

HBN Creativity & Inclusive Innovation Awards (HBN CRIIA)



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AWARDS

One Peso Internet: PHILIPPINES

Pisonets are standalone internet kiosks that operate by inserting Php1.00 coins in exchange for 5 minutes of internet use. We observed that most users access their Facebook accounts and watch YouTube videos. Pisonets are made by assembling old cannibalized computer parts, CRT / LCD monitor, a digital coin slot & timer. In a nutshell, these are decentralized internet cafes. The need to have affordable internet to those without a smartphone or a computer.

The solution is for the general public, mostly those in the youth sector. Users usually use the solution to access social media sites and entertainment sites such as YouTube.

This means that access to computers and the internet is still a great challenge for people. Just like the PisoWiFi, this is a basic form of the sharing economy where the poor can have access to a computer and the internet through affordable means.

This solution is the next evolution of the internet cafe and presents how internet cafes can be decentralized by bringing it to the customers. There is widespread acceptance by the general public as the arcade game-type design can easily be mobilized and installed in remote areas where there is no access to computers and the internet.

Impact is apparent and observable

Innovator: A collective of Computer Technicians in Quiapo, Manila

The evolution of the PisoWiFi started with the creation of the PisoNet (Piso Internet – computer with internet vending machine). Currently, there are a number of computer technician-entrepreneurs who have started to sell different versions of PisoWiFi with different type of operating systems

<https://medium.com/undp-philippines/saliklakbay-series-the-wizards-of-quiapo-a-solutions-mapping-adventure-8af1e7060870>



Dogs against gender violence: ECUADOR

This solution was created by Andrea Mosquera who shared her experience in the Human Library event organized by Ecuador's Acc lab in January. Andrea is a woman with disability (cerebral palsy) who was assaulted in a park by a man who had followed her. When she was brought down to the floor, suddenly a dog approached them and barked insistently to the point that the attacker had to let her go. Her story: <https://acclabecu.org/en/a-four-legged-hero/> From this experience, Andrea Funded ARNV (Non-violence Rapid Action), a foundation that trains street dogs to protect battered women who have a restraining order.

Innovator: Andrea Mosquera



Caza Mosquitos

Laboratorio de Insectos - IFLA Educación

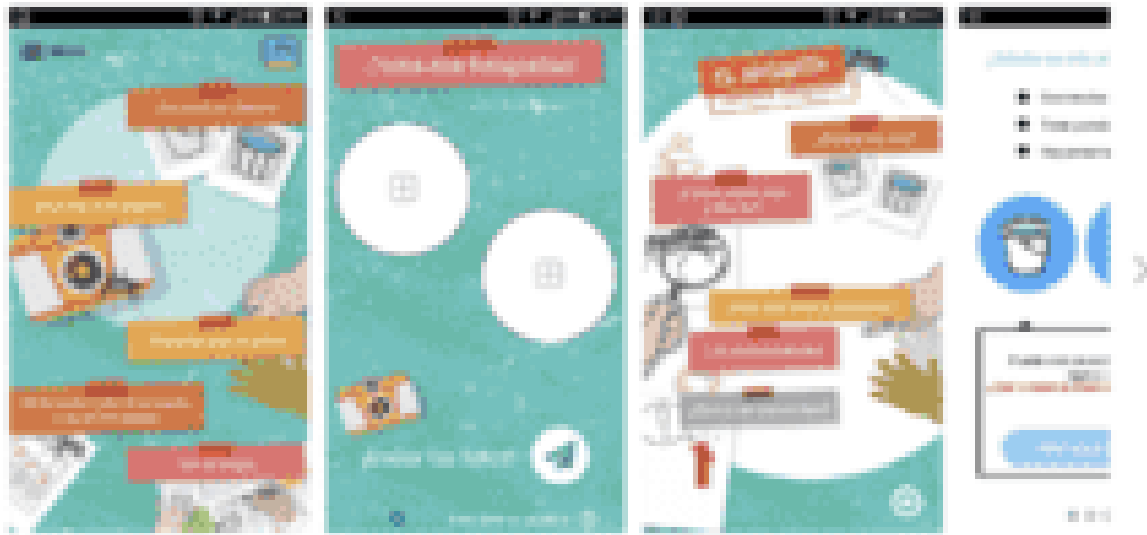
★★★★★



Esta app es compatible con todos tus dispositivos.

Agregar a la lista de deseos

Instalar



Caza Mosquitos es un proyecto de participación ciudadana. Reporta la presencia de mosquitos en tu zona, aprende sobre sus características y a diferenciar las especies importantes. Ayudamos a establecer dónde vivir estos insectos urbanos y colabora con este proyecto (muchos) de ciencia ciudadana!

Opciones

Política de privacidad

Mobile app to identify mosquitoes and, therefore, to prevent vector- borne diseases: ARGENTINA

“ Dengue and Participation, contributions from an educational look and the digital Mosquito Digital Project ”

- Name of the Innovator: Joaquín Cochero, young scientist
- Guide: Dr. Fernando Garelli, CONICET Assistant Researcher, Science Didactics Group (IFLYSIB), Head of Practical Jobs Department of Education UNLu.
- https://www.researchgate.net/publication/322579432_CAZA_MOSQUITOS_Una_herramienta_de_accion_ciudadana_para_colaborar_en_la_prevencion_y_control_de_enfermedades_epidemicas_transmitidas_por_mosquitos



Zyenika Adaptive Clothing Pvt. Ltd. (formerly, Fashionable Readymade Adaptive Wear)

Innovator:

Ms. Soumita Basu, Kolkata, West Bengal

Mo. 7890019085, Email:

basu.soumita@gmail.com www.zyenika.com

Details:

- *The biggest innovation will be in the structural design using different cuts, fasteners and fabrics and lay them out in a creative way clothes that are easy, quick, and painless to wear as independently as possible.*
- *It will adapt to low shoulder movements (like frozen shoulder), poor grip, low backache (like in slip disc), lack of movement of the back on bending and low finger dexterity.*
- *There are two large categories of products- adaptive innerwear and outerwear.*



Easy to wear with the zip on both sides to comfortably slip into without having to raise your hands. The zips are adapted to ensure it's easy to use with only one finger!

Source: <https://zyenika.com/products/>



The top is easy to wear for people with shoulder immobility and weak immobile fingers. The top opens up completely from arm holes on both sides and has easy Velcro closures. There is an option for knee pads for children who crawl.



A simple summery Kurta specially made for senior citizens and people with arthritis, cerebral palsy and frozen shoulders. Easy to wear for those with poor finger grip, poor fine motor skills

Galah Tuis (Fruit packing/wrapping Pole): MALAYSIA

This handy tool enables fruits to be swiftly and easily wrapped directly on tree branches without the need to climb up trees. The innovation protects damage to ripening fruits caused by birds, insects and tree-climbing animals such as squirrels while also reducing the risk of accidents from falling off trees. It is easy to use with minimal maintenance costs.

Innovation : Galah Tuis
Innovator : Azhar bin Ismail
Contact no. : +60 17-540 4872
Email : azhar954@perlis.uitm.edu.my



#YIMThrowbackThursday

Innovator:
Azhar bin Ismail

Innovation:
Galah Tuis

This handy innovation tool enables fruits to be swiftly and easily wrapped directly on tree branches without the need to climb up trees. Other than reducing the risk of accidents from falling off trees, this tool protects damage to ripening fruits caused by birds, insects and tree-climbing animals such as squirrels. On top of that, it is easy to use with minimal maintenance costs.

Yayasan Inovasi

www.yim.my

Yayasan Inovasi

Yayasan Inovasi

The infographic features a green and white color scheme. It includes a photo of the Galah Tuis tool being used on a tree branch, a close-up of the tool's mechanism, and a photo of the innovator, Azhar bin Ismail, holding the tool. Logos for the Malaysian government and the innovation center are also present.

Smartphone with an inbuilt body temperature sensor- UGANDA

Team: SIMI Mobile Uganda/ Engo Holdings Group

Status: Complete

Phone number: 0787 265058

Email Id: tll@simimobile.com

The phones are manufactured and assembled by SIMI Mobile Uganda in Namanve Industrial Park were launched by Evelyn Anite, the state minister for investment.

The phone has infrared temperature sensors integrated into the rear camera block, which can measure one's body temperature.

The phone costs Shillings 380,000 on the open market and it uses the Google Play Store to update itself. It does not require calibrating as is the case with temperature guns.

The in-built sensors can read one's temperature on the surface without attaching it to the body.

Anite launched another product by the same company, a solar-powered feature phone with an in-built solar panel to enable self-charging. It charges itself once placed under the sun and can serve as a power bank for other phones.

The phone locally known as 'Kabiriti', also has social media applications and has a battery capacity of 4,000mAh.

https://web.facebook.com/SIMImobileUG/photos/?ref=page_internal

Life Shelter for displaced population: North Iraq Governorates: IRAQ

- Name: Iraq Response Innovation Lab
- Durable, Environment friendly, cost-effective, affordable and modular shelter solution made entirely with
- Rockwool, compliant with UN standards, with a life expectancy of 15 years+, to provide
- dignity to displaced population.
- Simple and easy to erect and disassemble. Semi-permanent.
- Safe and Resistant: Fire, earthquake and storm resistant. Lockable doors.
- Cost effective: cheap as a tent, good as a house. A 15+ life expectancy vs maximum 2 years for a tent. No need for yearly repair or winterization Kit.

Resulting in • Well insulated : Sound reducing, provide privacy in crowded environment. Cold and heat insulating. • Sustainable and eco-friendly: No trees, 98% plastic-free; All materials are 98% reusable, • Possibility to create social enterprises to assemble and set-it up locally. Sourcing of materials : 80% Local, 20% International • Adaptable and modular Design : 3 size to accommodate households, schools and community centers, providing safety, privacy and dignity.



Tomatoes Shelf Life Enhancer- “Live More”

Innovator details:

Name: Dabu Raja

Address: Visakhapatnam, India

Phone: 9642113002

The innovator has come up with a herbal extract made of leafy vegetables which allows tomatoes to be in good shape and in good condition for at least thirty days.

Ingredients: Water, Hibiscus leaves, Shikakai pods, citric acid, methyl paraben, sodium carboxymethyl cellulose/guar gum powder.

Formulation:

- 20 kgs of Hibiscus leaves are boiled in two equal batches in 10 l of water each, previously boiled and mixed with Methyl paraben, reducing the volume of the Hibiscus solution to half after which citric acid is being added(1 tablespoon per litre of water). Thus, 10 L of Hibiscus solution is produced.
- Two litres of Shikakai solution is being produced after boiling 1 kg of shikakai pods in 3l of water and adding either Sodium Carboxymethyl cellulose or Guar gum powder(1 tablespoon per litre of water).
- The final herbal extract is the result of mixing of both the Hibiscus and Shikakai solution.

Method of application: Ripe tomatoes are dipped in the solution made by mixing 15-20 ml of the herbal extract per litre of water for 15-20 secs. The tomatoes are taken out of the solution and stored in room temperature.



Agro-processing machineries

Innovator details:

Name: Dharambir Kamboj

Address: Haryana, India

Phone number:9896054925

Machine to extract kernels from fresh corn

The innovator designed a machine which will help people to extract corn kernels and corn milk easily.

One has to just put the corn into the machine and the kernels will be ready at the other end.

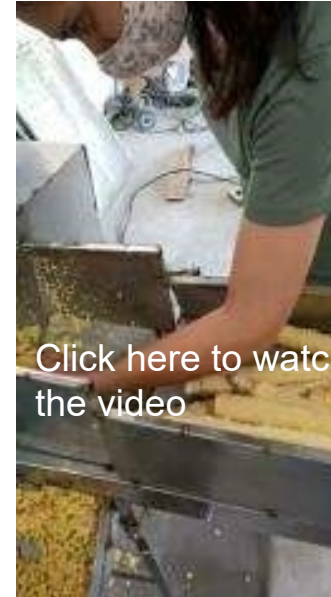
Also, there is a grinder associated with the set up which grinds the kernels to milk if needed.

One person can extract kernels from nearly 200 corns in an hour.

1 kg of kernel is capable of producing 7 litres of corn milk.

Vacuum frying machine

The vacuum frying machine can fry fruits and vegetables with up to 65°C temperature inside a vacuum chamber which keeps the color and nutrition intact. The machine is capable of frying 5Kg of fruits/ vegetables within 20 minutes.



[Click here to watch the video](#)



Modha device replacing Jacquard in Handlooms: INDIA

- Innovation is a game changer for handlooms across the world. Innovator brought electronics to guide the weaver on the handloom for colour selection and no of threads hitherto being done by Jacquard. Easy to install, easy to operate, low cost, no maintenance, unlimited designs by using a pen drive can be weaved on the hand loom.
- Innovator details:

SivaKumar Modha

40 Years

Graduation

Telangana

Phone: 7095810510



COPING WITH COVID CREATIVELY

Isolated bed with enclosure structure

- Innovator details:

Name: Ashokumar Aasarani

Address: Jaipur, Rajasthan

Phone number:9251615722

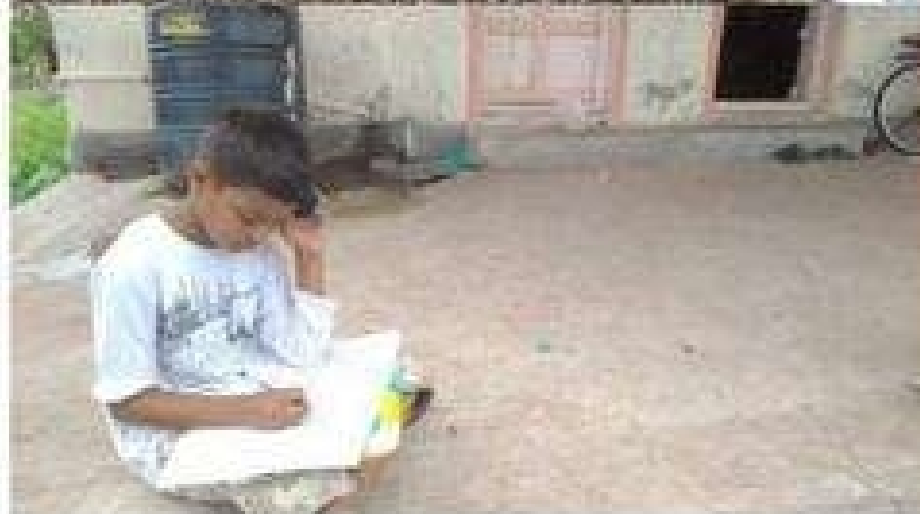
- It is an isolated bed designed to ensure social distancing between the covid positive patients and the health workers treating them. The main aim behind the innovation is to stop further spreading of the virus from one patient to other.
- The design comprises of a detachable transparent enclosure structure which can be mounted on a bed with the patient in it.
- It has a window for providing the patient food and medicine. The window is also useful for accessing the patient for basic medical investigations with minimum contact. The enclosure can also be equipped with essential life-support systems.
- The structure itself is capable of carrying the patient to other places maintaining the isolation.



Teaching Through Conference Calls

- **Balaji Jadhav, Asst. Teacher ZP School Vijaynagar, Satara, Maharashtra 7588611015**

- The teacher has started conference calling from April 2020, because students don't have smart phones at home, they have simple keypad phones, and internet is a major issue in satara. 80% of the students don't have smartphone facility at home.
- Contacting 10 students in one call in the morning and evening 1 hr.
- He has 40 students and in 1 to 4 std. In the beginning of lockdown he used to tell stories in the morning session and in the evening session the same story will be narrated by students. Now he is converting educational topics in story format and teaching through that, so listening gets interested.
- After that he asked students to write down the stories narrated on the phone call.
- In 1.5 month students are skilled in writing and narrating the stories.
- Then he went one step ahead and asked students to record the stories and now there 500 such student recorded stories available.
- Steps are - listening - Writing - Speakiing - Recording
- All stories are available on google drive folder for other school children and teachers



Interactive Soap: Iraq

Name: Field Ready –
Makerspace(Community Initiative)
Interactive Soap which is a soap that contains toys inside it to motivate the children to wash their hands and get the toys. The soap are locally produced and the toys are manufactured by using the 3D Printing mechanism.



Cable Classroom

- **Ashokbhai Dave P C Prajapari High School, Shakheshwar 9427379274**

Arranged a educational lecture series through cable network telecast in rural areas where internet connectivity is a major issue

- Free services provided by Shankheshwar Cable Networ – Mayur Goswami, Krishna Studio and Harsiddhi Computers – Mehul Goswami
- Covering schools of 70 villages and 20000 children of Shankheshwar block
- 350 teachers of block are delivering lectures according to decided time table
- Daily 2 hour lectures are being delivered from last 2 months

બી.વી.ટી. અગ્રણી વિદ્યાલય અને
બી.એલ.ને. ટોલી ઈ.સ. વિદ્યાલય, સામેશ્વર
કોલેજ-સેવેરિયાન વીલ્ડર-૧૪૨

કેબલ ક્લાસરૂમ

સેલ નં-૪૨

માર્ગદર્શક
સાચલબી સારોડભાઈ દવે

અધ્યાપક
પ્રિયાશરિન વા. સવક

સહાયક
સામેશ્વર કેબલરૂમ, વિજ્ઞાન શુદ્ધિ અને કાર્યવાહી સેન્ટર



APPRECIATION

Cassava & Sargassum Bioplastic: BARBADOS

Bioplastic: Non-food packaging alternative made of cassava starch waste and sargassum seaweed collected from beaches in Barbados.

Name: Kerri-Ann Bovell

Contact: kmebovell@hotmail.com, kerri-ann.bovell@mycavehill.uwi.edu

- The innovator Kerri-Ann Bovell has not started production or selling. She has developed a prototype and done testing only thus far.
- <https://www.bb.undp.org/content/barbados/en/home/presscenter/pressreleases/20191/eight-pitch-innovative-solutions-to-blue-economy-challenges.html>



Drinking straws from coconut leaves

Innovator details:

Name: Saji Varghese

Address: Bangalore, India

Email: saji.varghese@christuniversity.in

He has come up with an innovation of biodegradable straws from naturally fallen coconut leaves. They have also developed four machines for the production process which can be given to women groups in rural areas and engage them in the production of straws. The straws have received good response globally as it is made in a chemical free process taking advantage of the natural wax in dry coconut leaves which makes it hydrophobic and antifungal.

The straw varieties range from 3mm to 13 mm diameter and customized lengths and are priced between Rs.2.80-Rs 4:70 per straw for the various dimensions for bulk purchases.



Modification in Electric Plug

Innovator details:

Name: Ravi Kumar Sharma

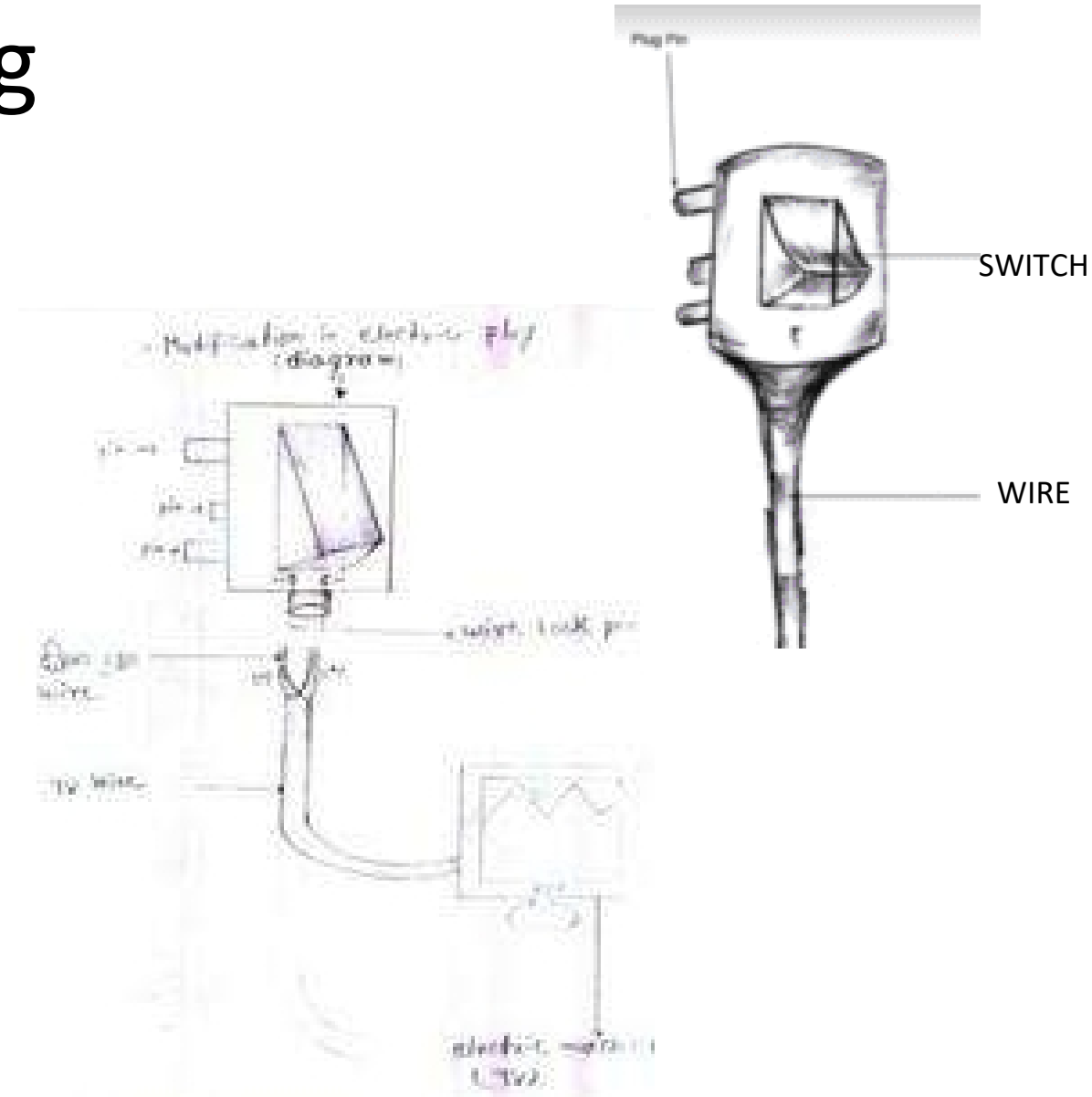
Address: Jamui, Bihar

Phone number: 9576488423

The idea is to attach a switch with the electric plug which will stop passage of electricity to the electronic appliance connected through the plug.

With this there will be no need for the user to remove the plug from the socket after each usage of the appliance.

Again, in case of any damage in the switch of the 'modified electric plug', there will be no harm caused to the appliance. One can simply change the switch and the plug will be in the working condition again.



Sun Handloom for disabled



In order to Solve the problem of disabled weavers who cannot operate shafts by their legs, the innovators made a new mechanism by adding hand-levers to raise and lower the head shafts.

So this new loom is fully operated by hand levers and no need of foot to run this loom.

Kapil Vaidya

Handloom Manufacturer, Himachal Pradesh

9958803655