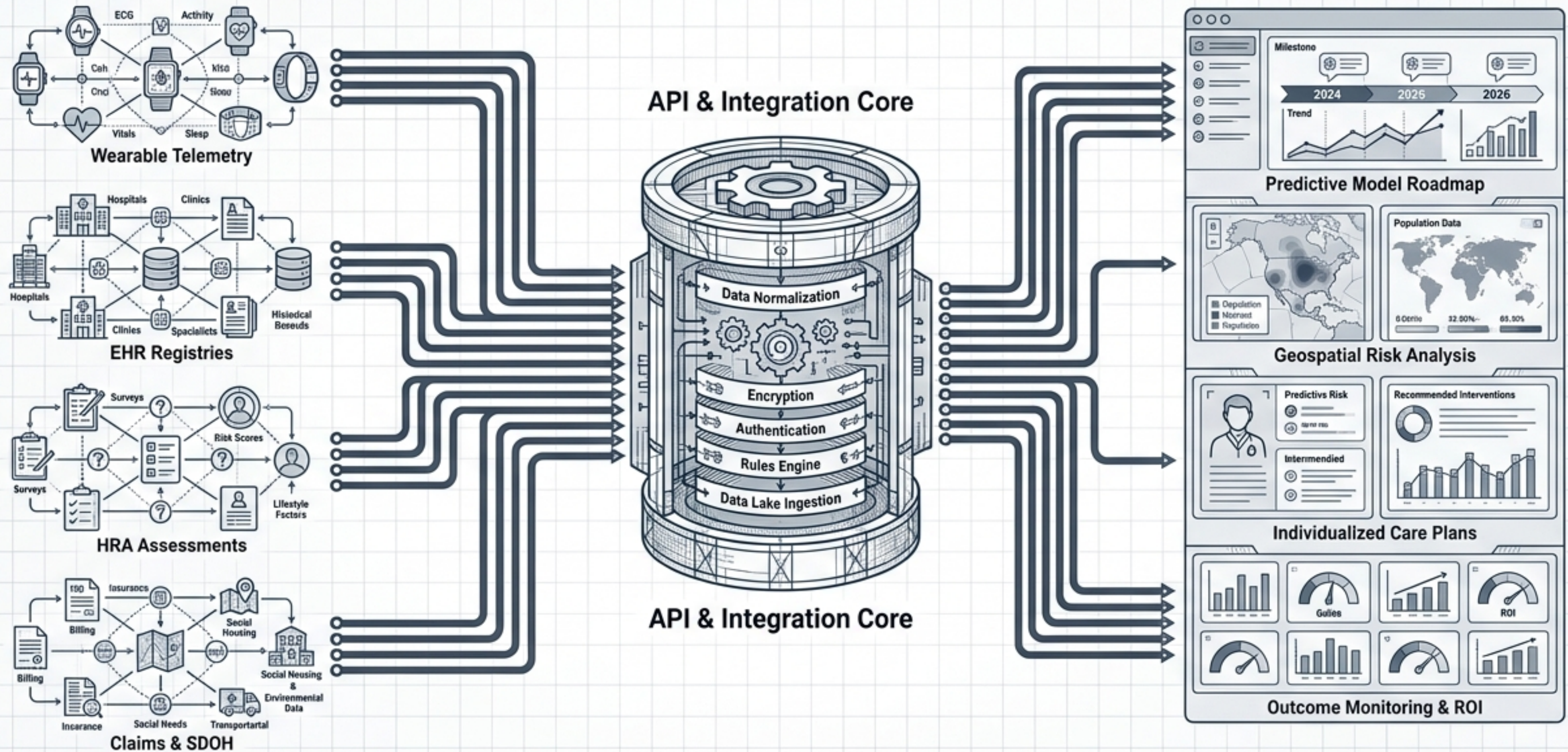


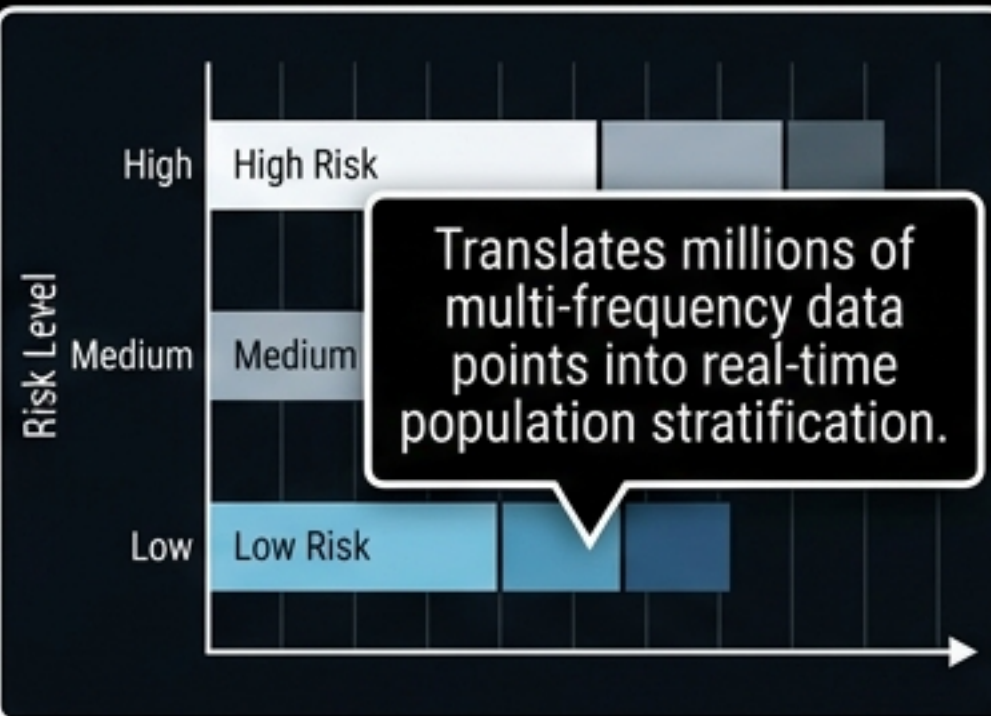
Intelligent Health Management (UC37)

A 3-Year Implementation Blueprint for Predictive Population Health (2024-2026)



TRANSFORMING RAW TELEMETRY INTO ACTIVE INTERVENTIONS

ACTIONABLE POPULATION INSIGHTS



12.5M+
DATA POINTS ANALYZED

PREDICTIVE AI COACHING



Closes care gaps at scale via personalized, generative, and causal AI interventions.

85%
CARE GAP CLOSURE RATE

PROVEN FINANCIAL ROI



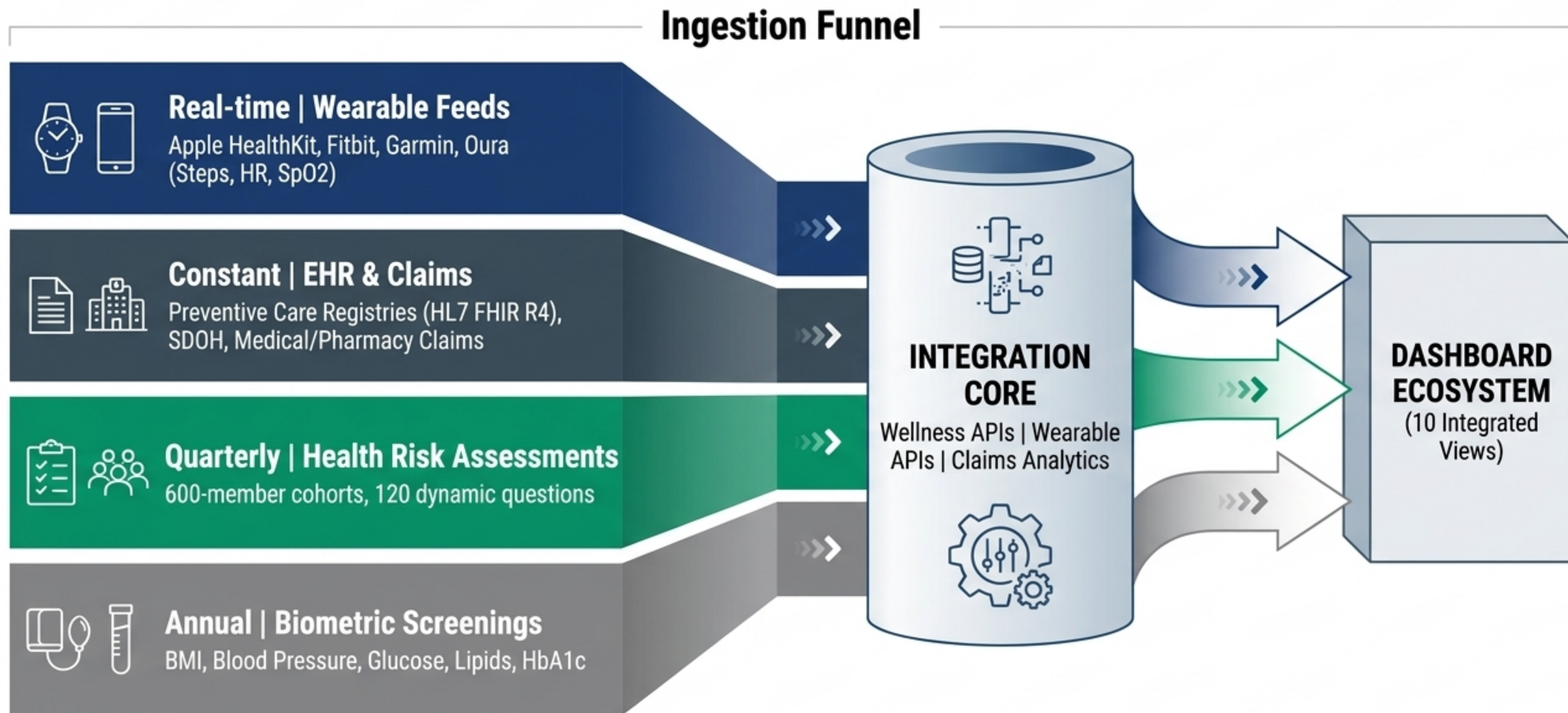
\$250M+
COST AVOIDANCE REALIZED

2024
(Baseline)

2025
(Expansion)

2026
(Value Realization)

THE INGESTION ENGINE SYNTHESIZES MULTI-FREQUENCY HEALTH DATA



Seven Predictive Models Driving Autonomous Interventions

Model Name	Key Inputs	Output Prediction	Auto-Trigger Action
Disengagement Predictor	Velocity, session freq, sleep	>60% dropout probability	Auto re-engagement workflow
Metabolic Syndrome Risk	BMI, glucose, BP, SDOH	>70% 12-month probability	Auto-enroll Diabetes Prevention
Gap Closure Predictor	Screening date, engagement	<30% closure probability	Escalate to Care Navigator
Wearable Anomaly	HR, HRV, SpO2, sleep	>85% confidence anomaly	Immediate Coach Escalation
Mental Health Deterioration	HRA mood, sleep, sentiment	>75% risk trend	Referral to mental wellness
Incentive Optimizer	Program type, sensitivity	Optimal reward timing	Deploy personalized offer
SDOH Barrier Detector	Address, transport, income	Barrier profile severity	Auto-adjust modality

The 10-Tab Dashboard Ecosystem Mapped to User Personas

Executive & Finance

Audience: C-Suite, Benefits Directors

Tab 1: Executive Overview

Tab 6: ROI & Financial

Intervention & Ops

Audience: Program Managers

Tab 3: Program Catalog

Tab 4: Engagement

Tab 10: AI Health Coach

Population & Equity

Audience: Public Health, HR Strategists

Tab 2: Population Risk

Tab 8: SDOH Equity

Clinical & Monitoring

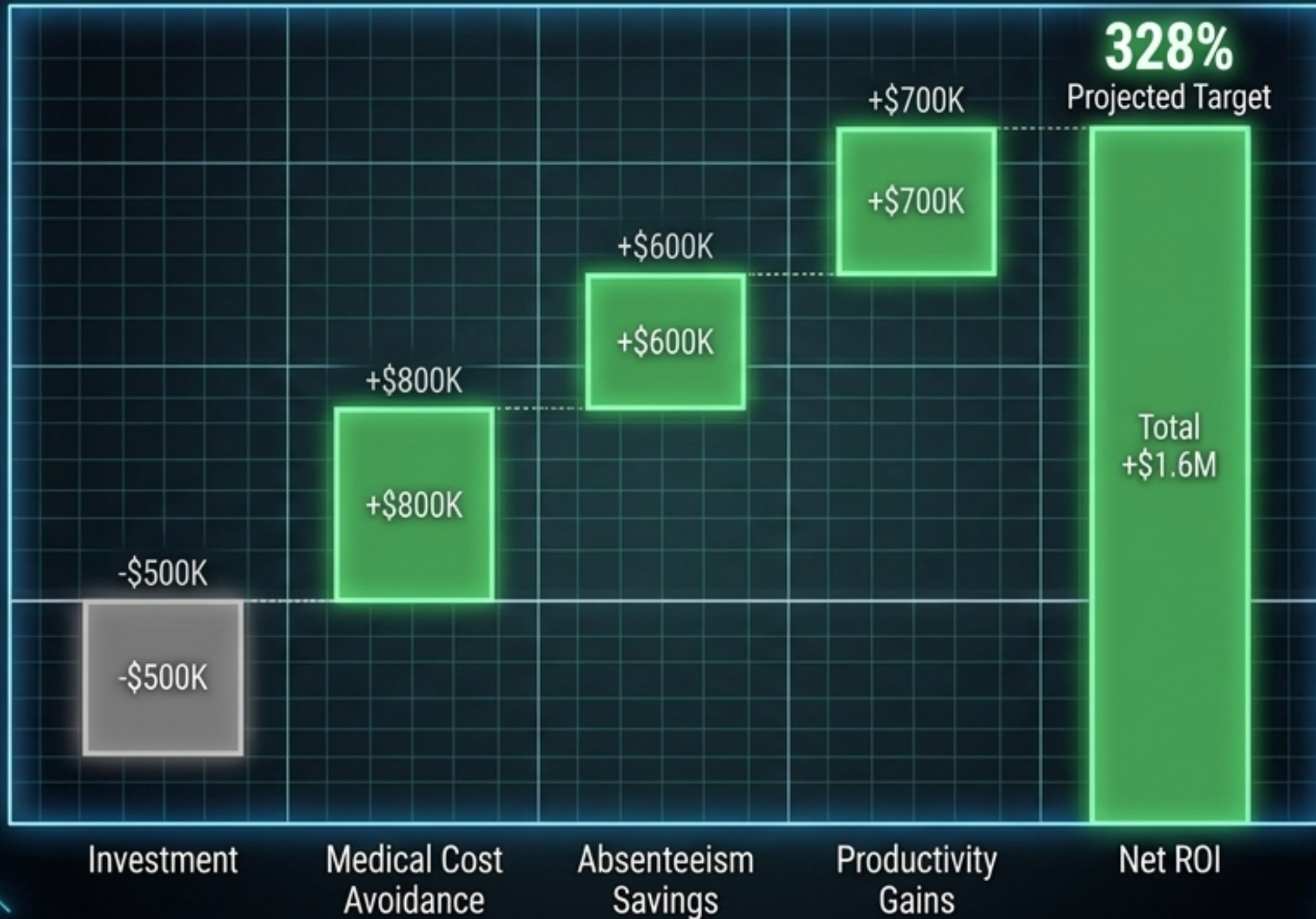
Audience: Clinical Staff, Care Navigators

Tab 5: Outcomes

Tab 7: Care Coordination

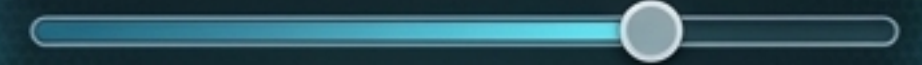
Tab 9: Real-Time Monitoring

Financial Control Validates Business Case and Net ROI



Scenario Simulator

Enrollment Growth 7,800



Medical Trend Mitigation



High

Incentive Budget



Base

Accelerated Value Delivery

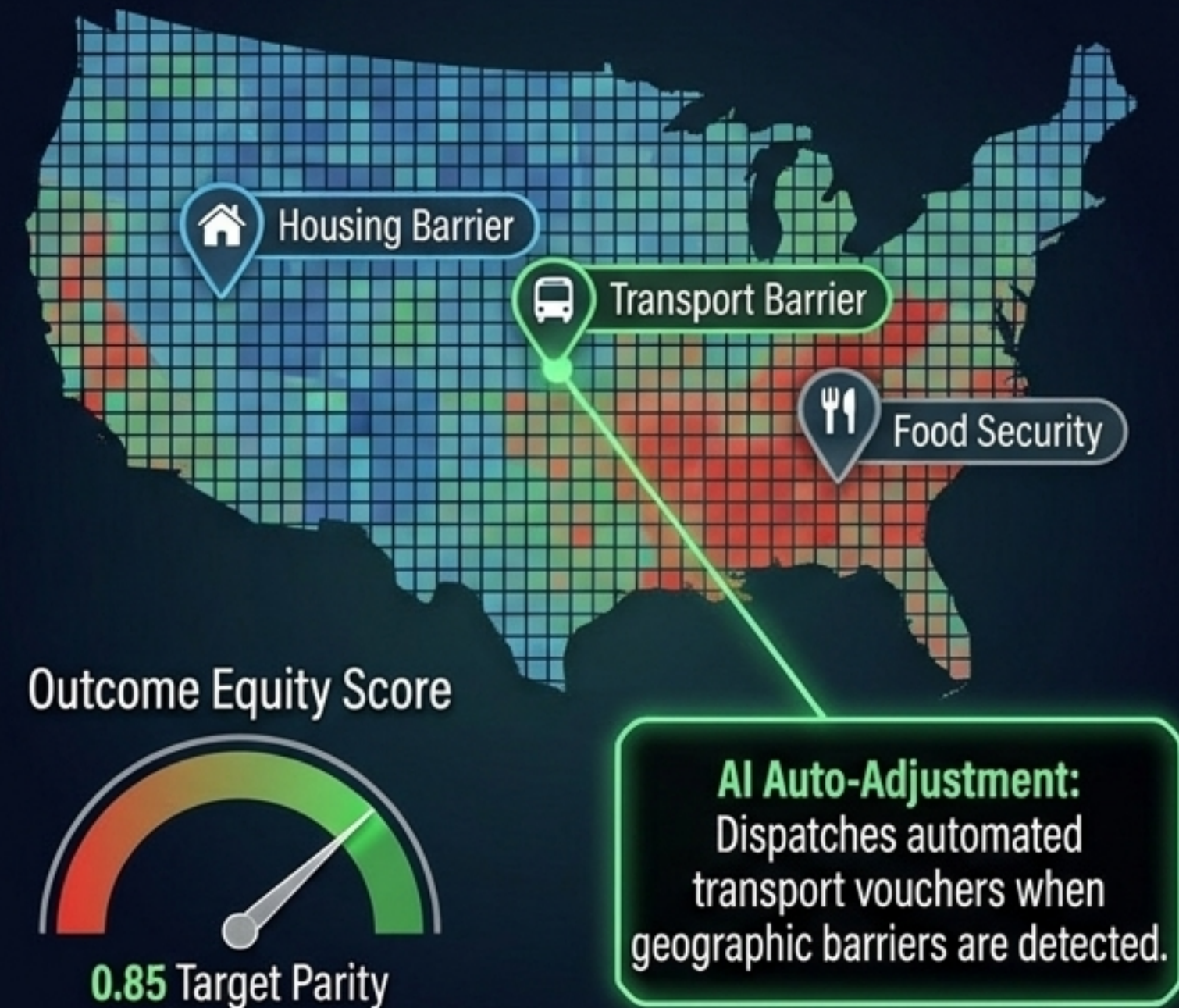
Break-Even Point shifting from 16 months (2024) to 11 months (2026)

Stratifying Clinical Risk Through the Lens of SDOH Equity

Tab 2: Population Risk



Tab 8: SDOH Equity



Predicting and Preempting Program Disengagement

Week 1:
Active

Engagement Funnel



Week 3

Week 6

**The
Disengagement
Cliff**

Mobile App (38%)

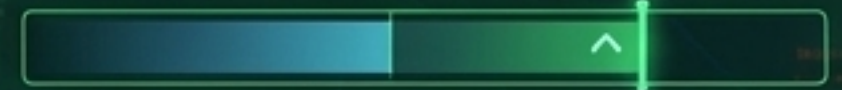
Web Portal (18%)

SMS/Text (14%)

Sustained Retention

Re-Engagement Success Target

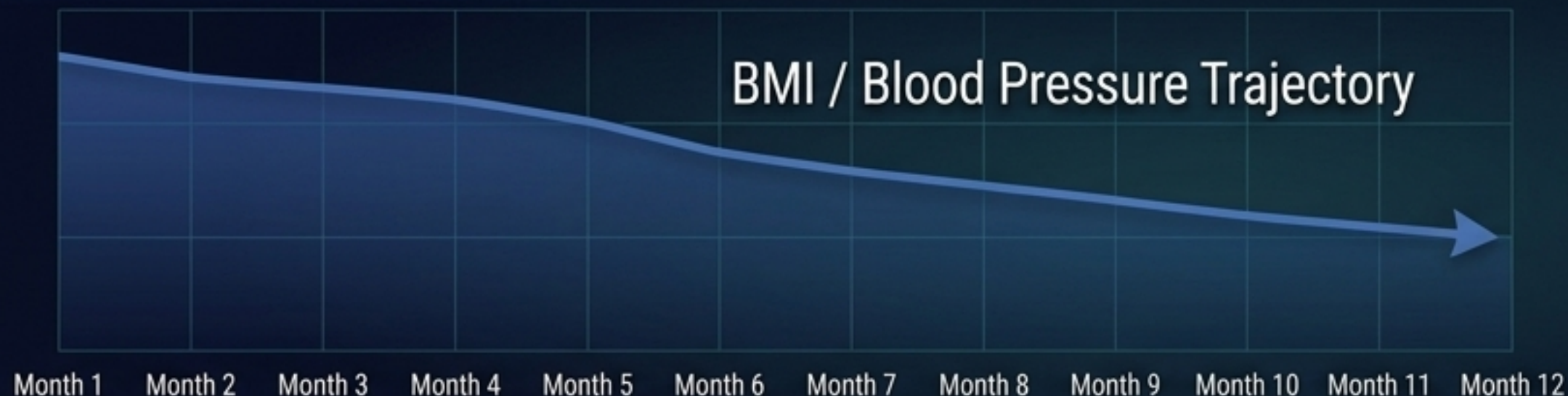
Current: 45% → Target: >75%



From Long-Term Trajectories to Real-Time Triage

Long-Term Trajectory

12-Month Biometric Optimization & Care Coordination



Preventive Care Gap Closure

67.6% Baseline

>95% Target

24-Hour Live Triage

Real-Time Wearable Anomaly Detection



ANOMALY: >85% Confidence Interval
Tachycardia Pattern Detected



**Immediate Escalation to
Human Clinical Coach**

**Target Response Time:
<10 Minutes**

The Generative AI Health Coach Capabilities



The Macro-to-Micro UX Drill-Down Flow



HIPAA-Aligned Privacy and Governance Firewall

Clinical Staff & Navigators

Data Level: Individual
Health Data (PHI)



Full access to longitudinal patient records, wearable telemetry, and AI intervention logs. Backed by strict 7-year audit logging.

Program Managers (UC37)

Data Level: Cohort Analytics
(De-Identified)



Access restricted to aggregated cohort data to configure AI triggers, optimize program retention, and assess engagement channels.

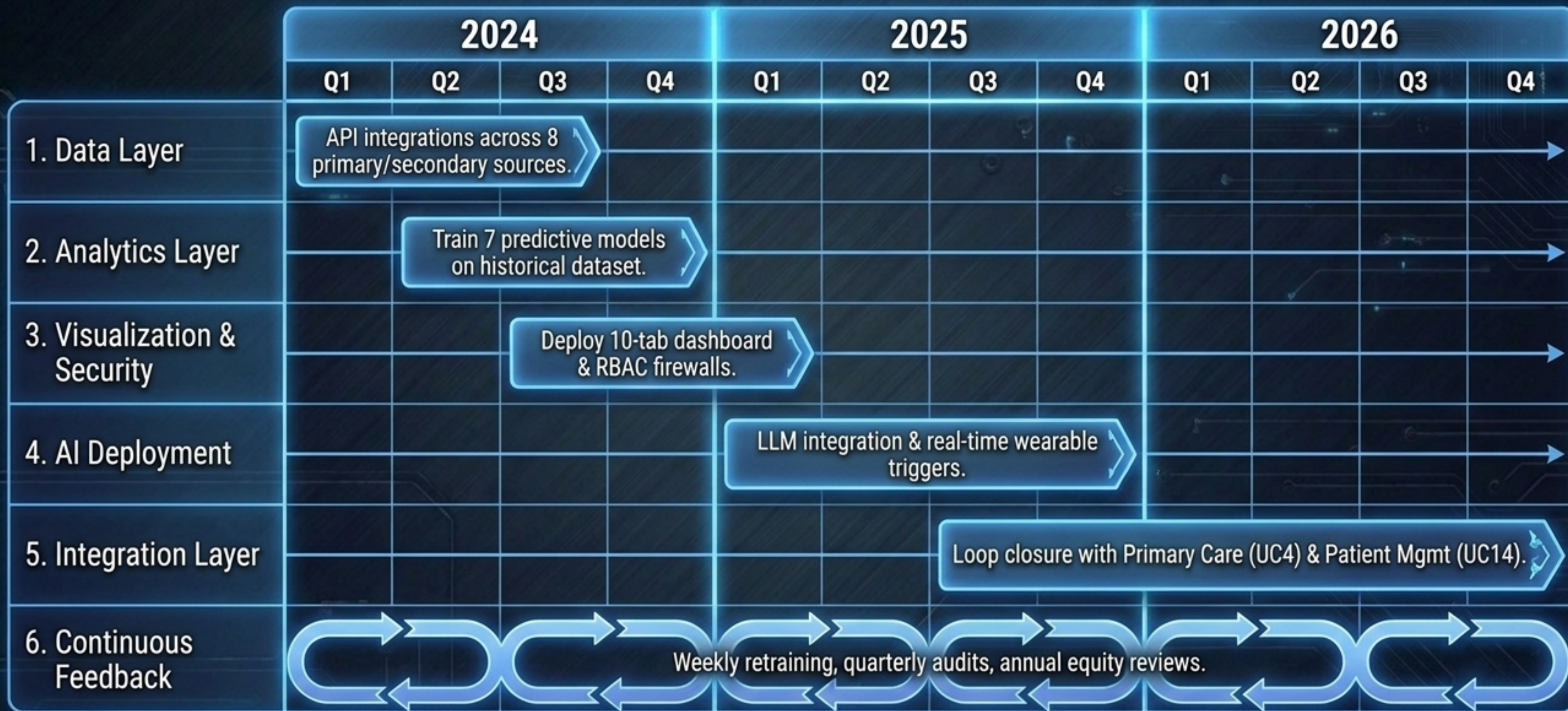
Benefits Directors & HR

Data Level: Aggregate
Financial ROI



Severely Firewalled. Visibility strictly limited to macro-level program ROI, absenteeism savings, and overall utilization. Categorically restricted from viewing individual PHI.

The 3-Year Implementation Blueprint



Value Realization & 2026 Success Targets

Metric	Baseline (2024)	Target (2026)
Population Enrolled	4,200	7,800
Program Completion Rate	47.7%	>55%
Care Gap Closure	67.6%	>95%
Cost Per Participant	\$420	\$384
Financial Break-Even	16 months	<12 months
Program Net ROI	193%	>320%

The Business Case: Scaling human clinical empathy through state-of-the-art predictive infrastructure lowers per-capita costs while dramatically accelerating financial returns.

Blending Human Empathy with AI Scale



The Intelligent Health Management architecture is not a passive reporting tool. It is an active intervention ecosystem designed to transform raw telemetry into measurable clinical and financial value.

[Initiate Architecture Review](#)