Ty Aderhold at aderholM@advisory.com



## 2025 event calendar at-a-glance

#### **ADVISORY BOARD SUMMIT SERIES**

#### Reimagine healthcare: 3 transformation imperatives<sup>1</sup>

Washington, DC April 29-30

Carlsbad, CA May 20-21

Virtual July 15-16 Chicago, IL October 7-8

Nashville, TN November 18--19

December 9-10

Virtual

Preview session

#### Summit topics



- Build the ambulatory network of
- Plan for changing health system investment priorities
- · Break the tension between plans and providers



- · Modernize service line management
- · Pursue an appropriate approach to value-based care
- · Redefine nursing excellence
- · Future-proof key specialties: cardiovascular and oncology

# Embrace digital

- competencies • Put AI to work
- Revolutionize digital consumer experience

#### **ROUNDTABLES**

The future of surgery: Navigating site-ofcare shifts and emerging technologies February 11 | Virtual

The future of specialty care: Spotlight on oncology April 2 | Virtual

Weight loss care models in the age of GLP-1s June 3 | Virtual

Physician leader strategy: Shaping the future of integration and access June 17 | Washington, DC

How to thrive in an evolving nursing landscape

August 18-19 | Washington, DC

How to deliver the next era of VBC October 15-16 | Washington, DC

1. Each summit includes a welcome reception for attendees the evening before the event begins



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