



PMI Region 9

Regional Business Case C o m p e t i t i o n

Eco 4 Ring

iWastem

PROJECT

Eco 4Ring

MEMBER



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Problems

Objectives

Solutions

Expected Outcomes



Enhance students' environmental awareness and behavior

Reduce the total amount of waste on campus

Establish incentive mechanisms

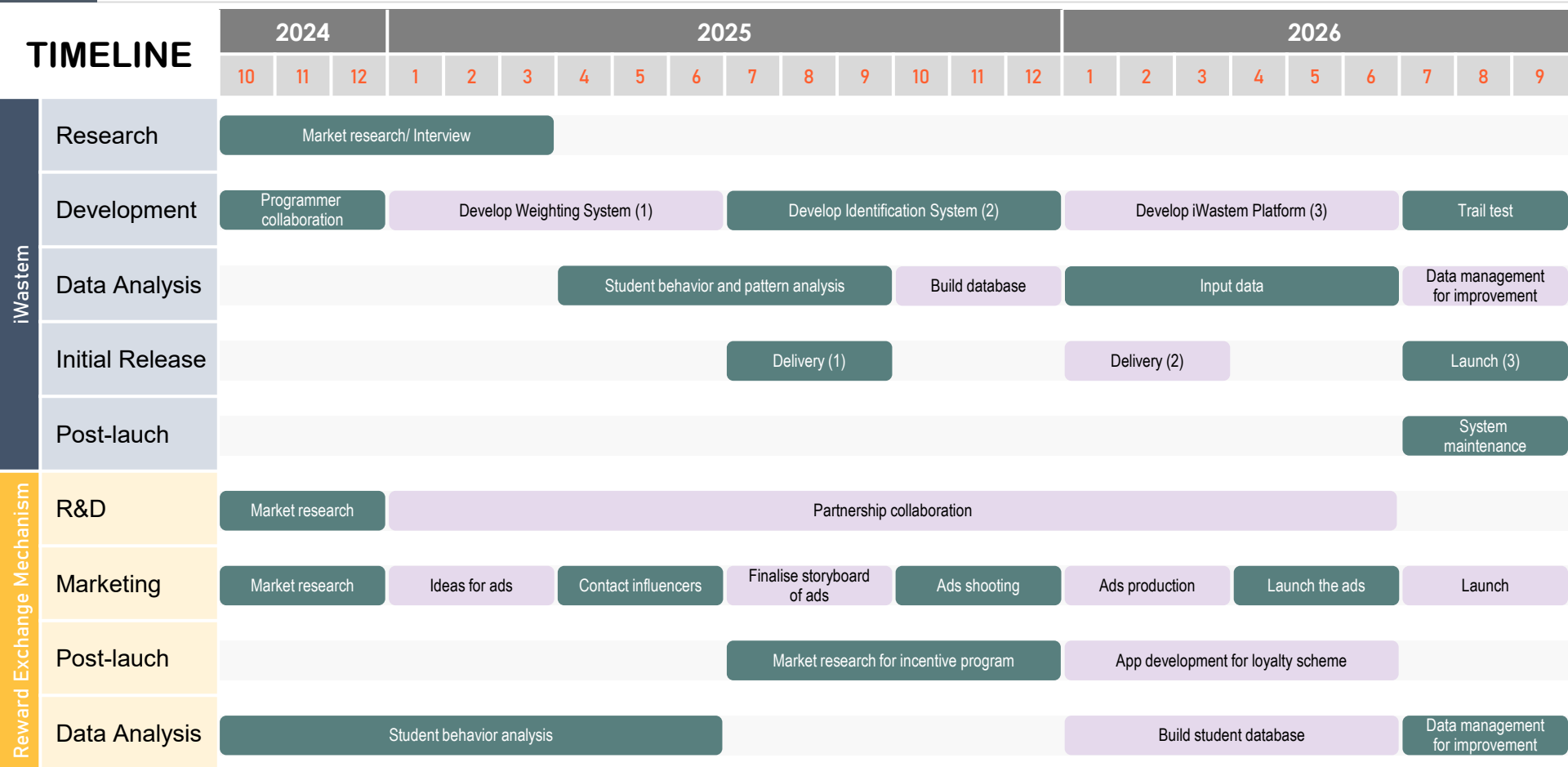
Set up trash can monitoring systems

**30%**

Students' environmental awareness and behavior

**10%**

NTCU waste disposal costs



This is a sustainable campus project aimed at enhancing students' environmental awareness and behavior through monitoring systems and reward mechanisms, thereby reducing campus waste



2024.09.01



2026.08.31
(two years)



1st 1,013,717

2nd 1,255,697

2,269,414

Project Objectives

Enhance students' environmental awareness and behavior, and reduce the total amount of campus waste

Project Sponsor

President of National Taichung University of Education

Project Deliverables

Install trash can monitoring systems, establish reward and redemption mechanisms

Project Success Criteria

Complete development within the timeline, bring positive impact to the campus (news, industry-academia cooperation)

Project Assumptions...

Financial-based The principal invests in the initial development cost

Time-based Development is expected to be completed within the project period

Product-based The final product is configured as expected

Technical-based Software and hardware development meets user requirements

User Acceptance Criteria

- Students can dispose of and recycle waste using "iWastem".
- Students can track relevant information, accumulate points, and redeem goods through the student info system

Project Constraints



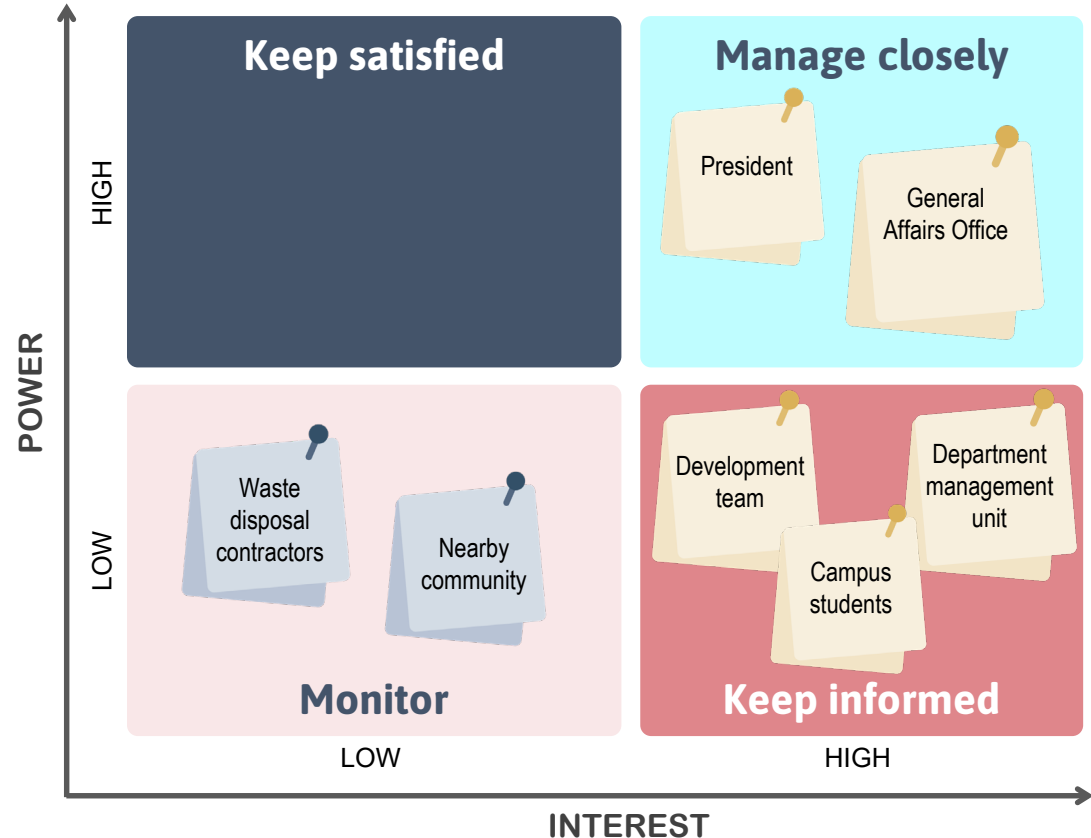
Project Boundaries

Public areas on floors with high foot traffic in teaching units of NTCU Yingcai Campus

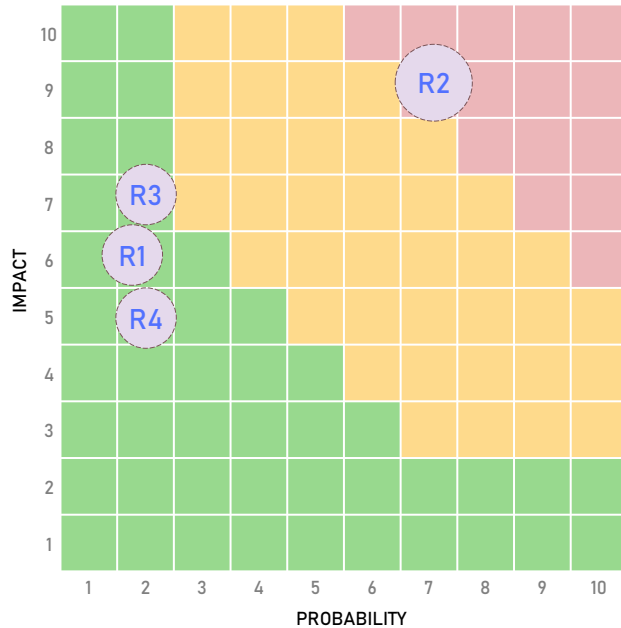
Stakeholders



Power/Interest Matrix



Risk Register and Prob./Impact Matrix.



ID	CATEGORY	RISK DESCRIPTION	IMPACT	PROB.	RISK LEVEL	THREAT	OPPORTUNITIES
R1	Technical	Equipment malfunction	4	3	12 ● Low	Regular maintenance	
R2	External	Low user loyalty	7	9	63 ● Medium		Set up Reward redemption mechanism
R3	Management	Personal data leakage	7	2	14 ● Low		Embed the Campus Security System
R4	Technical	Equipment damage or premature end of life	2	5	10 ● Low	Establish fail-safe mechanisms	

■ 0-33 Low risk level
 ■ 34-66 Medium risk level
 ■ 67-100 High risk level