Pitch Deck

PRODNOSIS 5.0

Team: Straw Hats

BITS Pilani, Pilani campus



About Aqua Intel

Smart Hydration. Smarter Health.

Aqua Intel is an Al-powered smart water bottle designed to monitor water quality, track hydration, and promote healthier drinking habits. With cuttingedge sensor technology and app integration, Aqua Intel ensures that every sip is safe, pure, and tailored to your hydration needs.

UNDERSTANDING THE PROBLEM STATEMENT

Problem Statement

Millions of consumers face dual challenges: uncertain water quality and ineffective hydration tracking, putting their health at risk. Existing solutions only address one aspect, leaving a critical gap in ensuring both safe and sufficient water intake.

Why solve it now?

- Consumers are increasingly prioritizing wellness and proactive health management. This trend fuels the demand for smarter, integrated hydration solutions.
- IoT and sensor technologies now enable **real-time**, accurate water quality and consumption monitoring. These innovations create opportunities for comprehensive, dual-function products.
- Regulatory and environmental pressures push for sustainable, safe water practices. With a robust **market growth rate** (~11.5% CAGR), the time is ideal for integrated smart water solutions.

Competitors



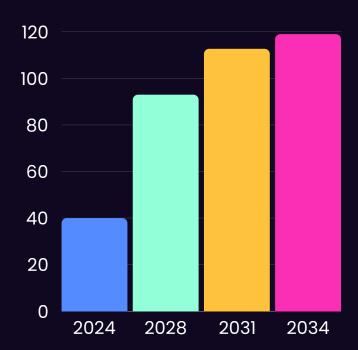






Market Size & Forecast

Smart Water Bottle Market Size was valued at USD 40.03 Billion in 2024. The Smart Water Bottle Market industry is projected to grow from USD 44.63 Billion in 2025 to USD 118.91 Billion by 2034, exhibiting a compound annual growth rate (CAGR) of 11.5 during the forecast period (2025-2034).



Benefits for Users?

- Accurate Hydration Tracking: Receive real-time data on water intake with personalized reminders, ensuring you meet daily hydration goals effortlessly.
- Reliable Water Quality Monitoring: Instantly verify water safety and get alerts for potential contaminants, empowering you to make informed drinking decisions.
- Integrated Health Insights: Seamless integration with mobile apps and wearables delivers actionable insights to improve overall wellness and fitness performance.
- Eco-Friendly & Sustainable: Designed with BPA-free, sustainable materials, reducing reliance on single-use plastics and supporting environmentally conscious lifestyles.
- Enhanced Convenience: Features such as rechargeable battery ensures the bottle is reliable and ready for use in any setting.

USER PERSONAS



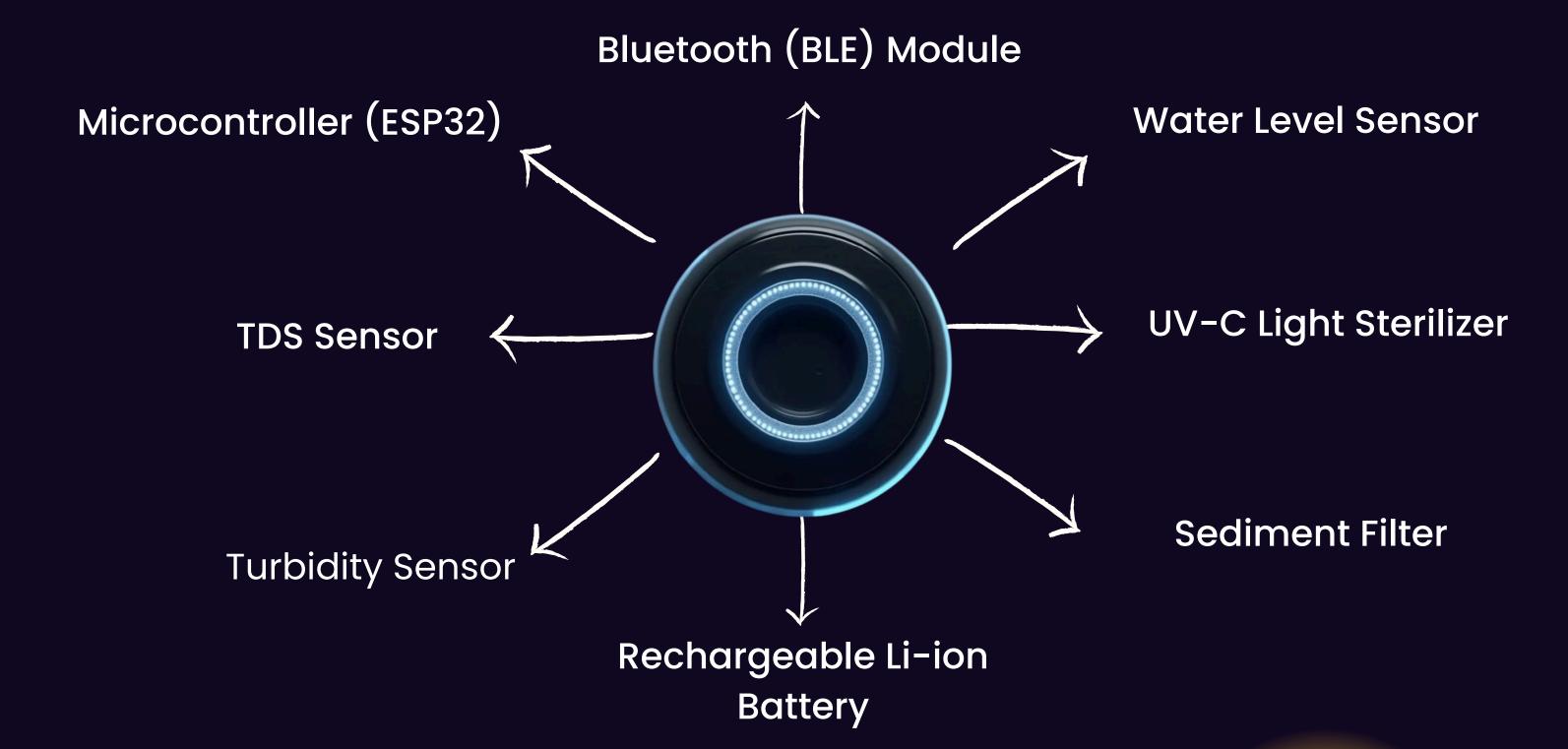




NAME	Sarah – The Fitness Enthusiast	Kendra – The Outdoor Adventurer Lana – The Globetrotting Parent		
AGE	27	35	49	
OCCUPATON	Marketing Manager	Adventure Guide	Travel Blogger	
PROFILE	Relies on technology to track workouts and hydration; values data-driven insights to maintain optimal performance.	Needs robust, portable hydration solutions for extended outdoor activities.	Balances travel and family needs; highly values safety and sustainability.	
WHY AQUA INTEL	Advanced hydration tracking and water quality checks integrated with her wearable devices.	Durable design with reliable sensors that provide real-time water safety alerts.	Provides personalized hydration insights and quality alerts, ensuring her family has access to safe drinking water wherever they go.	



Comprehensive Product Blueprint



Aqua Intel Smart Bottle

- Real-time Water Quality Monitoring
- Hydration Tracking
- Smart Hydration Alerts
- Long Battery Life
- Premium, Eco-friendly Materials
- Easy-to-Use Display
- Seamless Device Syncing
- Sleek, Portable Design

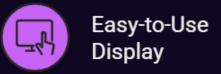


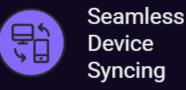


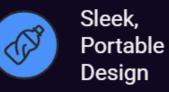




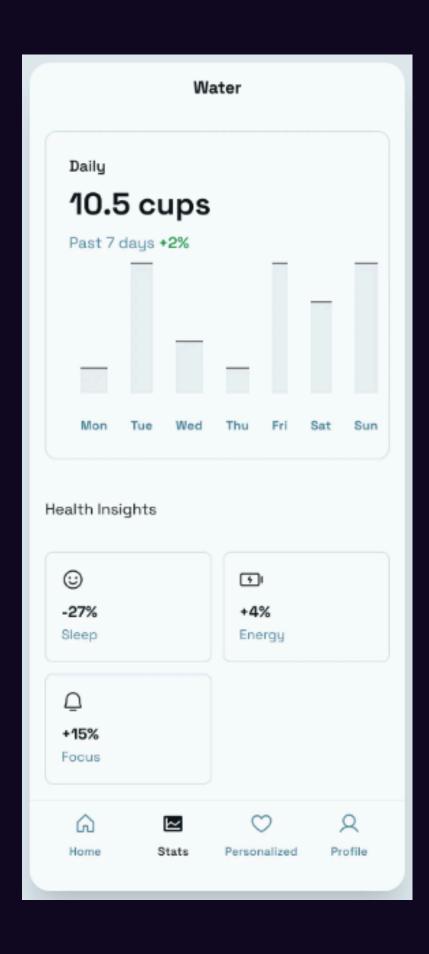






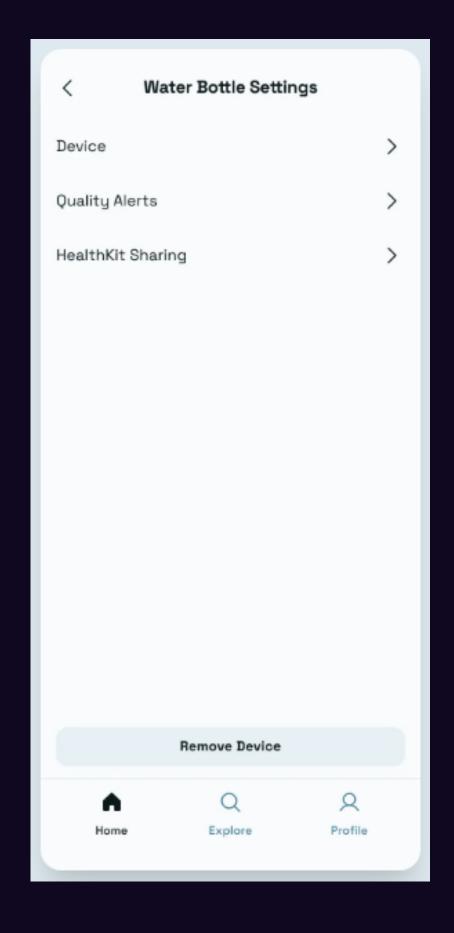


App User Interface



- Real-time Water Quality
 Monitoring Color-coded water safety and hydration progress.
- Personalized Hydration Insights

 Al-driven hydration
 suggestions based on activity
 and weather.
- Easy Navigation &
 Customization Simple tabs and
 settings for a seamless user
 experience.
- Wearable Sync & Data
 Integration Sync with health platforms like Fitbit and Google Fit.



Technical Framework

IoT Communication Protocols

Bluetooth Low Energy (BLE): Use BLE for communication between the smart bottle and the app.

Integrating IOS/Android devices

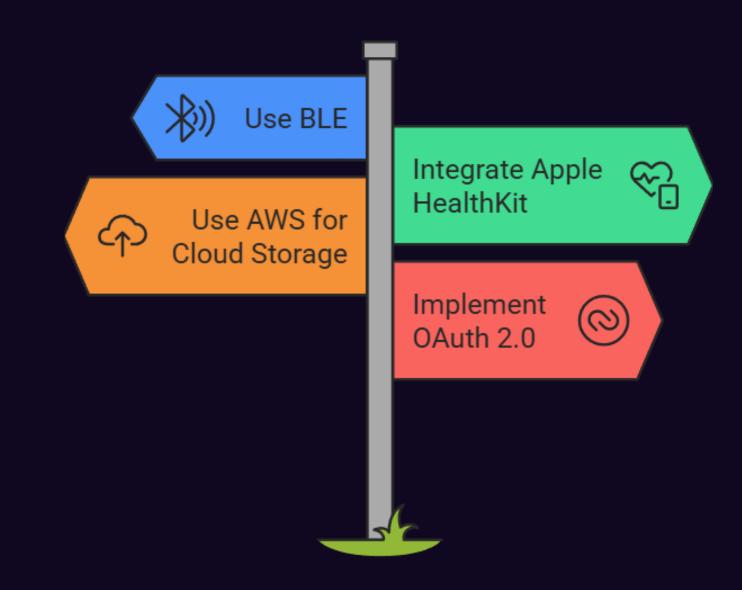
Apple HealthKit (iOS), Google Fit API (Android), Fitbit API

Data Integration & Management

Cloud Storage (Backend Infrastructure) - Amazon Web Services (AWS) Real-time Data Sync - irebase Realtime Database or Firestore

Security Protocols

Authentication & Authorization - OAuth 2.0 Data Encryption - End-to-End Encryption (E2EE) Secure APIs - RESTful API Security



Technical Framework

Our approach integrates machine learning algorithms with the smart water bottle to enhance water quality monitoring and user experience. By leveraging classification and anomaly detection algorithms, the bottle's sensors analyze turbidity, TDS, and pH levels to assess water quality in realtime. These algorithms process sensor data, classify water as safe or unsafe, and provide instant feedback via the connected app.

Our app can track water intake and suggest personalized hydration goals using AI based on factors like age, weight, activity level, and climate.



Link of the model: https://colab.research.google.com/drive/lyOE-vydsit-00Cvfc1Nd33EPyt00x_rE?usp=sharing

Target Market & Customer Segments

Sustainability & Environmental Impact

 Health-conscious individuals & fitness enthusiasts.

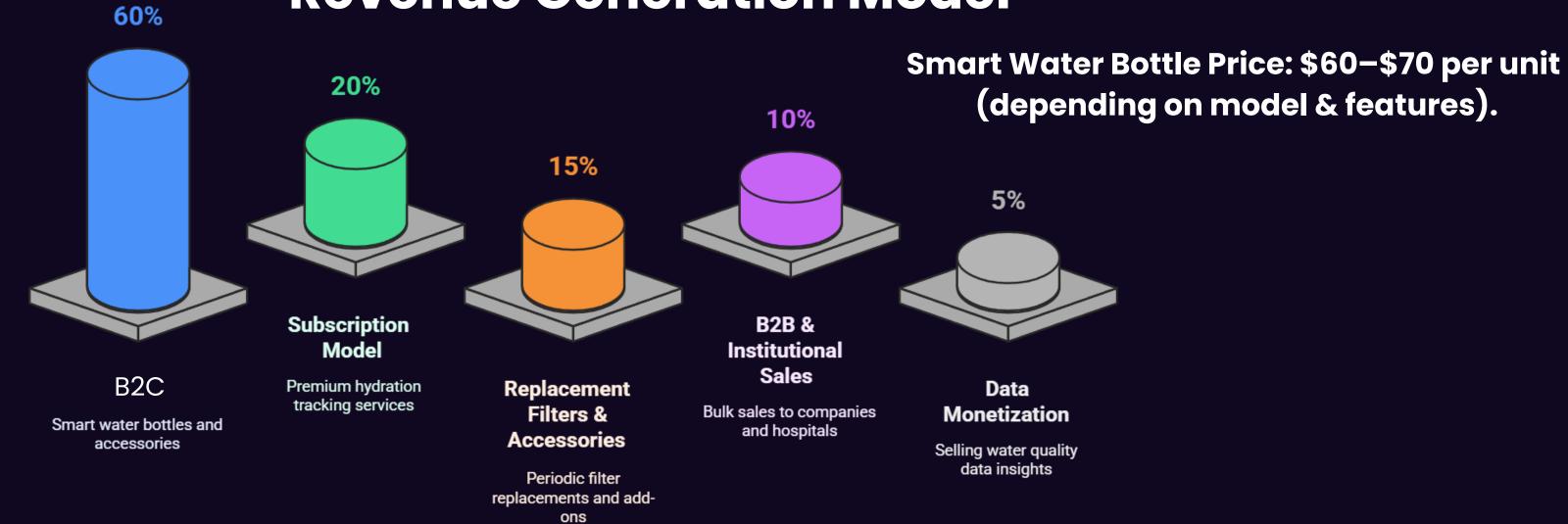
• Travelers & outdoor adventurers.

- Parents concerned about water quality for kids.
- Corporate wellness programs
- Eco-friendly consumers interested in sustainability and water conservation.

Components of Sustainability & Environmental Impact



Revenue Generation Model

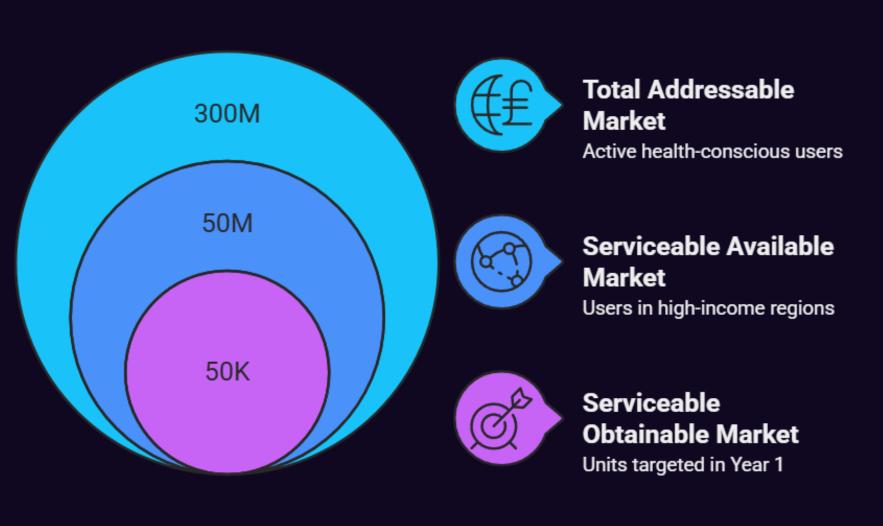


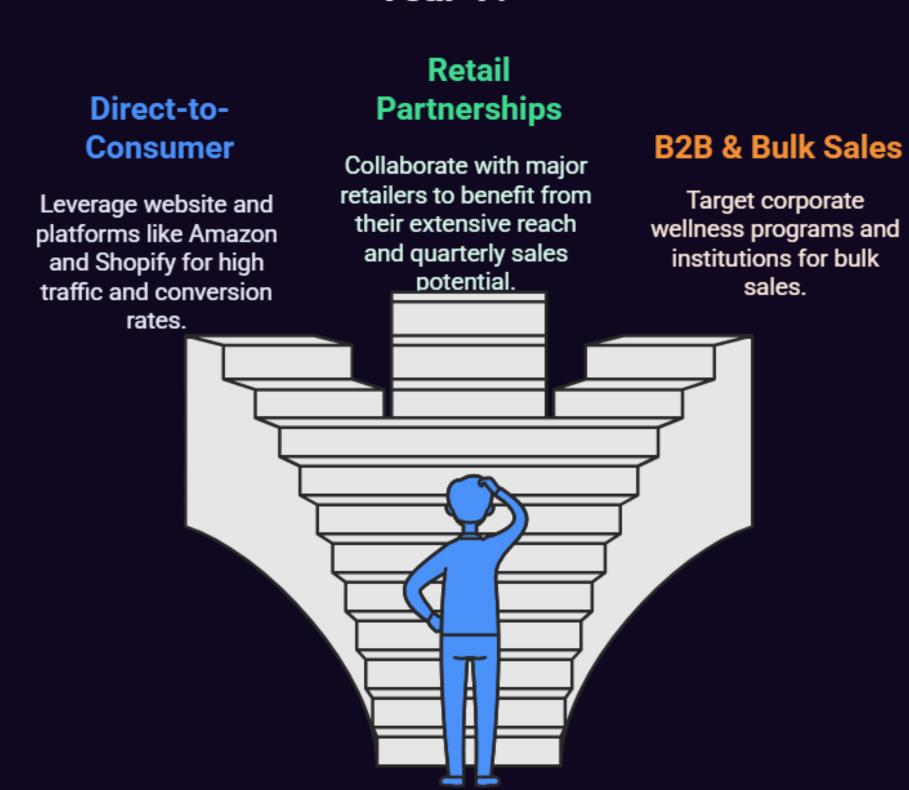
B2C	Subscription Model Rep	lacement Filters & Accessories	B2B & Institutional Sales	Data Monetization
Target Market	Target Conversion Rate:	Filter Price: \$10 per unit, Replaced every 3 months.	Target Bulk Sales:	Projected Revenue
Penetration:	10% of buyers subscribe →	Customers: 30% of Consumers		
Year 1: 50,000 units → \$3M	Year 1: 5,000 subscribers → \$250k	Year 1: 15,000 users → \$60K.	Year 1: 10,000 units (bulk) → \$800K.	Year 1: \$250K.
Year 2: 150,000 units → \$9M.	Year 2: 30,000 subscribers → \$1.5N	M. Year 2: 50,000 users → \$2M.	Year 2: 50,000 units (bulk) → \$4M.	Year 2: \$1M.
Year 3: 500,000 units → \$30M.	Year 3: 100,000 subscribers → \$5N	M. Year 3: 200,000 users → \$8M.	Year 3: 100,000 units (bulk) → \$8M.	Year 3: \$3M.

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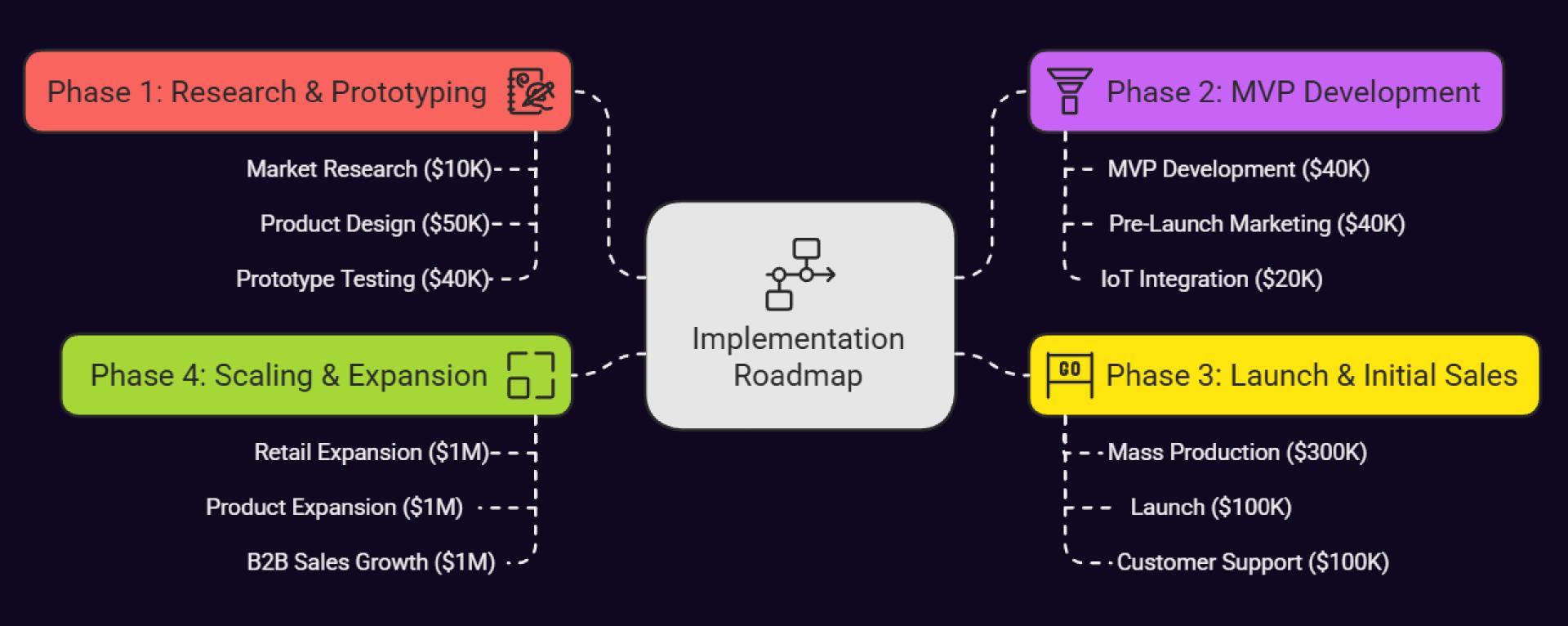
Market Potential for Smart Water Bottles Sales Channel Breakdown & Feasibility

How to achieve the target of 50,000 units sold in Year 1?





Implementation Roadmap for Product Development





ThankYou

Straw Hats Team

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- Ayush Goyat