

AI Innovators
Capstone Project



VOLLIQ

PITCH DECK

AI POWERED VOLLEYBALL PERFORMANCE
AND INJURY PREVENTION SYSTEM

Ryanne Milligan
CAI 1001C Spring 2025

THE PROBLEM

01 INJURY RISKS

Knee, shoulder, and ankle injuries are common in the sport of volleyball

02 PERFORMANCE GAPS

Athletes lack real-time feedback to optimize techniques.

03 LIMITED AI SOLUTIONS

Current training lacks AI insights for biomechanics and strategy.

THE SOLUTION



MOTION ANALYSIS

AI driven analysis for improved form and efficiency.



INJURY PREDICTION

Predicts risk based on movement patterns and fatigue



SMART TRAINING PLANS

Personalized training plans tailored to individual needs based on the injury prediction/motion analysis reports

HOW IT WORKS

Computer Vision

Tracks every players movement and form.

01

Machine Learning Algorithms

Analyzes motion/impact and predicts injury risks.

02

Wearable Integration

Smart, wearable knee, shoulder, and ankle sleeves and sensors for impact and movement monitoring.

03

AI Coaching Assistant

Provides on the spot training recommendations that coaching and implement immediately.

04

TARGET MARKET

Youth Volleyball Clubs ➤

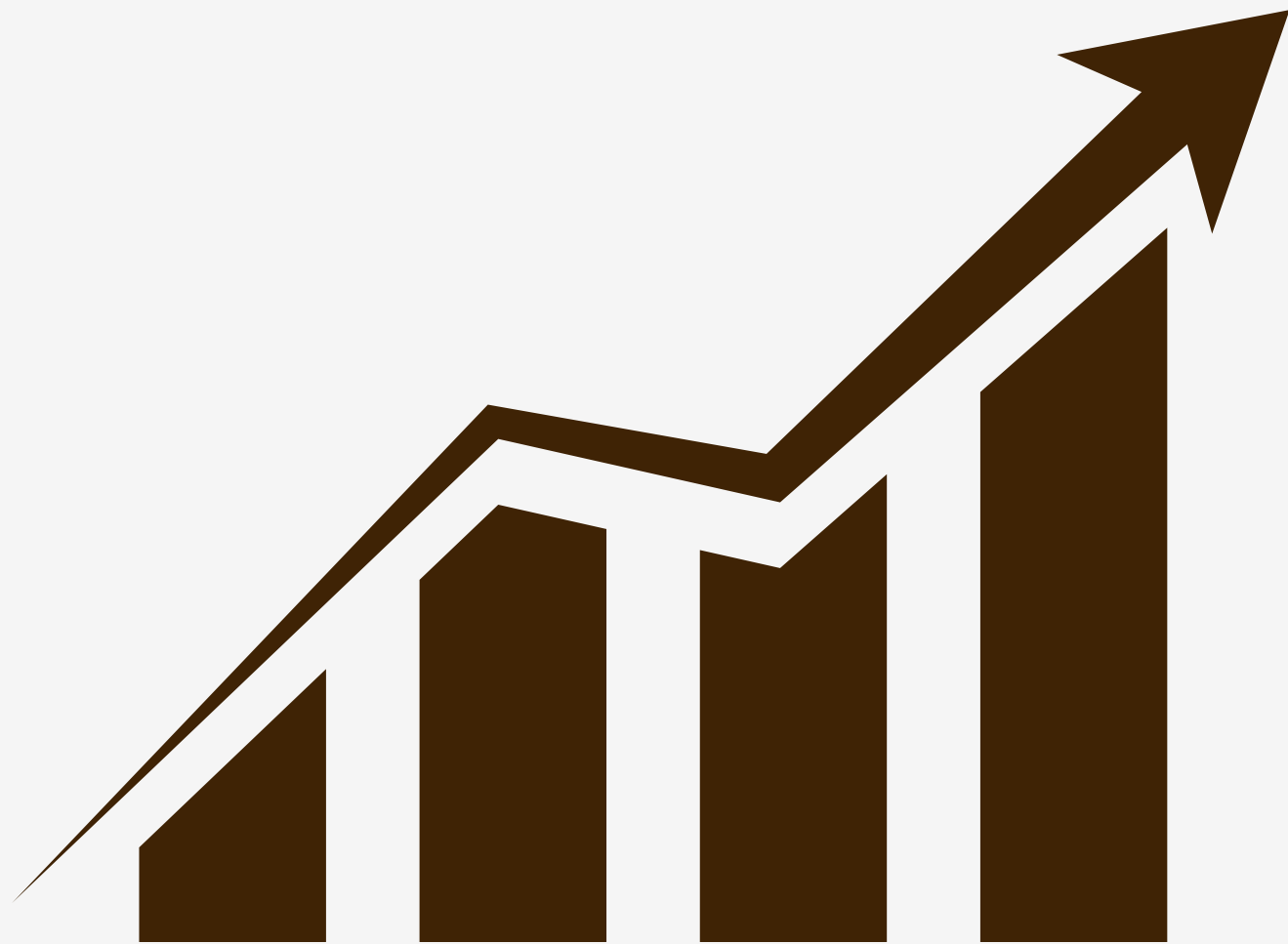
Collegiate Teams ➤

➤ Professional Teams

➤ Recreational Players



BUSINESS MODEL



Subscription Plans

Teams and Individuals can pay for AI-driven insights. All data can then be reviewed on the VolliQ App



One-Time Purchases

Hardware purchases. Wearables, cameras and sensors.



Licensing Model

Partnering with volleyball organizations.



MARKET POTENTIAL



#3 is me!

8 MILLION!!!!

There are over 8,000,000 volleyball players.

RISING DEMAND

Rising demand for AI and innovative sports tech.

GLOBAL REACH

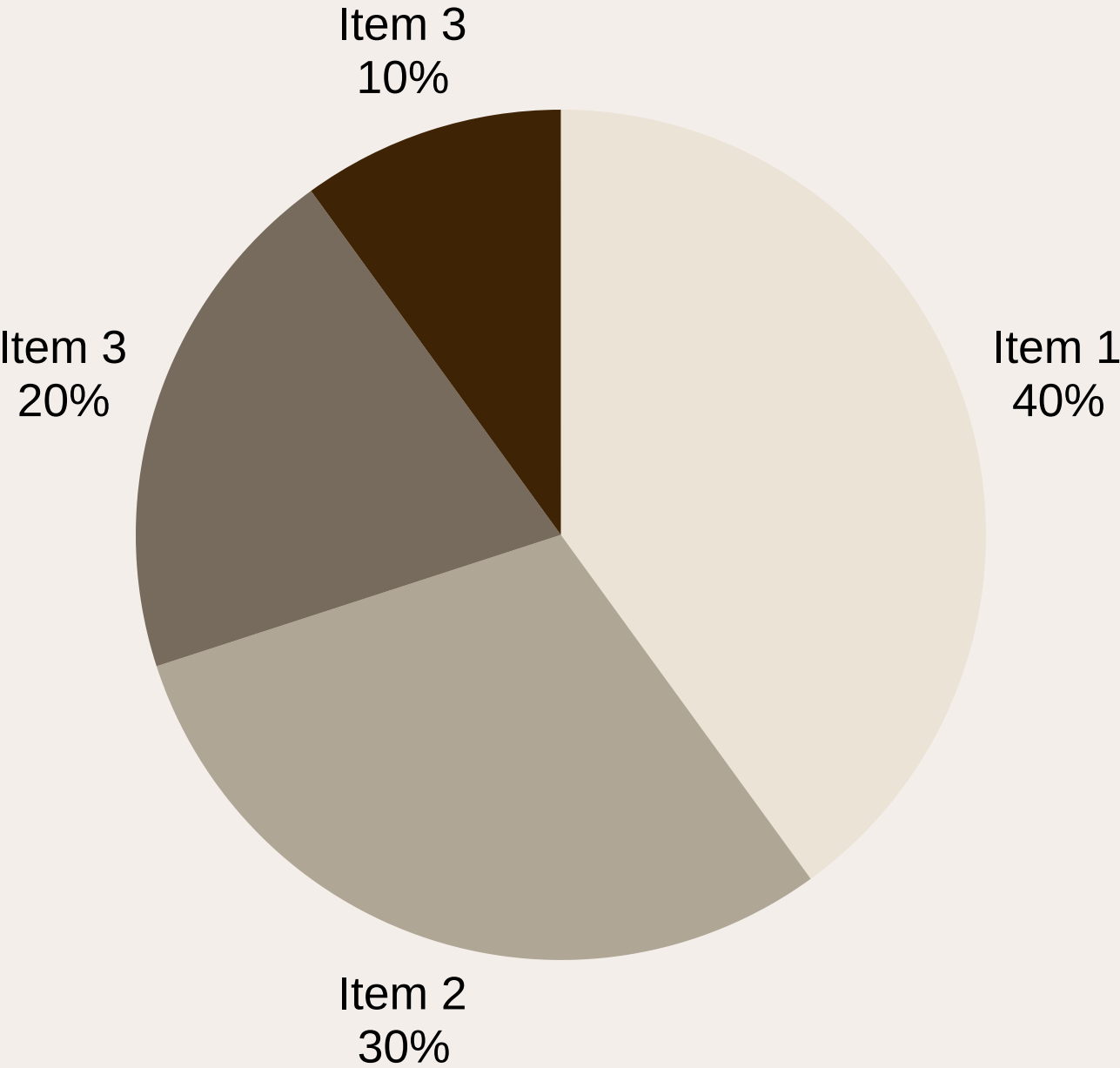
Volleyball is a global sport. Virtually endless partnerships opportunities with NCAA, clubs, and pro leagues.

NEXT STEPS + INVESTMENT ASK

FUNDING GOAL	\$500k	For development, testing, and market launch	Needed stat.
PILOT PROGRAM	Partner with top program in the NCAA for early testing.	i.e. Penn State, Pitt, Stanford.	Within 6 months of funding.
APP & WEARABLE PROTO TYPE	Development of core technology	Ankle, shoulder, and knee sleeves + VOLLIQ ap.	Within 3 months of funding.
MARKETING AND PARTNERSHIPS	Engage coaches, clubs, and athletes.	Influencers who are volleyball players.	Within 9 months of funding.

USE OF FUNDS

Product Development	40%
Marketing and Sales	30%
Team Buildout	20%
Beta(Pilot) Testing	10%



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A stylized graphic of a volleyball, composed of several thick, dark brown curved lines that form the segments of the ball. It is positioned on the left side of the slide, partially behind the main text.

JOIN VOLLIQ

IN REVOLUTIONIZING VOLLEYBALL

Making Volleyball Smarter and Safer.

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