

1 NO POVERTY



2 NO HUNGER



3 GOOD HEALTH



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 RENEWABLE ENERGY



8 GOOD JOBS AND ECONOMIC GROWTH



9 INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE AND JUSTICE



17 PARTNERSHIPS FOR THE GOALS

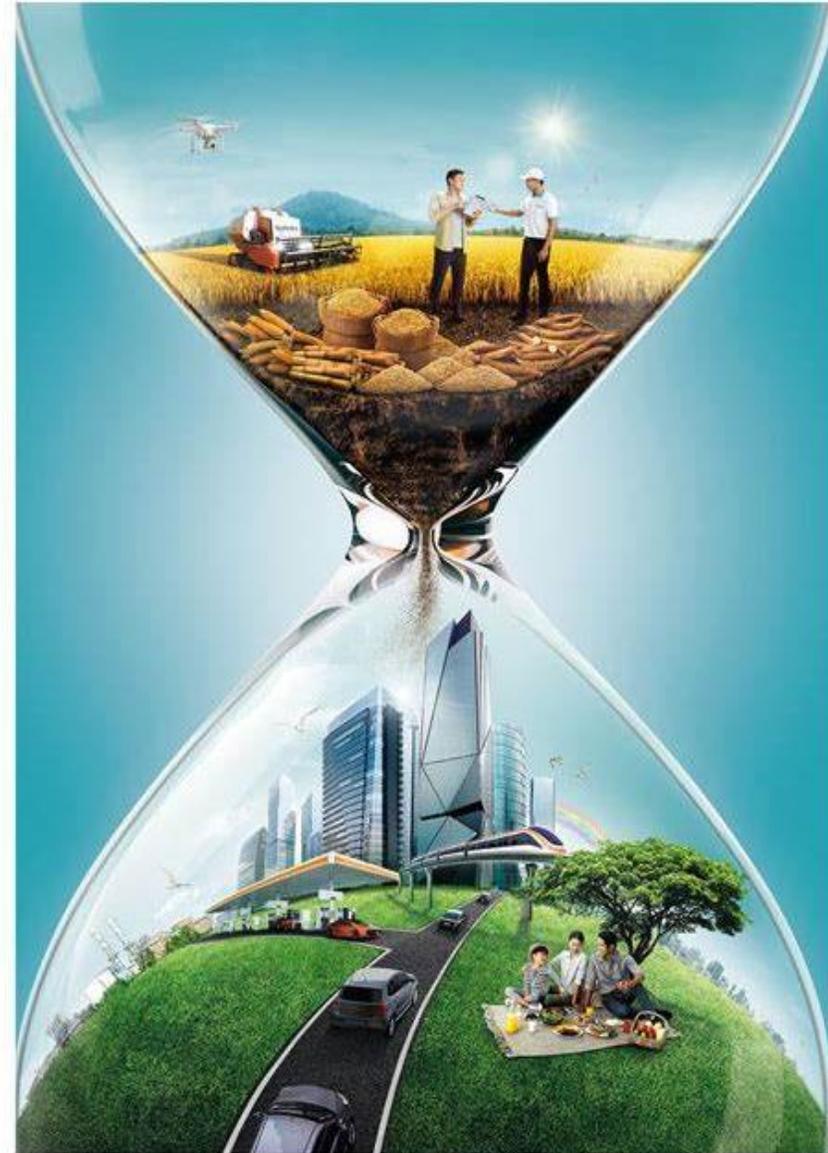


**THE GLOBAL GOALS**  
For Sustainable Development

# LET'S TALK SDGs !!!



- Sustainable development is a need of the hour because **resources are unevenly distributed**, and we are **consuming them without thinking about the future generation**.
- Over the years, the world has progressed tremendously, and this economic growth has cost the environment some serious damages.
- SDGs can be a tool to help ensure that **policies guide change and manage resources** in a way that keeps human development options open.
- This is not just an environmental agenda, but one that factors in social and economic, as well as environmental concerns





•The Millennium Development Goals (MDGs) are **eight goals that UN Member States agreed to try to achieve by the year 2015**

The goals are:

- Eradicate extreme poverty and hunger
- Achieve universal primary education
- Promote gender equality and empower women
- Reduce child mortality
- Improve maternal health
- Combat HIV/AIDS, malaria, and other diseases
- Ensure environmental sustainability
- Global partnerships among different countries and actors to achieve development goals.

<b>MDG</b>	<b>ACHIEVED</b>
<b>Poverty Reduction (MDG 1):</b>	The number of people living on less than \$1.25 a day significantly decreased from 1.9 billion in 1990 to 836 million in 2015. However, the target of halving the proportion of people suffering from hunger was narrowly missed.
<b>Universal Primary Education (MDG 2):</b>	While primary school enrollment rates impressively rose, the goal of achieving universal primary education was just missed. The net enrollment rate increased from 83% in 2000 to 91% in recent years.
<b>Gender Equality (MDG3) :</b>	About two-thirds of developing countries achieved gender parity in primary education, a significant step toward gender equality
<b>Child Mortality Reduction (MDG 4):</b>	The child mortality rate decreased by more than half over the past 25 years, falling from 90 to 43 deaths per 1,000 live births. However, it did not meet the MDG target of a two-thirds reduction.

MDG	ACHIEVED
<b>Maternal Health Improvement (MDG 5):</b>	The global maternal mortality ratio fell by nearly half, although it fell short of the two-thirds reduction targeted by the MDGs.
<b>Combatting HIV/AIDS and Other Diseases (MDG 6):</b>	The goal of halting and reversing the spread of HIV/AIDS by 2015 was not fully met. However, new HIV infections decreased by around 40% between 2000 and 2013.
<b>Environmental Sustainability (MDG 7):</b>	Access to improved drinking water significantly improved, with 2.6 billion people gaining access since 1990. The target of halving the proportion of people without access to improved water sources was achieved ahead of schedule. However, 663 million people worldwide still lacked access to improved drinking water.
<b>Global Partnership for Development (MDG 8):</b>	Overseas development assistance from rich nations to developing countries increased by 66% in real terms between 2000 and 2014. In 2013, it reached a record figure of \$134.8 billion. This progress reflects efforts to foster a universal partnership for development.

The MDGs were the first attempt to use Global Goals to capture and advance the shared interest we all have, in a more just, peaceful and prosperous world.

The 15-year effort to achieve the eight aspirational goals set out in the Millennium Declaration in 2000 was largely successful across the globe, according to the MDG Report 2015.

The report found that the MDGs helped to lift more than one billion people out of extreme poverty, to make inroads against hunger, to enable more girls to attend school than ever before and to protect our planet.

- There were still unfinished tasks, including ending hunger, achieving full gender equality, improving health services, and ensuring education beyond primary levels.
- In 2012, during the United Nations Conference on Sustainable Development (Rio+20) in Rio de Janeiro, Member States decided to develop a new set of goals to build upon the MDGs.
- The SDGs were born from this effort, aiming to address urgent environmental, political, and economic challenges globally.
- Unlike the MDGs, which focused primarily on poverty and health, the SDGs cover a **broader range of issues**, including climate change, gender equality, and peace.
- The SDGs are a call to shift the world toward a **more sustainable path, emphasizing interconnectedness and holistic development.**

The Sustainable Development Goals (SDGs) emerged as a successor to the Millennium Development Goals (MDGs).





The concept of “sustainable development” is about steering humanity toward a sustainable future that doesn’t deplete our natural resources.

The earth has enough resources to meet our present and future needs for development if we use them economically.

The Sustainable Development Goals (SDGs) aim to transform our world. They are a call to action to end poverty and inequality, protect the planet, and ensure that all people enjoy health, justice and prosperity. It is critical that no one is left behind.

These SDGs recognize that ending poverty and hunger is just as important as quality education, job opportunities, and infrastructure, in the quest to tackle climate change and preserve our oceans and forests.

By equipping young people with skills, knowledge, and confidence, we can harness their potential to achieve the SDGs.



# LEAVE NO ONE BEHIND

- Reaching out to the poorest of the poor.
- Combating discrimination and rising inequalities within and amongst countries, and their root causes.
- Say no to gender discrimination.

Those often left behind are people living in poverty and other vulnerable situations, including children, youth, persons with disabilities, people living with HIV/AIDS, older persons, indigenous peoples, refugees and internally displaced persons and migrants. Their voices must be heard, and their active participation as agents of change needs to be promoted.

Each goal typically has **8–12 targets (total of 169 targets)**, and each target has between **one and four indicators** used to measure progress toward reaching the targets, with the average of 1.5 indicators per target.



# DOES CHITKARA CONTRIBUTE?

## A LOOK AT THE SDGS ONE BY ONE



**End poverty  
in all its  
forms  
everywhere**



Challenges

Solutions

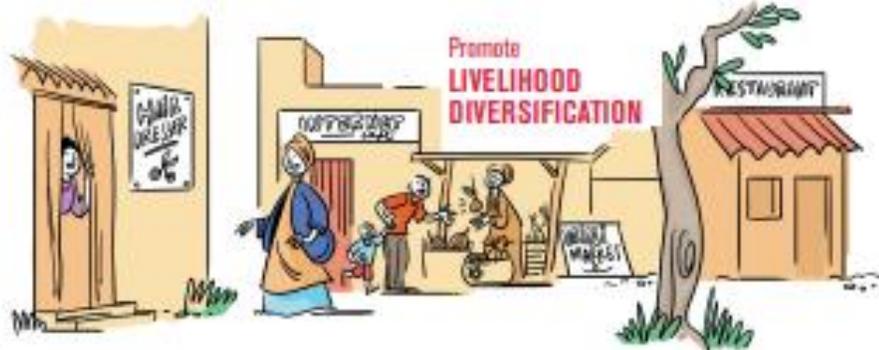
836 MILLION people still live in EXTREME POVERTY



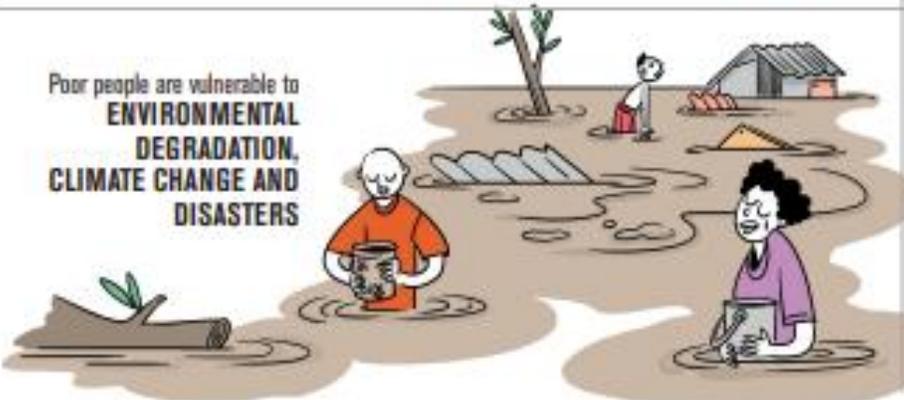
BUILD RESILIENCE of poor people so that they can live a dignified life



The poor strongly rely on NATURAL RESOURCES for their livelihoods



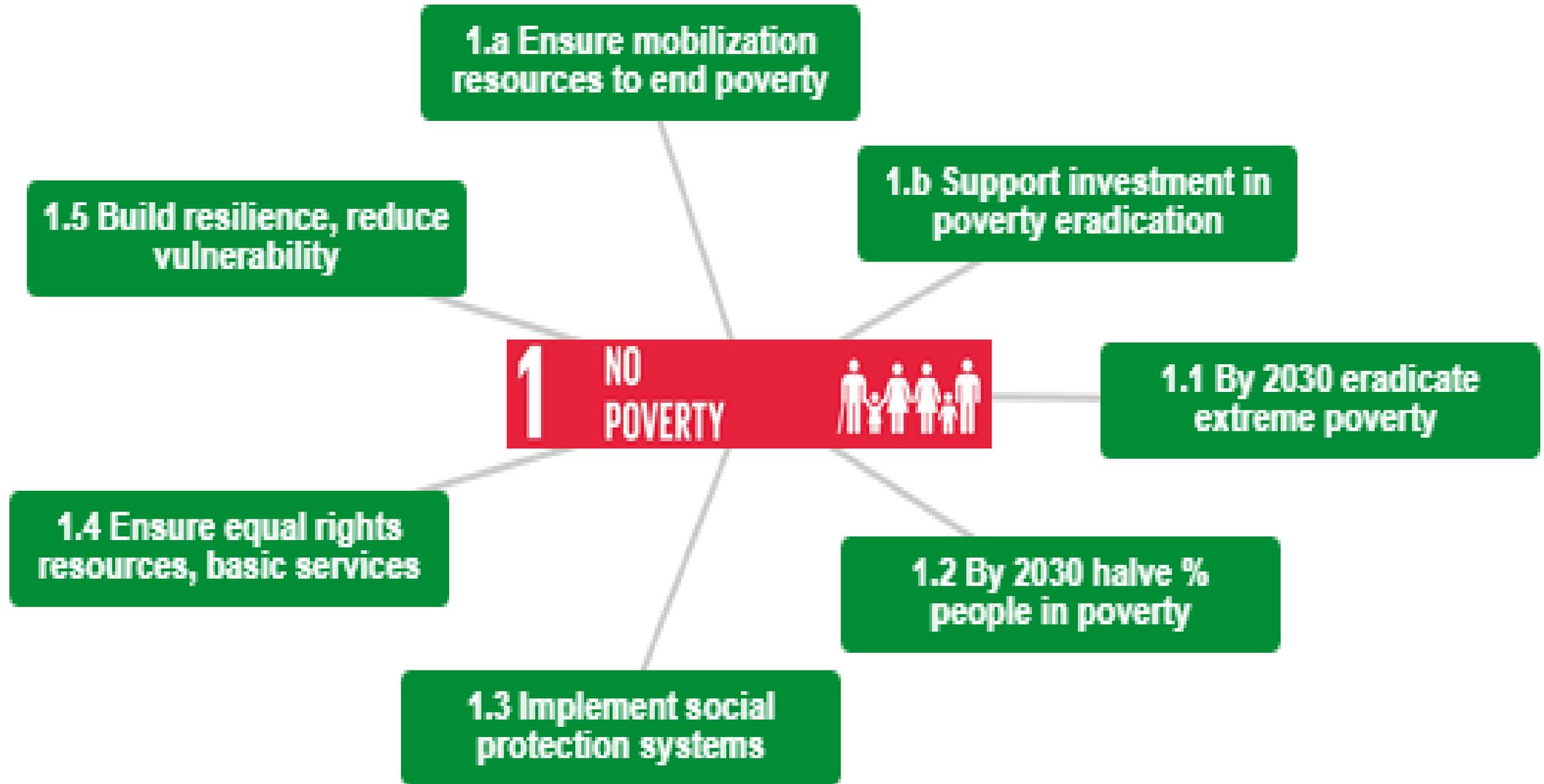
Promote LIVELIHOOD DIVERSIFICATION



Poor people are vulnerable to ENVIRONMENTAL DEGRADATION, CLIMATE CHANGE AND DISASTERS



ADAPT TO CLIMATE CHANGE and REDUCE RISKS of disasters and shocks



Targets include reducing the proportion of people living in poverty, ensuring equal rights to economic resources, and implementing social protection systems.

# HOW CAN WE CONTRIBUTE

- Find a Goal 1 charity you want to support. Any donation, big or small, can make a difference!
- Donate what you don't use. Support campaigns and Local charities to share your gently used clothes, books and furniture a new life.
- **Education and Awareness** - HEIs can integrate SDG 1 into their curriculum, fostering awareness about poverty, its causes, and potential solutions. By educating students on poverty reduction strategies, HEIs empower future leaders to address this global challenge
- **Job Creation:** The private sector is a major provider of jobs worldwide. By actively creating employment opportunities, it can directly impact poverty alleviation. With stable jobs the economic condition improves and people can escape poverty.
- **Welfare Beyond Income:** Job creation not only increases income but also has broader welfare impacts. It can lead to improvements in education, health, and social well-being, benefiting individuals and communities, including women.

# OUR CONTRIBUTION

- Employment to local villagers – more than **30%** of our staff are from local villages
- Welfare of employees
- Facilitated placement of students from EWS of our adopted villages with Hyatt Dubai (AT NO COST)
- SILAI CENTRE at Jhansla – Adopted Village – training & employment of women – eradicates poverty
- SHARE & CARE Bins in hostels where students share their belongings with children of labor and nearby Villages
- Toys/ Clothes / Blankets/ Furniture donations to nearby villages / Offices/NGOs
- Scholarships to Students/ students who received financial aid because of poverty / Financial Support Scholarship Scheme for Economic weaker
- Earn While You Learn Support to Students

# ENTREPRENEURSHIP

## INCUBATOR PERFORMANCE

(July 2023 - June 2024)



**24+**  
Startups Registered

**95%**  
Startups from Tier 2 & 3 Cities

**100+**  
Employment through Startups

**4**  
Average Employees per Startup



**85%**  
Startups with Women Directors

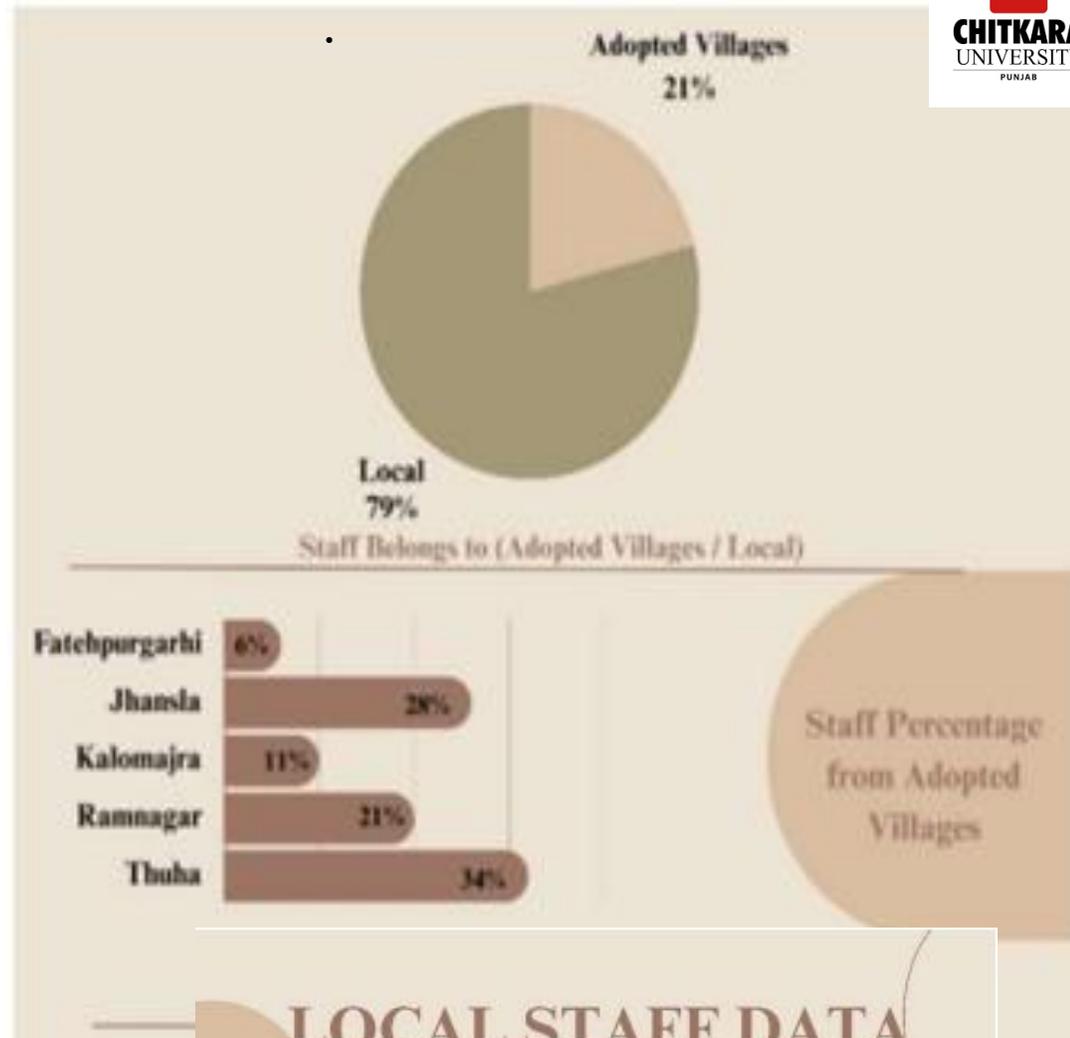
**21**  
Number of Women Directors

EARN WHILE YOU LEARN

# SCHOLARSHIPS



# LOCAL STAFF DEPLOYED



## LOCAL STAFF DATA

2024

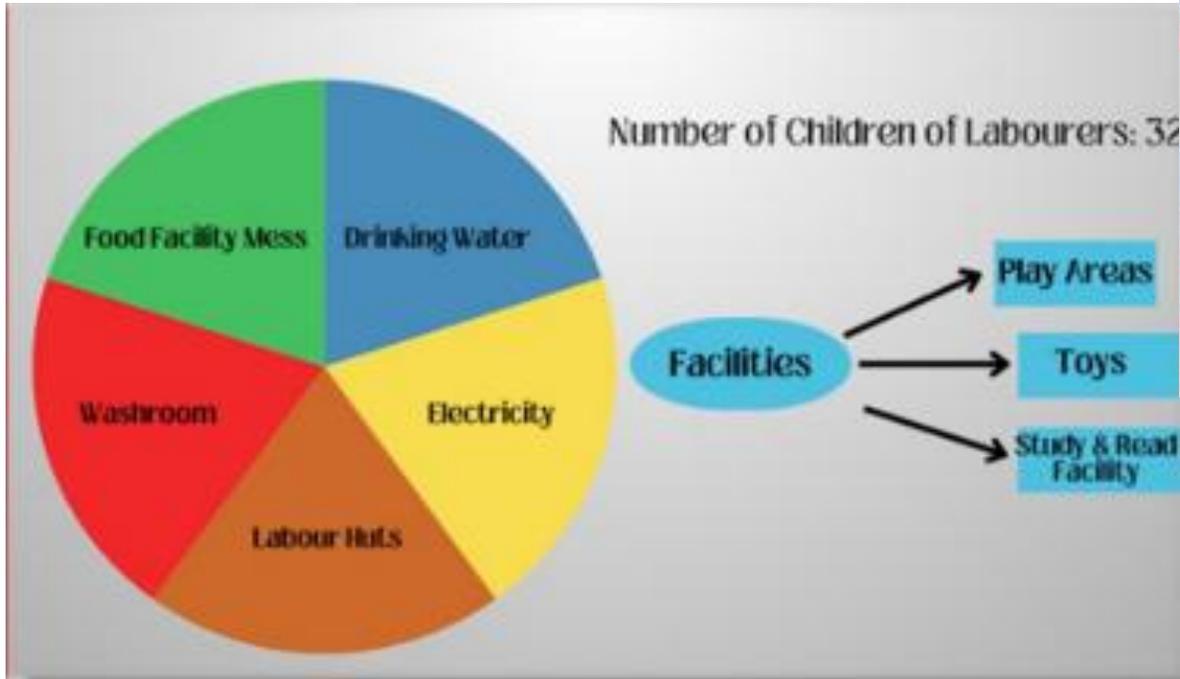
**200+**  
Local Staff

**05**  
Adopted Villages

## DONATIONS



## EMPLOYMENT OPPORTUNITY



# CARE FOR THE LABOUR FORCE



Silai Centre



Adopted 5 Villages



More than 30% local youth



Donate Furniture



**End hunger,  
achieve food  
security and  
improved  
nutrition and  
promote  
sustainable  
agriculture**

**2 ZERO  
HUNGER**





## Challenges

We live in a world where  
**1 IN 9 PEOPLE IS UNDERNOURISHED**



## Solutions

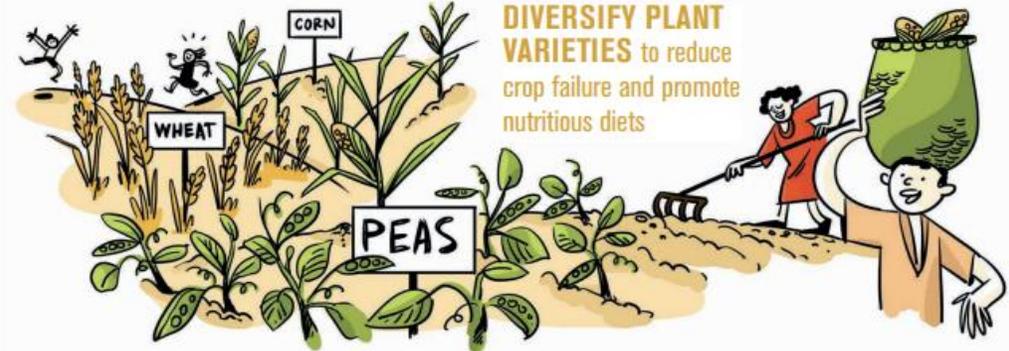
**INCREASE AGRICULTURAL PRODUCTIVITY** and  
**ENSURE EQUITABLE ACCESS** to food for all



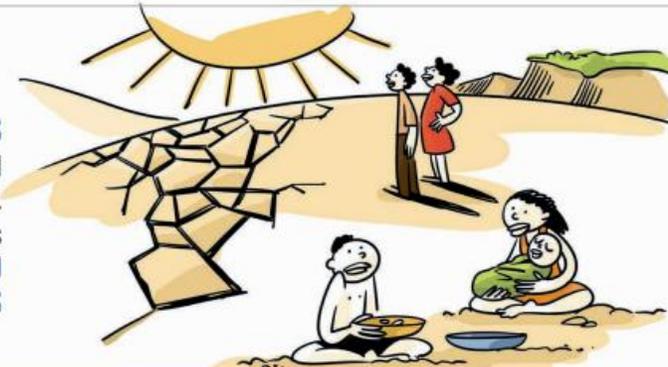
75% of crop diversity has been lost to  
**MONOCROP CULTURE** making crop more  
**VULNERABLE TO PEST OUTBREAKS AND DISEASES**



**DIVERSIFY PLANT VARIETIES** to reduce crop failure and promote nutritious diets

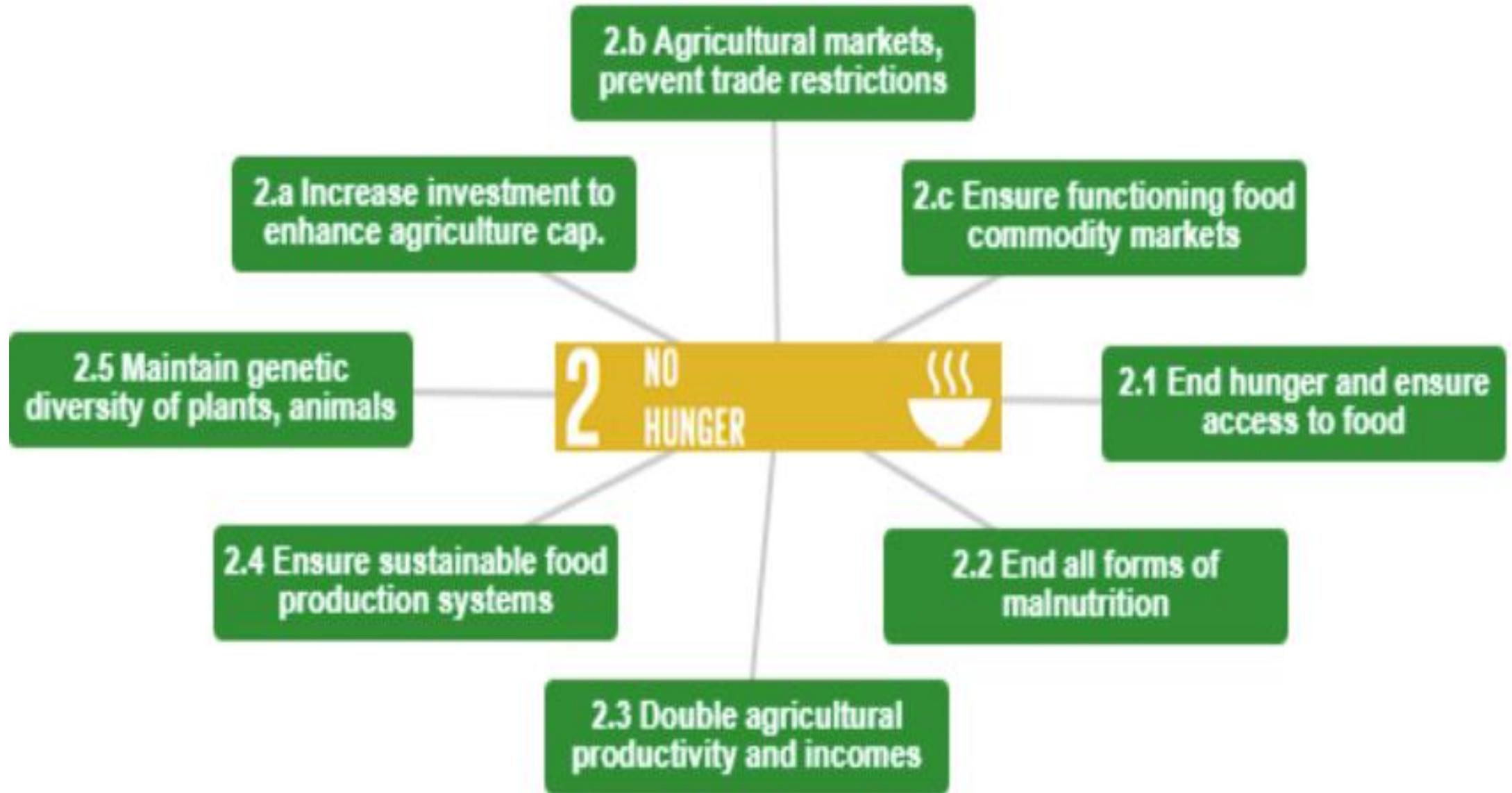


**SMALLHOLDER FARMERS** provide 80% of the food consumed in the developing world. Mostly rainfed their agriculture is particularly  
**VULNERABLE TO DROUGHTS AND FLOODS**



**INVEST IN SMALLHOLDER FARMERS** especially **WOMEN** to increase food security and improve nutrition for the poorest





Targets focus on ending hunger, achieving food security, promoting sustainable agriculture, and improving nutrition.



# OUR CONTRIBUTION



- Food Distribution to Labor for all celebrations
- Healthy food distribution for children of adopted villages
- **YELLOW POINT FARM –**
  - Training of Farmers and Corporate Training Programs
  - Mushroom Cultivation /Organic farming on campus
- **Cooking Sessions for Women – Including Pulses / Millets in routine cooking**
- **Healthy Food Competition**



REDMI NOTE 9 PRO  
AI QUAD CAMERA



# YELLOW POINT FARM



- DIWALI COMMUNITY LUNCH

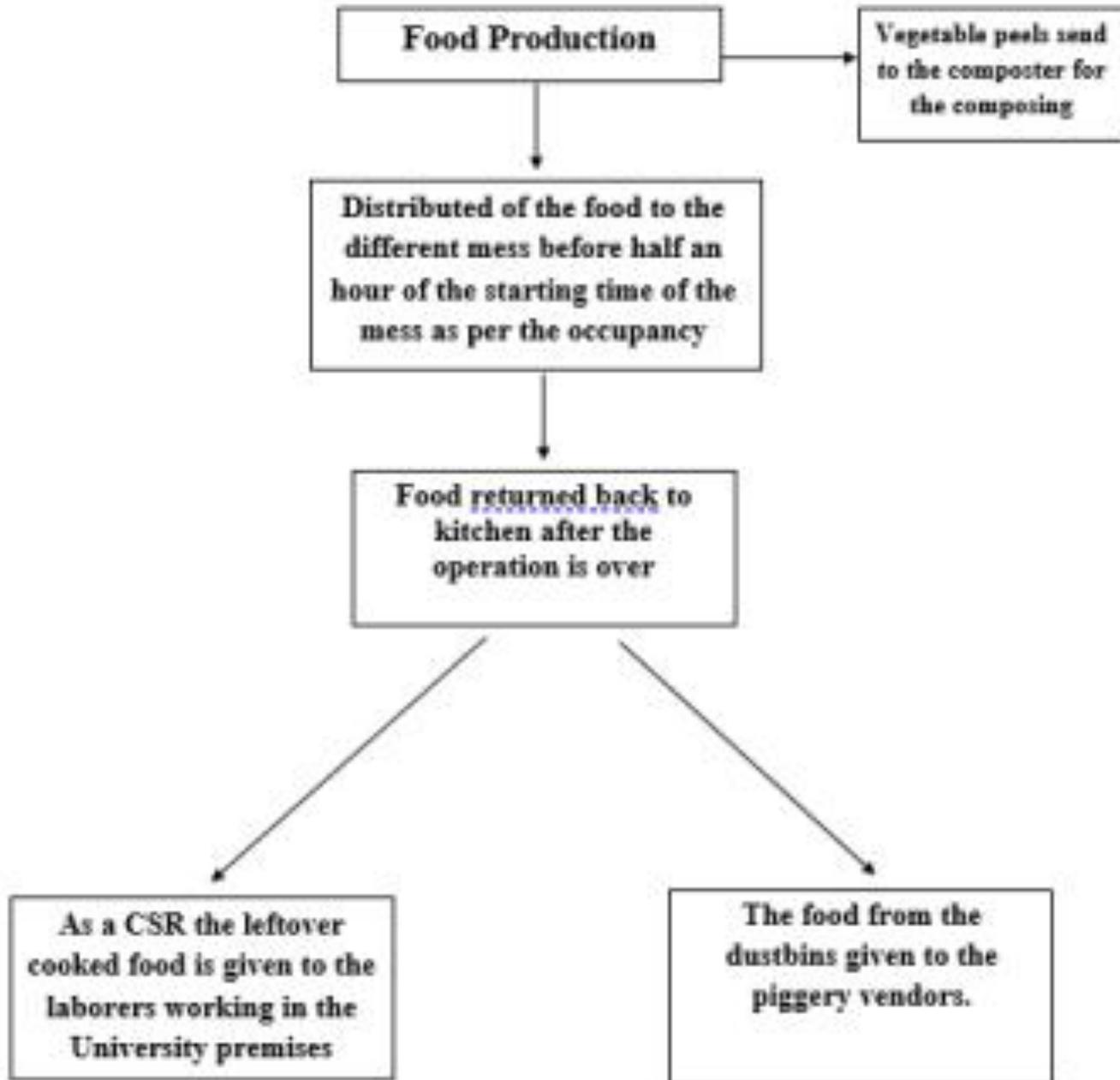
# Food Distribution Campaigns



Mushroom Cultivation



Healthy Diet to Children



## GREEN PLATE INITIATIVE

• In this year the various messes of the hostels have contributed food to more than 1745 families of labor. This food is not “wasted” but offered to the labor families turn wise. We proudly name this initiative the “Green Plate Initiative”!!

**Ensure  
healthy lives  
and promote  
well-being for  
all at all ages**

**3 GOOD HEALTH  
AND WELL-BEING**



**Challenges**

**Solutions**

**ENVIRONMENTAL FACTORS KILL MILLIONS OF PEOPLE** every year causing nearly one quarter of all deaths worldwide



**AVOID AND REDUCE POLLUTION** to prevent millions of premature deaths every year

**POLLUTION, CHEMICAL EXPOSURE, CLIMATE CHANGE, and ULTRAVIOLET RADIATION** contribute to more than **100 DISEASES** affecting primarily young children and elder people

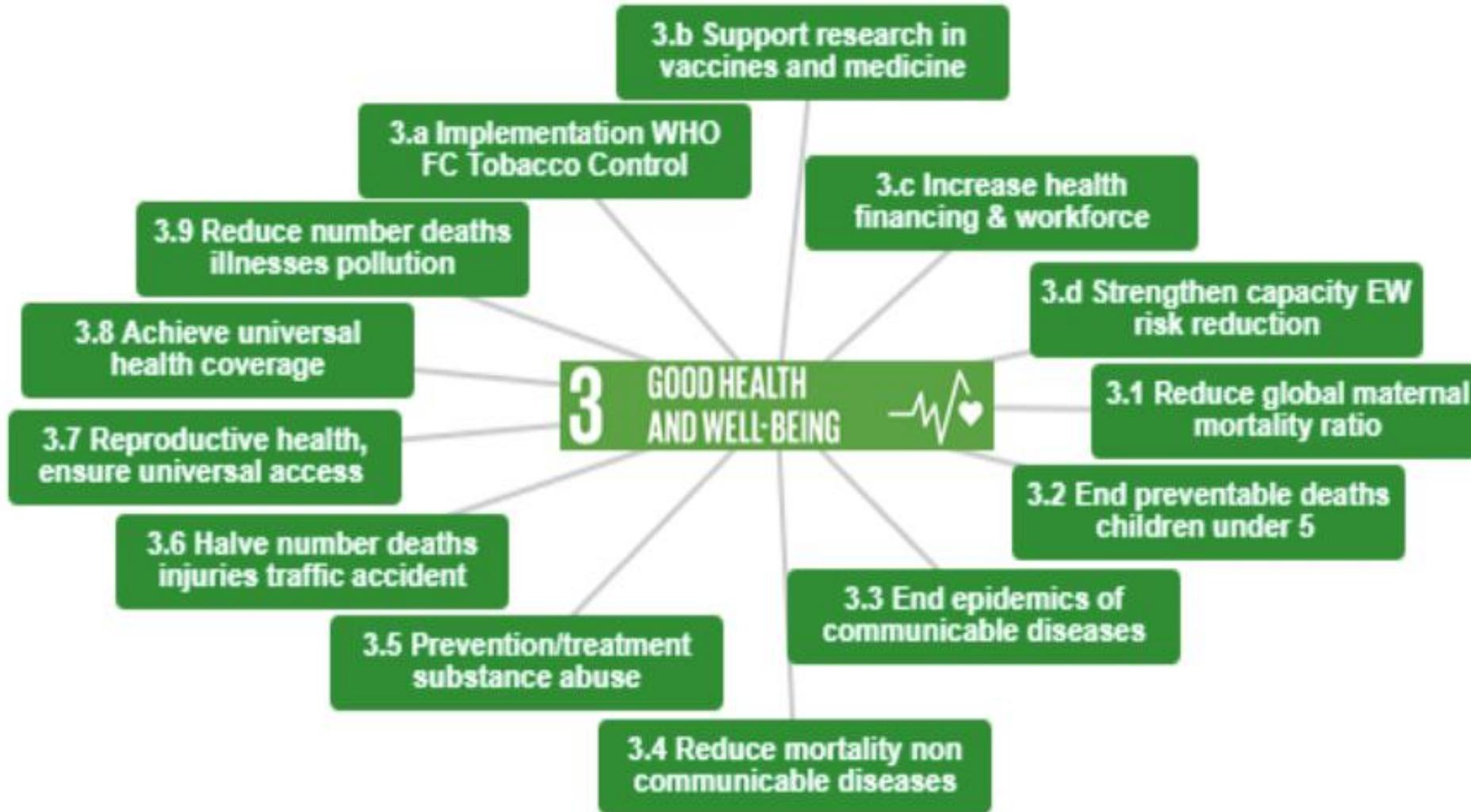


Work with energy, transport, agriculture and industry sectors to **CREATE A HEALTHIER ENVIRONMENT**

**AIR POLLUTION** is the world's largest environmental health risk killing 6.5 million people prematurely every year



**ADOPT CLEANER ENERGY** to reduce indoor and outdoor air pollution and save millions of lives

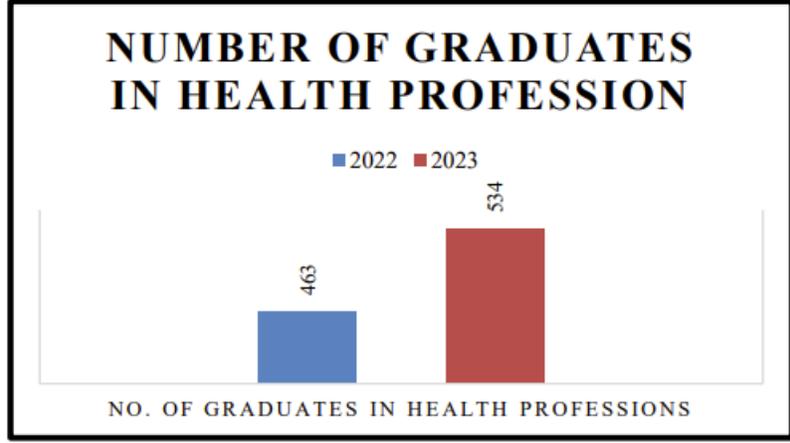
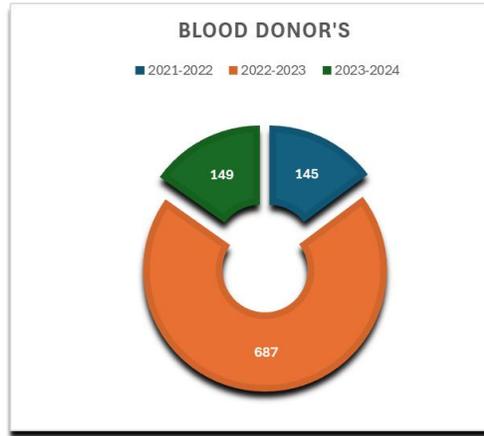


Targets cover areas such as reducing maternal and child mortality, combating major diseases, and ensuring universal health coverage.



# OUR CONTRIBUTION

- Health Camps for Villagers, expecting mothers and children, and workforce of campus /Eye- Checkup camps, Awareness on Eye Donation / Talks on Developmental Psychology / Nurturing Newborns
- Radio Talks on health-related topics including diabetes/ rheumatism / obesity / breast feeding etc., - Helps Society
- Center For Happiness
- Counselling Cell
- Creche for Employee Wards
- Blood Donations Camps organized
- Herbal Garden
- Dispensary facility for staff and students
- Sessions for Workforce on Mental Health / Events for Workforce
- Session on CPR and First Aid for Staff and Students
- To stay fit - Sports Activities for students of adopted Villages and our students as well as for workforce



Outreach programs and projects in the local community to improve or promote health well-being = 20  
 Collaborations with local, national or global health institutes = 2  
 Collaboration with local, national or global hospitals = 3  
 Number of research publications related to SDG 3 = 440.

Medical checkup for women and children of adopted villages (Women and children with lack of access to healthcare die each day from preventable diseases such as measles and tuberculosis or in childbirth.)

# HAPPINESS CENTRE

Our Happiness Centre promotes well-being of staff and students through various activities and different courses under Skillverse.

- ✓ 12 specialized courses under Skillverse.
- ✓ More than 4000 students benefited annually.
- ✓ More than 45 well-being sessions annually.
- ✓ More than 500 staff benefited annually.





## **NURTURE NEST – OUR COUNSELING CELL ON CAMPUS**

- More than 1300 individual sessions annually
- More than 30 group sessions annually
- Over 8000 Students counselled annually
- More than 12 staff sessions conducted annually

## NURTURING THE PASSION OF STUDENTS

The Office of Student Affairs (OSA) at Chitkara University, Punjab, is dedicated to enhancing the student experience by providing a platform for holistic development and personal growth. Central to this mission is the Chitkara Cultural and Social Society (C2S2), which comprises various vibrant clubs that cater to the diverse interests of our students.

## CRECHE FACILITY





## SPORTS FOR HOLISTIC DEVELOPMENT

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**Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all**

**4 QUALITY EDUCATION**



**Challenges**

**Solutions**

**103 MILLION** youth worldwide **LACK BASIC LITERACY SKILLS.** More than **60%** are **WOMEN**



**LACK OF ACCESS TO BASIC SERVICES** such as water and electricity prevent children, especially **GIRLS**, from going to school



**NATURAL DISASTERS** such as floods and droughts can lead to children dropping **OUT OF SCHOOL** for extended period of time



**PROMOTE EDUCATION FOR ALL** as a powerful tool to build sustainable and resilient societies

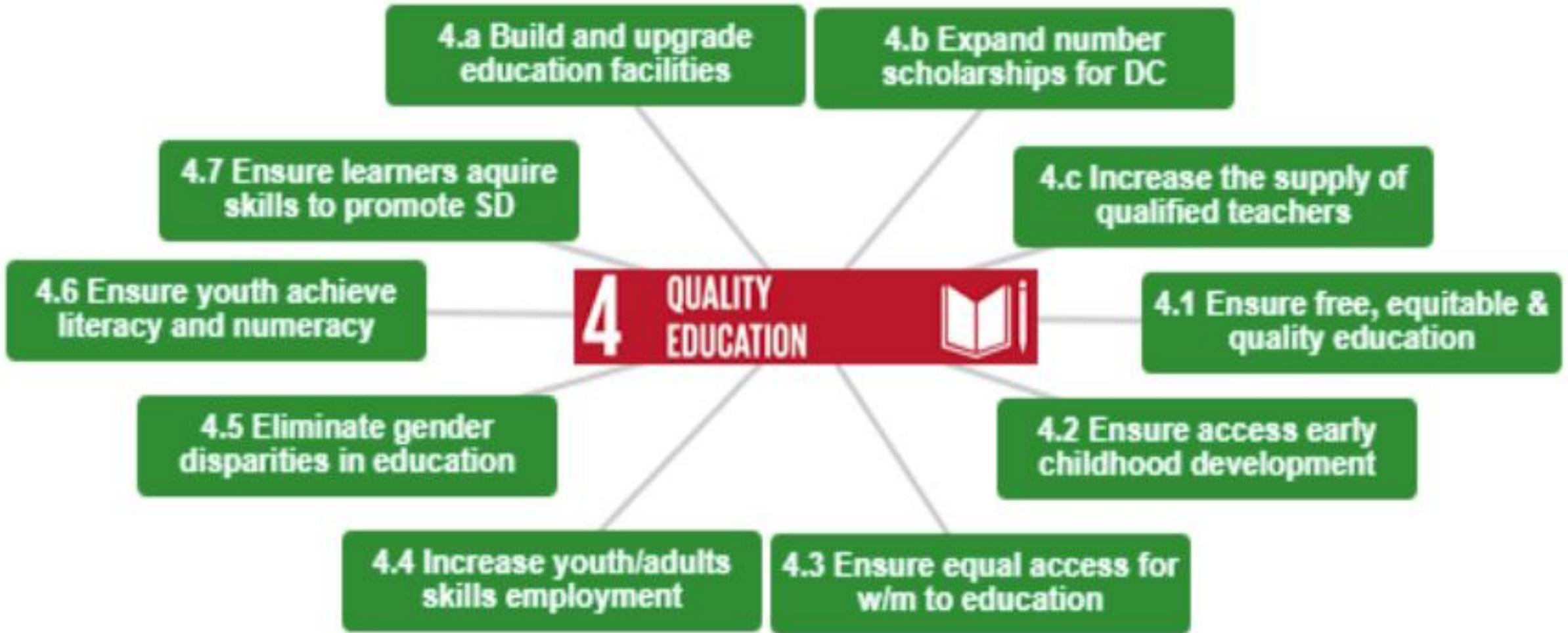


**IMPROVE ACCESS TO BASIC SERVICES** to free children's time so that they can go to school.



**BUILD RESILIENCE** to ensure children can go to school at all time, including during extreme climate events





Targets aim to ensure inclusive and equitable education, promote lifelong learning opportunities, and enhance literacy and numeracy skills.

- Technical and vocational skills, for employment, decent jobs and entrepreneurship
- **Target 4.5** By 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, **including persons with disabilities**, indigenous peoples and children in vulnerable situations.
- **Target 4.7** By 2030, ensure that all learners acquire the ***knowledge and skills needed to promote sustainable development***, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development
- **Target 4.A** Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, nonviolent, inclusive and effective learning environments for all

**Indicator 4.5.1:** Parity indices (female/male, rural/urban, bottom/top wealth quintile and others such as disability status, indigenous peoples and conflict-affected, as data become available) for all education indicators on this list that can be disaggregated

**Indicator 4.7.1:** Extent to which (i) global citizenship education and (ii) education for sustainable development, including gender equality and human rights, are mainstreamed at all levels in: (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment

**Indicator 4.A.1:** Proportion of schools with access to: (a) electricity; (b) the Internet for pedagogical purposes; (c) computers for pedagogical purposes; (d) adapted infrastructure and materials for students with disabilities; (e) basic drinking water; (f) single-sex basic sanitation facilities; and (g) basic handwashing facilities (as per the WASH indicator definitions)



# OUR CONTRIBUTION

## TARGET 4.A

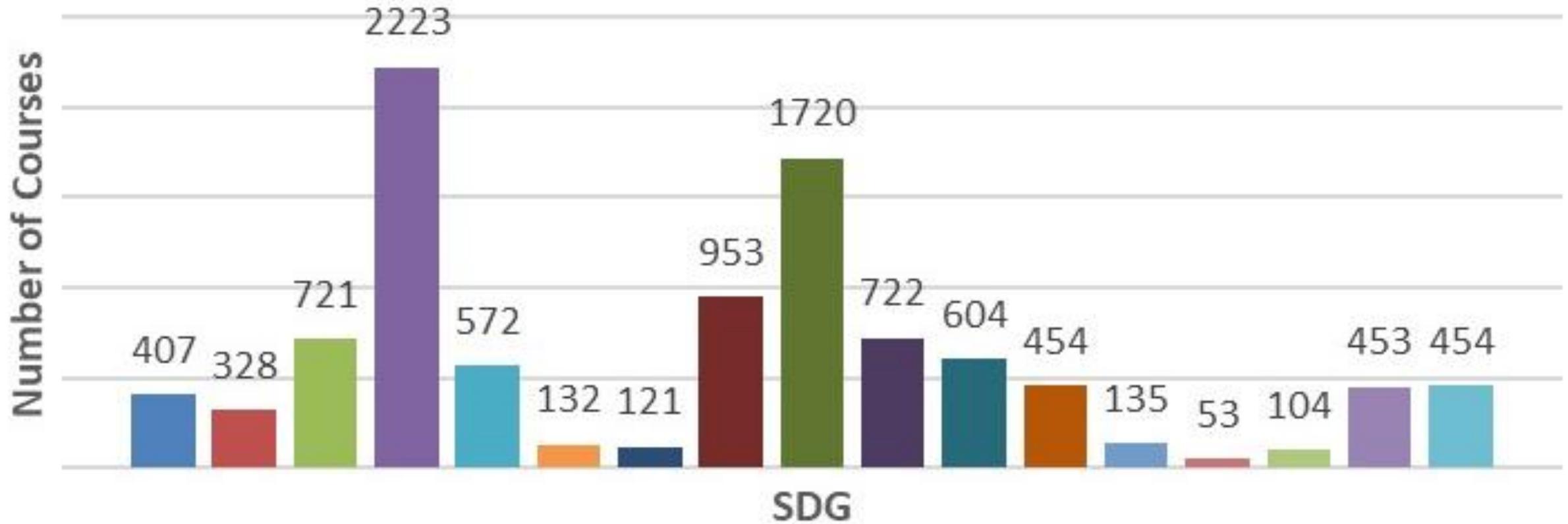
Sustainability is part of curriculum in many colleges

Global Week / Exchange Programs – International Faculty & Students

Collaborations for Quality education on Sustainability

	Academic Area	Residential Area	
Basic sanitation facilities			Incinerator Facility available Centrally / For every washroom – bins for collection of sanitary waste
No. of Divyangjan Washrooms	29	5	
Girl Students : Girls Washrooms	130	615	
Boys Students : Boys Washrooms	333	687	
Hand wash facility Available	591	1196	
Number of Taps for Drinking Water	143	322	
Common Rooms ( Girls /Boys)	15	0	
Parity for all students			
Computers & Internet Available for Pedagogy	YES	YES	
Electricity Available			
CCTV enabled Campus	419	537	
Lady Guards & Male Guards	4/97	35/55	

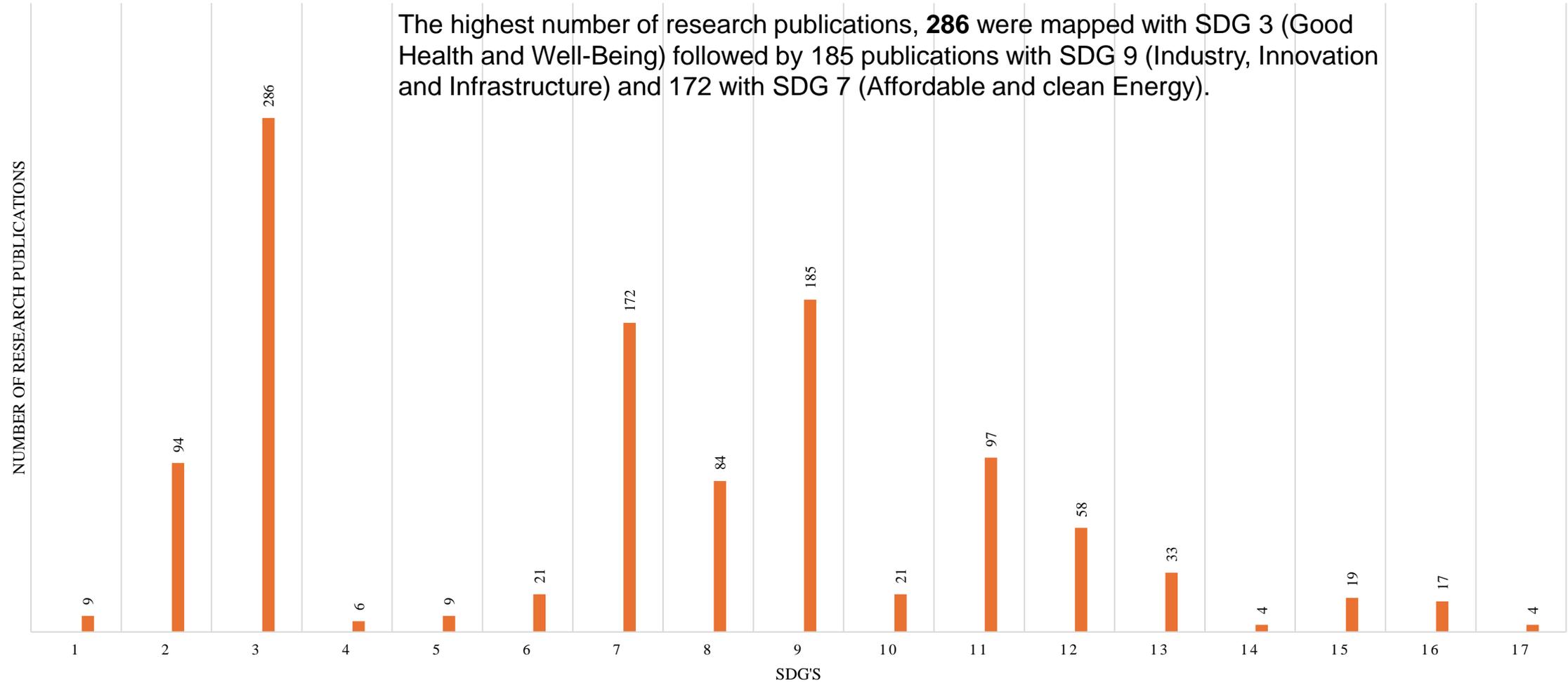
# Courses Mapped under SDG

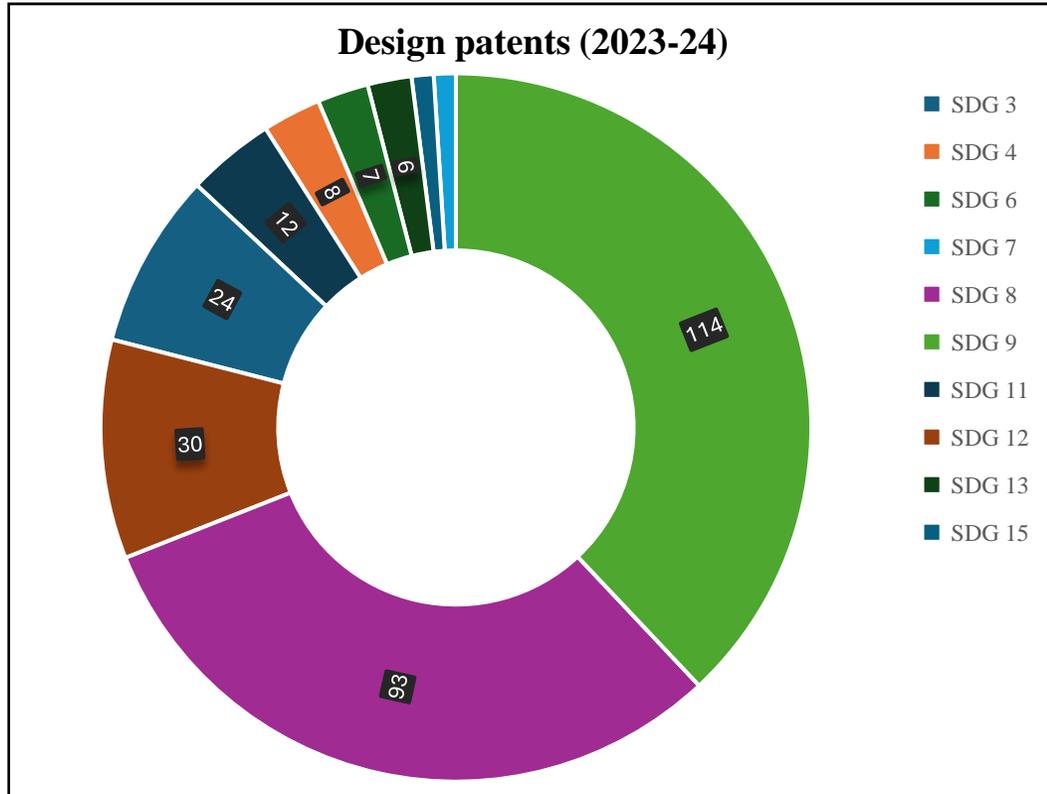


- SDG 1
- SDG 2
- SDG 3
- SDG 4
- SDG 5
- SDG 6
- SDG 7
- SDG 8
- SDG 9
- SDG 10
- SDG 11
- SDG 12
- SDG 13
- SDG 14
- SDG 15
- SDG 16
- SDG 17

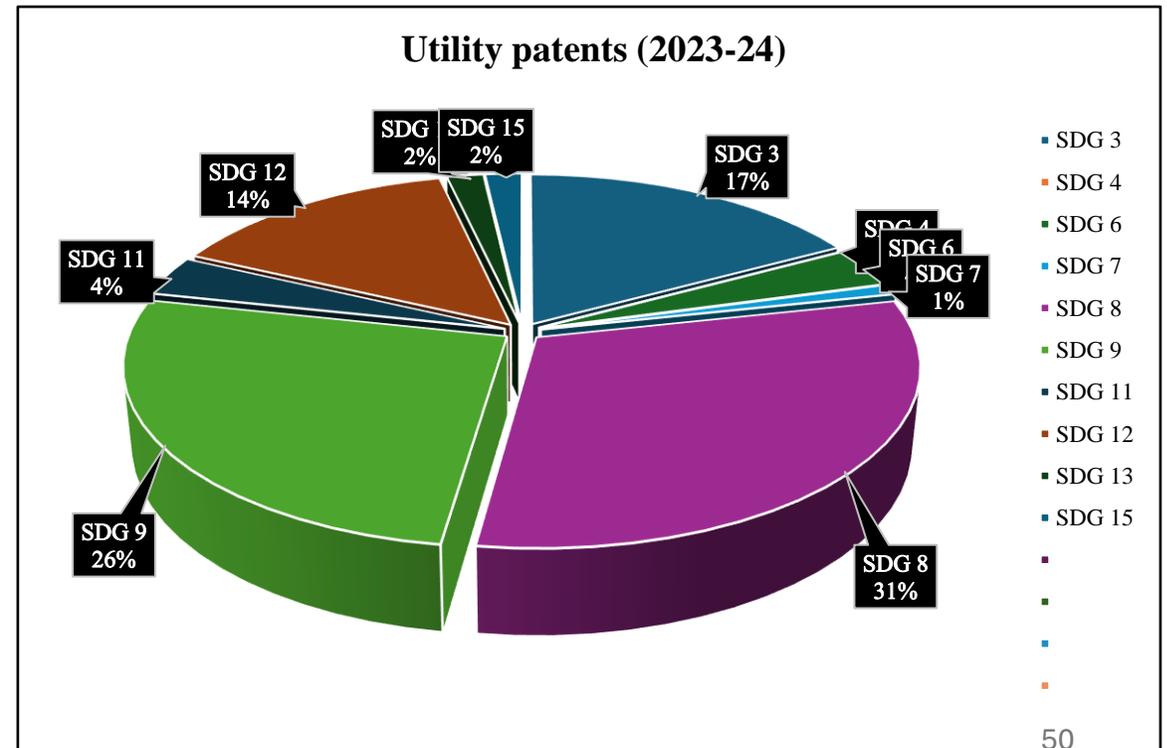
## RESEARCH PAPERS MAPPING SDG'S

2023-24





Total of 129 Design patents and 40 Utility patents were granted from 1st July 2023 to 29th Feb 2024.



# CORPORATE TRAINING PROGRAM

MAHINDRA & MAHINDRA LTD EMPLOYEES  
MI LIFESTYLE , KURUKSHETRA  
WORKSHOP FOR STUDENTS





**MINISTRY OF MSME DRIVEN MANAGEMENT DEVELOPMENT PROGRAM ON SUSTAINABLE & GREEN PRODUCTS**

**Achieve gender  
equality and  
empower all  
women and girls**





Challenges

Solutions

**WOMEN** are amongst the most vulnerable to **ENVIRONMENTAL DEGRADATION** and are particularly affected by **CLIMATE CHANGE** impacts



Recognize the important role played by women as **CUSTODIANS OF BIODIVERSITY AND COMMUNITIES' WELL-BEING**

**LACK OF ACCESS** to land, credits, agricultural inputs, and markets increase women's **VULNERABILITY TO EXTREME CLIMATE EVENTS**

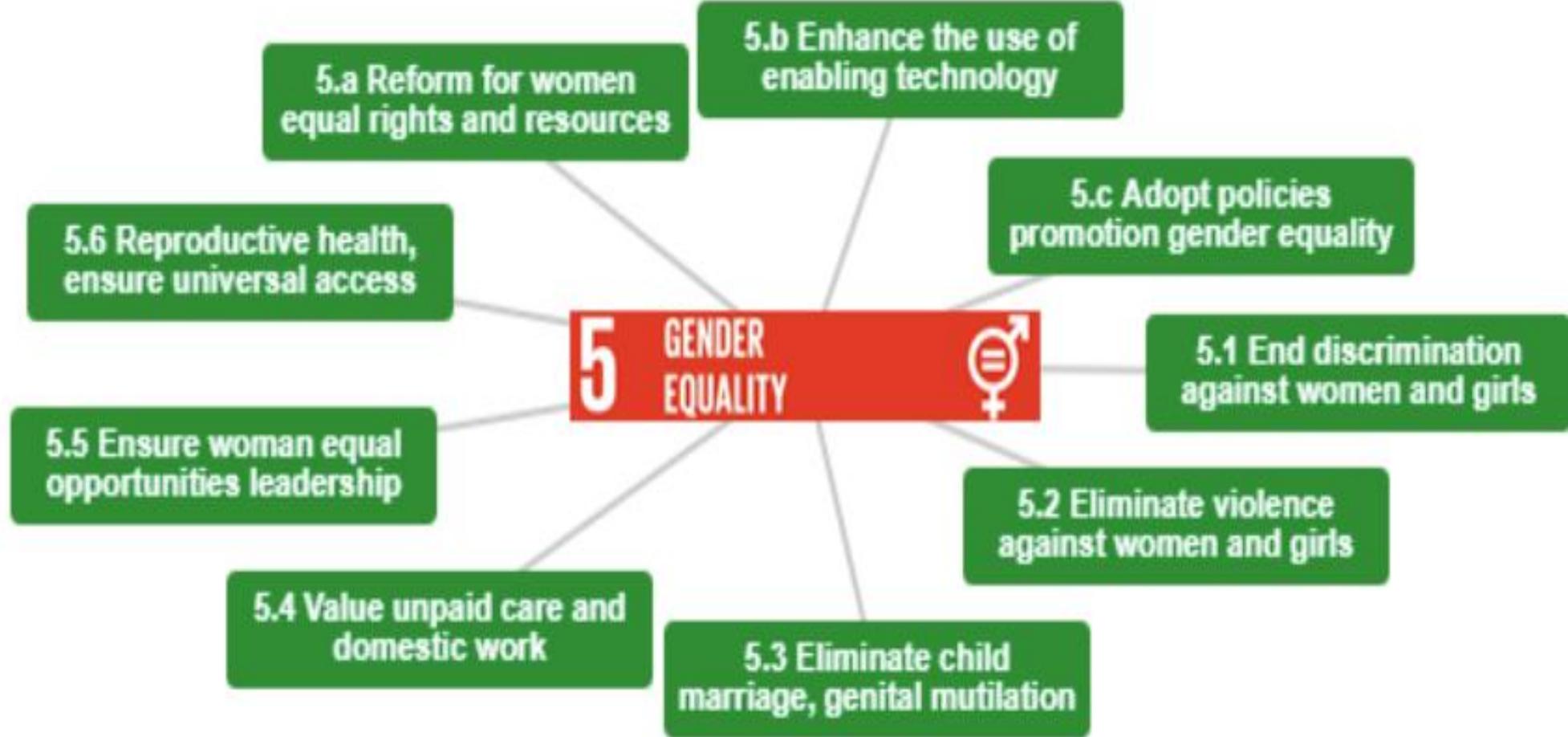


**SUPPORT EQUAL ACCESS** to land, agricultural inputs, financial services and education **FOR WOMEN** to build a more sustainable future for themselves, their family and community

Women are subject to **CULTURAL, LEGAL, POLITICAL AND FINANCIAL BIAS** preventing them from building their resilience



Put in place **GENDER FRIENDLY LAWS** and **INSTIL A CULTURE OF EQUALITY EMPOWERING** women to become powerful agents of change

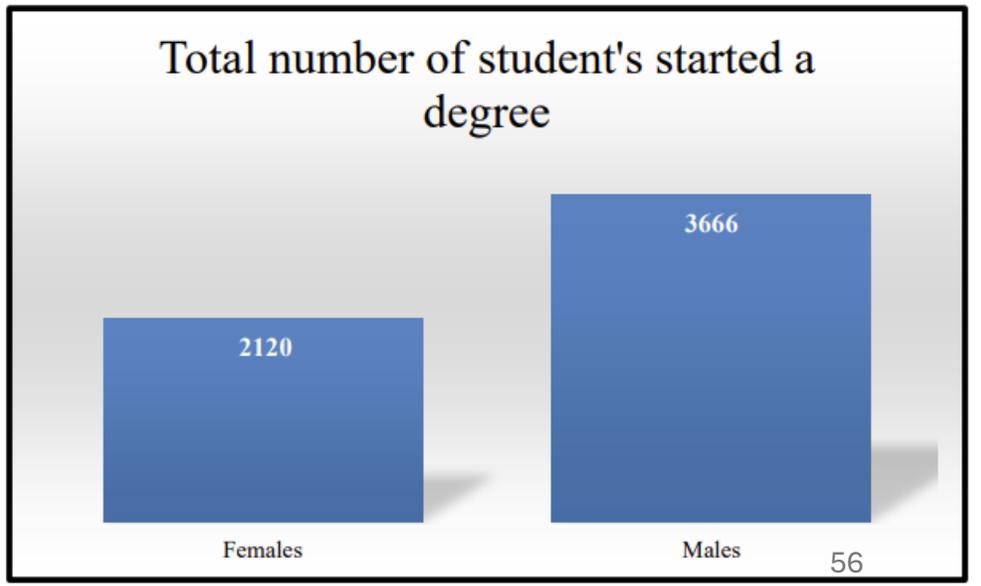
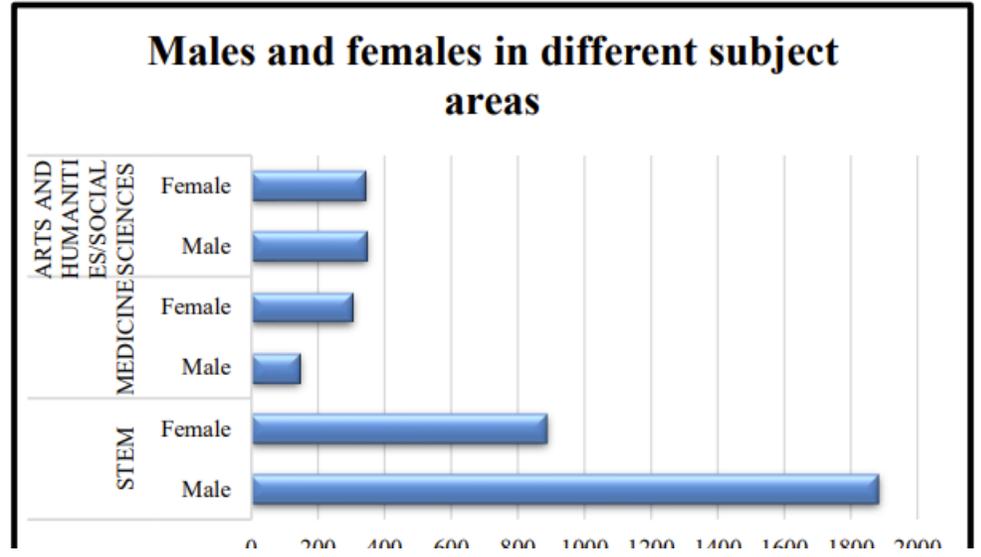


Targets include eliminating discrimination, ending violence against women, and ensuring equal participation in decision-making processes<sup>1</sup>.



# OUR CONTRIBUTION

1. Near perfect gender parity at all levels of students, faculty and Leadership
2. Sustainable livelihood to at least 500 unemployed / un-engaged women folk at grassroot level in adopted villages - Silai Centre – empowering women
3. Near perfect gender parity in STEM and Non-STEM related disciplines
4. Sessions of PoSH on Campus / Theme based Celebration of Women’s Day
5. Yellow Point Farms – Employment for women
6. Facilities for Girl Students / Common Rooms on campus
7. Women’s Day celebrations
8. STI Hub
9. CCTV cameras





# Objectives of ICC

## Core Objectives of Internal Committee



## ENSURING SAFETY AND SUPPORT FOR WOMEN WORKFORCE

Chitkara University values its women workforce, comprising nearly 50% of the staff, by providing a safe and supportive environment. The campus is equipped with CCTV surveillance, and women are informed about accessible avenues to seek help when needed.



## FOOTBALL CLUB TOURNAMENT FOR WOMEN

University Sports Board, Chitkara University, organized the 'Football Club Tournament for Women', aiming to foster harmony and a healthy sporting environment. The competition showcased the remarkable power of grit, passion, and resilience among the female players.



**Ensure  
access to  
water and  
sanitation for  
all**

**6 CLEAN WATER  
AND SANITATION**



**Challenges**

**UNSAFE WATER, INADEQUATE SANITATION and INSUFFICIENT HYGIENE** kill 3.5 million people every year



80% of **WASTEWATER** is released the environment **UNTREATED**. Degrade the environment and you destroy **NATURE'S ABILITY TO PROVIDE SAFE DRINKING WATER**



**WATER SCARCITY** affects more than 40% of the global population



**Solutions**

**STOP DUMPING CHEMICALS AND WASTE** into the environment, **INVEST IN SANITATION** and **RAISE AWARENESS** on best hygiene practices



**PROTECT NATURAL RESOURCES** and avoid water pollution



**RESTORE ECOSYSTEMS** to secure access to safe water







# OUR CONTRIBUTION

- Spreading Awareness
- Research on Water
- Increased Ground Water Level with RWH pits(now 11 – 8 more expected)
- Water Filter and Coolers
- Water Testing
- Water Testing – STI HUB for local Villages and training for Work Force
- Sanitation schedules
- Aerators Check for taps
- Water Leaks – Topmost Priority Checks

# Awareness



Make all People within and outside campus within 500 sq Km area aware about importance of clean water and sanitation



Chitkara University  
Central Instrumentation Facility

Document No. CUCI/TFP  
Date: 11-04-2024

**TEST REPORT**

Customer's Name and address:  
Chitkara University, (FBI)  
Kind Attn: Capt. Ravinder Singh

Sample receipt date: 08-04-2024  
Date of Testing: 09-04-2024  
Report Issue Date: 11-04-2024  
Reference No.: 11-2024  
Location of testing: CUCI, Building Block (C3)  
Name of work: Chemical Testing

**SAMPLE PARTICULARS**

Description of sample	Liquid
Sample quantity	500 ml
Sample condition	Test and fit for testing
Sample identification No.	24C W/SQA/002
Sample collected/ submitted/ drawn by	Mr. Jankinder Singh
Location/ source of sample	Indoor Swillars/Sperantium/WC-2, Chitkara University (FBI)
Sampling procedure	NA
Type of testing	Chemical Testing
Environmental conditions during sampling	Temperature: 25°C Humidity: >25%

**TEST RESULTS**

S. No.	Parameter	Test used	Unit	Test Result	Acceptable Range	Parametrisable	Essentiality in measurement
01	pH	IS:3025	-	7.80	6.5 - 8.5	No Rejection	0.18
02	TDS (Total Dissolved Solids)	IS:3025	mg/L	489	500	2000	0.02

Chandigarh-Patna National Highway (NH- 64) Village Jhanda, Rajpura, Punjab 148001

Chitkara University  
Central Instrumentation Facility

Sl. No.	Test	Standard	mg/L	200	600	0.04	
03	Total Hardness	IS:3025 Part 21: 2019	mg/L	200	600	0.04	
04	Alkalinity	IS:3025 Part 21: 2019	mg/L	200	600	0.0158	
05	Calcium	IS:3025 Part 21: 2019	mg/L	15.33	30	200	0.48
06	Fluoride	IS:3025 Part 21: 2019	mg/L	1.33	1.0	1.8	0.02
07	Residual Free Chlorine	IS:3025 Part 21: 2019	mg/L	0	0.2	1.0	0.03
08	Specific Conductance	IS:3025 Part 14: 2013	µS/cm	75.30	-	-	0.3
09	Potassium	IS:3025 Part 45: 2018	mg/L	0.83	-	-	0.046
10	Sodium	IS:3025 Part 45: 2018	mg/L	143	-	-	0.025

Remarks/opinion: The alkalinity and fluoride are slightly higher and other given parameters are within acceptable limit.

Authorized signatory  
Name: Dr. Jyotsna Arora/Dr. Vally Chitkara/Dr. Jyotsna Puri/Dr. Chitkara/Patna National Highway Rajpura Punjab India-148001

Name of the Laboratory: Chitkara University Central Instrumentation Facility (CUCI/TFP)  
Document Name: Test report format for Chemical Testing of Water  
Issue No: 00  
Issue Date: 02/06/2021  
Approval No: 00  
Approval date: N/A  
Copy No: 01/01  
Section No: 01/01  
Page No: 01

Chandigarh-Patna National Highway (NH- 64) Village Jhanda, Rajpura, Punjab 148001



# SDG 6 CLEAN WATER & SANITATION

## Monitoring and Tracking

### Documentation of Water Bodies



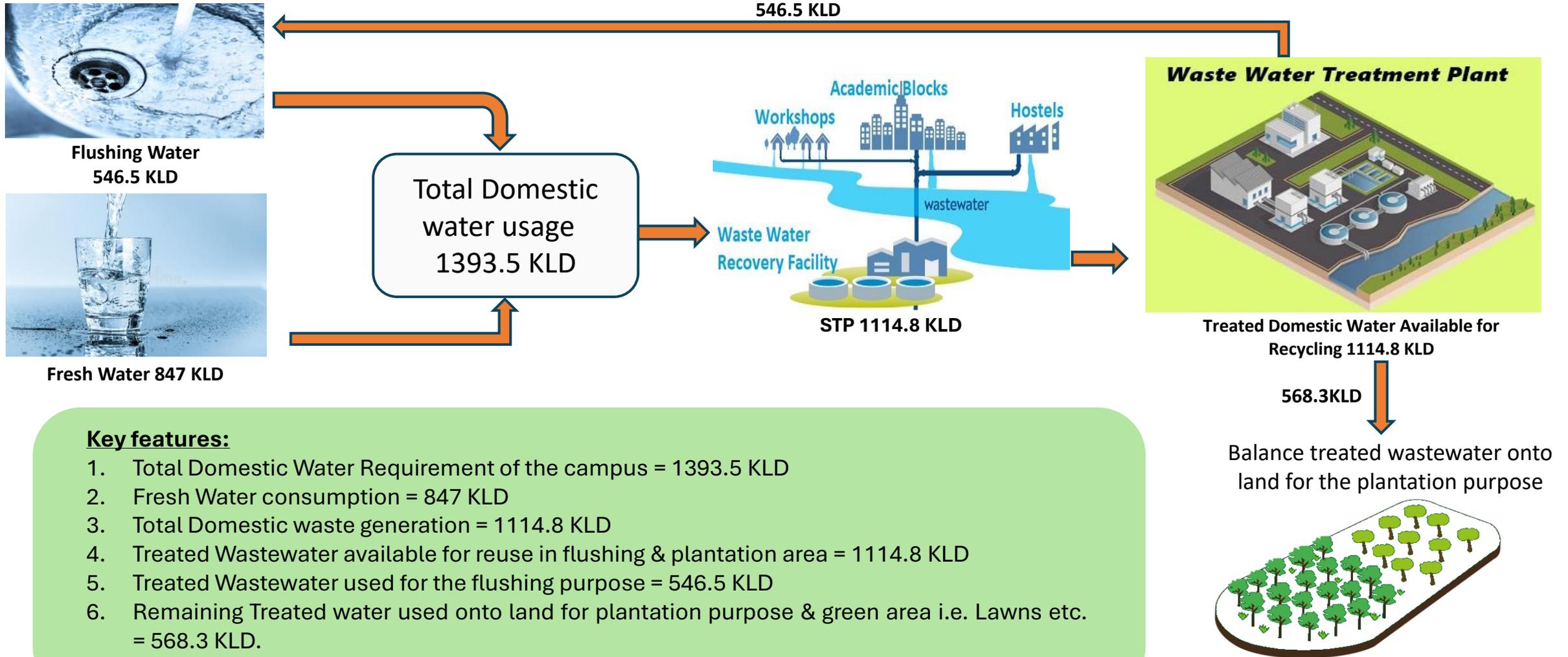
A 02 year Joint research project between **Department of Architecture, Tokyo University of Science, Japan** and **Chitkara School of Planning and Architecture, Chitkara university-Punjab, India.**

With an **aim of establishing sustainable sensibilities and understanding the wisdom of ancient technologies**, the proposed Comparative Studies seek to investigate the role of individual components and **overall structure of water management systems** as important determinants of the evolution and structuring of traditional urban settlements.

Document all data related to water bodies in and around 500 sqkm of the campus

# Monitoring and Tracking

## Water and Wastewater Balance (Quantities in KLD)



### Key features:

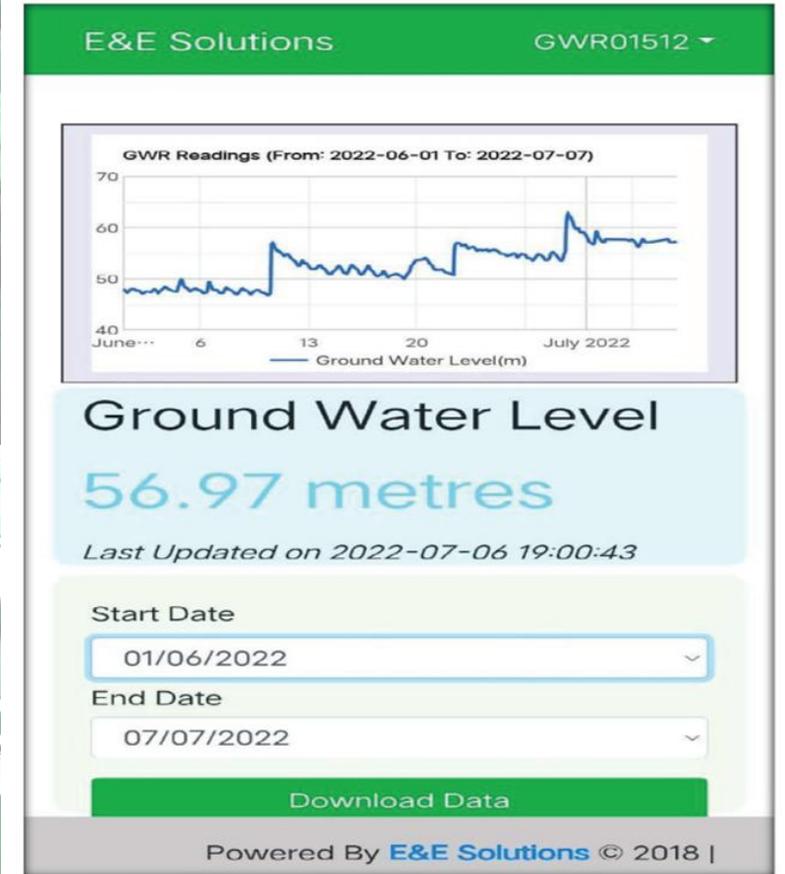
1. Total Domestic Water Requirement of the campus = 1393.5 KLD
2. Fresh Water consumption = 847 KLD
3. Total Domestic waste generation = 1114.8 KLD
4. Treated Wastewater available for reuse in flushing & plantation area = 1114.8 KLD
5. Treated Wastewater used for the flushing purpose = 546.5 KLD
6. Remaining Treated water used onto land for plantation purpose & green area i.e. Lawns etc. = 568.3 KLD.

# Water purification lab for research

*Lab to land scale experiments: Phytoremediation Lab*



## Piezometer Reading



Prepare data analytics related to water quality in and around 500 sq km of the campus

90% of Used Water  
is treated

100% of Treated  
Water is used

- Horticulture
- Double Plumbing

Sprinklers are used,  
increased 5 units  
this year

Drip Irrigation  
increased by 25  
units

Karnal Technology-  
additional land  
included

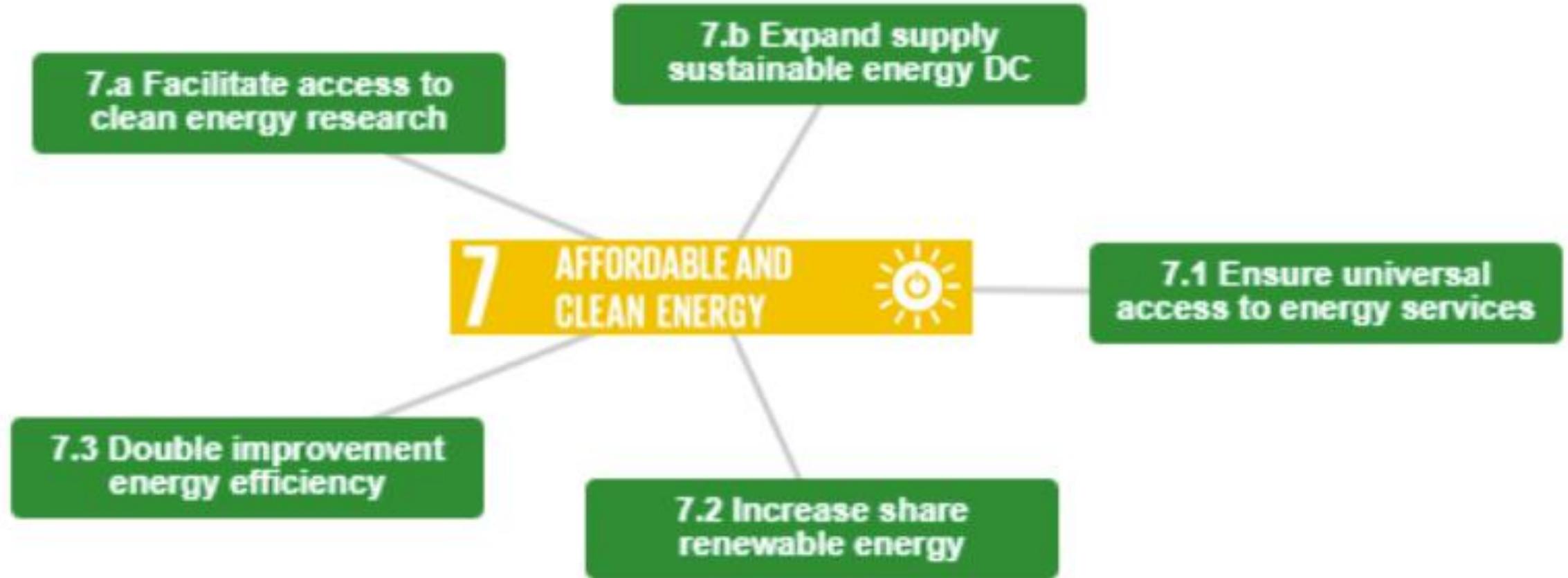
Rainwater  
Recharging pits on  
campus – Added 3  
more

Spreading  
awareness to  
villagers and  
taskforce



Ensure access to  
affordable, reliable,  
sustainable and  
clean energy for all





## Challenges

**ONE IN FIVE PEOPLE STILL LACK ACCESS TO MODERN ELECTRICITY** and three billion people rely on wood, charcoal or animal waste for cooking and eating



Every year **INDOOR AIR POLLUTION** kills 4.3 million people – most of them women and children



Energy provided by **FOSSIL FUELS** is the **MAIN CONTRIBUTOR OF CLIMATE CHANGE** representing 60% of all greenhouse gas



## Solutions

[sdqs.un.org](http://sdqs.un.org)

Ensure everyone has access to **CLEAN, AFFORDABLE, RELIABLE** and **MODERN ENERGY**



Invest in **RENEWABLE ENERGY** and disseminate its use



Put in place **ENERGY SAVING POLICIES**



# OUR CONTRIBUTION



- Sensor Based Energy Conservation /Motion based lights
- Solay System for Heating Water
- Solar Panels - Wheeling to the grid - Currently 850 kWp On Grid Solar Power Plant installed in the University Campus at various locations. / 150 kWp work is in progress at Rockefeller Block
- Energy Efficient Appliances / LEDs instead of bulbs / BLDC Fans /
- Battery Operated Golf Carts /Public Transport & Encouraged Car-pooling
- Centralized VRF Air-conditioning – (variable refrigerant flow is a technology that circulates only the minimum amount of refrigerant needed during a single heating or cooling period. )
- Solar Lounges – including the NEW one

Carbon reduction and emission reduction process is in place. The total carbon footprint of the campus is 1821.287 tCO<sub>2</sub>e.

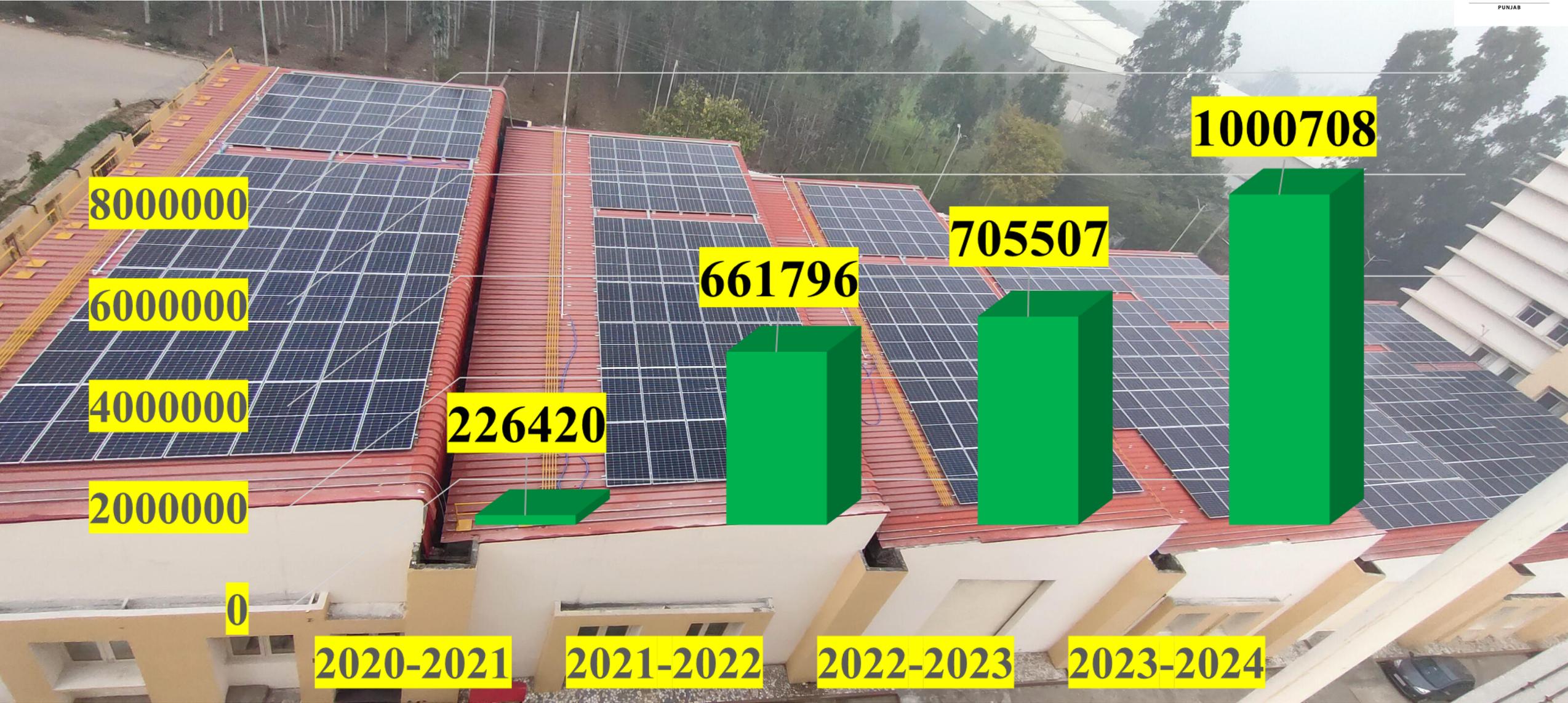
## ENERGY SAVING MEASURES AT CHITKARA UNIVERSITY

<b>SOLAR PANELS</b>	Installed solar panels with capacity of 850 KW.	Energy saving = 29%
<b>LED LIGHTS</b>	Replaced incandescent lights with more energy efficient LED lights.	Energy Saving = 50%
<b>BLDC CEILING FANS</b>	Replaced commercial ceiling fans with the Brushless DC ceiling fans.	Energy Saving = 36%
<b>VRF AIR CONDITIONING</b>	Replaced the duct able air conditioners with variable refrigerant flow.	Energy Saving = 28%
<b>BLDC EXHAUST FANS</b>	Replaced commercial exhaust fans with the Brushless DC exhaust fans.	Energy Saving = 72%
<b>HEAT PUMPS</b>	Replaced water heater tanks with the heat pumps.	Energy Saving = 81%

**Automatic Sensors have been installed on street lighting system, submersible pumps, motors, fountains etc.**



# Solar Power Generation Total 850 kWp



■ Total...

## **RETROFITTED E-BIKE**

A group of students from the DICE at Chitkara University, Rajpura, Punjab, successfully completed the Retrofitted E-Bike project under the guidance of Dr. Rajneesh Talwar. Funded by a grant from NewGen IEDC, the conversion process involved removing the petrol engine, installing an electric motor, battery, and controller, and introducing modern functionalities.



## **E-CYCLE**

The "E-Cycle" project focuses on creating a cost-effective, lightweight, and user-friendly electric bicycle powered by a BLDC motor and lithium battery. Key features include quick charging, GPS tracking, and the ability to pedal manually if the battery runs out. The electric bike provides an extended range, ease of use on uneven terrain, and requires no license or taxes. This eco-friendly transportation solution supports sustainable practices and offers a practical, modern alternative for daily commuting.



## **WHEEL CHAIR CUM SOLAR E-TRICYCLE**

The "Wheelchair Cum Solar E-Tricycle," developed by Chitkara University's Department of Interdisciplinary Courses in Engineering (DICE), is an innovative mobility solution for individuals with disabilities. It repurposes scrap materials and uses solar power, offering an eco-friendly and sustainable alternative to traditional wheelchairs. The solar-powered roof provides energy for mobility and acts as a protective shelter, enhancing the independence and quality of life for users while promoting renewable energy and sustainable transportation.



## SOLAR LOUNGE



# PUBLIC TRANSPORT



**650 STAFF USE PUBLIC  
TRANSPORT**



**ENVIRONMENT SAVED  
CO2 EMISSIONS**



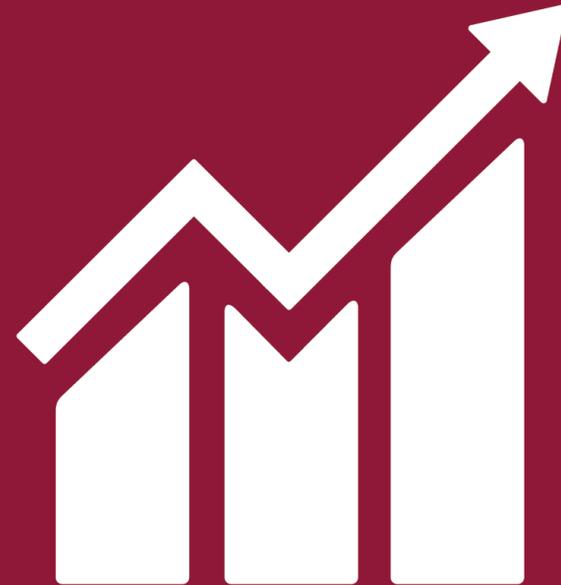
**COMFORT OF TRAVEL  
TO STAFF**

One car – 40 kms – 121.3 CO<sub>2</sub> per km = 4852 gms per day  
One Car – 26 days = 126152 gms  
650 cars X 126152 = **81998800 gms of CO<sub>2</sub>**

**Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.**

**8**

**DECENT WORK AND  
ECONOMIC GROWTH**





**Challenges**

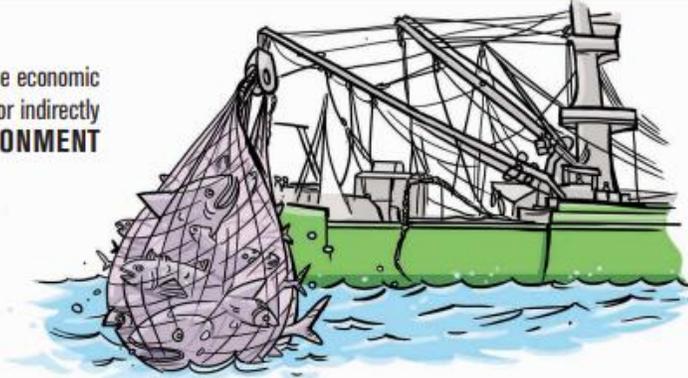
**UNEMPLOYMENT**  
is on the rise around  
the world



Roughly **HALF OF THE**  
**WORLD** population still  
lives on **\$2 PER DAY**



Some economic  
activities directly or indirectly  
**HARM THE ENVIRONMENT**



**Solutions**

**PROVIDE**  
**EMPLOYMENT**  
**OPPORTUNITIES AND**  
**DECENT WORK** for  
women and men to  
eradicate poverty



**CREATE GREEN**  
**JOB**s to provide  
work for the 470  
million who will be  
entering the labour  
market by 2030



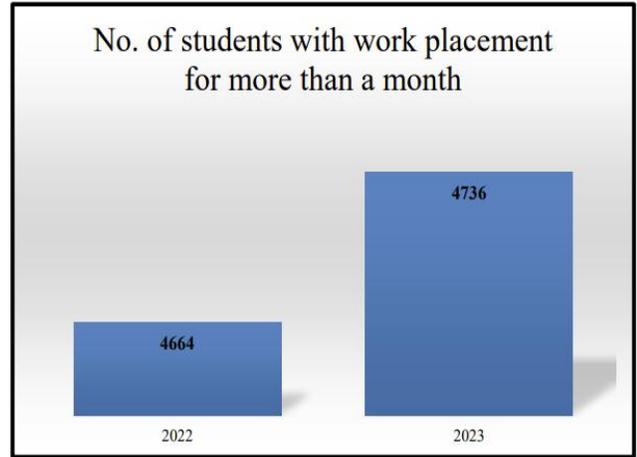
**PROMOTE GREEN**  
**GROWTH AND**  
**JOB**s contributing to  
restoring and protecting  
the environment and  
natural resources

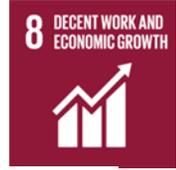
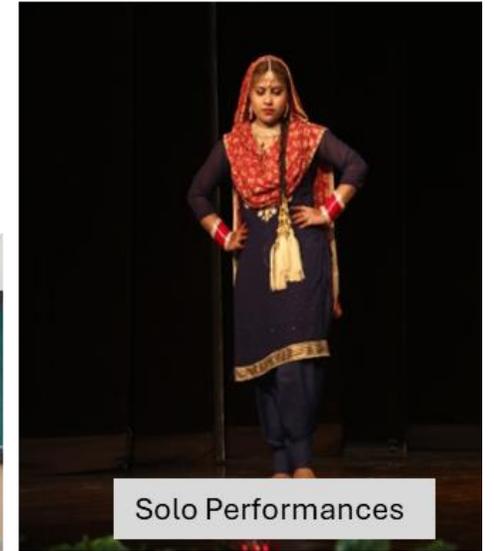




# OUR CONTRIBUTION

- Employees from local villages –
- Decent work / Increase in salary
- CULS, FDPs, Faculty & Staff offered
- Facilities to Learn and Upgrade further
- For growth – Staff Development Programs / facilities including carpentry workshops/ plumbing labs / welding workshops / computer courses/ personality development and soft skills/ Service Etiquettes/Etiquettes for drivers etc.,
- Contractual Labour from local villages
- Silai Center provides decent work for women
- Yellow Point Farm give employment to labour (including women)





TRAINING (GROWTH) , WELFARE & OPPORTUNITIES TO EXPLORE THEIR POTENTIAL with

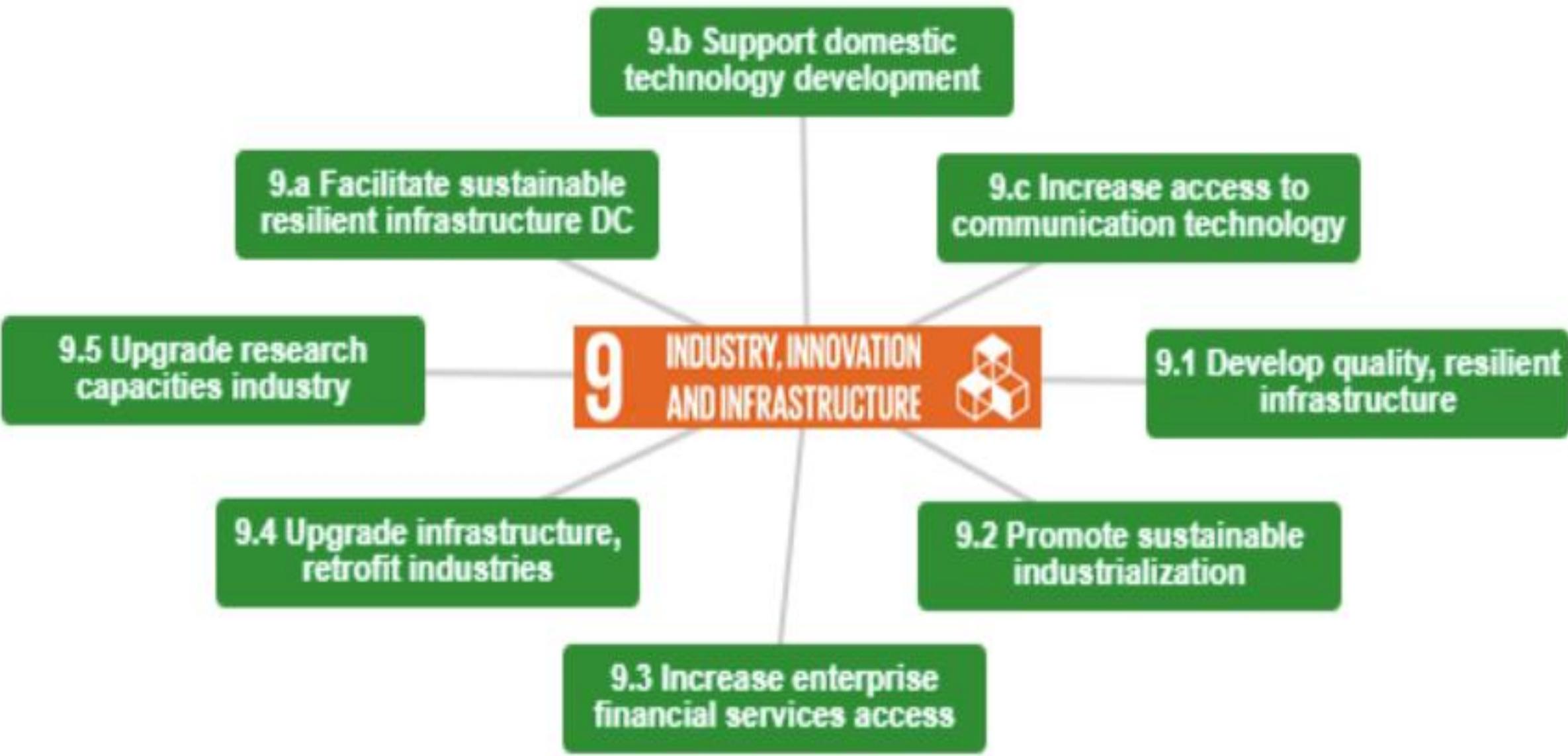
**INTERDISCIPLINARY COLLABORATIONS**



Build resilient  
infrastructure,  
promote sustainable  
industrialization and  
foster innovation

# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE





**Challenges**

**Solutions**

Many countries  
**LACK BASIC** and  
**RESILIENT**  
INFRASTRUCTURE



**INVEST IN  
INFRASTRUCTURE**  
fostering sustainable  
growth and development

Poor infrastructure is a major  
**BARRIER FOR THRIVING  
BUSINESSES**



**INNOVATE** to  
make **GREEN  
INFRASTRUCTURE**,  
increase **ENERGY  
EFFICIENCY** and  
reduce their adverse  
environmental impact

Infrastructure and  
industrialization often cause  
**ENVIRONMENTAL  
DEGRADATION**



**BUILD RESILIENT  
INFRASTRUCTURE**  
protecting livelihoods  
against environmental  
and natural disasters

# OUR CONTRIBUTION

- Green Campus
- Green Building
- Energy Efficiency Measures
- Water Saving Measures
- Green Procurement
- Towards Zero Waste
- Towards Zero Emission



### Green Building – Industry Partners

20% - Total Energy saving  
ASHRAE standards 90.1-2010  
Base case

#### RENEWABLE ENERGY

- 30% of total energy is generated using solar energy



- 100 % Roof area covered with Heat reflective tiles with SRI >78

#### WATER CONSERVATION

- 18% of average peak month rainfall of upto 250 mm
- Water closets with 2 LPF
- Urinals with 0.5 LPF
- Faucets with 4 LPM
- 32% drought tolerant/native/ adaptive species.
- 100 % treated water – recycled for landscaping and flushing purpose



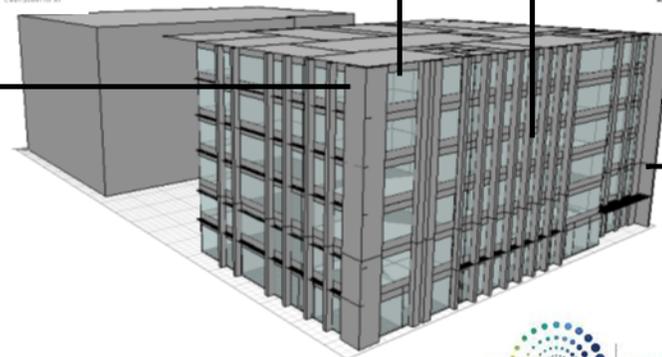
65% energy saving



#### HVAC

- 24% energy reduction over ASHRAE standards 90.1-2010 Base case
- Variable Refrigerant flow (VRF)
- COP – 4.1
- CFC – free refrigerants
- BLDC fans

#### Simulation



#### LIGHTING

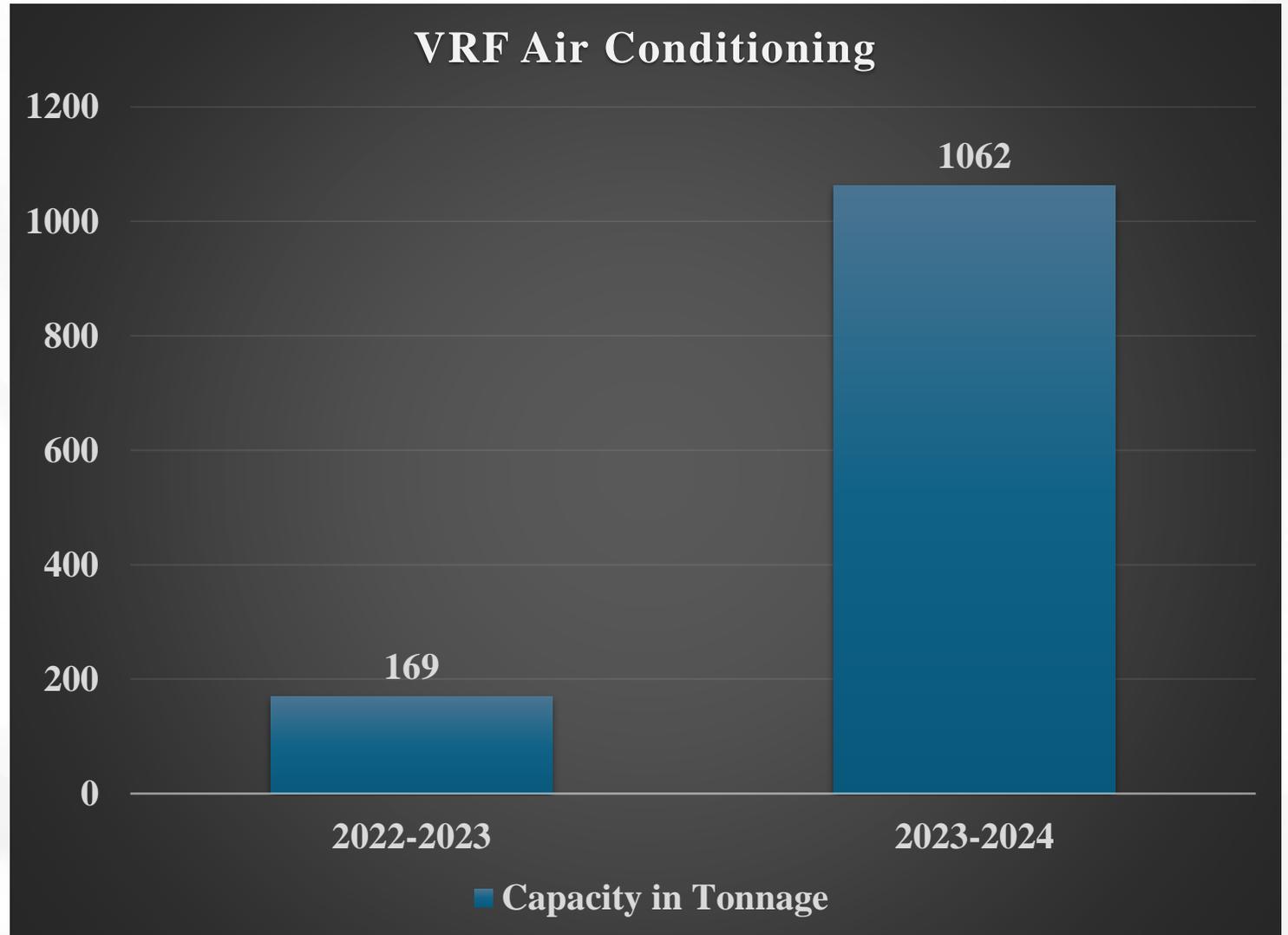
- Equipment power density
- Office area – 1 W/ft<sup>2</sup>
- Classroom – 2 W/ft<sup>2</sup>
- Pantry – 1.5 W/ft<sup>2</sup>
- Seminar hall - 2.5 W/ft<sup>2</sup>
- 35% reduction in building interior, exterior and parking area lightning.
- 65% - floor area with daylight level between 110 to 2200 lux

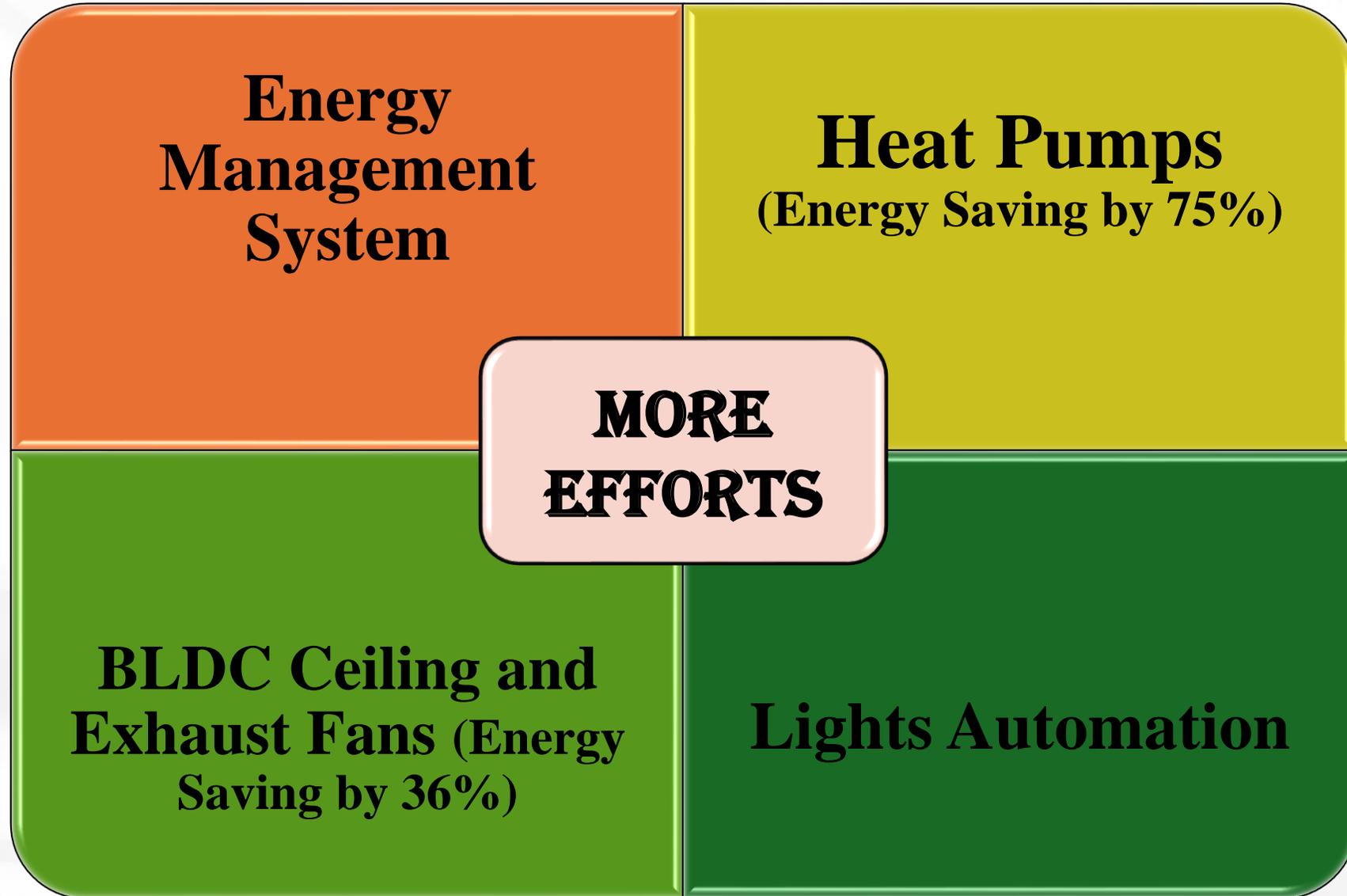


# VRF Air Conditioner



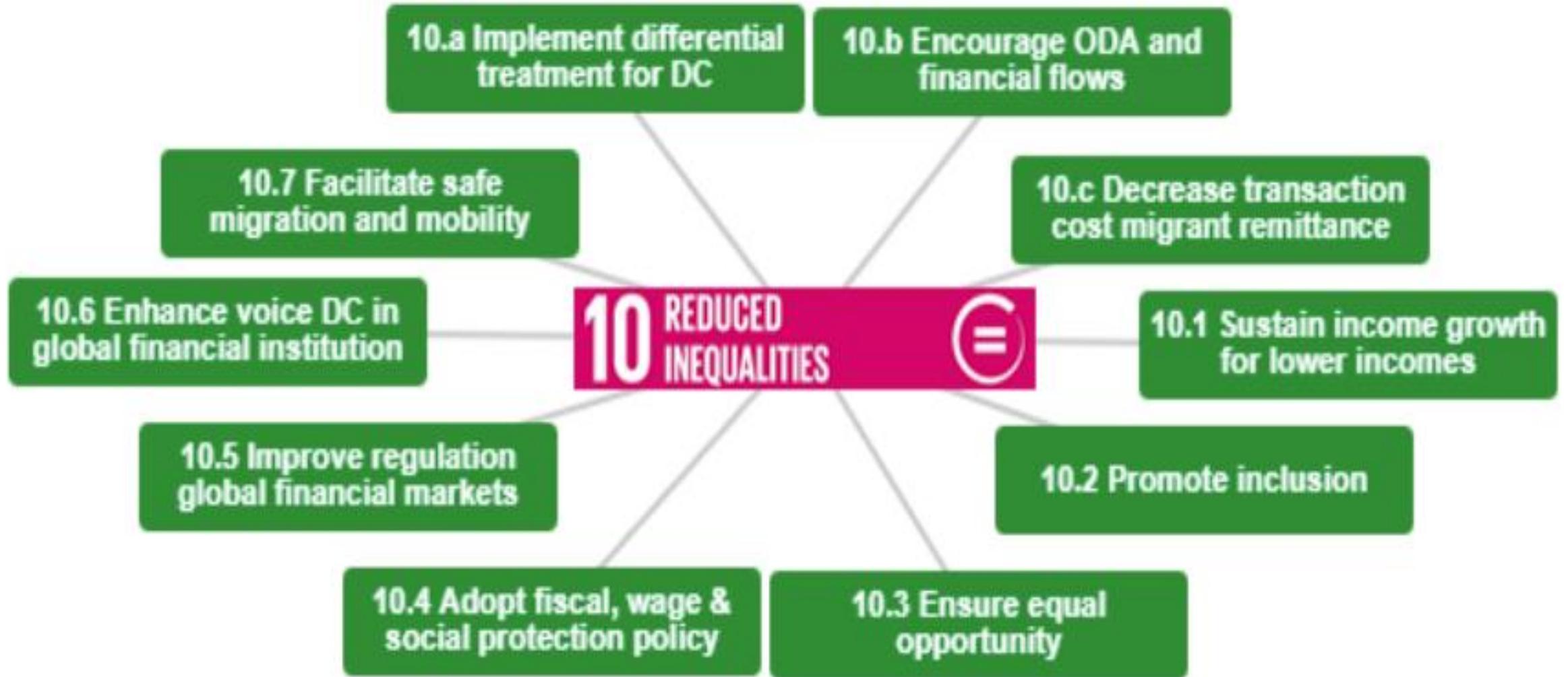
**\*Savings up to 28% using this technology**





Reduce inequality within  
and among countries





Challenges

**EXPLOITATION OF NATURAL RESOURCES** is a contributor to **INEQUALITY** fueling **CONFLICTS** worldwide



Solutions



**INVEST IN SOUND AND FAIR MANAGEMENT OF NATURAL RESOURCES** to reduce inequalities

**CLIMATE CHANGE AND DISASTERS** have a dire impact on the poorest and vulnerable groups and contribute to **EXACERBATE EXISTING INEQUALITIES** within and across countries



**PROMOTE INSTITUTIONAL ARRANGEMENTS** providing **EQUAL AND FAIR ACCESS AND USE** of natural resources

**NATURAL DISASTERS AND ENVIRONMENTAL DEGRADATION** INCREASE LEVELS OF **DISPLACEMENT** worldwide. Since 2008, around **22.5 MILLION PEOPLE** have been displaced by climate or weather related hazards



**PROTECT THE ENVIRONMENT, ADAPT AND FIGHT CLIMATE CHANGE** to reduce inequalities, conflicts and forced migration worldwide



# OUR CONTRIBUTION

- Inclusive Infra
- Meditation Room
- E-OPD - for the society
- Wellness Centre

## CYCLE ASSIST : WHEEL CHAIR MOBILITY



## NATIONAL UNITY DAY



## HEALTH OUTREACH PROGRAMMES



# CELEBRATION OF NATIONAL & INTERNATIONAL FESTIVALS

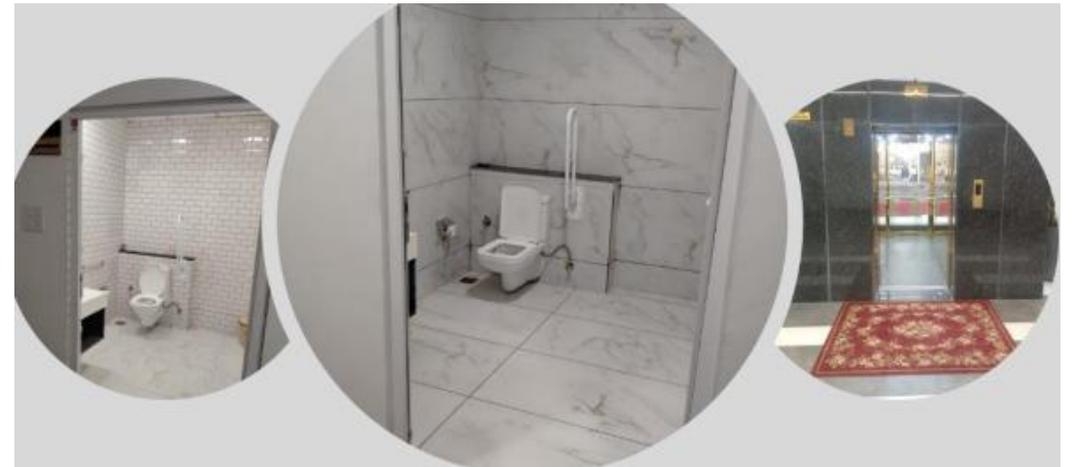




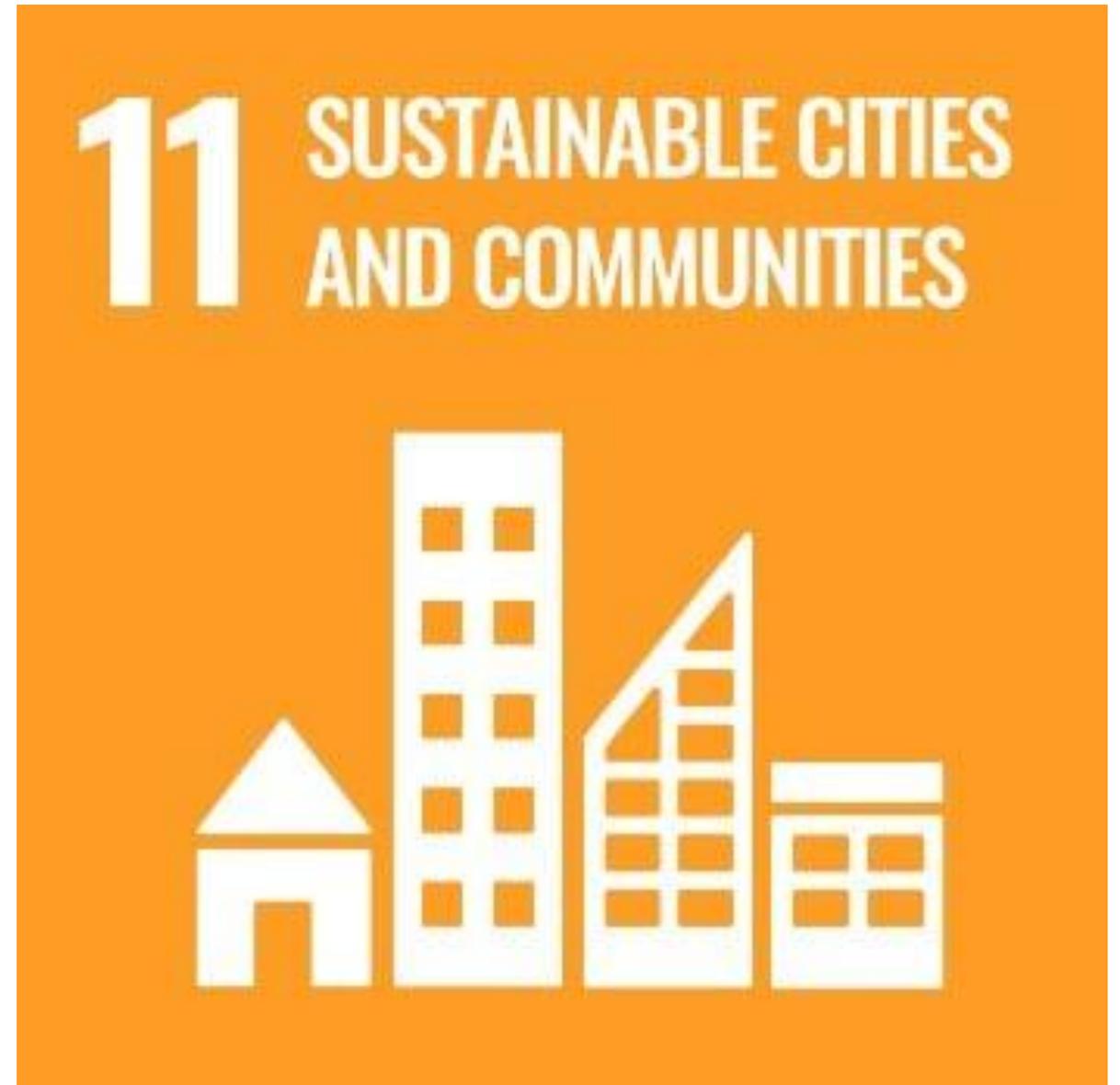
# G20 UNIVERSITY CONNECT PROGRAM



## DIVYANGJAN FACILITY



Make cities  
inclusive, safe,  
resilient and  
sustainable





**Challenges**

The **RAPID** and often **UNPLANNED URBANIZATION** witnessed worldwide has led to **INCREASED PRESSURE ON THE ENVIRONMENT**



Our cities account for up to **80% OF ENERGY CONSUMPTION** as well as **75% OF GLOBAL WASTE AND CARBON EMISSIONS**



Due to the high concentration of people, infrastructure, housing and economic activities, **CITIES ARE PARTICULARLY VULNERABLE** to climate change and natural disasters



**Solutions**

**PROMOTE SOUND URBAN PLANNING**, sustainable building, low-carbon transports, green spaces and sustainable lifestyles



**INVEST IN RENEWABLE ENERGY**, waste management, sustainable and green infrastructure



**PROTECT CITIES** - which are important social, cultural and economic centres - from environmental and climate threats





## THE HAVELI



## THE SPECTACLES



## CULTURAL ACTIVITIES



## D'ART GALLERY

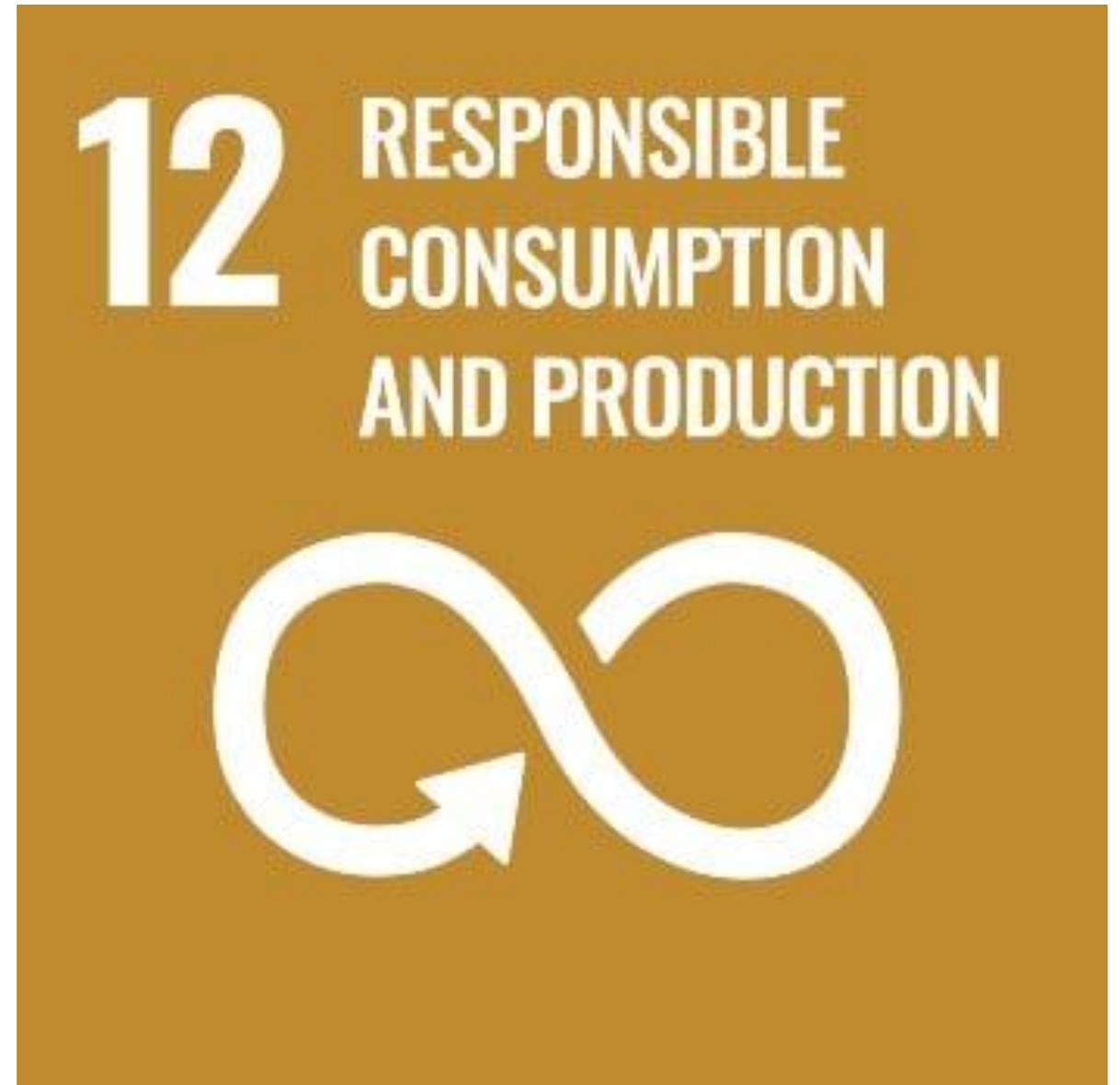
# TRAINING ON FIRE SAFETY

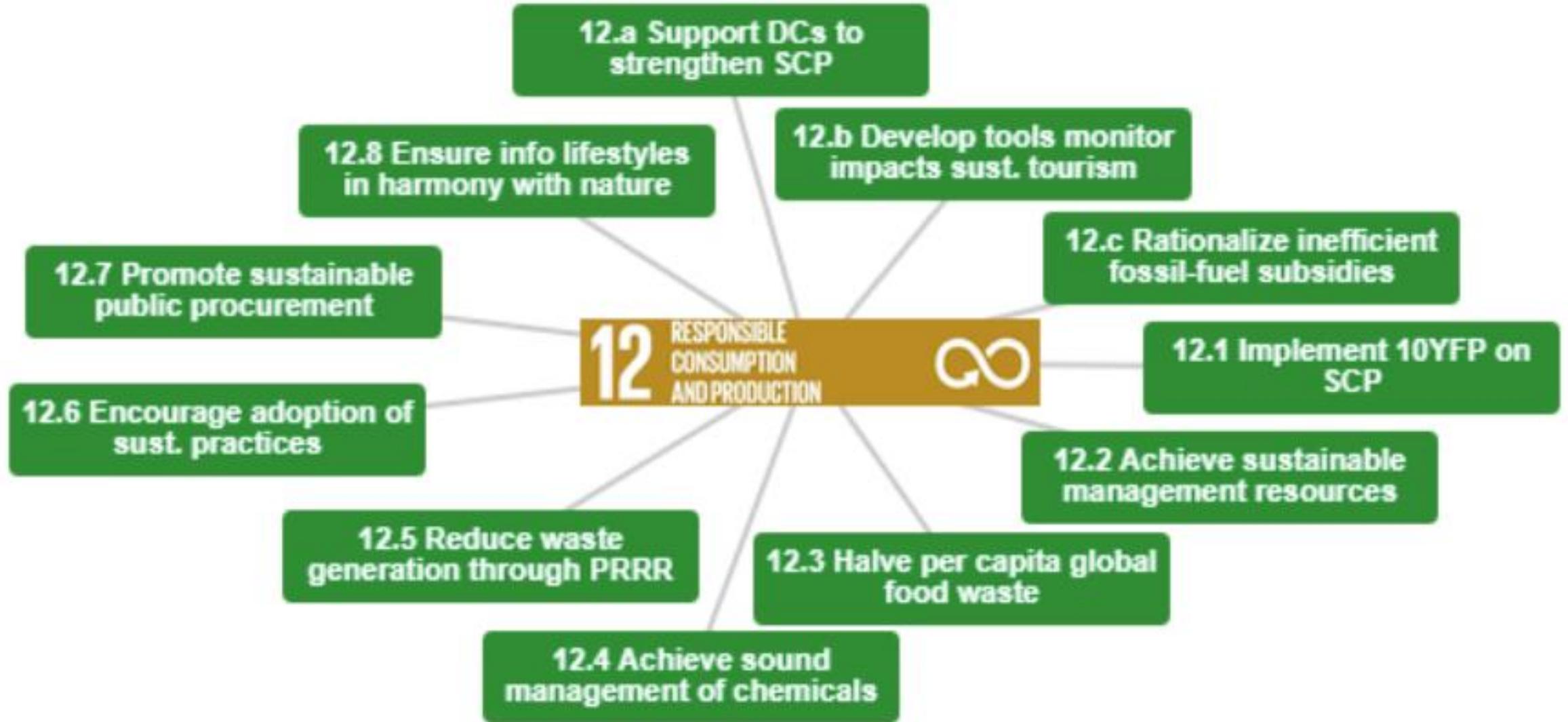


# GREEN SPACES



Ensure sustainable  
consumption and  
production patterns





**Challenges**

Every year about **ONE THIRD OF ALL FOOD PRODUCED** – equivalent to 1.3 billion tones – **IS WASTED** while 1 billion people remain undernourished and another 1 billion go to bed hungry

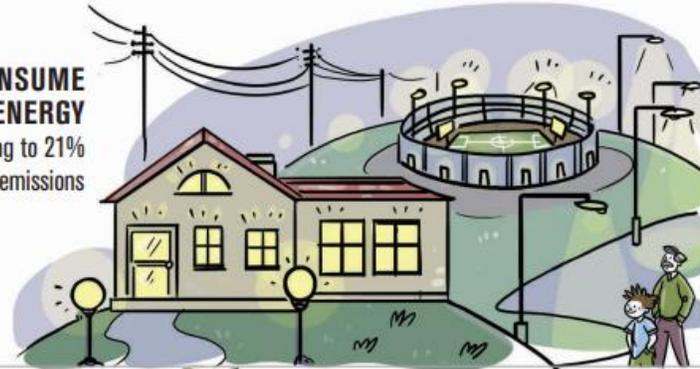


**Solutions**

**REDUCE THE FOOD WASTED** by producers, retailers and consumers



**HOUSEHOLDS CONSUME 29% OF GLOBAL ENERGY** contributing to 21% of CO<sub>2</sub> emissions



**SWITCH TO ENERGY EFFICIENT LIGHTING** to save \$120 billion every year and prevent 16 billion tons of carbon emissions over the next 25 years



The world's **FRESH WATER SUPPLY** such as rivers and lakes **ARE POLLUTED** at much faster rate than nature can recycle and purify



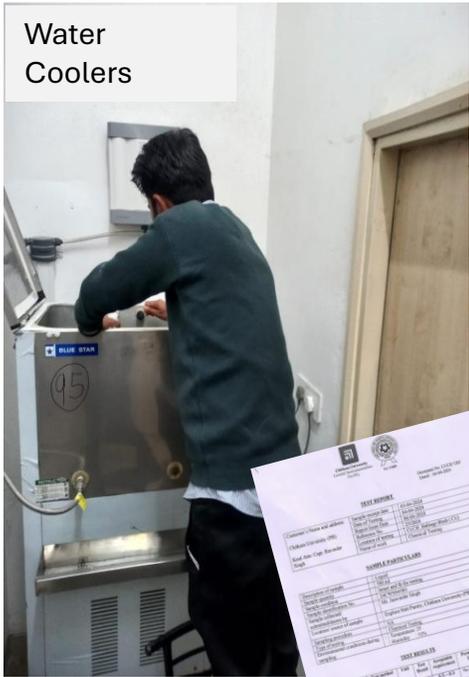
**REDUCE THE RELEASE OF CHEMICALS AND WASTE** into the air, water and soil





- Organic Waste generated and recycled across the university = 72.882 tonnes (metric ton).
- Reduced Plastic Usage –
  - Encouraged Cloth Bags instead
  - Reuse / Repurpose plastic
- Apni –Mandi –
  - Students encouraged to procure locally and sell eliminating mediators
- Recycling Wastepaper / Repurposing Furniture / Donating Furniture
- Alumni Donating Books to Campus
- Share & Care Bins to encourage sharing with the needy and to not waste
- Reduced Food Wastage
  - Educating students /Green Plate Initiative/Food For Piggery & Manure

# CLEANLINESS



Can reduce output by 30%

Durability of PCs

Hygienic Workplace



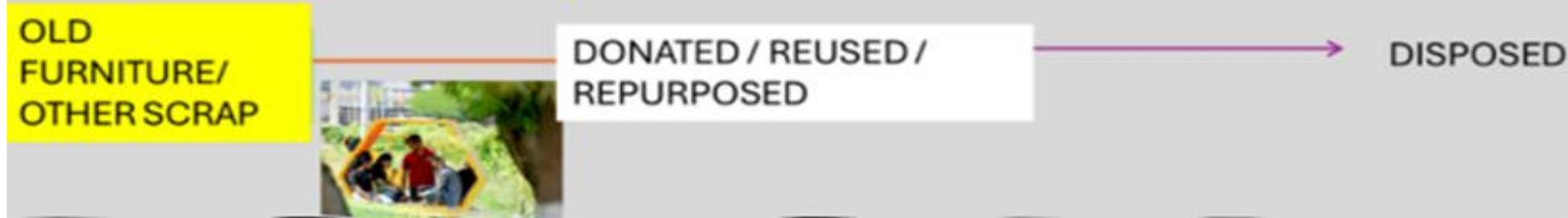
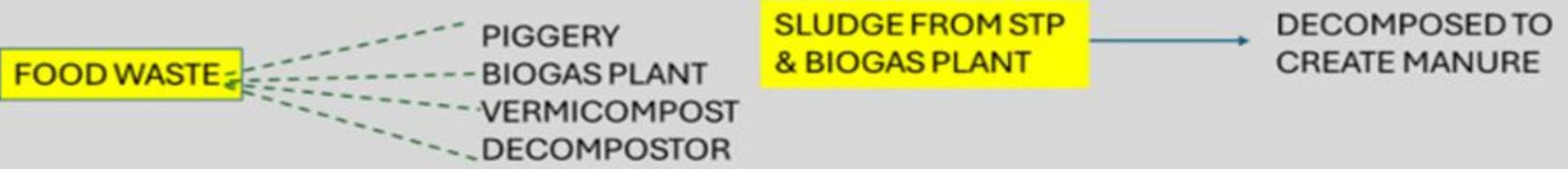
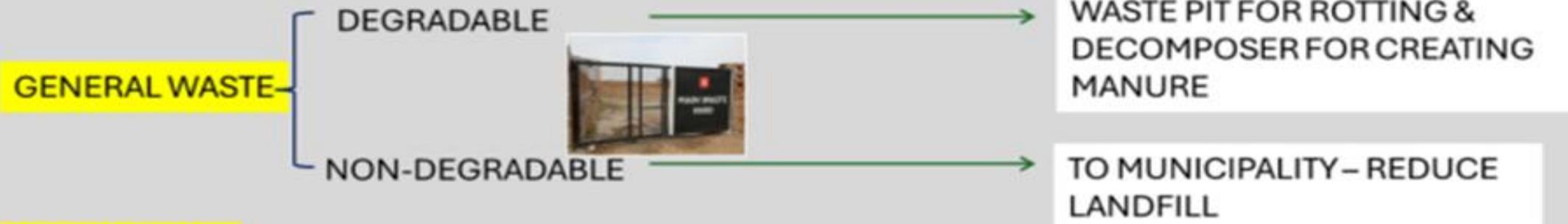
# 7RS OF SUSTAINABLE CONSUMPTION

	Rethink	Reduce	Repurpose	Recycle	Responsible Disposal	Rot
Food Waste	✓	✓	✓	✓		✓
Plastic	✓	✓	✓	✓	✓	
Sludge				✓		✓
Scrap Wood	✓		✓		✓	✓
Water Waste	✓	✓		✓		
Paper Waste	✓	✓		✓		✓
E-Waste	✓	✓			✓	
Used Oil	✓				✓	
Bio Medical Waste					✓	



# SOLID WASTE MANAGEMENT

## SOLID WASTE





- **80% of Used Water is Treated**
- **Sludge Used as Manure**
- **Treated Water used for**
  - **Horticulture**
  - **Double Plumbing**

## SUSTAINABLE LIFESTYLE WORKSHOP AND HANDS-ON BIO ENZYME WORKSHOP



## STUBBLE -MUSHROOM PRODUCTION UNIT



## PAPER RECYCLING PLANT



## FOOD WASTE





# CLOTHBAG VENDING MACHINE

# BOTTLESBIN



TO REDUCE USAGE OF SINGLE USE PLASTIC BAGS

TO REDUCE LANDFILL & TO ENABLE RECYCLING & REPURPOSE OF PLASTIC

**CHITKARA UNIVERSITY**

FAQ | Site Map | CUIET | 2022-23 | OA\_ADMIN | [Logout]

Support Desk | Interaction Program | Instagram Photo | Welcome (E2914377) , Pramod Chandra  
 SSL Certificate <sup>NEW!</sup> | Student Information | Grievance Redressal Portal | View PPT | Help Desk |  
 Appraisal Score | Hall Booking | Regulation | Hostel Rules | Covid 19 Guidelines <sup>NEW!</sup> |  
 Upload Vaccination Certificate <sup>NEW!</sup> | Download Section | Request for Document | Contact Us |  
 Suggestion Feedback <sup>NEW!</sup> | Office of Patent Facilitation, Licensing & Consultancy <sup>NEW!</sup> |  
 Rise Event <sup>NEW!</sup> | Counseling Video | Security Fine | PhD Supervisor Profile Update |  
 OPD - Physiotherapy <sup>NEW!</sup> | OPD - Eyes <sup>NEW!</sup> | Fee Notices

Dear Student, Kindly deposit your

Setup | Student | Time Table | Communication | Fine | **Activities** | Annual Appraisal | Reports | Analytics | Admin Func. | Leaves

Activities » Lost and Found

Menu Lookup..

#	Date	Time	Item	Location	Status	Action
1	14-Jun-2023	12:00:00	this is resss	newton	Delivered digi cp5 14-Jun-2023	

Print | Export to Excel

**STEP 1**

**Continuous Learning  
Creative Problem Solving**

**TO REDUCE WASTE INTO LANDFILL**

## DIGITALISED INVENTORY RECORDS

#	Building	Floor	Room	Room No.	Item	Type	Colour	Length	Width/Height	Qty	Date	Action
1	207	Picasso Block	F8th	Cooridor	Cooridor	Foot Mat	Furniture	Gray	Width --- Height ---	0	14-03-2024	
2	206	Picasso Block	F8th	Cooridor	Cooridor	Soft Board	Furniture	White	Width --- Height ---	0	14-03-2024	
3	205	Picasso Block	F8th	Cooridor	Cooridor	Wooden Bench	Furniture	Brown	Width --- Height ---	0	14-03-2024	
4	204	Picasso Block	F8th	Cooridor	Cooridor	Camera	IT		Width --- Height ---	0	14-03-2024	
5	203	Picasso Block	F8th	Cooridor	Cooridor	Fire Cylinder	Fire	Cylinder	Width --- Height ---	0	14-03-2024	
6	202	Picasso Block	F8th	Cooridor	Cooridor	Buller Blinds	Furniture	Brown	Width --- Height ---	0	14-03-2024	

- ENABLES REUSE/ REPURPOSE/ RECYCLING
- RETHINK BEFORE PROCUREMENT FROM THE DATA

## ANNUAL AUDIT

INTERNAL AUDIT OF ACADEMIC BUILDING INVENTORY (ASSETS RECORD) 2023-24

Davinder Singh Titria <davinder.singh@chitkara.edu.in>  
to Gurpreet, Harvinder, Ravinder, Gurpreet, mandeep.0225, manga.2463, narinder.1127, Jarnail, prince.1027, Dilbag, yogesh.1220, virpal.k, ga

Respected & Dear All,

As part of our ongoing efforts to ensure efficient operations and compliance with departmental policies, we will conduct an internal audit of inventory 2023-24 in the academic buildings of our department. The purpose of this audit is to assess the accuracy and completeness of our current inventory records and to identify any areas for improvement.

The audit is scheduled to take place from **02nd Jan 2024** onwards and will be carried out by our internal audit team members deployed for buildings (list attached). Your cooperation and support during this process are crucial for its success.

**Remark the record of any changes in the venue.** Completion of report submitted in the admin office by **15-Feb-2024** and daily feedback report of audit that is in progress given to the admin office to Sr.Admin Officers.

Kindly ensure that all inventory audit reports of all buildings mentioned in the list should be submitted before or on 15-Feb-2024 with the signature of the Supervisor and his Admin officer who is mentioned as the Auditor officer.

The auditor list is enclosed for your reference

- CHECK ON INVENTORY

## MAINTENANCE MONITORING

CHITKARA UNIVERSITY

Report Name: 10-Apr-24

Type of Support:  Maintenance  Electrical  Other

Building Name: [Dropdown]

Department: [Dropdown]

Floor: [Dropdown]

Room: [Dropdown]

Access: [Dropdown]

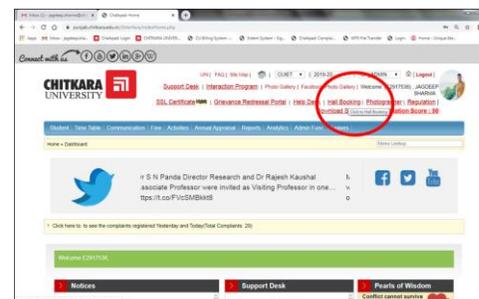
Activities: [List of activities]

Details (Comments): [Text area]

Buttons: Save, Cancel, Download Section

- ECONOMICAL REPAIRS
- OPTIMAL UTILISATION OF FURNITURE & FIXTURES
- AERATORS / FLUSH TANKS

## COMMON VENUES/ FACILITIES



- SCHOOLS & EVENTS
- INCREASED MANIFOLD
- EASY TRACKING / CALCULATIONS/ PLANNING

# AVERAGE EVENTS CATERED : 180 /PER MONTH



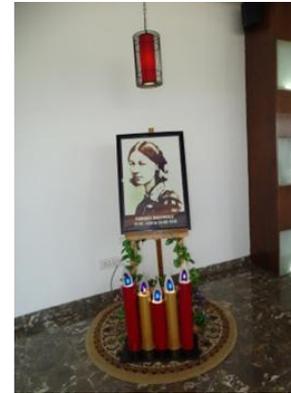
1200 EVENTS

THEME BASED DECOR



JOINT EFFORT

PLANNING &  
COORDINATION



REUSE  
REPURPOSE  
STORE  
MANAGE  
DIGITALISED  
RECORDS





## Managing Paper Waste

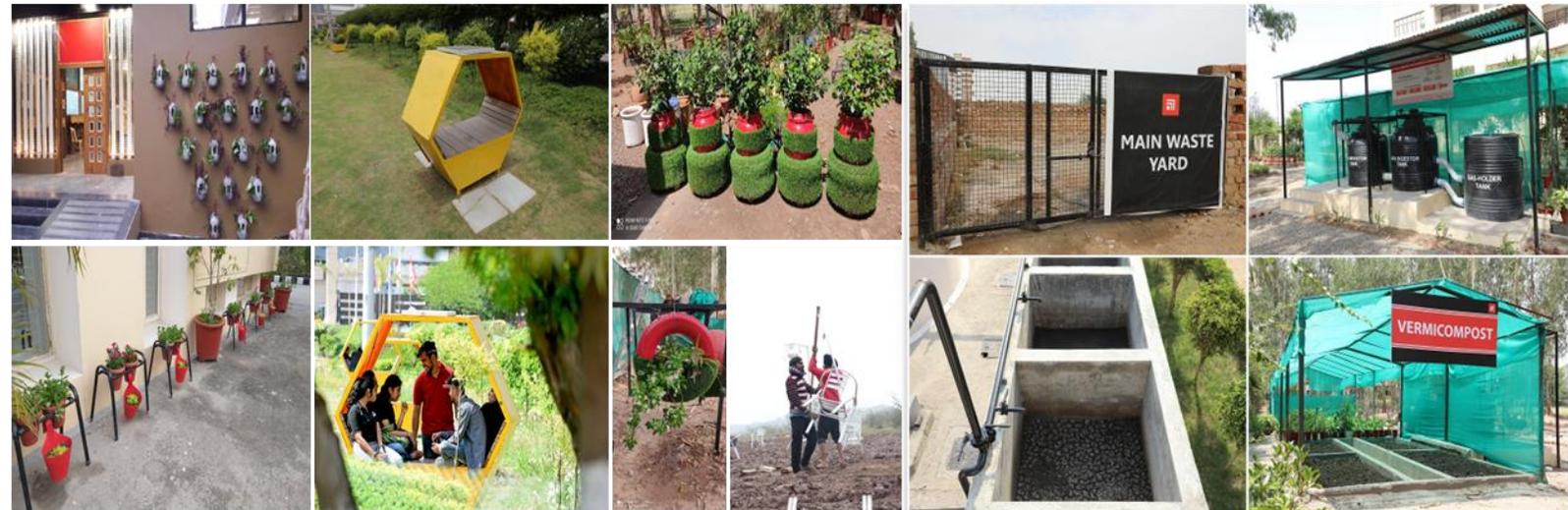
Clean paper is recycled within campus

Stained paper is put to rot

		2021	2022	2023
Input	Paper Recycled in KGs	1997	2473	1487
	Plain Sheet	-	6420	4100
Output	Record File	828	206	-
	Dairy	819	1878	1587
	File	1669	1694	-
	Pot	-	-	50

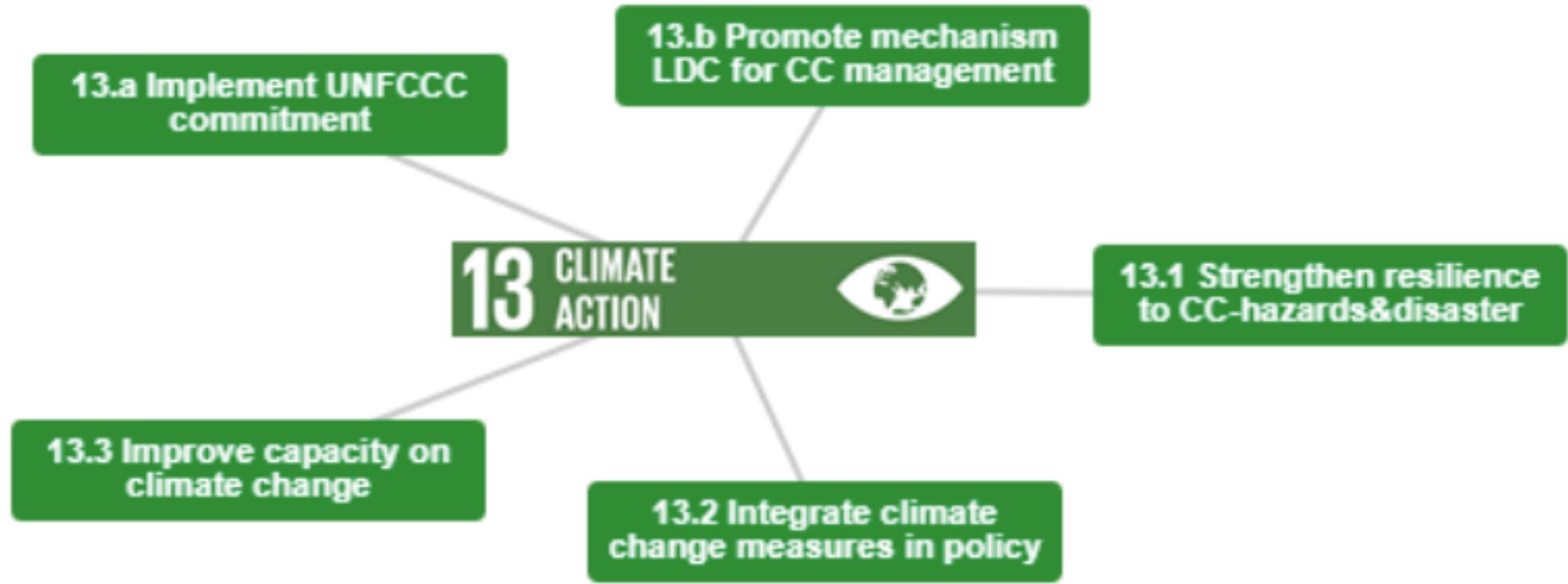
## Manure From Recycled Food & Sludge

Year	Total Requirement of Compost	COMPOST			
		Received from Vermicompost Pit	Received from STP Sludge	Received From Bio Compost Pits	Received From Biogas Sludge
<b>2018</b>	2000 kgs	487 kgs	300 kgs	-	-
<b>2019</b>	3000 kgs	518 kgs	500 kgs	-	-
<b>2020</b>	3500 kgs	200 kgs	200 kgs	1500 kgs	12 kgs
<b>2021</b>	4000 kgs	270 kgs	400 kgs	1650 kgs	11kgs
<b>2022</b>	4500 kgs	250 kgs	750 kgs	1800 kgs	12.5 kgs



Take urgent  
action to combat  
climate change  
and its impacts







Challenges

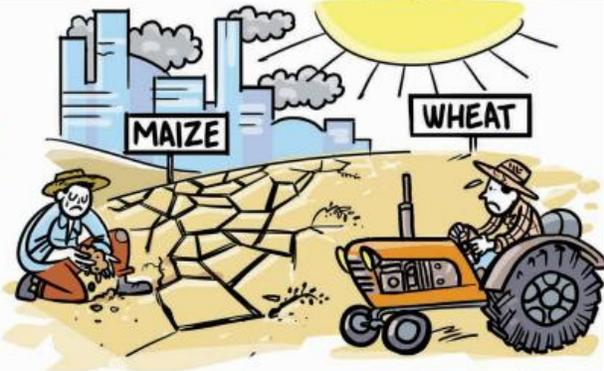
Solutions

**ANTHROPOGENIC GREENHOUSE GAS EMISSIONS** have increased since the pre-industrial era, driven largely by **ECONOMIC AND POPULATION GROWTH**, and are now higher than ever.



Inform and inspire people and institutions to **TAKE ACTIONS AGAINST CLIMATE CHANGE**

**THE WORLD IS WARMING** at an alarming rate, damaging our ability to grow food



Innovate and adopt technological solutions to **MITIGATE AND ADAPT TO CLIMATE CHANGE**

**STORMS, FLOODS, HURRICANES AND DROUGHTS** are intensifying, oceans are warming and becoming more acid, ice is disappearing and seas are rising.



**PROTECT THE MOST VULNERABLE** against climate change impacts

- Increase awareness on Climate Change – Students / Staff & Farmers
  - Increased Greenery
  - Reduce usage of Plastic
  - Reduce Air Pollution
  - Reduce wastage of electricity
  - Usage of Water efficient washroom fixtures
  - Reduce usage of fossil fuels
  - 7Rs of sustainable living
- 
- Year 2022 reported 35% more saving in energy as compared to 2018.
  - Set up of paper recycling plant for recycling of paper of the University into various useful products.
  - Avoiding methane emissions from landfills by converting organic waste into compost.
  - Imparting knowledge to the students by forming dedicated club “Ecolution” towards climate change impacts by adopting to sustainable options and educating villagers by NSS through nukkad naatak and talks.



# CHITKARA UNIVERSITY'S LOW CARBON ENERGY TRACKING



# TREE PLANTATION DRIVES

# WORLD NATURE CONSERVATION DAY



# WORLD NATURE DAY



Conserve and sustainably use the oceans, seas and marine resources



**Challenges**

**Solutions**

Over **THREE BILLION PEOPLE** depend on **MARINE AND COASTAL BIODIVERSITY** for their livelihoods. **POLLUTION THREATENS** the world's largest source of protein



Reduce pollution and **PROTECT MARINE AND COASTAL ECOSYSTEMS**

**40% OF WORLD'S OCEANS** suffer from **OVERFISHING, POOR FISHING PRACTICES** and **POOR WASTE MANAGEMENT**



**END HARMFUL FISHING SUBSIDIES** and stop unreported, unregulated and destructive fishing practices

**CORAL REEFS** which provides a home to 25% of all marine life **ARE BEING DESTROYED** at an alarming rate



**FIGHT CLIMATE CHANGE**, reduce sedimentation, stop coral mining and promote sustainable tourism



Browser tabs: Data Urgently Requ... (63) WhatsApp Center of excellenc... how can we contrib... Goal\_14.pdf waste management Goal 14: Life below

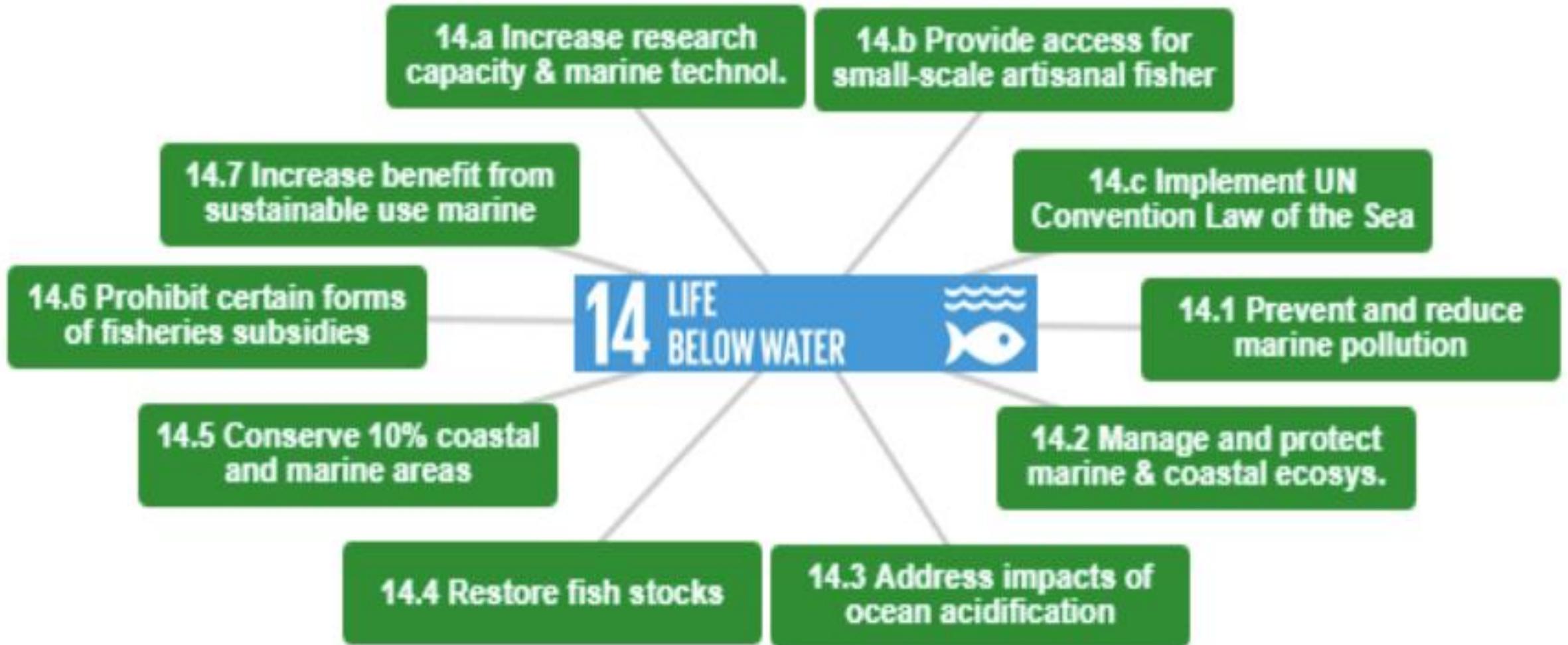
Address bar: <https://www.globalgoals.org/goals/14-life-below-water/#things-to-do>

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**THE GLOBAL GOALS** HOME > THE 17 GOALS > TAKE ACTION > NEWS > RESOURCES > PODCAST >

# THINGS TO DO

- Find a Goal 14 charity you want to support. Any donation, big or small, can make a difference!
- Never buy bottled water – boil, filter, chlorine, rainwater, do what you can.
- Reduce waste – much of the waste that we produce on land ends up in the oceans. Stop using plastic bags: Usage and wrong disposal of plastic is a major cause of marine pollution.
- Run a campaign on the effects of plastic use on the seas and oceans.
- Organize a cleanup project for rivers and oceans. Engage your whole community to clean up a local river, seaside or an ocean.
- Buy local and certified fish. You can support small-scale producers by shopping in local markets and shops.
- Stay informed. Follow your local news and stay in touch with the Global Goals online or on social media at **@TheGlobalGoals**.



**Target 14.1:** By 2025, prevent and significantly reduce marine pollution of all kinds, particularly from land-based activities. This includes marine debris and nutrient pollution. The associated indicator is the **Index of coastal eutrophication and floating plastic debris density**

We have encouraged usage of cloth bags and strictly banned entry of single use plastic  
- reduce chances of floating plastic.

Wastewater is recycled and not allowed to flow into any other water body.

# COLLABORATION

- Villa College, Maldives
- Research on Microplastic in water

## A SESSION ON ENVIRONMENTAL PROTECTION PRACTICES

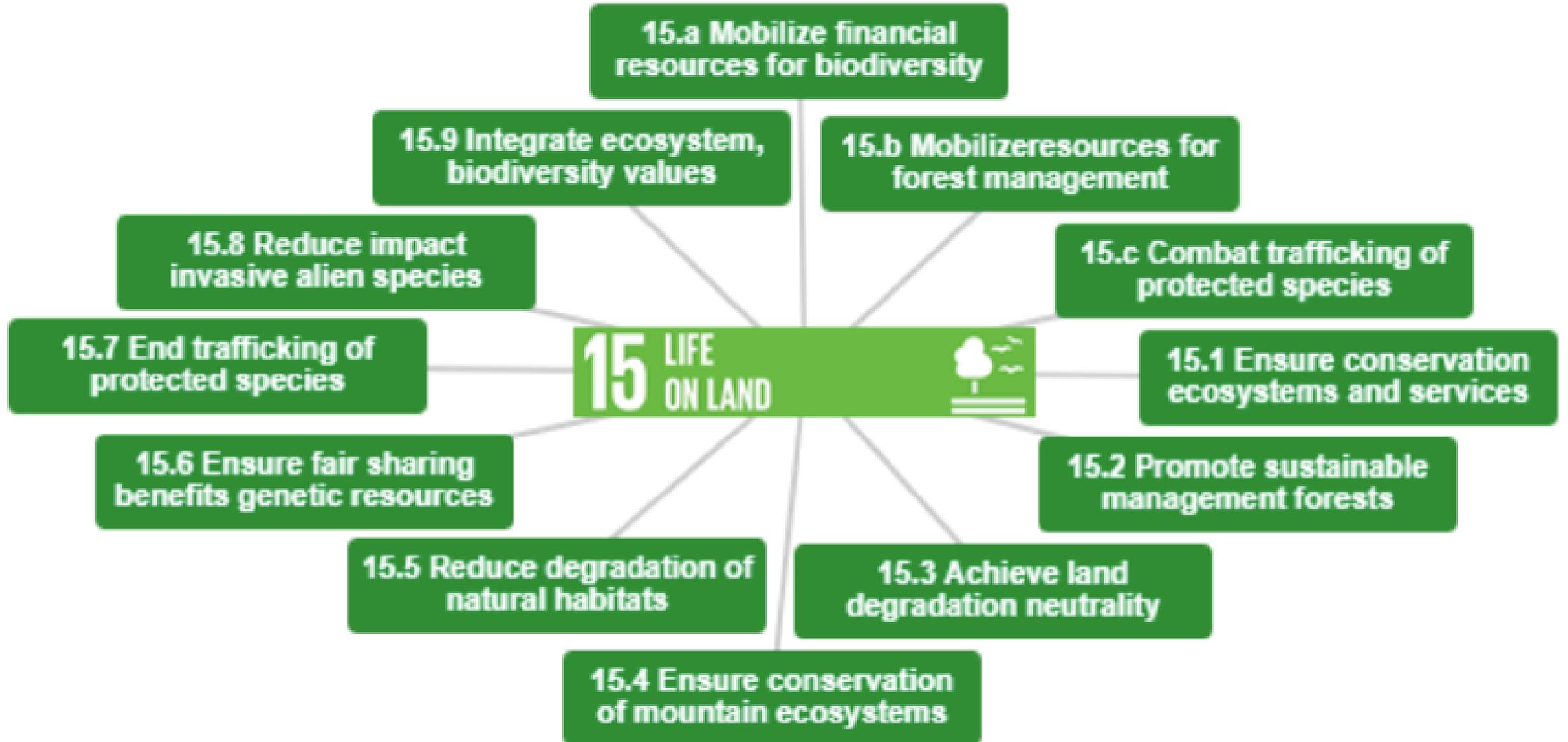


## DEBATE COMPETITION – ENVIRONMENTAL



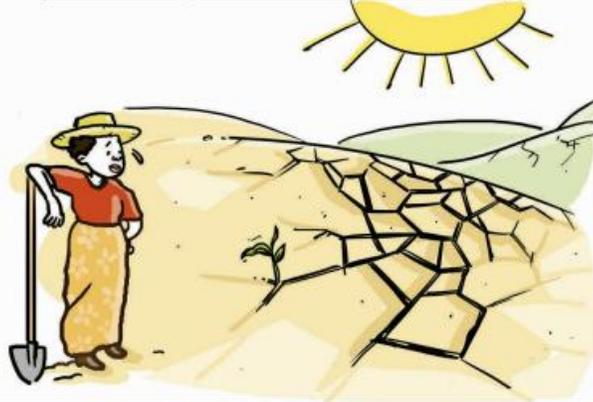
Sustainably  
manage forests,  
combat  
desertification, halt  
and reverse land  
degradation, halt  
biodiversity loss



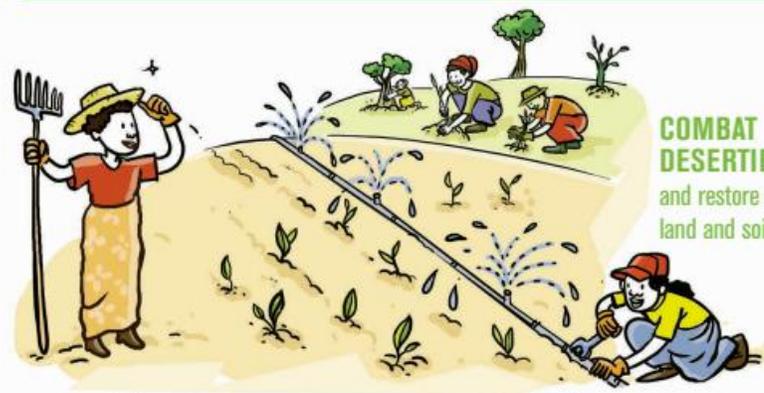


**Challenges**

**EVERY MINUTE  
23 HECTARES  
OF ARABLE LAND  
ARE LOST**  
to drought and  
desertification



**Solutions**



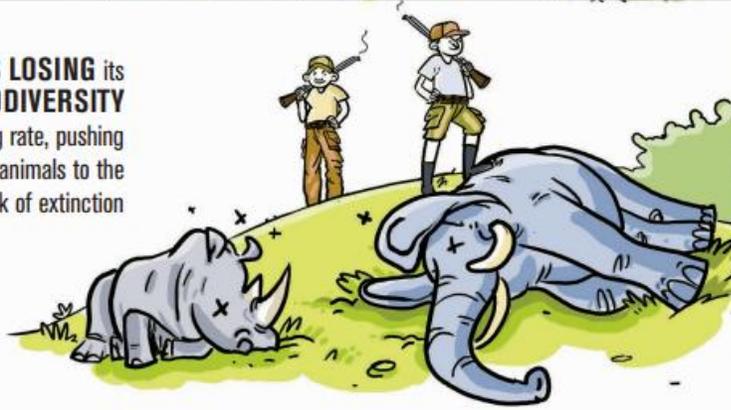
**COMBAT  
DESERTIFICATION,**  
and restore degraded  
land and soil

**EVERY YEAR WE LOSE  
13 MILLION HECTARES  
OF FOREST** that are home to  
more than 80% of all land-based  
species and provide livelihood to  
1.6 billion people



**HALT DEFORESTATION**  
and restore degraded  
forests to **PROTECT  
HABITATS**

The **WORLD IS LOSING** its  
**PRECIOUS BIODIVERSITY**  
at an alarming rate, pushing  
22% of animals to the  
brink of extinction



Take urgent action to  
**END POACHING  
AND TRAFFICKING**  
of protected species

# OUR CONTRIBUTION



- Tree Plantation Drives
- Greenery in Campus
- Bird Nests on trees
- Paper Recycling Plant
- Recycling Waste
- Spreading Awareness on Need to Preserve Ozone Layer
- Draught Resistant Trees on Campus
- Miyawaki Forest



## THINGS TO DO



Find a Goal 15 charity you want to support. Any donation, big or small, can make a difference!



Reduce your use of paper. Avoid printing and substitute it with electronic devices or carriers.



Don't shop for pets! Visit your local animal shelter and adopt an animal there.



Don't buy products tested on animals: Check the labels on the products you buy.



Recycle paper, glass, plastic, metal and old electronics.



Compost. Composting food scraps can reduce climate impact while also recycling nutrients.



Clean your local parks and forests. Organise your own or join an existing clean-up event to sustain the ecosystem of your local green space.



Don't use pesticides. To protect and sustain the quality of soil, don't use chemicals while growing plants.







• **SWACHHTA ACTIVITIES**

## HORTICULTURE ACTIVITY

<b>HORTICULTURE ACTIVITY</b>					
	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Area of campus allotted for Greenery & Percentage	21.85 acre / 34.43%	22.60 acre /35.61%	21.02 acre/ 33.12	21.08 acre/33.22%	21.08 acre / 33.22%
Manure Required / Managed from in-house sources	3200kg/1600kg	3500kg/1800kg	3200kg/2000kg	3300kg/2200kg	3300kg/2500kg
No. of Shrubs, Plants & Trees	8461	8986	9456	9765	10410
No. of drought tolerant plants / trees	19.50%	20.01%	21.50%	21.50%	21.90%
No. of Medicinal plants in Herbal Garden	145	175	210	305	333
No. of Vertical Gardens on campus	10	13	15	18	21
No. of Terrace Gardens on campus	1	2	2	4	6
Plastic Reused for Horticulture	100 planters	250 planters	375 planters	450 planters	475 planters
No. of drip Irrigation / sprinklers on campus	5/10	5/ 13	8/15	15/18	30/ 23
Types of plants on campus	68	82	85	97	102



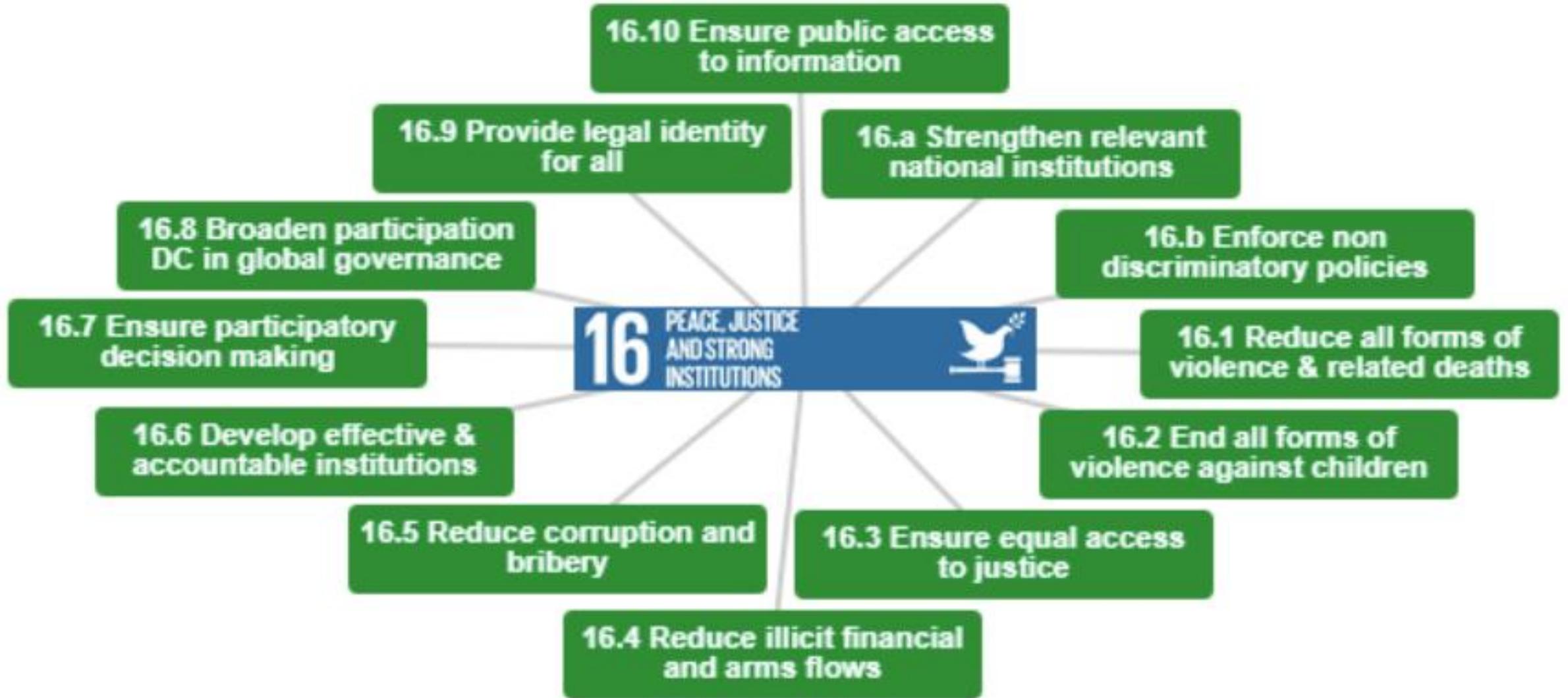
## MIYAWAKI FOREST AT CHITKARA UNIVERSITY

## VERTICAL GARDENS AND TERRACE GARDENS



**Promote just,  
peaceful and  
inclusive  
societies**





**Challenges**

Illegal logging, waste trafficking, corruption and bribery, plundering, exploitation of natural resources and poaching are examples of **GOVERNANCE AND ENFORCEMENT FAILURES**



**Solutions**



**STOP** all forms of **ENVIRONMENTAL CRIMES**

**ILLEGAL TRADE IN ANIMALS AND PLANTS** - including **TIMBER AND CHARCOAL** - is a large source of **CRIMINAL EARNINGS** in the world, estimated to be worth \$50 to \$150 billion per year



**DEVELOP EFFECTIVE, ACCOUNTABLE AND TRANSPARENT INSTITUTIONS** at all levels

Revenues generated by **ENVIRONMENTAL CRIMES** enrich international criminal cartels and **FUEL CONFLICTS** across the world



**PROVIDE ALTERNATIVE LIVELIHOODS** to those at the bottom of the criminal chain

# OUR CONTRIBUTION

- Goal 16 aligns with the broader human rights framework by promoting societies that respect and uphold individual rights, as well as the right to privacy, freedom of expression, and access to information.
- Legal Aid Cell- Activities in villages



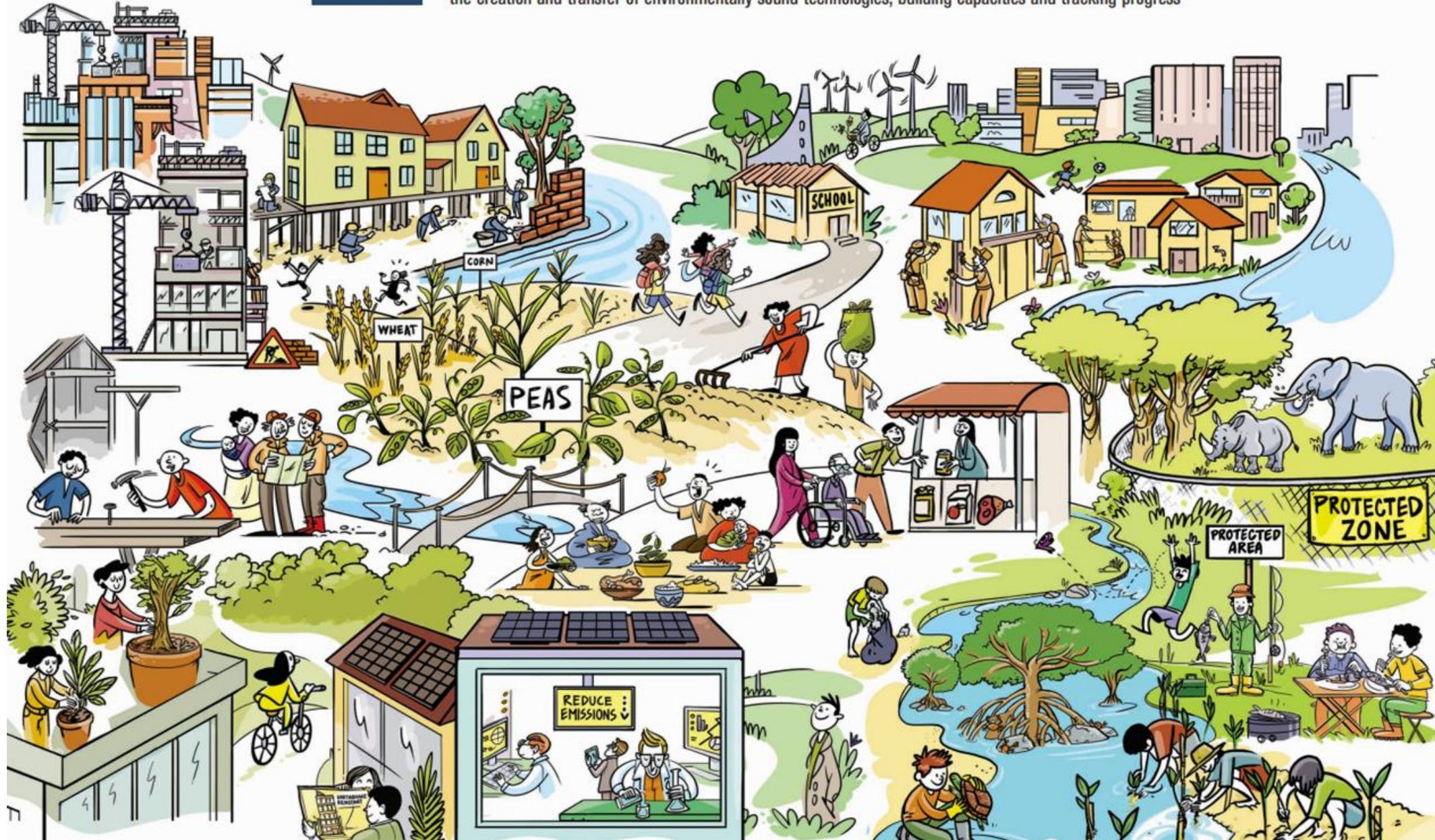
Revitalize the  
global partnership  
for sustainable  
development





# Partnership for the goals

Build strong partnerships for sustainable development by mobilizing resources, sharing knowledge, promoting the creation and transfer of environmentally sound technologies, building capacities and tracking progress



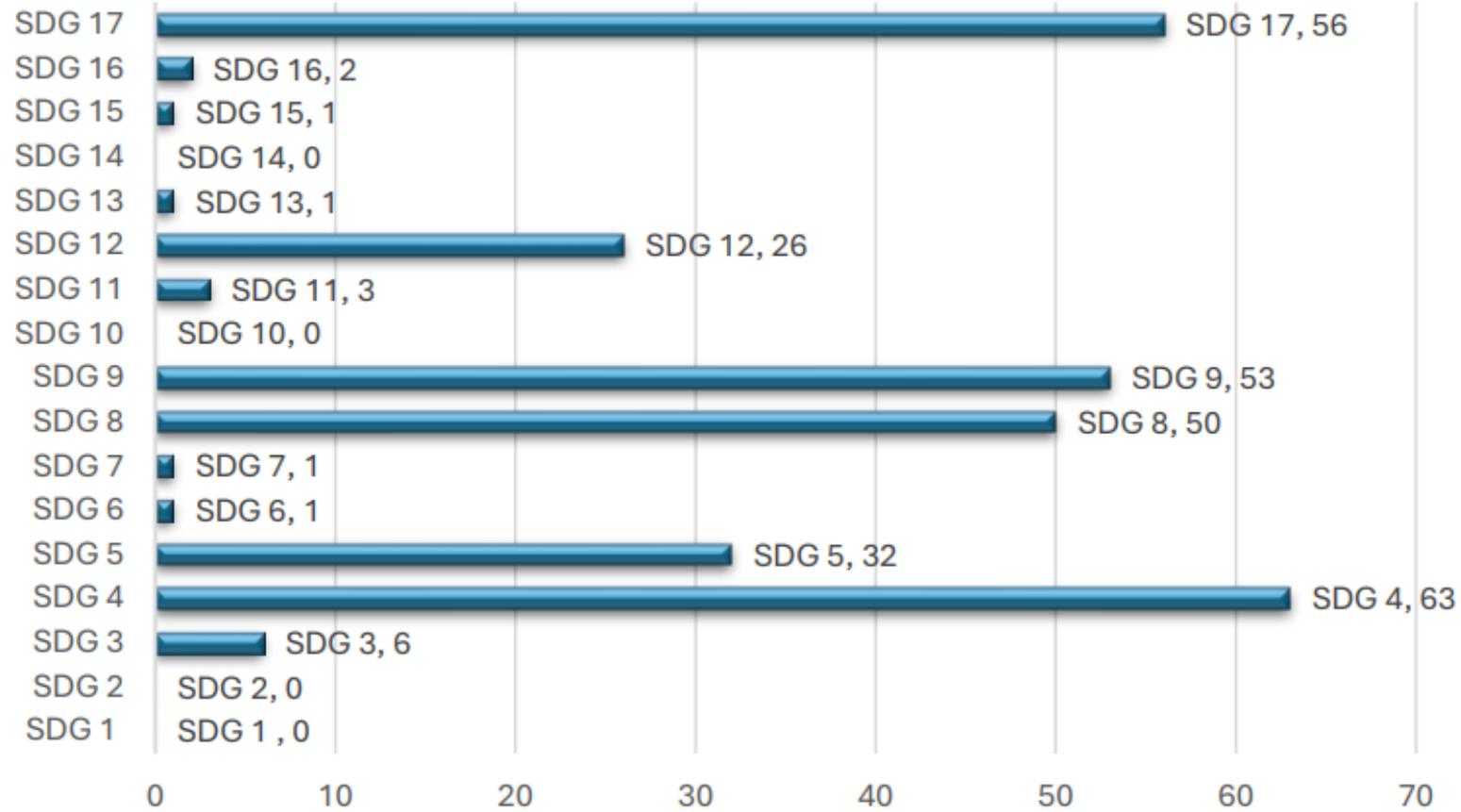
# OUR CONTRIBUTION

## EDUREFORM

Collaboration with International Universities to share resources

Collaboration with other Indian Universities & Organisations for sustainable goals

## MOUs (2023-24)





# GLOBAL WEEK





# CHITKARA MANDI



**DHBW, GERMANY AND CHITKARA**  
**UNIVERSITY, INDIA VIRTUAL PROJECT**  
**COLLABORATION- 2023-24**

**VISIT OF DELEGATES FROM GRIFFITH UNIVERSITY,**  
**AUSTRALIA**



# CHITKARA UNIVERSITY WITH YUVSATTA, (YOUTH FOR PEACE)



- **Greenery**

- 33% towards greenery
- More than 9700 trees
- Vertical Gardens
- Terrace Gardens
- Herbal Garden
- Drought Tolerant Plants
- Karnal Technology
- Miyawaki Forest
- Mushroom Cultivation

- **Vermicompost**

- 4 pits earlier
- 8 pits now

- **Biogas Plant**

- Waste food used

- **Plant Nursery**

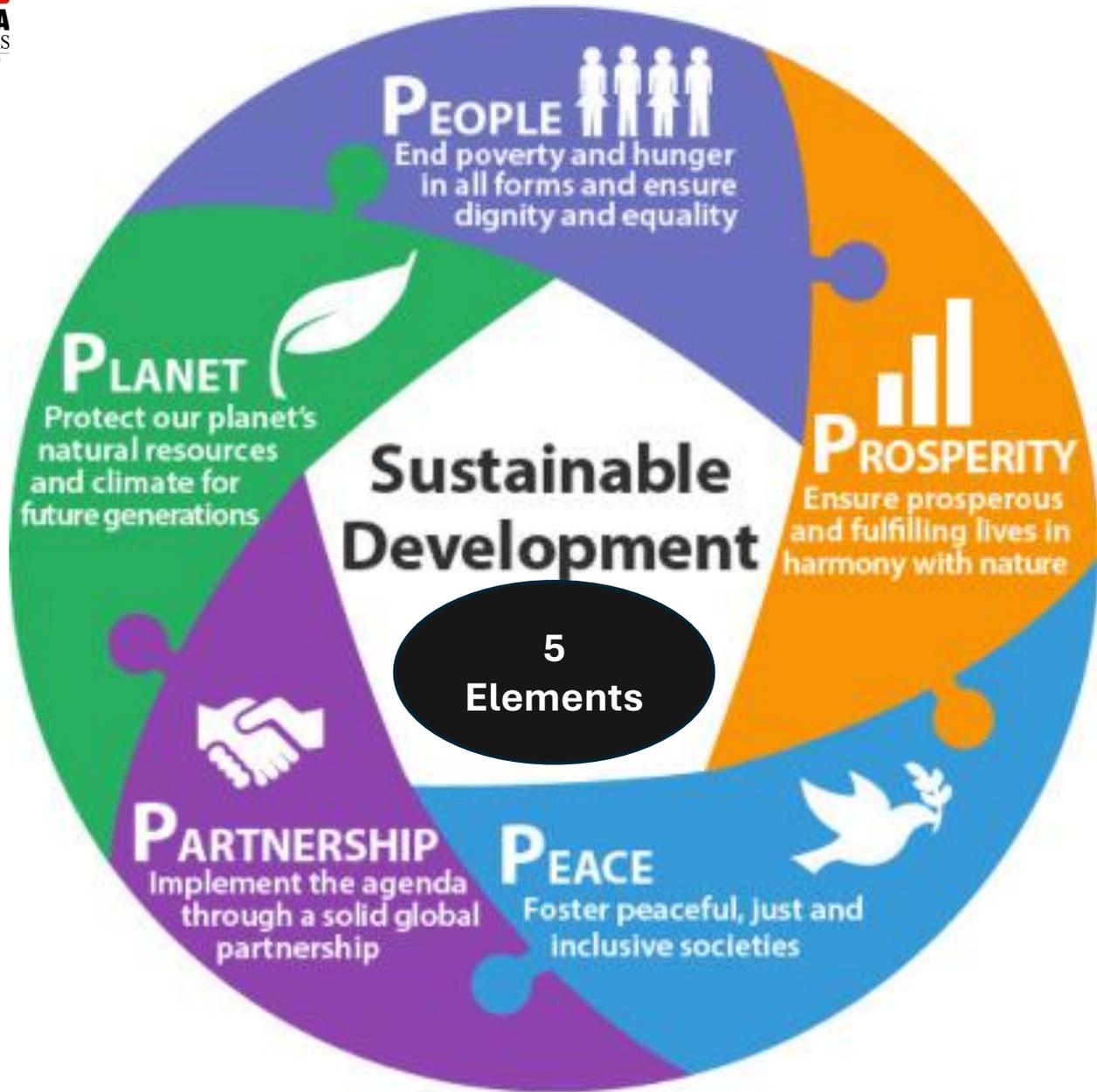
- Saplings – Seasonal
- Green Gifts
- Manure produced inhouse

- **Green Gifts**

# PLANET VS PLASTIC







**P1 People:** We are determined to end poverty and hunger, in all their forms and dimensions, and to ensure that all **human beings can fulfill their potential in dignity and equality and in a healthy environment.**

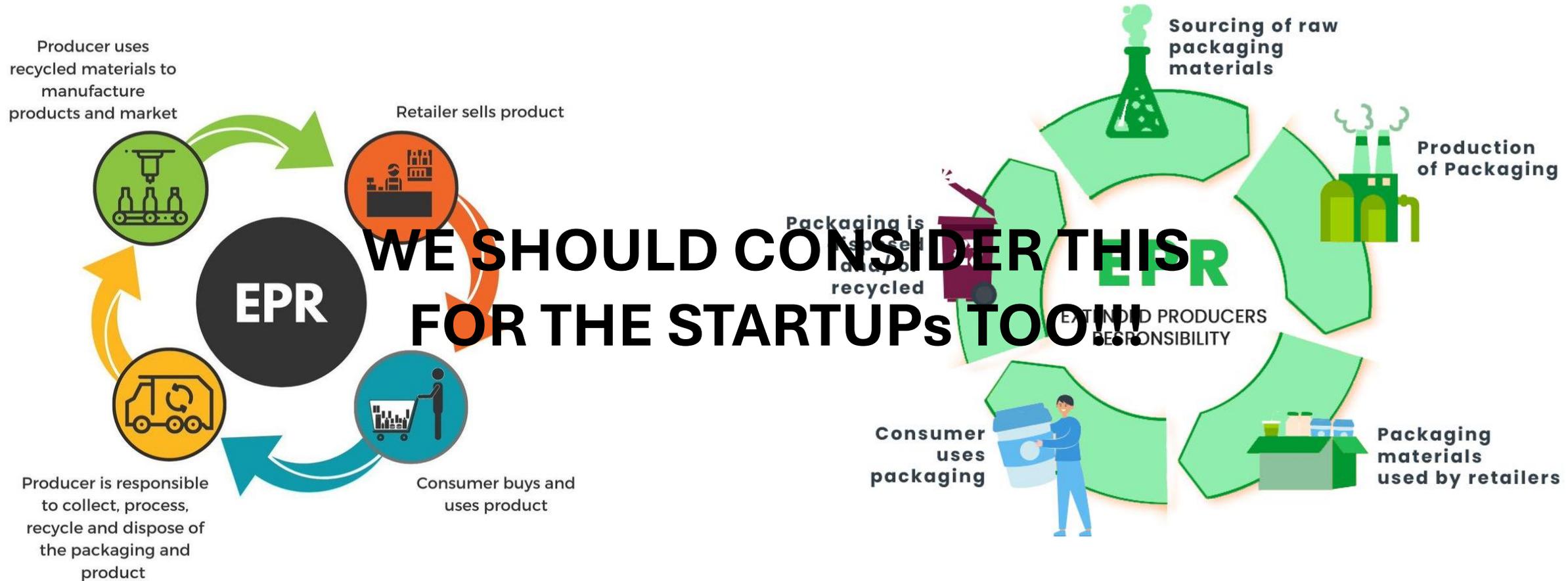
**P2 Planet:** We are determined to **protect the planet from degradation**, including through sustainable consumption and production, sustainably managing its natural resources and taking urgent action on climate change, so that it can support the needs of the present and future generations.

**P3 Prosperity:** We are determined to ensure that all **human beings can enjoy prosperous and fulfilling lives** and that economic, social and technological progress occurs in harmony with nature.

**P4 Peace:** We are determined to foster peaceful, just and inclusive societies which are **free from fear and violence**. There can be no sustainable development without peace and no peace without sustainable development.

**P5 Partnership:** We are determined to mobilize the means required to implement this Agenda through a revitalized Global Partnership for Sustainable Development, based on **a spirit of strengthened global solidarity**, focused in particular on the needs of the poorest and most vulnerable and with the participation of all countries, all stakeholders and all people.

# EXTENDED PRODUCER RESPONSIBILITY



Extended Producer's Responsibility (EPR) is a concept under which producers are given a significant responsibility– financial and/or physical – for the treatment or disposal of products post-consumption.

# SDG & The 3 Pillars of Sustainability

## Social

**1** NO POVERTY



**2** ZERO HUNGER



**3** GOOD HEALTH AND WELL-BEING



**4** QUALITY EDUCATION



**5** GENDER EQUALITY



**6** CLEAN WATER AND SANITATION



**10** REDUCED INEQUALITIES



**11** SUSTAINABLE CITIES AND COMMUNITIES



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



## Economic

**7** AFFORDABLE AND CLEAN ENERGY



**8** DECENT WORK AND ECONOMIC GROWTH



**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**17** PARTNERSHIPS FOR THE GOALS



## Environmental

**12** RESPONSIBLE CONSUMPTION AND PRODUCTION



**13** CLIMATE ACTION



**14** LIFE BELOW WATER



**15** LIFE ON LAND





# 3 pillars of ESG



## Environmental

- Energy usage and efficiency
- Climate change strategy
- Waste reduction
- Biodiversity loss
- Greenhouse gas emissions
- Carbon footprint reduction



## Social

- Fair pay and living wages
- Equal employment opportunity
- Employee benefits
- Workplace health and safety
- Community engagement
- Responsible supply chain partnerships
- Adhering to labor laws



## Governance

- Corporate governance
- Risk management
- Compliance
- Ethical business practices
- Avoiding conflicts of interest
- Accounting integrity and transparency



# Greenwashing

*['grēn-, wò-shin]*

The act of providing the public or investors with misleading or outright false information about the environmental impact of a company's products and operations.

- The United Nations Environment Programme (UNEP) defines three concepts that are different but often used as synonyms, namely:

**climate, green and sustainable finance.**

- First, climate finance is a subset of environmental finance, it mainly refers to funds which are addressing climate change adaptation and mitigation.
- Then, green finance has a broader scope because it also covers other environmental issues such as biodiversity protection.
- Lastly, sustainable finance includes Environmental, Social and Corporate Governance (ESG) factors in its scope. **Sustainable finance** extends its domain to the three components of ESG; it is therefore the broadest term, covering all financing activities that contribute to sustainable development.



**Sustainable finance** is the set of practices, standards, norms, regulations and products that pursue financial returns alongside environmental and/or social objectives. It is sometimes used interchangeably with Environmental, Social & Governance (ESG) investing. However, many distinguish between ESG integration for better risk-adjusted returns and a broader field of sustainable finance that also includes impact investing, social finance and ethical investing.

# Quality institution building, role of a Leader



- WHAT IS AN INSTITUTION?
- WHO ARE THE PLAYERS IN AN INSTITUTION?
- HOW COHESIVE IS YOUR TEAM
- WHO IS THE LEADER
- WHAT IS THE STRUCTURE OF ADMINISTRATION
- HOW IS FINANCES BEING MANAGED
- WHAT IS THE SOURCE OF INCOME
- WHY THE SOURCE CANNOT BE CHANGED
- HOW MUCH YOU KNOW ABOUT QUALITY CERTIFICATION
- ACCREDITATION
- REGULATION
- BRAND EQUITY
- STAKEHOLDERS
- INTELLECTUAL CAPITAL OF THE ORGANISATION
- THE STUDENT ADMISSION PROCESS
- STUDENT FACILITATION PROCESS
- MENTORSHIP
- WHAT CAUSES STRESS IN ANY INSTITUTION
- **SOCIAL IMPACT**



### WHAT IS REQUIRED IN A ECOBNB?

- 01 Organic food
- 02 Green building
- 03 100% renewable energy
- 04 Solar thermal panels
- 05 Ecological cleaning products
- 06 More than 80% waste recycling
- 07 Car-free accessibility
- 08 Energy saving lights
- 09 Water flow reducers
- 10 Recovery & reuse of rainwater

[www.ecobnb.com](http://www.ecobnb.com)



Find your eco-friendly accommodation



SWITCH OFF  
LIGHTS WHEN  
NOT IN USE



TURN OFF  
TAPS WHEN  
NOT IN USE



USE LEDS



WATER LEAK?  
INFORM  
IMMEDIATELY



USE LESSER WATER  
– LESSER PUMPING  
OF WATER – LESSER  
ELECTRICITY



TAKE SHORTER  
SHOWERS



TURN OFF RUNNING  
TAPS WHILE  
BRUSHING



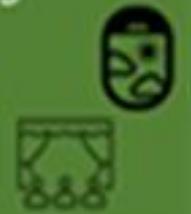
KEEP DOORS &  
WINDOWS SHUT  
WHEN AC IS  
SWITCHED ON



MAINTAIN  
TEMPERATURE AT  
26 DEGREE CELCIUS



DAY TIME LIGHT -  
KEEP BLINDS  
UP AND  
LIGHTS OFF



UNPLUG  
ELECTRONICS  
NOT IN USE



POWER DOWN  
LAPTOPS & PCs



USE ENERGY  
EFFICIENT  
APPLIANCES



SHARE  
APPLIANCES



LAUNDRY- USE FULL  
LOADS



CARPOOL  
OR AVAIL  
BUS FACILITY



AVOID LIFT  
USE STAIRS  
STAY HEALTHY



PLANT A TREE &  
NURTURE IT



DO NOT WASTE  
FOOD



DO NOT LITTER



DO NOT USE  
PLASTIC BOTTLES



DONATE OLD  
CLOTHES  
/BEDSHEETS/  
UTENSILS



DO NOT OVER  
PROCURE



CARRY A CLOTH  
BAG WHEN YOU GO  
SHOPPING. AVOID  
PLASTIC BAGS



WASTE –  
REDUCE /REUSE  
/RECYCLE



PRINT ONLY IF  
NECESSARY . USE  
ONE SIDE PRINTED  
PAPER



IF YOU DONOT NEED  
AN EQUIPMENT -  
RAISE 'NOC' TO  
SCRAP DISPOSAL  
COMMITTEE

DISPOSE OFF E-  
WASTE PRUDENTLY



USE SENSOR BASED  
TAPS & SWITCHES



HAVE IDEAS TO  
SUSTAINABILITY?  
SHARE IT  
WITH US ....!!

