



HUMAN CAPITAL × AI

The UNSDG Sustainable Business Challenge

Powered by SEL. Co - created by AI. Designing human-centered solutions for global sustainability

RE:TECH

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RETECH GUILD

Fix it together. Keep tech in use.
Build circular confidence.



UNSDG 12 | RESPONSIBLE CONSUMPTION AND PRODUCTION

Student IDs: 4B565010 & 4B465052 | STUST

Technology lasts longer when people learn together.

Repair
Reuse
Recycle

1 THE HUMAN CRISIS (20%) SMALL FAULT. BIGGER PROBLEM.



WHO?

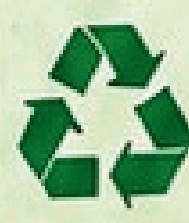
STUST international students and campus community.

KEY CHALLENGES



62 MILLION TONNES
Global e-waste generated in 2022.

Source: Global E-waste Monitor 2024 — ITU & UNITAR.



22.3%
Formally collected and recycled.

Global figures: campus-specific barriers still need validation.

2 HUMAN-CENTRED SOLUTION + SEL (30%) NOT JUST REPAIR. LEARN TOGETHER.



01 CONNECT
Peer diagnostic circles and shared troubleshooting.



02 LEARN
Guided maintenance and safe repair workshops.



03 CHOOSE
Repair, reuse, or recycle responsibly.

CASEL COMPETENCIES



SELF-MANAGEMENT

- Set goals
- Manage frustration
- Persist safely



RELATIONSHIP SKILLS

- Listen
- Collaborate
- Ask for help

WITHOUT SEL, IT'S JUST A REPAIR SERVICE.

Human connection builds confidence, teamwork, and responsible decision-making.



Hazardous repairs go to qualified professionals.

3 SUSTAINABLE BUSINESS MODEL (25%) GOOD FOR YOUR WALLET. BETTER FOR THE PLANET.



CUSTOMERS

- Students
- Campus community
- Campus organizations



VALUE

- Affordable guidance
- Practical skills
- Peer support



REVENUE

- Workshop passes
- Memberships
- Repair assistance
- Paid campus workshops

FINANCIAL CYCLE



Customer payments



Service delivery



Cover costs



Reinvest in tools and training

Goal: Earn enough revenue to cover recurring operating costs.
Grants only as supplementary startup support.

Small
Actions
Big
Change

REPAIR SKILLS. REAL CONNECTION. CIRCULAR IMPACT.

4 HUMAN + AI COLLABORATION (25%) AI SUGGESTS. HUMANS DECIDE.

Better
Choices
Together!

AI BLIND SPOT



App-first solution



Profit over access



Potentially unsafe advice



Focus on numbers only

HUMAN CORRECTION



Prioritize real peer interaction



Keep affordability central



Human oversight and expert referrals



Measure learning and environmental impact

AI supports analysis. Human judgment sets the direction.

OUR COMPLEMENTARY ROLES:



Student 1
Business sustainability and environmental impact



Student 2
Service design and CASEL learning



南臺科技大學
Southern Taiwan University of Science and Technology

SCAN TO WATCH
Our 3-4 minute presentation

