

# Technology DD

April 2025

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**DRAFT**

**BAIN & COMPANY** 

## A G E N D A

### US

Target Ecosystem

Product Strategy & Roadmap



















Tech & Architecture

Organizational Processes and Governance

# Target is currently working on features that may support sales growth; Target-GTA to offer opportunity to decouple from physical infrastructure

## TECHNOLOGY IMPLICATIONS

/ PRELIMINARY

	Value creation initiatives	Technology Importance	Technology Readiness	Rationale
Target	 Continue to differentiate within the indoor practice facility segment with its unique value proposition geared towards 'serious golfers'			Target <b>currently offers tech-enabled ball &amp; body motion stat tracking</b> at training centres. Short term roadmap focused on core e.g., club sales, more course play options, flexible subscription plans
	 Improve store economics by increasing bay utilization and improving conversion rates		 	Launches <b>to enable coach-less practice</b> in bays will improve bay utilization rates <b>Coach the coach</b> – Coach utilization is key to store performance. Roadmap focuses on AI-coach for students but could be extended to 'coach the coach' with AI (not budgeted)
	 Expansion of store network and maximizing cash-flow from its sub-FC stores		n/a	Minimal impact
Target-ST	 Increase Target-ST revenue per customer from cross sales of other products such as studios			Launch of <b>solution to cater to affordable customer segment and for high-income consumers</b> Integration of Target-OM with Target-ST @Home would provide <b>insights to support cross-selling</b> (e.g. lessons, clubs).
	 Channel Mix optimization with increased DTC and improved terms with 3 <sup>rd</sup> party resellers			<b>eCommerce platform the DTC channel is already up and running</b> based on leading tech provider Shopify.
Target-GTA app	 Access a larger pool of high-income customers via strong differentiation using the Target Anywhere solution and highly regarded coaching programme			Target-GTA app offers <b>strong technology differentiation opportunity</b> combining proprietary technologies to provide stat analysis and AI-enabled coaching to customers. Development is underway and planned to end in 2026

Source: Company website; Literature search; Bain analysis

## A G E N D A

US

### **Target Ecosystem**

Product Strategy & Roadmap

Tech & Architecture

Organizational Processes and Governance

## A G E N D A

US

Target Ecosystem

**Product Strategy & Roadmap**

Tech & Architecture

Organizational Processes and Governance

# Target ecosystem to provide AI powered coaching and practice simulations for improved golfing experience, designed for at-home and on-the-range practice

## TARGET ECOSYSTEM

/ PRELIMINARY

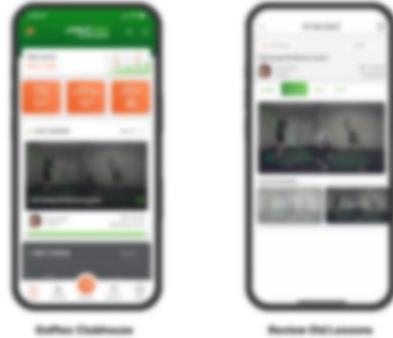


Training Center

A

### Training center-based Golf improvement solution with innovative instruction informed by proprietary tech

Operates 240+ locations, offering coaching and personalized club fitting using professional trainers and advanced technology. Offerings to enable coach-less training & practice in-bays

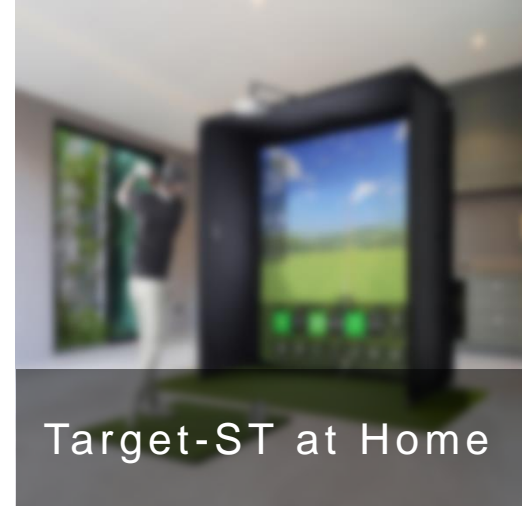


Target Mobile App

B

### Customer companion Application for golfers and training center students

A comprehensive app offering lesson booking and tracking, in-app swing recording, performance insights, on-course GPS, and bag mapping along with access to training aids, apparel, and golf accessories



Target-ST at Home

C

### Consumer home golf simulator and launch monitor solution

Focuses on golf simulators and launch monitors providing real-time ball data, virtual play, and performance tracking, integrated with the Target-ST app for visual feedback and game analysis



Target-GTA standalone App

D

### Consumer home golf simulator and launch monitor solution

Prescriptive golf instruction app powered by Target-OM AI and backed by 20M+ lessons offering a tiered experience from free video guidance to advanced paid plans, it will enable real-time, coach-less feedback for casual golfers

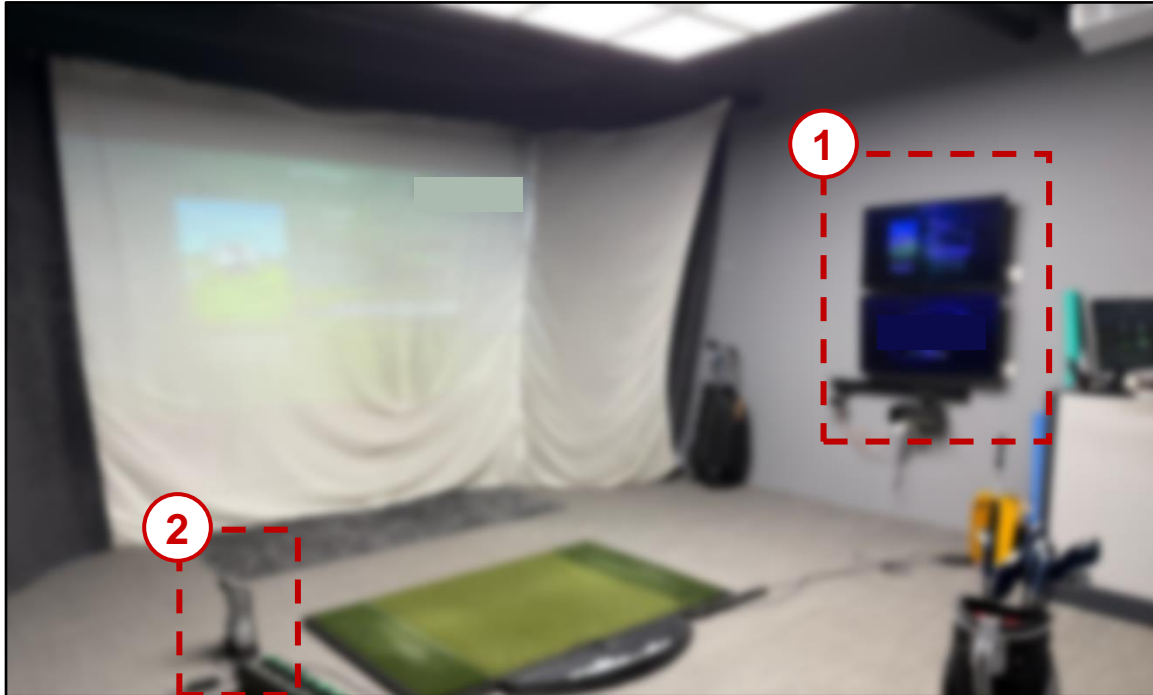
Source: Company information; Literature search; Bain analysis

# A Target training centers are fully equipped with HD cameras, commercial grade launch monitors and integrated proprietary software for data-driven coaching (1/2)

TRAINING CENTER

DEEP DIVE

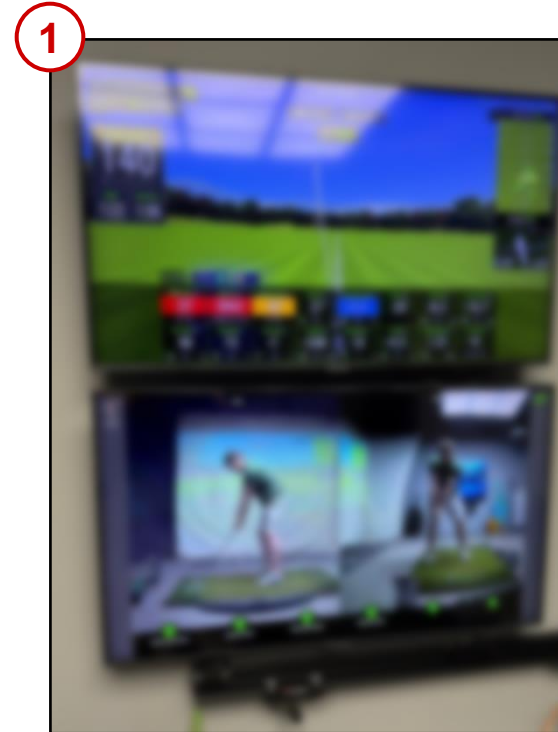
/ PRELIMINARY



## Fully equipped bays

- HD cameras for **Target-OM analysis**
- **Commercial grade launch monitors** for ball and club tracking data
- Integrated **Proprietary SW 1 and Target-ST** analysis system
- Displays for **real-time feedback** of shot and swing analysis
- Controlled environment for **focused practice** across 250+ locations

Source: Company information; Literature search; Bain analysis



## Real-time stat display

- **Target-ST simulation display** with carry distance, club speed and other key stats
- **Color-coded stats** highlights areas of improvement
- **Video feedback**



## Launch monitor data

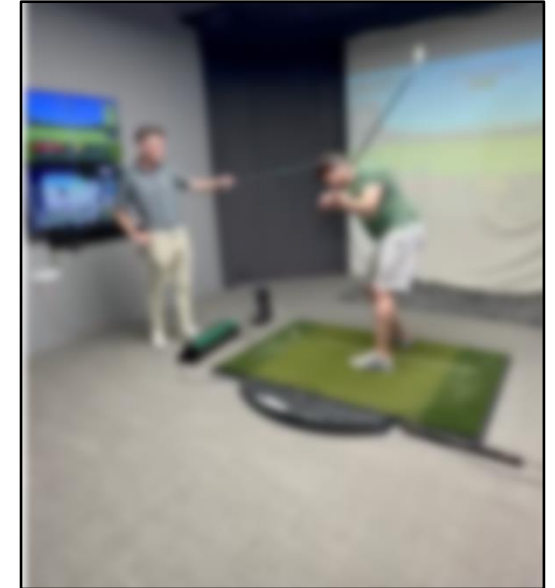
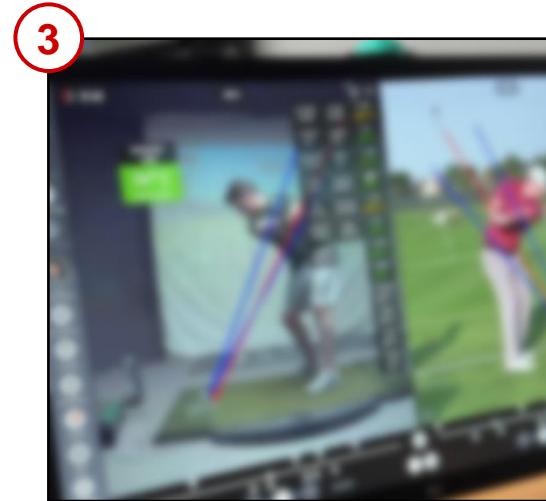
- **Dual Doppler radar system** records ball and club impact data for processing
- Launch angle, spin and speed capture for **accurate sims**
- **Tour-level data capture**

# A Target training centers are fully equipped with HD cameras, commercial grade launch monitors and integrated proprietary software for data-driven coaching (2/2)

TRAINING CENTER

DEEP DIVE

/ PRELIMINARY



## Fully equipped bays

- HD cameras for **Target-OM analysis**
- **Commercial grade launch monitors** for ball and club tracking data
- Integrated **Proprietary SW 1 and Target-ST** analysis system
- Displays for **real-time feedback** of shot and swing analysis
- Controlled environment for **focused practice** across 250+ locations

Source: Company information; Literature search; Bain analysis

## In-depth analysis

- **Monitoring key skeletal points** via Target-OM
- Option to **highlight focus datapoint** for targeted practice
- Statistics comparison with **swings from PGA Tour players**

## Coach-led training and practice

- **Data-driven feedback** and training plans
- **Coach-assisted practice**
- **900+ coaches** across locations



# Target App offers comprehensive lesson management, play analysis, and advanced simulator technology with superior analytics compared to competitors

PRODUCT STRATEGY

FEATURE-SET COMPARISON

/ PRELIMINARY

Features		Target	Competitors			
Login / Account	3rd party integration for logins (Gmail, Facebook etc.)	Only email sign-in available	●	●	●	●
	Gift card / referral program	●	●	●	●	●
	Customer loyalty / points	●	●	●	●	●
Golf Lesson management	Golf lesson reservation	●	●	●	●	●
	View scheduled lessons on calendar	●	●	●	Limited info	
	Review past lessons	Video analysis of training and online video lessons	●	Limited info	Limited info	Limited info
	View lesson videos	●	●	●	Limited info	
	Lesson plan customization	●	●	●	●	●
	Flexible payment options	Limited info on flexible payment options. Card payment available	●	●	●	●
			●	●	●	●
Analysis	Video analysis	●	●	●	●	●
	Swing analysis	●	●	●	●	●
	Club fitting analysis	●	●	●	●	●
	Review coach analysis	●	●	●	●	●
Simulator tech	In-house developed software	●	Limited info	●	Limited info	
	Swing analysis	●	●	●	●	●
	AI implementation	AI used for swing analysis	●	●	●	●
	View shot data	●	●	●	●	●
	Score management	●	Limited info	●	Limited info	

# **A** Target-ST SW supports both Training Center and At home experience with high **C** precision simulations and 3<sup>rd</sup>-party integrations for a seamless virtual play platform

## KEY FEATURES

## TARGET-ST DEEP DIVE

/ PRELIMINARY

### Launch monitor hardware roadmap

Currently used in bays



- **Original Target-ST launch monitor** provided ball data only - now being phased out



- **Target-ST +**, incorporates a **dual Doppler radar system** for improved ball and club data, **integrates with Target-ST SW and Target-GTA App**



- **LM2** is commercial-grade launch monitor offering tour-level data, integrates with **Target-ST SW and Target bays**

To be launched



- **LM3** will be a Target-owned, **ball-data-only launch monitor**, designed in-house as a replacement for ST OG, with a **Q2 2026 launch**



- **Next Gen LM** will be a standalone **indoor/outdoor launch monitor with display**, offering tour-caliber data. For launch in **Q2 2026**



- **Phone-Based LM**, Target-owned, will offer **basic ball tracking** for simulation, support **indoor/outdoor use**, included with the **Target-GTA subscription**. For launch in **2026**

Launch monitors supported by extensive backend software, integrations and virtual plays

### Launch monitor software

#### Simulator Engine



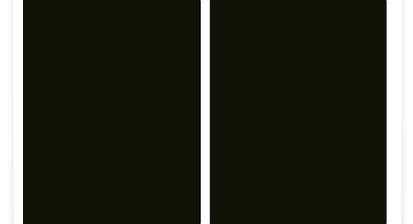
- Software utilizes **photometric ball-tracking system** via launch monitors and **Unity simulation engine** for shot simulation, skill assessment, and practice randomizer for variations; **Target-ST +** launch monitors applies **ML algorithms for high-precision data mapping**

#### Course Play



- Released version 5.0 (Jun'24) is **powered through a partnership with Tman** and provides virtual access to over 30 real world golf courses

#### 3rd party compatibility



- Target-ST launch monitors are **compatible with 3<sup>rd</sup>-party simulation software** to offer users additional game modes and courses

# Target-ST App provides a more comprehensive after-sales program, with opportunities to further enhance sales support

PRODUCT STRATEGY

FEATURE-SET COMPARISON

Legend: ● Exist ● Partial ● Not available

Features		Target	Competitors		
Login / Account	3 <sup>rd</sup> party integration for logins ( <i>Gmail, Facebook etc.</i> )	<span>●</span>	<span>●</span>	<span>●</span>	<span>●</span>
	Guest login	<span>●</span>	<span>●</span>	<span>●</span>	<span>●</span>
Product features	Ball data tracking	<span>●</span>	<span>●</span>	<span>●</span>	<span>●</span>
	Real-time shoot analysis	<span>●</span>	<span>●</span>	<span>●</span>	<span>●</span>
	Customizable practice drill	<span>●</span>	<span>●</span>	<span>●</span>	<span>●</span>
	Statical data tracking	<span>●</span>	<span>●</span>	<span>●</span>	<span>●</span>

Email sign-in only

Note: Analysis for players basis app and product features as listed on website  
Source: Company apps/ website, Literature search

# Target-ST App excels across most UI/UX parameters with scope to incorporate marginal improvements on navigation, trustworthiness, and proactivity

Design Principle	Metric	Description	Target	Competitors			Commentary
<b>FUNCTIONAL</b>  Is the digital experience accessible and useful to the users?	<b>Efficient Performance</b>	Asset loads quickly and efficiently without any errors	●	●	●	●	• <b>Efficient Performance:</b> Load time and search result display similar to peers
	<b>Integrated Experience</b>	Consistent UX across the asset with seamless 3 <sup>rd</sup> party integration (if any)	●	●	●	●	• <b>Integrated Experience:</b> Limited third-party login integrations (e.g., Google, FB, etc.) across players, however, offers comprehensive payment integrations (e.g., Paypal, ShopPay, etc.)
	<b>Accessible</b>	Content is easy to read with clear visibility and ease of operation	●	●	●	●	• <b>Trustworthy:</b> Detailed product info, return policies and customer reviews. However, review filtering option difficult to navigate, reducing credibility
	<b>Trustworthy</b>	Conveys value proposition/messaging with transparency and reinforced credibility	●	●	●	●	
<b>USABLE</b>  Can users efficiently accomplish their goals and complete tasks?	<b>Navigation</b>	Logically grouped content with ways to help find and move in-between desired content	●	●	●	●	• <b>Navigation:</b> While Target-ST provides multiple dropdowns on the shop page, the filtering options are limited, which may require users to spend more time browsing
	<b>Presentation</b>	Layout is consistent, enhances content and visually appeals to the audience	●	●	●	●	• <b>Presentation:</b> The layout is visually appealing and maintains consistency, enhancing content presentation and user experience
	<b>Content / Information</b>	Content is easy to digest, engaging, relevant and believable	●	●	●	●	• <b>Content / Information:</b> The content is well-structured and provides relevant product information on each specific product page
	<b>Interaction</b>	Intuitive interactions and UI elements allowing users to operate through recognition	●	●	●	●	• <b>Interaction:</b> The UI elements are intuitive, with many animated elements like interactive images, ChatBot, and videos
	<b>Task Flow</b>	Logical grouping and sequencing of tasks with minimal steps and clear progress markers	●	●	●	●	• <b>Task Flow:</b> Offers a streamlined checkout process where users can continue browsing without unnecessary redirections
<b>DELIGHTFUL</b>  Does the experience create delight by exceeding users' expectations?	<b>Brand Language</b>	UI/Visual and communication is aligned to brand personality	●	●	●	●	• <b>Brand language:</b> Consistent UI/Visual implementation with branding
	<b>Proactivity</b>	Provide timely and relevant communications, engagement, support and security	●	●	●	●	• <b>Proactivity:</b> The review section displays small sized images vs competitors, reducing social proof. Coupon eligibility could be communicated more prominently across players
	<b>Personalization</b>	Asset recognizes the user to provide tailored experience, with flexibility for further customizations	●	●	●	●	• <b>Personalization:</b> Limited evidence of personalization, basic filtering options available

# Target App offers golf lessons and coaching, while Target-ST offers tracking devices and simulation software - all powered by proprietary technology

Target Target-GT

ST Target-ST , Target-ST Lite

Target-ST Lite is the legacy version of the app maintained for older devices and operating systems that cannot run the latest Target-ST software

Features/  
Functions



Golf coaching


- Target provides **in-center coaching** with professional instructors, using **Target-OM** technology for detailed swing analysis
- Target-GT+ is a **premium digital subscription** offering on-demand swing analysis, an exclusive video library, and personalized training programs.
- Members get **advanced performance tracking**, cloud storage for swing videos, and **discounts on club fittings**
- Practice+ is an **AI-driven practice mode** that offers real-time feedback, structured drills, and guided training sessions

Golf simulator


- Target-ST is the official companion software for the **Target-ST launch** monitor – a popular at-home golf simulator system
- Provides a **full suite of practice and game-improvement features**, pairing with the hardware to display shot data, run challenges, and even simulate rounds of golf
- Integrates with Target** for AI-driven practice modes, structured drills, and enhanced coaching insights


Ratings  
(out of 5)



 3.9 (245 reviews)

 4.0 (660 reviews)

 2.2 (172 reviews)


 2.8 (265 reviews)

Ratings primarily reflect Target-ST Lite; Limited reviews available for the Target-ST app

Downloads



 50K+

 Target-ST : 1K+, Target-ST Lite: 10K+

Competitors



Competitors

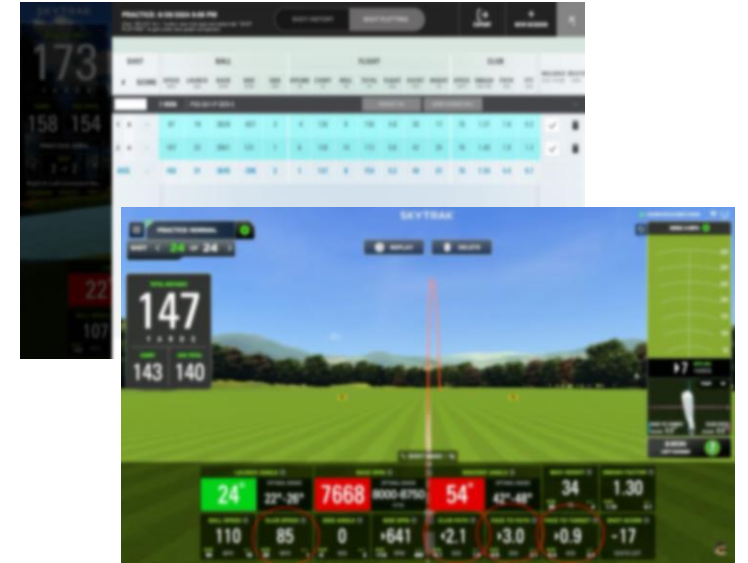
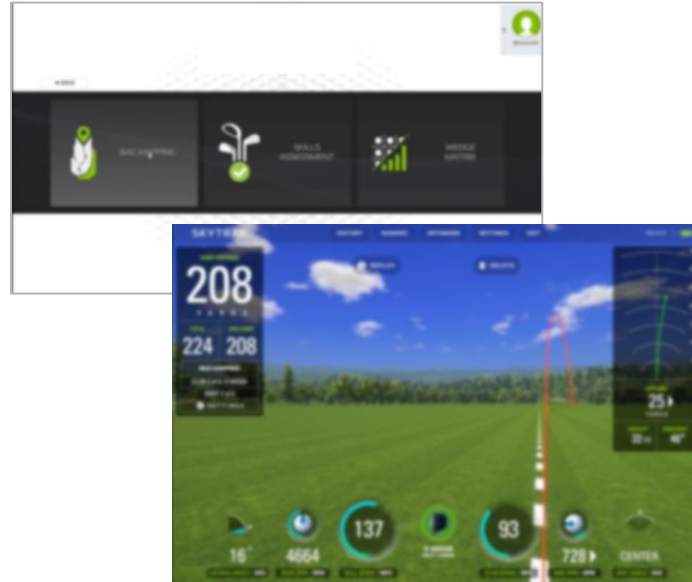
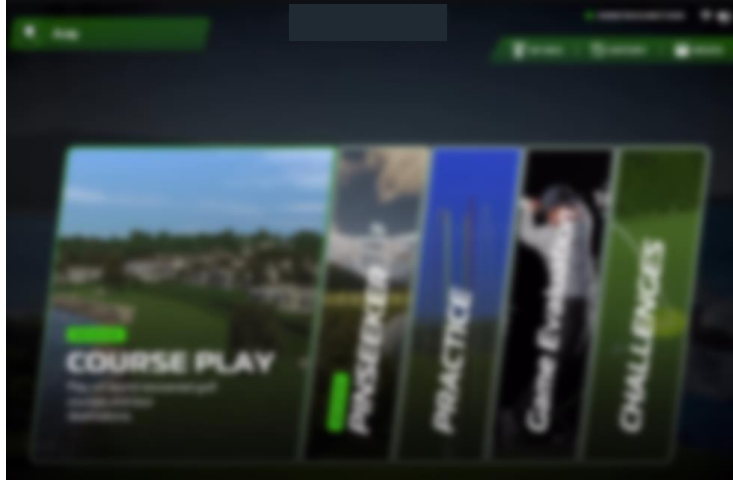
Note: Download numbers from Google Play as of March 2025  
Source: Company information; Literature search; Bain analysis

# Target-ST App provides a graphic-rich interface for Target-ST launch monitors, enabling multiple gameplay modes and detailed performance tracking

TARGET-ST APP

DEEP DIVE

/ PRELIMINARY



## Supports diverse gameplay graphics

- Target-ST offers a mix of **realistic course play, live competitions, practice modules and casual challenges** through third-party integrations and in-app modes
- From focused practice to contests, every mode is built around **real shot data** for an immersive experience

## Game evaluation tools

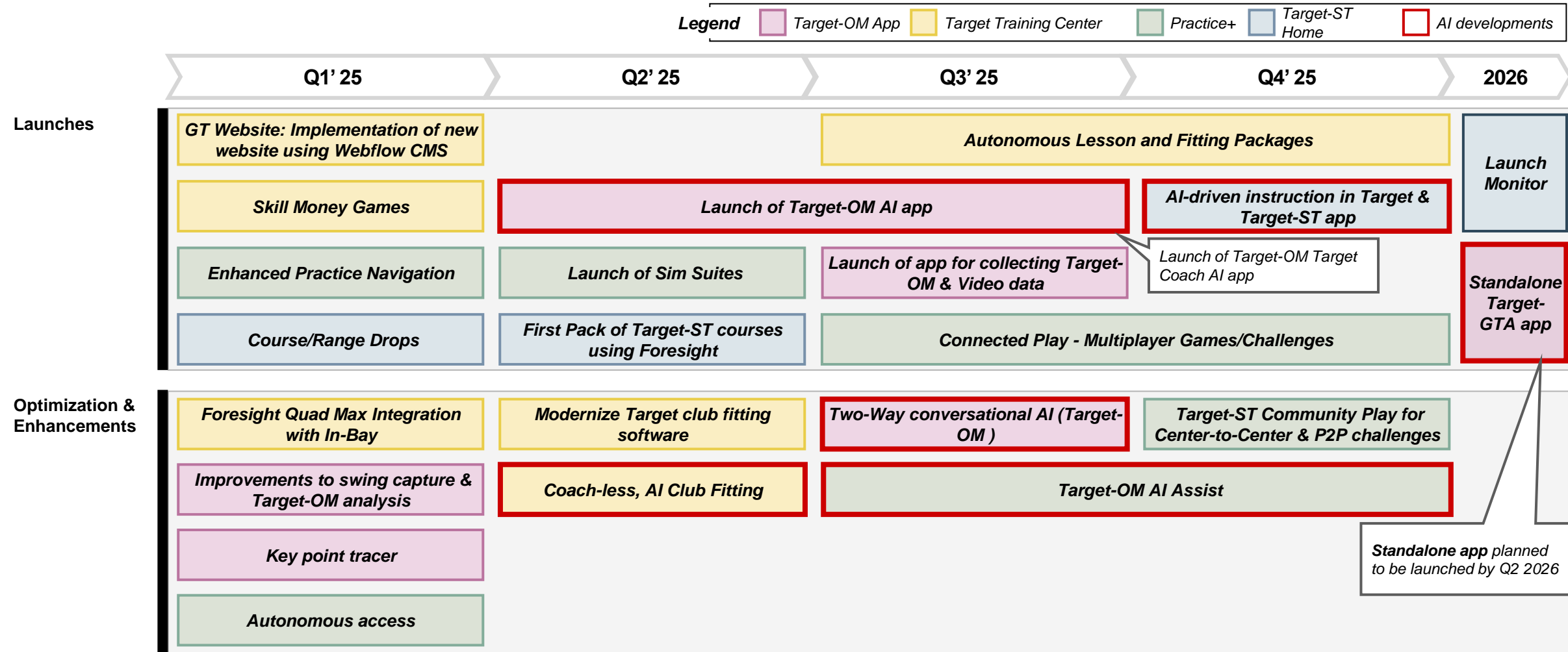
- Target-ST offers advanced tools like **skills assessments, wedge matrix, and bag mapping** to analyze strengths, identify gaps, and structure focused practice. These features help golfers track progress and fine-tune performance across all clubs in the bag

## Displays metrics & analysis

- Target-ST **records detailed shot-level metrics** like speed, launch angle, spin, and distance for accurate, real-time feedback
- **Session summaries with club-by-club analysis** are stored in the cloud (with subscription), to track progress over time



# Target and Target-ST have planned launches in 2025 with a focus on AI-driven enhancements to increase functionality for standalone app by Q2 2026



## A G E N D A



US

Target Ecosystem

Product Strategy & Roadmap

**Tech & Architecture**

Organizational Processes and Governance

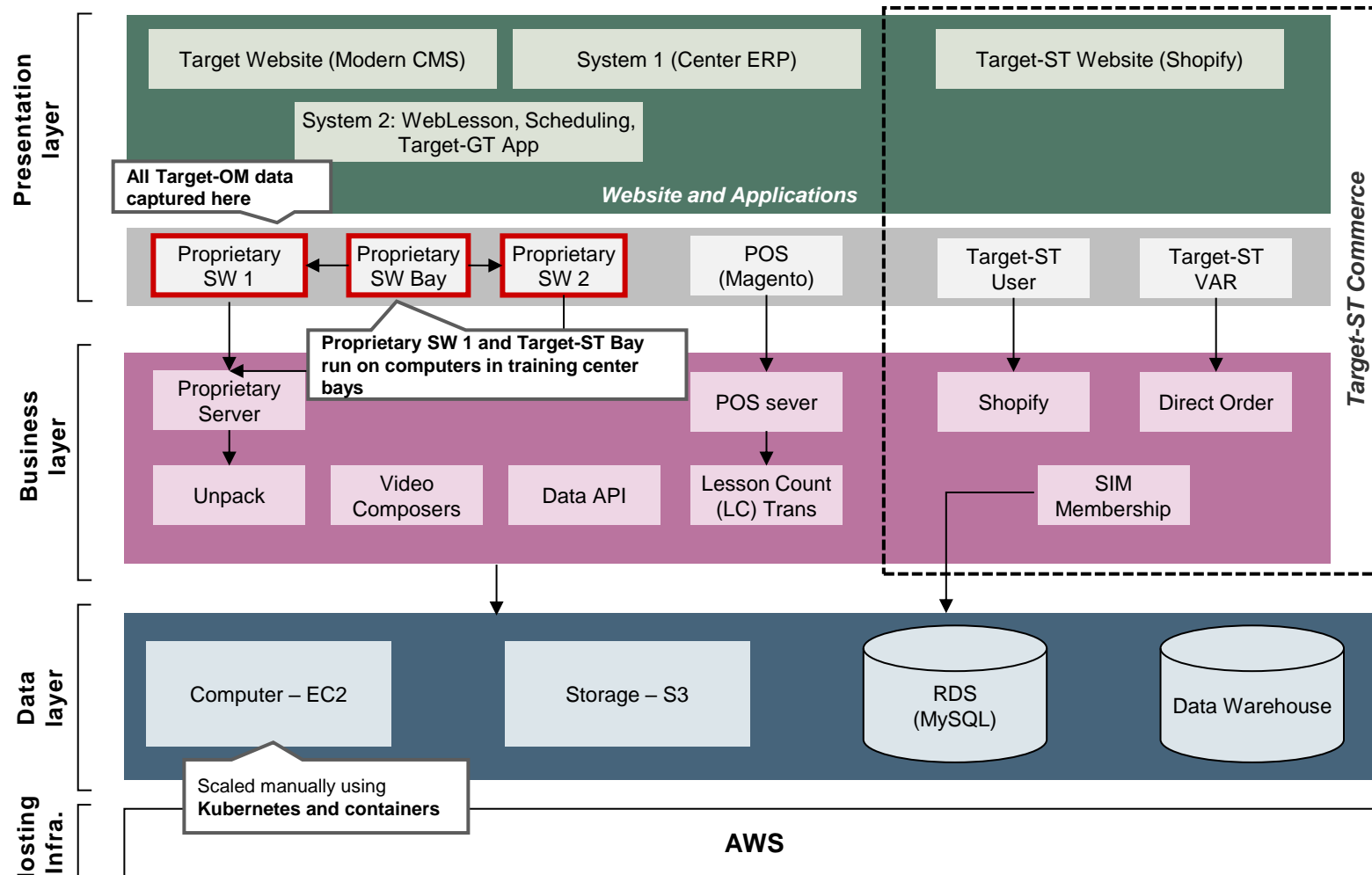


# The system architecture is modular and scalable, balancing local processing at training centers with AWS cloud storage and data management (1/2)

## TECHNOLOGY PLATFORM

/ PRELIMINARY

### Target + Target-ST system architecture



### Commentary

- Target Network is a **cloud-based and scalable architecture** integrating lesson processing, business operations, and e-commerce
  - AWS (EC2, S3, RDS, Data Warehouse)** is used for computation, storage, and database management
  - Ensures real-time processing at centers while enabling centralized data management via AWS
- Proprietary SW Bay** captures video, body motion, and club path data in real-time
  - Data is **processed locally** to provide instant feedback however minimal local data is stored - **just enough to reference past lessons**
  - Once lessons are completed, they are **uploaded to AWS**, where **Data APIs** handle video compression, lesson storage, and retrieval
- Center ERP** is the core operational system across all centers
  - Built inhouse using **PHP & MySQL for the back end** and **JavaScript & React for the front end**
  - Manages scheduling, coach dashboard, and availability
- LCTrans** integrates with the **Magento POS** to track lessons purchased and used. Magento POS is **used for in-center sales**, and **Square ensures PCI-compliant payments**
- Security is reinforced with **2FA, VPN, firewall, and Sophos Endpoint Protection** to safeguard data.
- Target-ST Commerce (Shopify-based)** operates separately for SIM memberships and product sales, and integrates via REST APIs

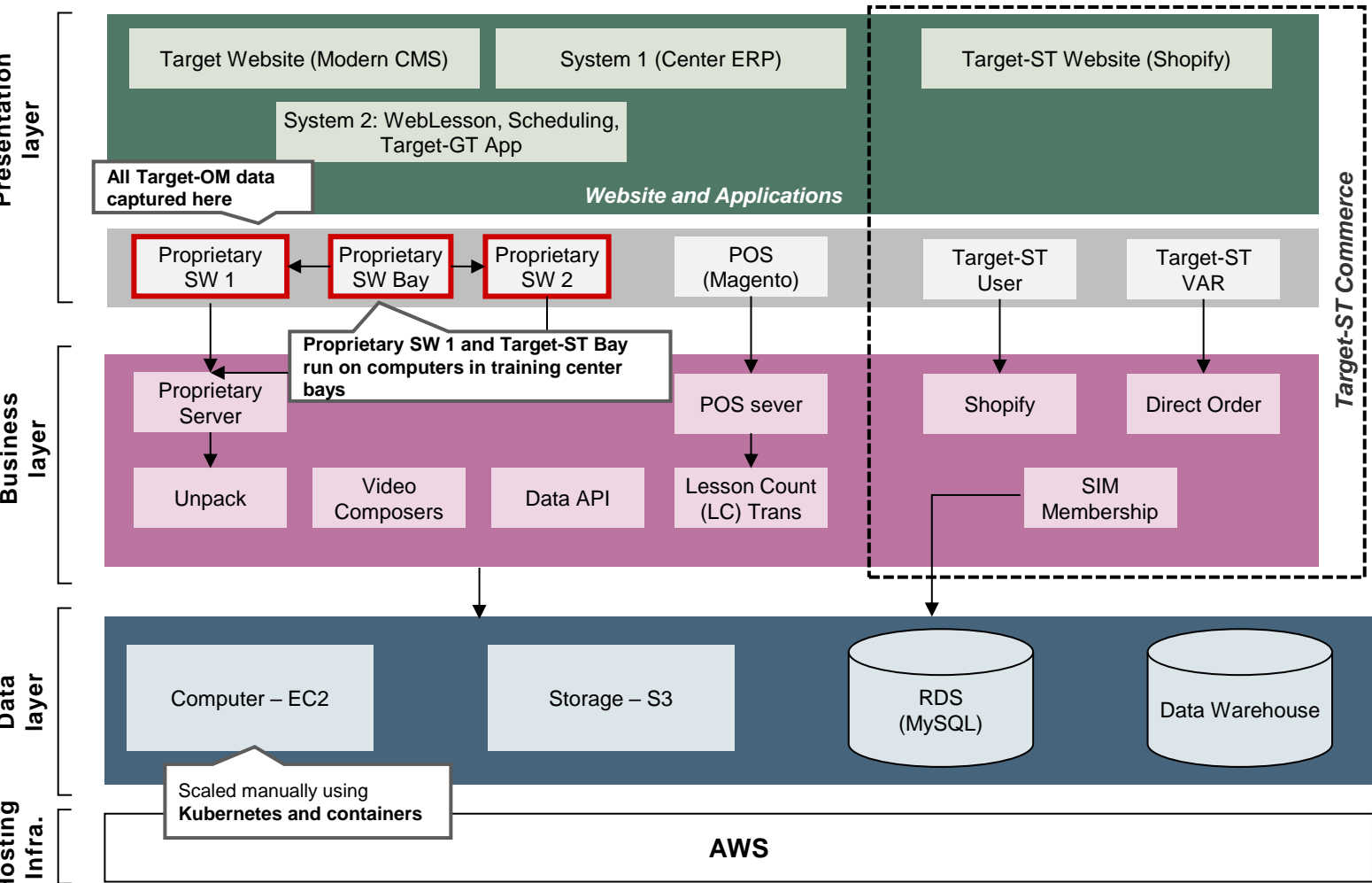
Note: Sim is Simulations; VAR – Value Add Reseller; LCTrans is Lesson Count Transaction; RDS is Relational Database Service | Source: Company information; Literature search; Bain analysis

# The system architecture is modular and scalable, balancing local processing at training centers with AWS cloud storage and data management (2/2)

## TECHNOLOGY PLATFORM

/ PRELIMINARY

### Target + Target-ST system architecture



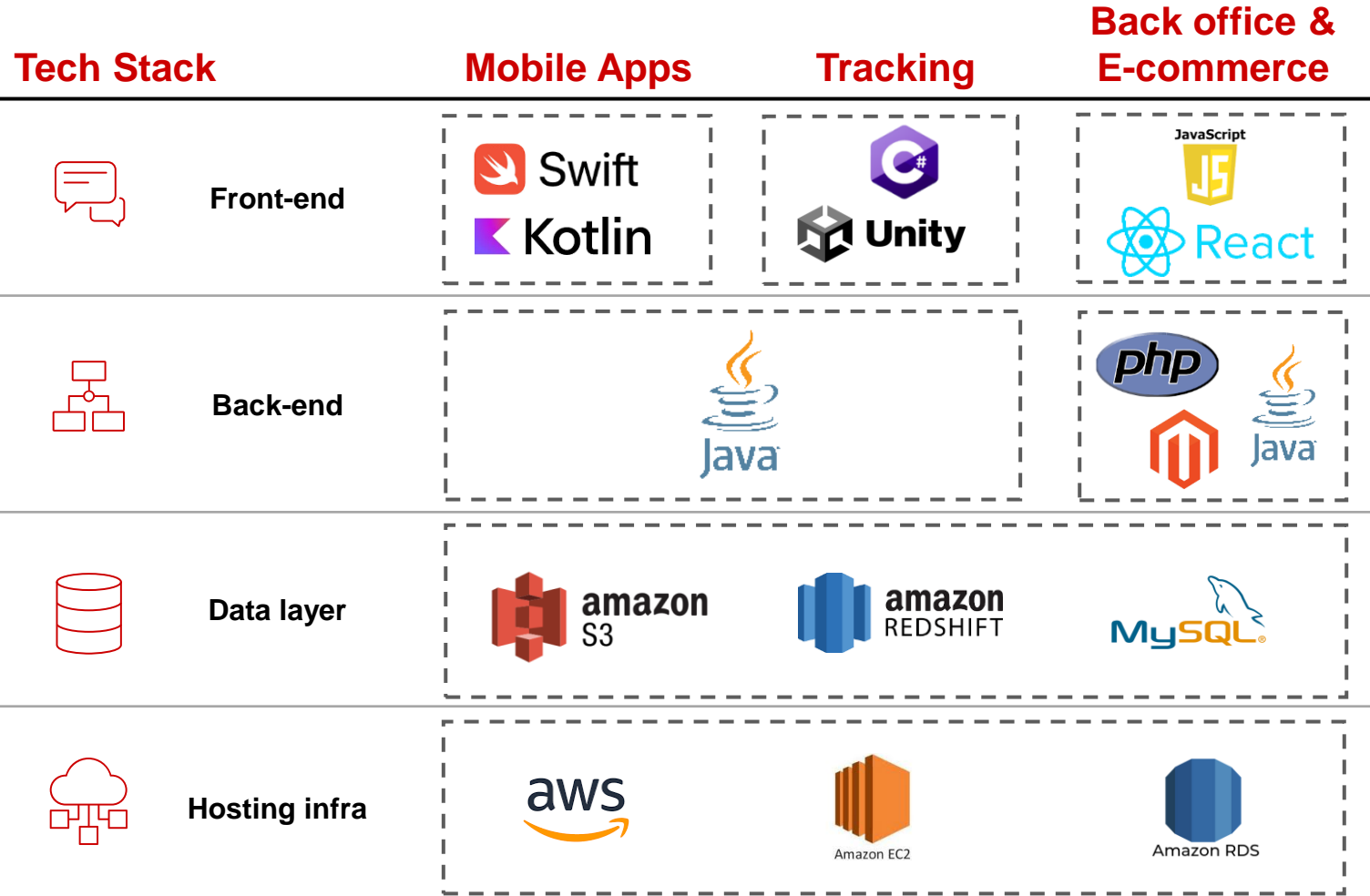
### Architecture Scorecard

Attribute	Assessment
<b>Scalable</b> Can the architecture grow without failure?	- <div><div></div><div></div><div></div><div></div><div></div></div> +
<b>Reliable</b> How likely is the system to run continuously?	- <div><div></div><div></div><div></div><div></div><div></div></div> +
<b>Maintainable</b> How easy is it to maintain the code?	- <div><div></div><div></div><div></div><div></div><div></div></div> +
<b>Extensible</b> How likely is it to add functionality?	- <div><div></div><div></div><div></div><div></div><div></div></div> +
<b>Integrable</b> How easy is it to integrate with other systems?	- <div><div></div><div></div><div></div><div></div><div></div></div> +
<b>Efficient</b> How efficiently does the system use its resources?	- <div><div></div><div></div><div></div><div></div><div></div></div> +
<b>Appropriate</b> Is the architecture appropriate for the application?	- <div><div></div><div></div><div></div><div></div><div></div></div> +

Assessment  Negative Positive

Note: Sim is Simulations; VAR – Value Add Reseller; LCTrans is Lesson Count Transaction; RDS is Relational Database Service | Source: Company information; Literature search; Bain analysis

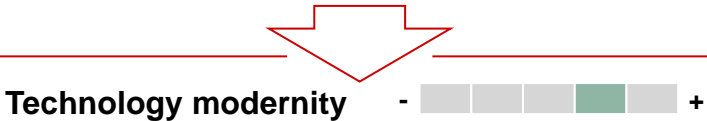
# Target ecosystem has a structured tech stack leveraging modern frameworks and robust hosting infrastructure, with high degree of scalability and maintainability



Assessment       
Negative Positive

## Commentary

- **Front-end:** Use of **C# and Unity** ensures a modern and **simulation capabilities**. **JavaScript and React** enable a **responsive and interactive UX**. **Swift (iOS) and Kotlin (Android)** are used for **mobile apps**
- **Back-end:** **Java** is modern programming language. While not the most modern languages, **PHP** is well-established and mature language with a massive existing footprint and appropriate in this context. **Magento POS** installed H2 2024
- **Data layer:** The database ecosystem includes **MySQL** for transactional data, **Amazon S3** for storage, and **Redshift** for data warehousing and analytics. This separation ensures large-scale data movement and storage. The system is **well-structured and meets current needs**
- **Hosting infra:** System is **hosted on AWS**, with operational redundancy across two data centers
  - **Internal AWS redundancy safeguards uptime**. **NIST CSF 2.0** guidelines used for security. **Regular PCI compliance is maintained**, but there's no plan for additional security certifications



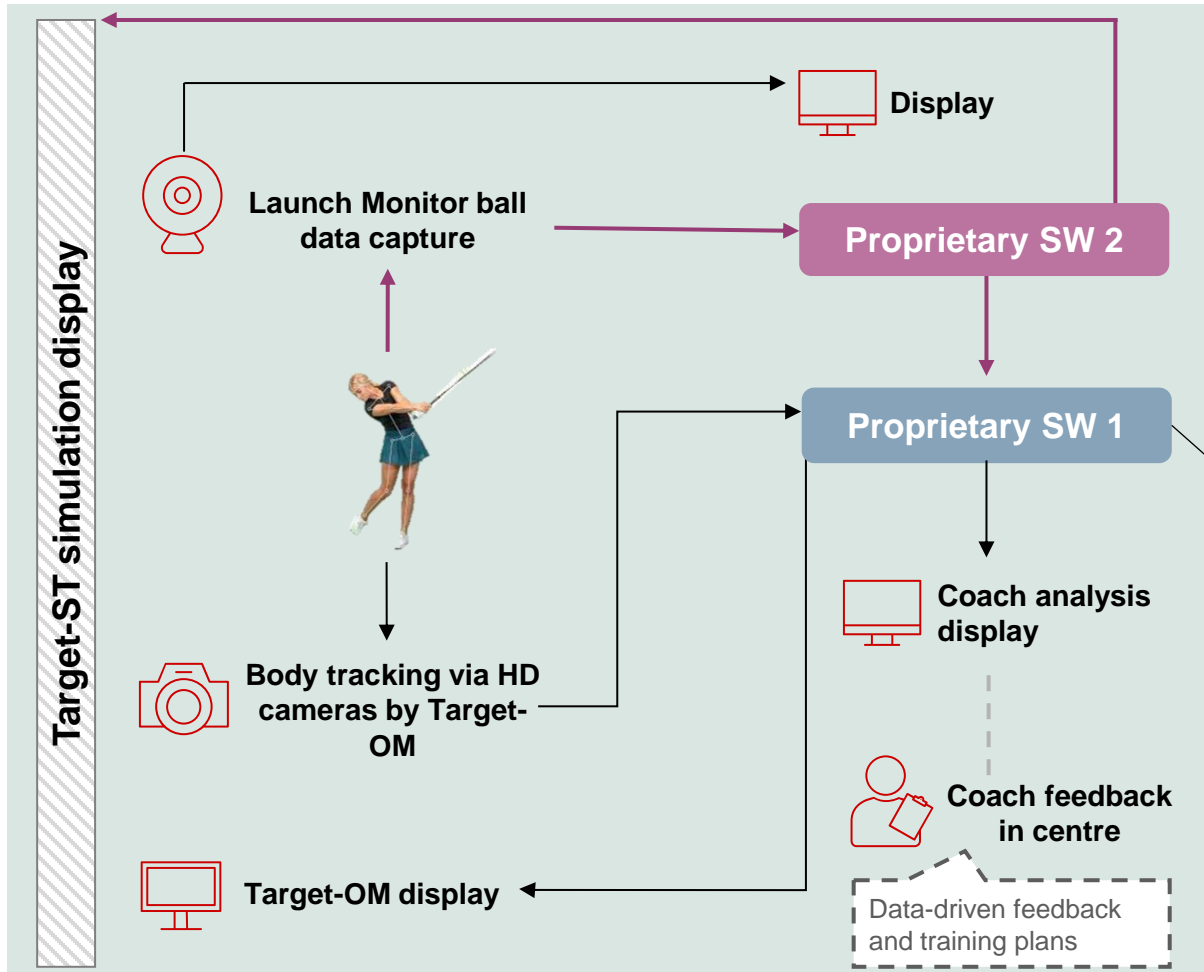
Target ecosystem uses modern and fit-for-purpose technologies for its back-end and front-end

# Target's ecosystem enhances training experiences in center, at home and via app/website by leveraging proprietary software

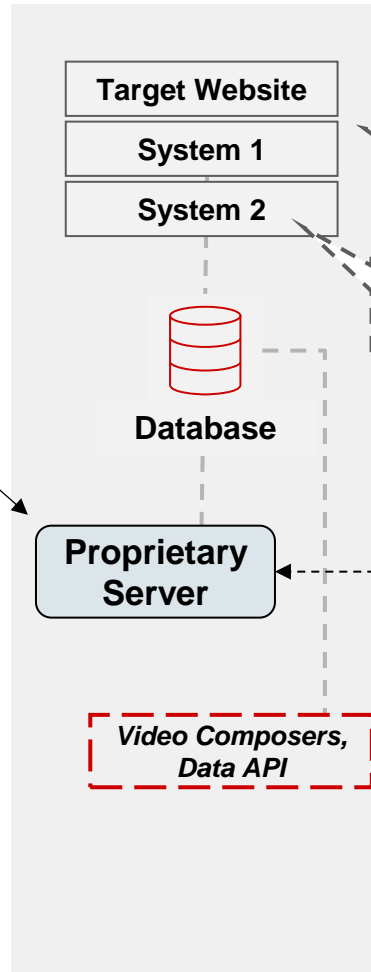
## TECHNOLOGY PLATFORM

/ PRELIMINARY

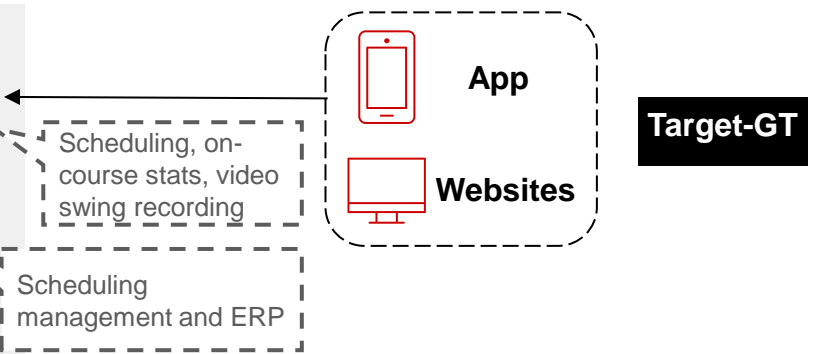
### A In Bay Training Center



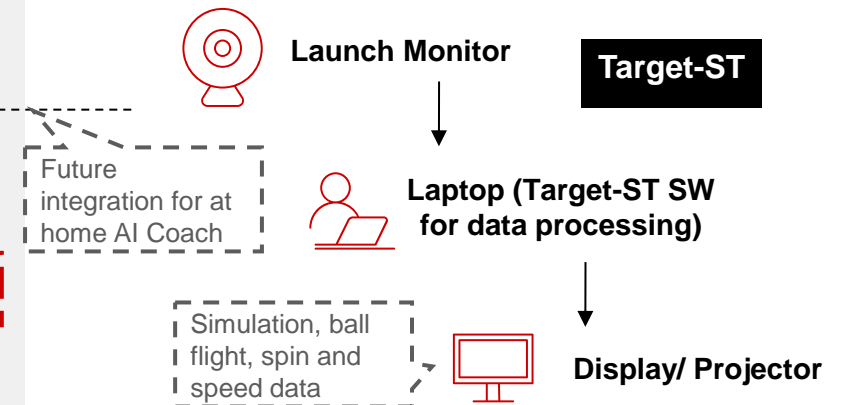
### AWS



### B Apps / Websites



### C Target-ST @Home



Source: Company information; Literature search; Bain analysis

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# Target's ecosystem leverages proprietary software to power training and analytics; Target-GTA app to integrate functionalities and enable 'anywhere' use

## TARGET ECOSYSTEM

/ PRELIMINARY

### Key software enablers

Technology	Target app	Coach-led Lessons	Self-led Practice	Home Set-up	Description
Video Recording					Tracks club and body movement via Computer Vision
① Target-ST SW	Target app includes swing tracing and skeletal mapping				Golf course simulation and ball data tracking
Target-OM					Captures over 4K data points for swing analysis
② Coach AI					AI-powered swing analysis for coach-less training and practice
ML algorithms	Coach AI to power all future tech integrations				Algorithms used to synthesize video and launch monitor data for further analysis
③ Proprietary SW 1					Swing analysis using motion capture, video analysis, & launch data and stat display
Personalized plan					Player specific training plans and targeted feedback using data-driven insights
On-course stats		Target-GTA app to provide two-way coaching feedback	Target-GTA app to provide detailed stat analysis using Target-OM Single Camera system		Geospatial map displaying exact yardages and shot data
GPS data					Device's GPS data used for course mapping and analysis
Proprietary SW 2					Carry distance analysis and club recommendations

Source: Company information; Literature search; Bain analysis

#### Legend

Target App

Training Center

Practice

Target-ST Home

Upcoming

④ Target-GTA App

Target-GTA app to integrate majority of GGT functionalities

### Commentary

#### ① Target-ST software

- Processes launch monitor data to estimate ball trajectory, spin, etc. leveraging ML algorithms
- Golf course simulation for real-time visualizations

#### ② Target-OM AI

- Target-OM data combined with ball/ club data, Meta LLM analysis provides AI powered analysis of golf swings
- OpenAI integration will enable two-way conversation across environments

#### ③ Proprietary SW 1

- Integrates ball/ club data from launch monitors captured by Target-OM 's HD cameras, monitoring 15 key skeletal points
- Swing view with in-depth statistics comparable with PGATour player swings, enabling coaches to identify improvement areas and deliver personalized training plans

#### ④ Target Anywhere app

- Leverages Target-OM single camera technology to provide AI-driven real-time training feedback on-the-go, leveraging data from 20M+ lessons to provide precise analytics

# Target-GT's AI-driven Target-OM , merges motion tracking and launch data for advanced swing analysis and feedback; key to Target-ST integration and Target-GTA

## PRODUCT STRATEGY AND ROADMAP

## DEEP DIVE

/ PRELIMINARY

### Target-OM ①

#### Existing Tech

**Target's proprietary motion-tracking technology** designed to improve golf swings using advanced data analysis and AI-driven insights. It provides real-time feedback on swing mechanics without requiring markers or external sensors



#### Video Capture

**Two specialized cameras** to track body movement throughout the swing in real time. (Target recently partnered with [firm] in creating **single-camera tracking technology**)



#### Big Swing Data

Uses **AI-driven software** and a database of over 14 million swings to analyze golf biomechanics and provide detailed insights



#### Video Measurement

**Tracks full-body movement** during the golf swing and **provides real-time feedback** without the need for wires or sensors

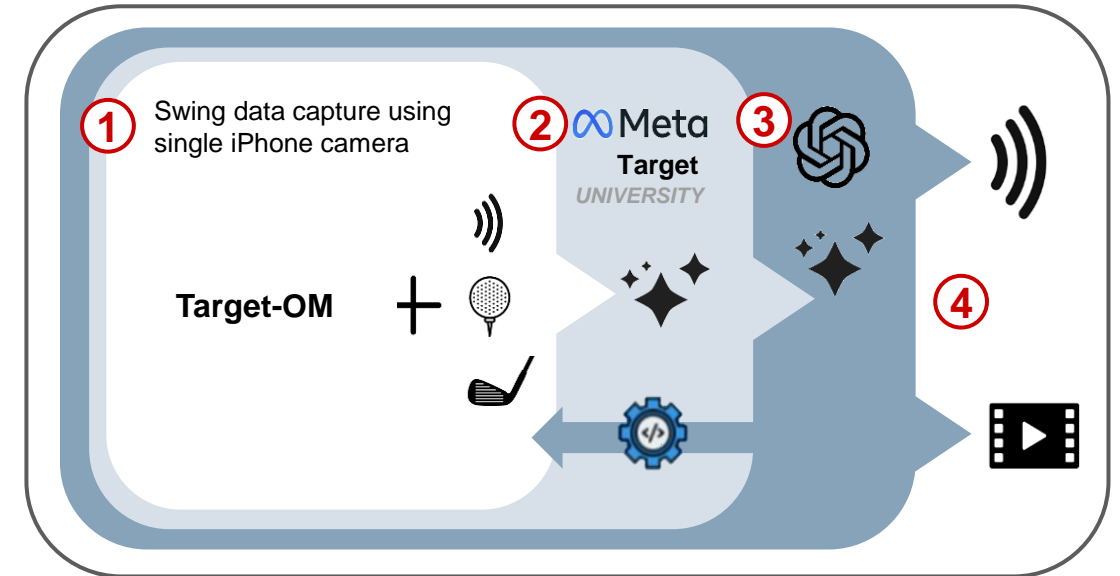


#### Next - level coaching tool

**Target coaches** provide guidance alongside Target-OM technology to help students improve their game

### Target-OM AI

#### Future Tech



- ② **AI-Enhanced Training** – Uses an internal LLM, enriched with Target's knowledge base, to analyze swings and develop personalized training plans
- ③ **Conversational AI Coaching** – Generates instructional recommendations based on Target templates and enables new practice modes
- ④ **Multi-Format Results** – Converts training plans into audio guidance or prescriptive video files for enhanced learning




**Advancing AI-powered golf training by combining Target-OM's data with AI models for smarter swing analysis, automatic fault detection, and personalized practice drills**



# Target has some low-impact tech debt related to legacy code, along with challenges in modernization and system migration

TECH DEBT

/ PRELIMINARY

Item	Description	Impact	Rationale
Proprietary SW 1	A legacy iOS tablet app allowing coaches to take and annotate video on the Green. It was built on an older codebase and requires a rewrite to align with the current platform and architecture		Functionalities to be largely replaced by Target-GTA app. Currently investing ~\$140K (~3% of software CAPEX) for planned upgrades in H2 2025
Proprietary SW 1	Modernisation of software suite		Investing ~\$90K (~2% of software CAPEX) for planned update by mid-2025
CMS Migration	The CMS was migrated from a custom content management system to an off-the-shelf CMS. The legacy interface for online lesson booking and lead capture was carried over and needs to be updated		Minimal impact as current system supports the requisite functionalities adequately and is for internal staff (not customer facing)

Source: Company website; Literature search; Bain analysis

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## A G E N D A

US

Target Ecosystem

Product Strategy & Roadmap

Tech & Architecture

**Organizational Processes and Governance**

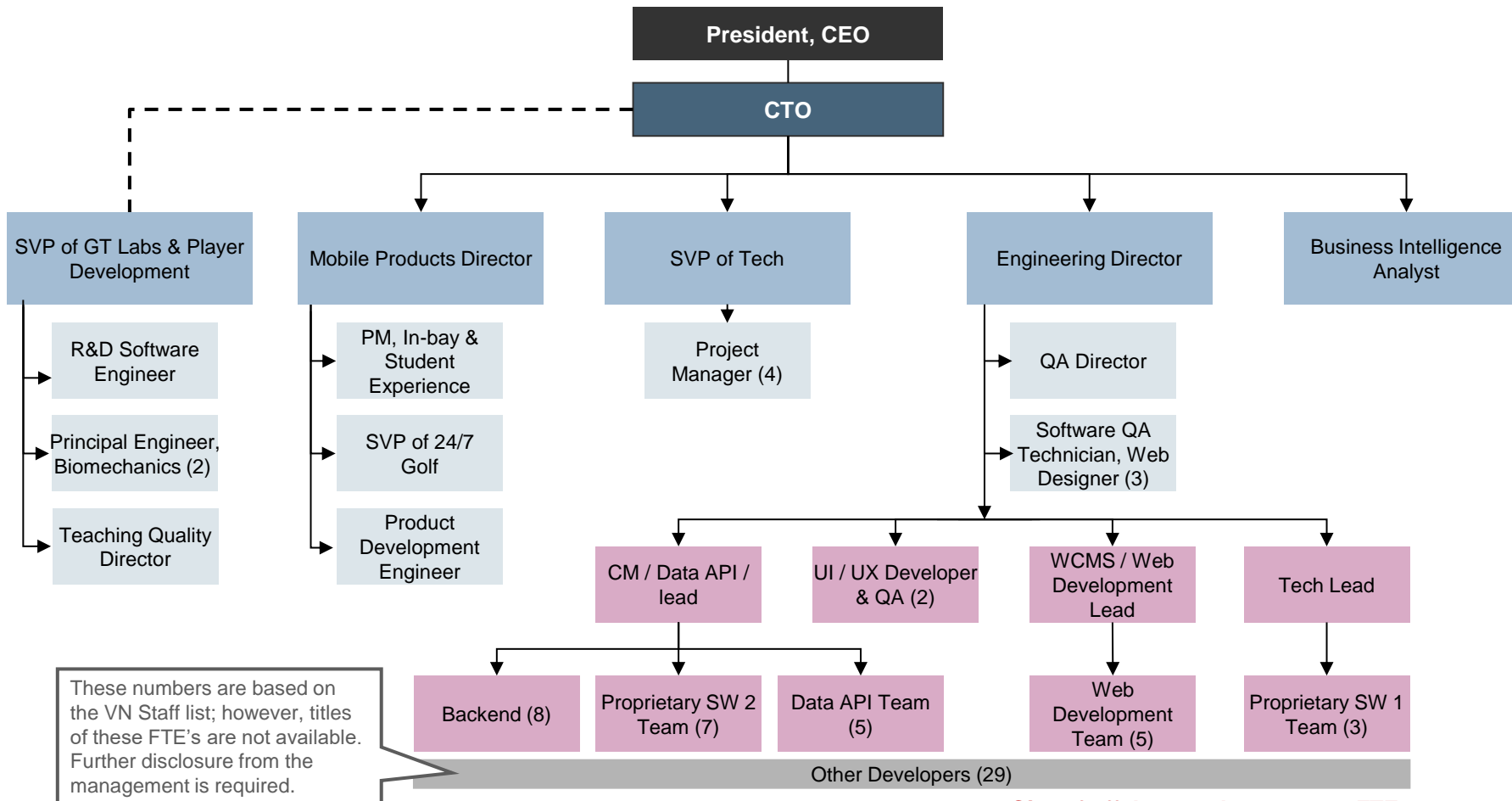


# Target has a large, well-integrated, agile R&D team with a strong Offshore development hub, well-positioned to take on upcoming tech integration project

## ORGANIZATION PROCESS AND OPS MODEL

/ PRELIMINARY

### Target and Target-ST Development Org structure



### Commentary



















- Team is well-balanced, with **US as the main HQ and Offshore as the primary development hub**. Team operates with agile practices with **focus on both Target and Target-ST**
  - Offshore team primarily execute **development** work, supported mainly by **Java, PHP and C# developers**
  - All **testing is conducted in the US**, primarily manually, with some automated testing for shot simulation
- Both the **Director of Engineering** and the **Director of Mobile Product** were hired **within the past year**, bringing leadership to accelerate technology innovation and execution
- The **Director of Engineering** is at the core of development, overseeing people, processes, and tools
  - Leads a **team of ~66 personnel, with 60+ based in Offshore**
- The **Player Development team, led by the SVP of Target Labs & Player Development**, plays a crucial role in refining the technology from a golfing perspective
  - Focus primarily on enhancing proprietary software leveraging expertise from **professional golf teachers and biomechanics researchers**

# Target follows standard Agile development practices, with development items primarily business-driven with clear governance frameworks and processes

TECH PROCESS

SDLC

/ PRELIMINARY

Process	Understand requirements 	Design & Develop 	Implement 	QA/Test 	Release 
	Gather, analyze, and prioritize business and user need	Plan architecture, design UI, and develop application features	Integrate modules, write code, and prepare system for testing	Perform functional, integration, and user acceptance testing thoroughly	Deploy final product, monitor performance, and ensure smooth delivery
Stakeholders	 Product Owner   Executive Oversight	 Project Manager   Executive Oversight   Technical Lead	 Technical Lead	 Project Manager   Product Owner   Technical Lead	 Project Manager   Product Owner
Tools					

- Target has a comprehensive framework and clear processes in place to ensure the product roadmap and strategy are aligned and support business priorities and desired future outcomes – using a refined wishlist process for business input and cross-departmental collaboration.
- Target has an appropriate level of technology and business stakeholder engagement across the end-to-end product governance process. The Agile-style loop ensures fast iterations and stakeholder approval

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# Thank you

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