

CLIMATE TECHNOLOGY CENTRE & NETWORK



CTCN

**Enabling Environment and
Collaboration & Outreach:**

Youth Climate Innovation Labs

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Context: Youth and technology

- There are over **1.8 billion young people** in the world today, **90 percent** of whom **live in the global South**
- Globally, there are **71 million unemployed youth**
- Technology offers an opportunity to leap frog to the **4th Industrial Revolution** but also requires **skills transformation** to build workforce capability for the near future.
- Young people are more prepared for the rapid technological advances that are changing the way we live and work. The most important factor for youth employment, according to young people, is a strong start-up ecosystem.
- AND youth stand to be **most affected by climate change**
- **Climate change technologies can address two major challenges** of our time: how to **limit climate change** and environmental degradation **foster development and decent work opportunities.**

CTCN Youth Climate Innovation Labs



Goal: To foster endogenous technology innovation for enhanced climate change action.

How: Pair young innovators together with local SMEs and innovation mentors to utilize design thinking tools to create new solutions.



CLIMATE INNOVATION LABS Africa and Asia Pacific

Creating technology solutions for enhanced climate action

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By 5 November 2020

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550+ applications



33% Gender Diversity
Female: Male ratio



110 Selected attendees



24 mentors



from 35+ countries



12 final teams



4 themes



31 African nations



6 selected teams

#ClimateInnovationLabs

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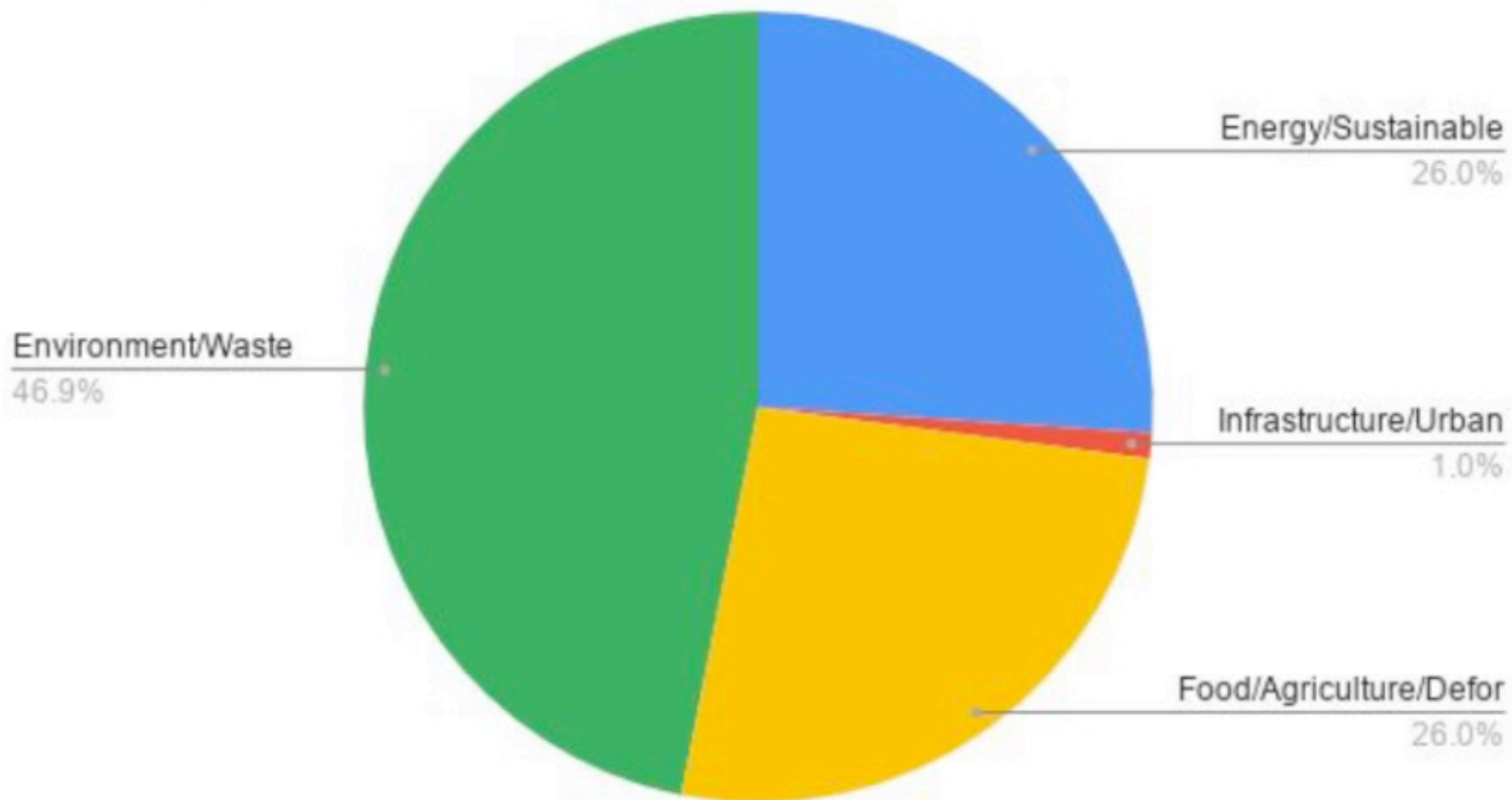


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Project funded by
the EUROPEAN UNION

Challenges



Evaluation criteria



**PROBLEM, MARKET NEED
& IMPACT**



**SOLUTION AND IDEA
DEVELOPMENT**



**CUSTOMER
VALIDATION**



**BUSINESS
MODEL**



**PITCH
PRESENTATION**

Climate Innovation Academy

8 week intensive incubator:

- Weekly workshops
- 1:1 mentoring with dedicated coach
- Learn the startup mindset: understand the key principles of how to build a company.
- Helping startups transform ideas into a viable prototype and identify first users
- Pitch their product or service



 **seedstars**
ACADEMY

CLIMATE INNOVATION LABS

Africa

Creating technology solutions for enhanced climate action



COMMUNITY-BASED
SMART MICROGRIDS
Democratizing energy access for better growth



Afri-Carbon Pay
MONEY GROWS ON TREES

SIMPLI_{FIED}
WASTE

Namanzi
Support your own hydroponic greenhouse

RENAF SOLUTIONS
RENEWABLE ENERGY ACCESS FINANCING, FINANCING ACCESS TO CLEAN ENERGY

**AGRONOVATE
TECHNOLOGIES**
WE SPEAK TECHNOLOGY

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Start up example: Community Smart Microgrids

Elevator Pitch:

We solve the poor energy challenge for communities and residential clusters by providing the enabling infrastructure for peer-to-peer energy sharing and trading.

The problem:

Africa has the highest electricity access deficit in the world. About 600 million people still live without access to modern energy, and this has been a major barrier to real economic growth and socio-economic development.

The solution:

An innovative distributed microgrid system that enables peer-to-peer energy sharing and trading, giving everyone the power to generate, consume and buy or sell electricity to their neighbors, thereby enhancing clean energy access for all.

Achievements:

Partnership with Women Feed Africa, Uganda and successful product validation.



COMMUNITY SMART MICROGRIDS

Democratizing clean energy access

Start up example: Namanzi

Elevator Pitch: We solve food insecurity and access to market for marginalized communities and small holder farmers.

The problem: 690 million people will go to bed hungry by the end of this day and food loss reduces income by at least 15% for 470 million smallholder farmers in Africa.

The solution: We provide hydroponic systems to marginalized and rural communities through crowdfunding to address the problem of food insecurity.

Achievements: Implementing pilot in Mpumalanga, South Africa

- 240 meter square Hydroponic farm
- Able to feed the community all year round
- Materials and labor will be sourced locally (build time 6 weeks)
- Training and skills transfer will be given to the community so they can manage the farms



Learn more about Youth Climate Innovation Labs



Please visit:

<https://www.ctc-n.org/capacity-building/youth-climate-innovation>





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Technology Framework: Collaboration and stakeholder engagement

“Collaboration with and engagement of stakeholders will **enhance interaction between those involved in the development and transfer of climate technology and help to share knowledge and mobilise support.** In this context, stakeholders will provide important input to the work of the Technology Mechanism.

Therefore, the **Technology Mechanism shall work in an open and inclusive, including gender-responsive, manner** whereby stakeholders are invited to participate and actively engage. Collaboration with and engagement of stakeholders **should take place at different stages of the technology cycle.”**