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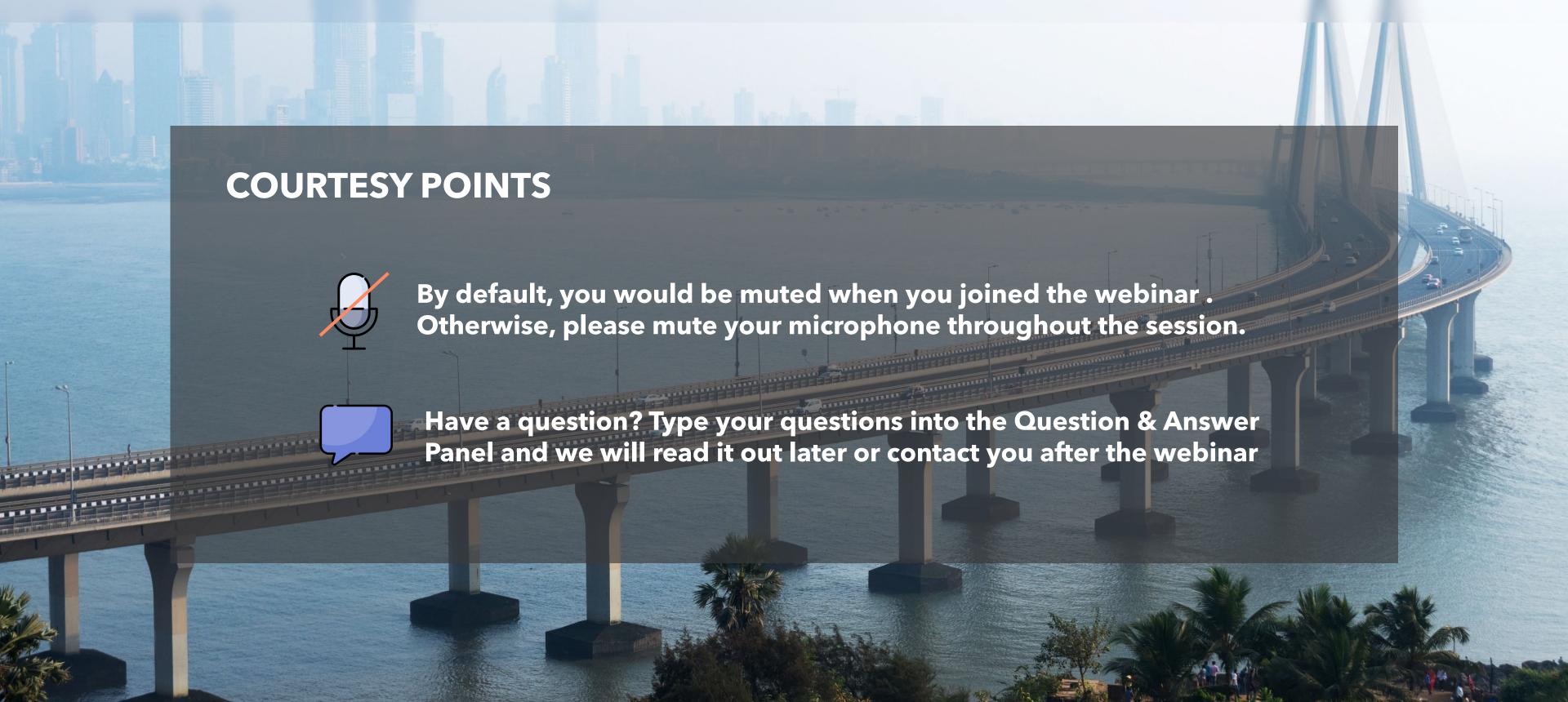


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Learn with us

- About markets
- About new customers
- About Free Trade Agreements

Because knowledge is power.

Land with us

- Dedicated digital spaces
- Established networks
- Hands-on advice and facilitation

Scale and grow smartly.

Localise with us

- Trusted relationships abroad
- Deepen market presence
- Secure long-term sustainability

Because network is net worth.

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PROGRAMME LINE UP

2.30 - 2.35 pm	Opening remarks by Singapore Business Federation
	Mr. Prasoon Mukherjee, Vice-Chairman, South Asia Business Group, Singapore Business Federation
2.35 - 2.50 pm	Keynote Address
	Ms. Sahana Danasekaran - Associate Vice President, Guidance Tamil Nadu
2.50 - 3.00 pm	Ecowrap Mr. Angraj Swami, Founder & CEO
3.00- 3.10 pm	Nature Bio Plastic Products
	Ms. Parthi <mark>b</mark> a Bharathi, Founder
3.10 - 3.20 pm	Zodhya Tech Mr. Rohith Pallerla , CEO

3.20 - 3.30 pm	Asun Trackers Mr. Varun Sachar, Founder & CEO
3.30 - 3.40 pm	Ossus Biorenewables Ms. Suruchi Rao, CEO & Founder
3.40 - 3.50 pm	FlyCatcher Technologies Mr. Kabir Udeshi, Founder & CTO
3.50 - 4.00 pm	Arishti Cybertech Mr. Kanak Kawadiwale, Founder & CEO
4.00 - 4.10pm	Cyberange Mr. Rajshekhar Pullabhatla, Co-Founder & Director
4.10 - 4.20pm	Payatu Mr. Aseem Jakhar , Co-Founder/Director R&D
4.20 - 4.30 pm	Q&A

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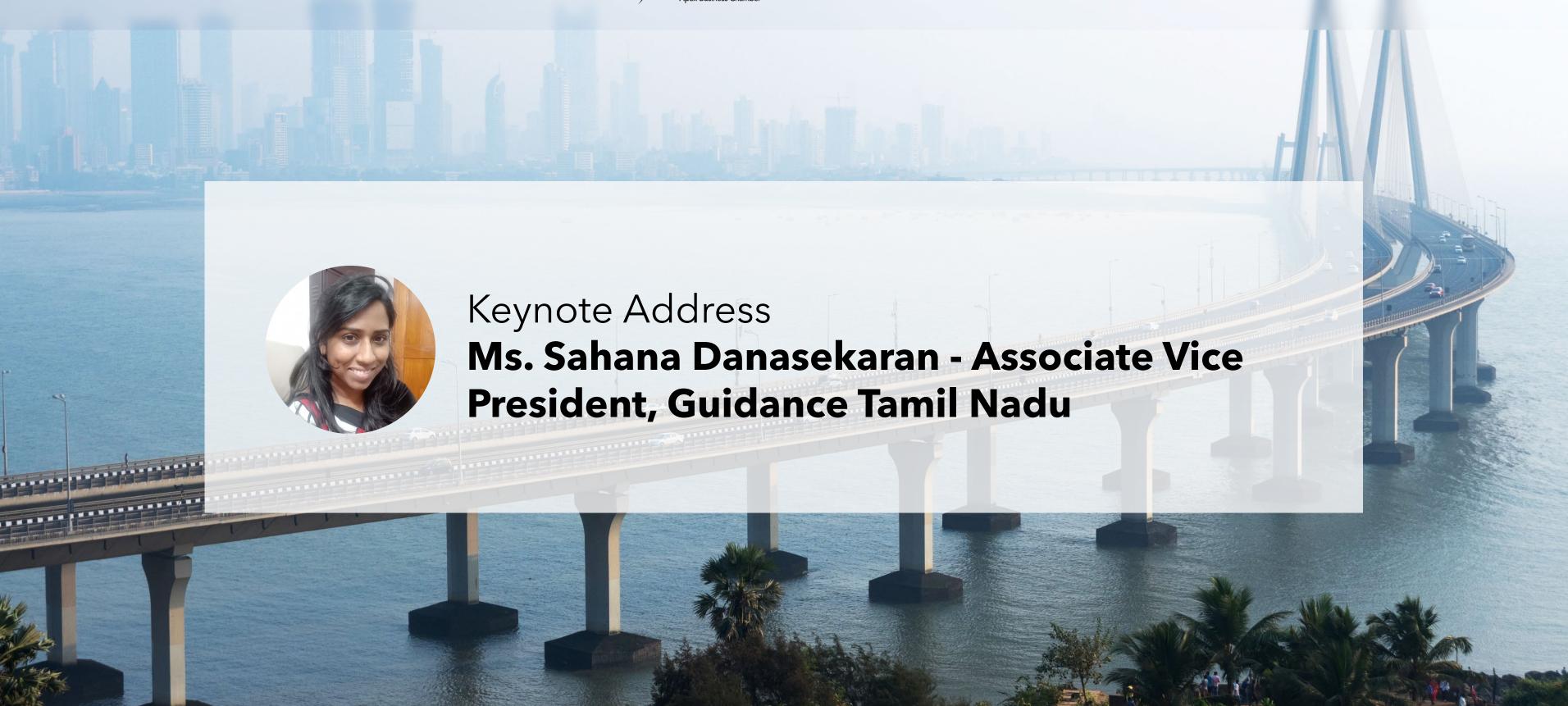
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Cleantech

Clean Energy

- Renewable Energy Generation
- Energy Efficiency
- Storage Technology
- Smart Energy
- Alternative Fuel
- Solar Power Efficiency

Transportation

- EV Manufacturing
- EV Charging Infrastructure

Circular Economy

- e-Waste Management
- Plastic Recycling
- Biowaste Management
- Waste Water Recycling

Cyber Security

Artificial Intelligence & Machine Learning

Cyber Security Automation

Cyber Security as a Service

Secure Access Service Edge

Cloud based Security

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SOLUTION



Ecowrap Provides-

- A) Free IoT Dustbins
- B) Tech interface
- C) Training for segregation

Incentivise waste generator for segregation at the source

It **PAY** and **COLLECT** all type **source segregated** waste

Ecowrap is –

- A) One stop solution for waste collection, tracking, recycling & up-cycling
- B) Financially viable model by adding extra buffer of Up-cycled & FMCG products

MECHANISM







Pre-Auto Designed Route



IoT Dustbins for primary segregation given by Ecowrap



Instant pick-up request



Instant pick-up request send to nearest cart to location

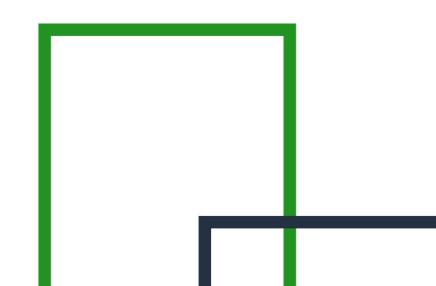


60% amount to
HORECA
(Digital tokens/Incentives)





40% amount to 'Green Champion'



Use of incentives



USERS HAVING TOKENS IN 'ECOWRAP' WALLET

COURSE OF ACTION BY USERS
TO REDEEM TOKENS

CHANNELS TO REDEEM TOKENS





Hotel



Request by 'Green Champion' to convert tokens into bank account ...

Request by HORECA to convert : tokens into bank account

HORECA order FMCG products on our marketplace

OUTPUT THROUGH CLOUD

Order is transferred to listed supply chain vendors

Order is delivered to HORECA by our FMCG vendors

Banks



Stores



TREATMENT OF WAS TE



Treatment of waste











UP-CYCLED old tyres













UP-CYCLED old tyres













UP-CYCLED glass bottels





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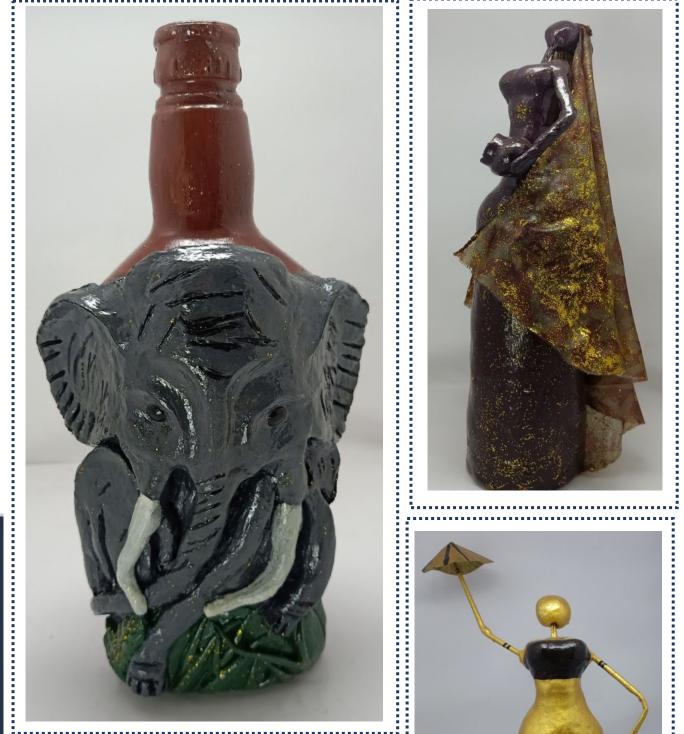






UP-CYCLED glass bottles













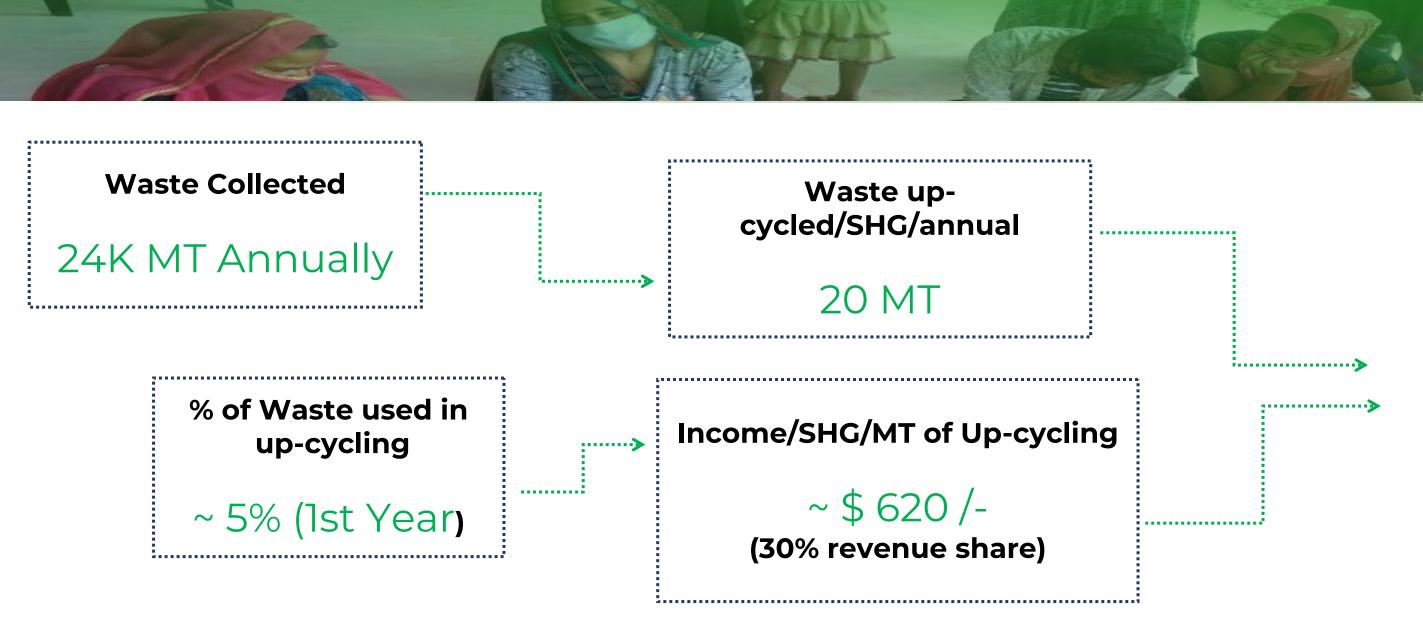






IMPACT MaTRIX 3rd Year



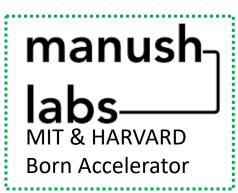




AWARD & RECOGNISATIONS



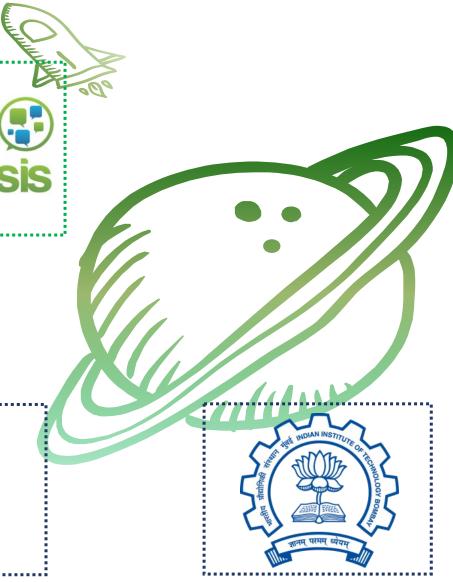












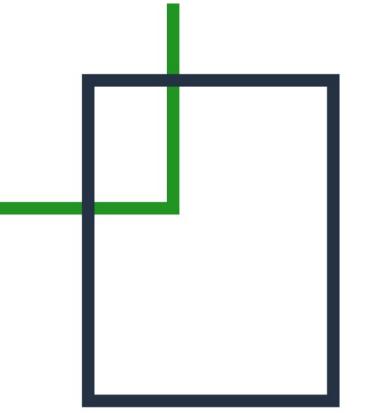
IIT Bombay Finalist-20

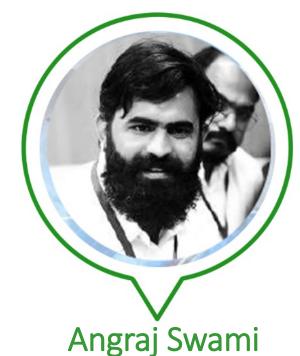


United Nation's Youth CO:Lab Winner-20



WTFL Switzerland Finalist-19 & 21





Executions

•Graduate in Physics hons. (Delhi University)

•4 years of Experience in waste Management



Logistics

•Graduate in chemistry (Delhi University)

•4 years of experience in logistics.



Manoj Sabu Waste handling

• Graduate in Computer Science (Raj. University)

•5 year of experience in Business Development





Ajay Buri
Product Development

■B.Tech form IIT KGP

•4 year of exp in product development at topper.com

Seed fund

From





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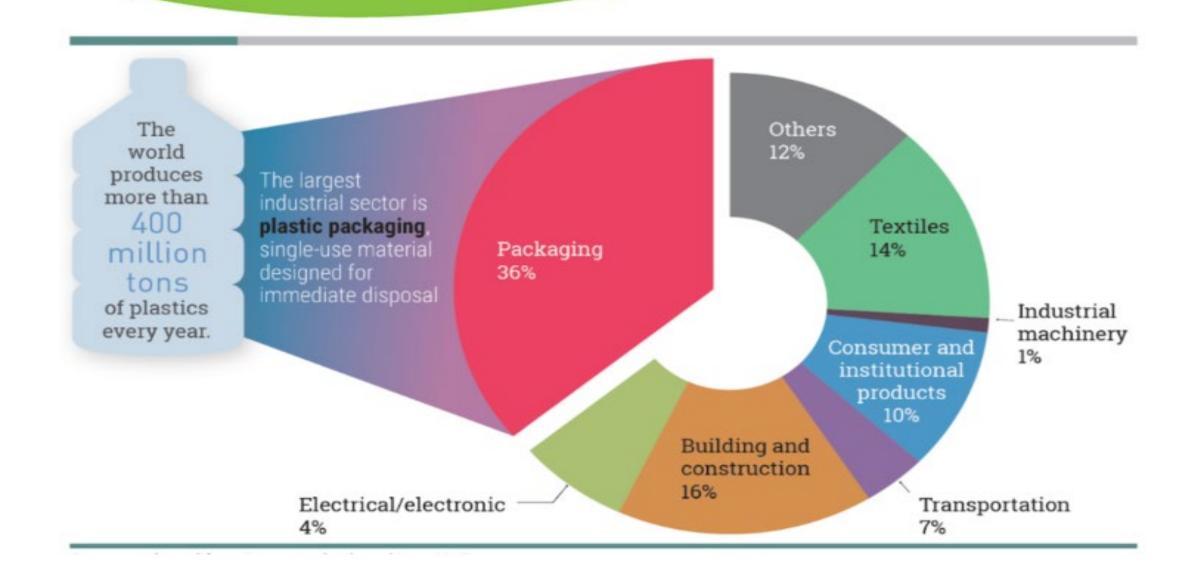








Market Scope:







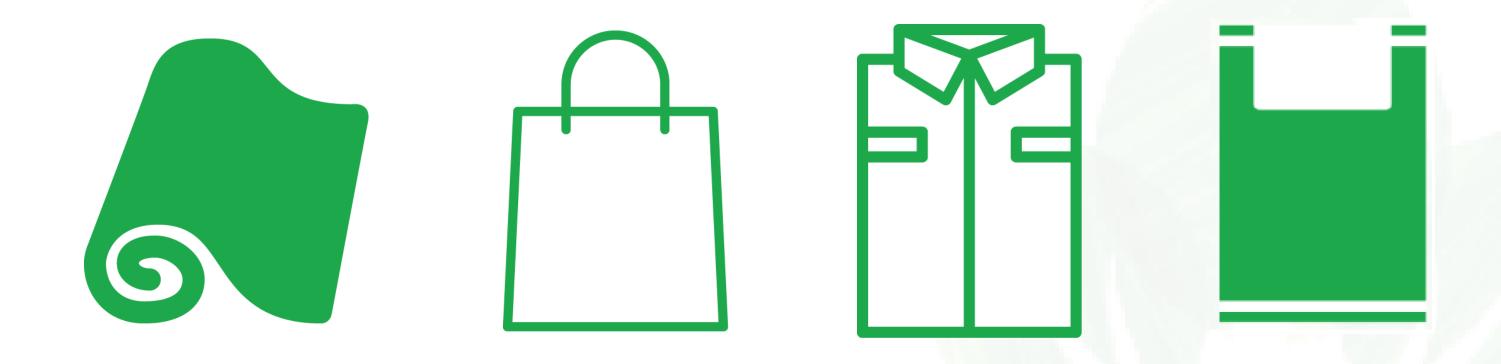






- Over USD 3 billion Size of the Indian plastics and polymers industry in 2018.
- In 2018, plastics export from India stood at USD 5 billion
- India stands third in polymer consumption globally after China and US.

About Us



Nature's Bio Plastic is into Manufacturing and Supplying of biodegradable plastic covers for Packaging, Shopping, Garbage, Textile segments.

These products are 100% biodegradable (environmental friendly), made out of natural materials like corn starch, vegetable oils, natural colors, etc.



Biodegradable & Compostable Garment and Apparel Bags

- Engineered to provide high level of packaging performance and protection for garments.
- Ultraviolet Protection.
- Breathable Material ROHS Compliant and do no contain any heavy metals or toxic material.
- Made from renewable resources and therefore enable brands to reduce the carbon footprint of their products.
- Sustainable Biodegradable & Compostable Covers (End of Life).



Biodegradable & Compostable Shopping Bags, Carry Bags, Garbage Bags

- We offer an extensive range of carry bags, garbage covers, etc
- Our Products do not contain polyethylene or polypropylene.
- Offer additional benefit of potential final use as biowaste bag.
- Potential reduction of CO2 footprint, GHG emissions and fossil energy consumption.
- Our Products can be used in departmental stores, hotels, restaurants & shopping malls.



Biodegradable & Compostable Industrial Packaging

- We Supply Our Biodegradable & Compostable Products to many Industries.
- Our Products are used in Packaging of Auto Parts, Dust Covers and Commercial Applications.
- A Real Environmentally Friendly Packaging Bag For Magazines/Leaflets/Newsletter/Advertising Article Products Which Is Biodegradable And Compostable.
- We offer Perforation films & bags also.

Composting Process:





















2 Carry Bags



3 Transparent POuches



4











- D Cut Bags
 - **Carry Bags**

Garbage/Trash Bags



Pouch

Extrusion Machine:



Our Setup









Supporting Machinery:









Certifications:

केन्द्रीय प्रदूषण नियंत्रण बोर्ड CENTRAL POLLUTION CONTROL BOARD पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरव

PROVISIONAL CERTIFICATE TO MANUFACTURER FOR MARKETING AND SELLING OF COMPOSTABLE CARRY BAGS/PRODUCTS

Provisional Cert. No.-B-17011/7/PWM(COMP)/2020(NBPPL) Dated::31/08/2020

To.

M/s. Nature's Bio Plastics Pvt. Ltd. C/O A/C, ALEAP we Hub, ALEAP Industrial Estate, Survey No- 342, Pragathi Nagar, Kukutpally, Hyderabad-500072

With reference to the application no. Nil, dated 11.11.2019 & subsequent communication, this is to certify that M/s. Nature's Bio Plastics Pvt. Ltd. C/O A/C, ALEAP v/e Hub, ALEAP Industrial Estate, Survey No- 342, Pragathi Nagar, Kukutpally, Hyderabad-500072 is fulfilling the criteria as per revised Standard Operating Procedure (SOP) for issuing certificate as per the provisions '4(h)' & '11(c)' of Plastic Waste Management Rules, 2018, for marketing and selling of compostable carry bags/products such as in Indian Market as 'MANUFACTURER'.

Central Pollution Control Board, hereby, grant the permission to M/s. Nature's Bio Plastics Pvt. Ltd. C/O A/C, ALEAP v/e Hub, ALEAP Industrial Estate, Survey No- 342, Pragathi Nagar, Kukutpally, Hyderabad-500072 as 'MANUFACTURER' for Marketing and Selling of compostable carrybags/products in Indian Market.

THE PROVISIONAL CERTIFICATE SHALL BE VALID FOR THE PERIOD OF SIX
(6) MONTHS FROM THE DATE OF ISSUE OF THE LETTER

GENERAL CONDITIONS

- The Certified 'MANUFACTURER' M/s. Nature's Bio Plastics Pvt. Ltd., shall comply with the provisions of '4(h)' & '11(c)' of the PWM Rules, 2018, notified under the Environmental (Protection) Act, 1986.
- ii. The certified Manufacturer M/s. Nature's Bio Plastics Pvt. Ltd., shall comply with conditions for compliance as per any Guidelines issued from time to time by the Ministry of Environment, Forest & Climate Change or Central Pollution Control Board.

Diny .

Contd....2

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032 Parivesh Bhawan, East Arjun Nagar, Delhi-110032 दूरभाष/Tel: 43102030, 22305792, वेबसाईट/Website: www.cpcb.nic.in 2-

- iii. If the certified Manufacturer M/s. Nature's Bio Plastics Pvt. Ltd., is found noncomplying with the provisions of the PWM Rules, 2018, the Certificate shall stand cancelled.
- iv. Each carrybag made from compostable material or plastic shall bear a label "COMPOSTABLE" IS/ISO:17088 titled as Specifications for "Compostable Plastic" in English & regional language. Each carrybag shall also have printed M/s. Nature's Bio Plastics Pvt. Ltd., code: NBPPL and Certificate Number of "MANUFACTURER".
- The Manufacturer M/s. Nature's Bio Plastics Pvt. Ltd., shall provide quarterly report giving details of raw material procurement and product sale to CPCB.
- This certificate is issued with the condition that the manufacturer shall manufacture/sell the compostable carrybags/products only after they obtain a valid Registration for manufacturing of Compostable carrybags/products from concerned SPCB/PCC. This Registration should be submitted to CPCB upon its receipt from concerned SPCB/PCC.
- vii. This certificate is issued with the condition that the manufacturer shall submit a fresh interim test report of the sample within Six (6) months from the date of issue of Provisional Certificate as per Indian Standard IS/ISO:17088 (as amended time to time) and complete test report of the sample, including seed germination and heavy metal analysis test (after 180 days) as per Indian Standard IS/ISO:17088 (as amended time to time) from CIPET or any other CPCB recognized Government laboratory having adequate testing facilities for issuing Final Certificate, failing which, the Provisional Certificate shall stand cancelled.

AUTHORIZED SIGNATORY (with designation and seal)

Test Report:

रसायन एवं उर्वरक मंत्रालय, भारत सरकार जेएनएम कैम्पस, एलूर, उद्योगमंडल पी. ओ. कोच्ची, केरल - 683 501. फोन: 0484-2547741, 2547742 ई-मेल: kochi@cipet.gov.in, cipetkochi@gmail.com वेबसाइटः www.cipet.gov.in मख्यालयः गिणडी, चेन्नै: - 600 032



सिपेट:आई पी टी-कोच्ची /परीक्षण/२०१९-२० CIPET:IPT-Kochi /Testing/2019-20/ 021

सेवा में / To M/s. Nature's Bio Plastic Pvt. Ltd., C/O AIC ALEP We Hub, **ALEAP Industrial Estate** Survey No. 342, Pragathi Nagar

Kukatpally, Hyderabad-500072

प्रिय महोदय / Dear Sir,

विषय: नम्नों की परीक्षण - संदर्भ में। Sub.: Testing of samples - Reg.

Ref.: Your letter dt.06.11.2019

हम इसके साथ परीक्षण के लिए प्रस्तृत नम्ने से संबंधित टेस्ट रिपोर्ट क्रमांक 19611 दिनांकित 24.03.2020 संलग्न कर रहे हैं।

We are enclosing herewith Test Report No. 19611 dt. 24.03.2020 pertaining to the samples submitted for testing.

कपया संलग्न कस्टमर फीडबैक फॉर्म भरकर वापस भेजने का कष्ट करें।

Please find enclosed herewith the feedback form. Kindly fill and send it back to us.

धन्यवाद तथा सबसे अच्छी सेवा देने का आश्वासन के साथ,

Thanking you and assuring you our best services,

सादर, / yours sincerely.

प्रमुख निदेशक और प्रमुख Principal Director & Head

संलग्न यथोक्त / Encl. as above.

CIPET: INSTITUTE OF PLASTICS -TECHNOLOGY (IPT) KOCHI

Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India JNM Campus, Eloor, Udyogamandal P. O. Kochi, Kerala - 683 501. Ph: 0484-2547741, 2547742 email: kochi@cipet.gov.in, cipetkochi@gmail.com Web: www.cipet.gov.in Head Office: CIPET, Guindy, Chennai - 600 032

> दिनांक : २४.०३.२०२० Date: 24.03.2020

सिपेटः इंस्टिट्यूट ऑफ प्लास्टिक्स टेक्नॉलाजी (आई पी टी) - कोच्चि रसायन एवं पेंटोरसायन विभाग रसाधन एवं उर्वरक मंत्रालय, भारत सरकार

जेएनएम कैम्पस एल्र उद्योगमंडल पी.ओ. कोच्चि, केरल - 683 501 फोन : 0484-2546740 ई-मेलः kochi@cipet.gov.in, cipetkochi@gmail.com वेबसाइट : www.cipet.gov.in मुख्यालय :गिण्डी, चेन्नै : 600 032



प्लास्टिक्स परिक्षण केंद्र PLASTICS TESTING CENTRE परिक्षण रिपोंर्ट **TEST REPORT**

Issued to: M/s. Nature's Bio Plastic Pvt. Ltd., C/O AIC ALEP We Hub,

ALEAP Industrial Estate Survey No. 342, Pragathi Nagar Kukatpally, Hyderabad-500072

Ref: Letter dt. 06.11.2019

INTERIM REPORT

BIODEGRADABILITY TEST AS PER IS/ISO 17088

Date of Initiation : 21.11.2019

Date of Completion: 20.03.2020

1. Sample Detail

: Compostable Film (as declared by the party)

2. Material Identification by FTIR : Blend of Polylactic Acid(PLA) and

PolybutyleneAdipate Co-Terephthalate (PBAT)

3. Observations:

(1) Conditions of reaction Mixture

Origin of Compost : Livestock excrement, municipal and vegetable waste

Reaction Temperature : 58°C (±2°C)

Dry Solid (%) . 52 02 %

Volatile content (%)

CO2 evolved during first 10 days

in blank vessels :60.87 mg/g of volatile solids of compost

Test Duration (Days) :119 Days

Reference material : Cellulose

Volume of reaction Vessel : 3000ml



Department of Chemicals & Petrochemicals Ministry of Chemicals & Fertlizers, Govt. of India JNM Campus, Eloor Udyogamandal P.O., Kochi, Kerala-683 501 Ph: 0484-2546740 E-mail:kochi@cipet.gov.in, cipetkochi@gmail.com Web: www.cipet.gov.in Head Office: CIPET, Guindy, Chennai-600 032

क.सं. / SI.No. 7112

Test Report No: 19611 Date: 24.03.2020



Test Report No :19611 Date: 24.03.2020

6. Disintegration- After 12 Weeks



Comments

Percentage of disintegration of submitted sample is determined based on the sieve analysis and visual examination. After 12 weeks the sample is passed through 2.0 mm sieve and total mass retained is determine as 9.1%.

Further, the submitted sample is not distinguishable in the organic compost. The above observation indicates that the submitted sample demonstrates satisfactory disintegration.

Note

The submitted sample is exposed under controlled compost condition as per ISO 14855-1 and at the end of 119 days, the cumulative biodegradation is estimated as 90.74% with the reference to the degradation of the cellulose. The test is being continued as per IS/ISO 17088 to evaluate seed germination and heavy metal analysis. The final report will be issued after completion of the

REMARKS

NB: i) The results stated above related only to the items tested.

ii) This Test Certificate shall not be reproduced except in full without the written approval. iii) Details of test subcontracted - Nil



केन्द्र : अहमदावाद, अमृतसर, औरंगाबाद, अगरतला, बद्दी, बालासोर, बेंगलुरु, भोपाल, भुबनेश्वर, चंद्रपुर, चेन्नै, देहरादून, गुवाहटी, ग्वालियर, हैदराबाद हाजीपुर, हिल्दिया, इम्फाल, जयपुर, कोच्ची, लखनऊ, मदुरै, मुरथल, मैसुरु, रायपुर, राँची, वलसाड एवं विजयवाडा Ahmedabad, Amritsar, Aurangabad, Agarthala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Guwahati, Gwalior, Hyderabad Hajipur, Haldia, Imphal, Jaipur, Kochi, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad & Vijayawada





The choices that we make today will define our collective future.

The choices may not be easy. But through awareness, technology, and a genuine global partnership, I am sure we can make the right choices.

Let us all join together to beat plastic pollution and make this planet a better place to live.

"We are committed to eliminate all single-use plastic by 2022"

PM. Narendra Modi



Thank You

Contact:
Pratibha Bharathi - 9700861653
Praveen Kumar - 9000802375

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Major Concerns

In 2020, CO₂ emissions due to Electricity usage stand at 33100 MtCO₂ globally.

EEA

An advanced state like California suffered rolling blackouts, caused by Climate Change & Poor Planning.

LA Times

50% Emissions can be reduced with Efficiency in Energy.

BEE

WHY NOW?

- The world is increasingly aware of Climate Change & looking out for sustainable solutions.
- Technology development in the areas of AI & Cloud computing assisting the innovation of new solutions.
- Increasing Energy Bills (has been doubled over the past 10 yrs) & high Carbon footprint needs to be addressed.



PROBLEM

"According to E&Y,
Measures like sanitization have
increased the operating
expenditure along with the
ongoing expenses like Rents, Airconditioning and staff salaries.

"Energy bills consuming up to 30% of Operational expenses" 70% of the energy bill is through HVAC/ Air-conditioning

Has to operate min. 10-12hrs/day irrespective of occupancy

Managing CHAIN of spaces is a Burden in the Absence of CONSISTENT optimization systems

Upfront investment in a pandemic world isn't feasible





Hardware



Savings on the energy bill up to 35%

Subscription

Outcome based pricing

Software

Manage electrical aspects of the space from any part of the world





HARDWARE



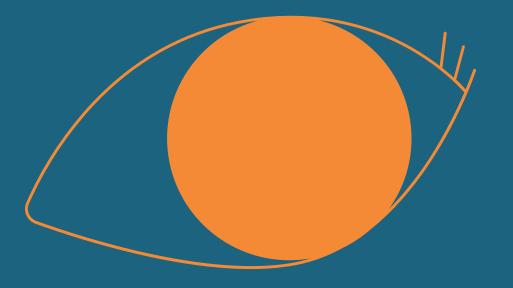
CLOUD-BASED PORTAL

- Al-based algorithm: Based on least energy consuming path
- Externally attached to HVAC
- Avg. saving of 20% (15-35%)

Real-time ML

- Detect faults & repairs
- Identify inefficiencies
- Monthly reports



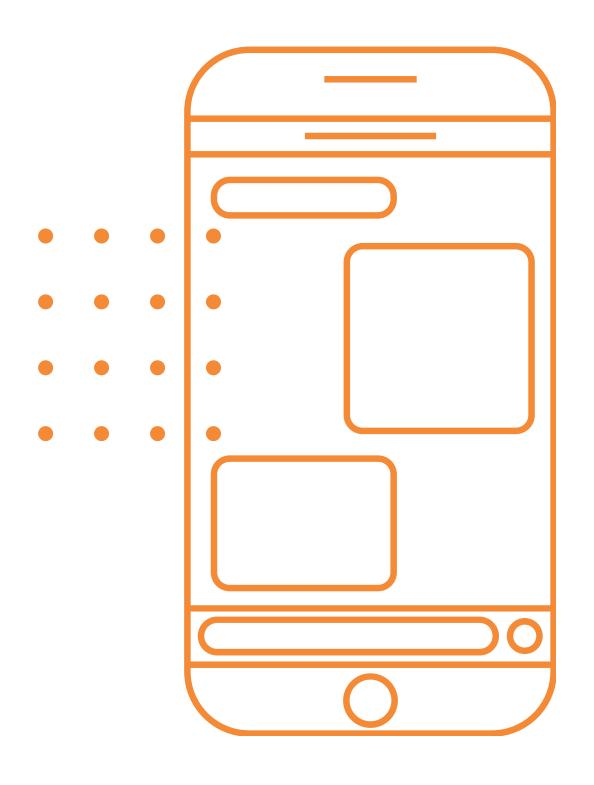


HERE'S A WAY ZODHYA CAN CONTRIBUTE

USER-LOW CARBON INTERFACE

Helping large-scale users meet their net-zero emissions target by:

- Letting the C&I know where their buildings stand w.r.t Carbon footprint
- Connecting microgrids/ renewables (low carbon resources) to large-scale C&I to reduce demand on the grid at certain times of the day
- Improving the energy-efficiency for consumer, which will reduce the impact of abrupt demand



^{*}Peak demand can be reduced by 5%, adding flexibility to the grid

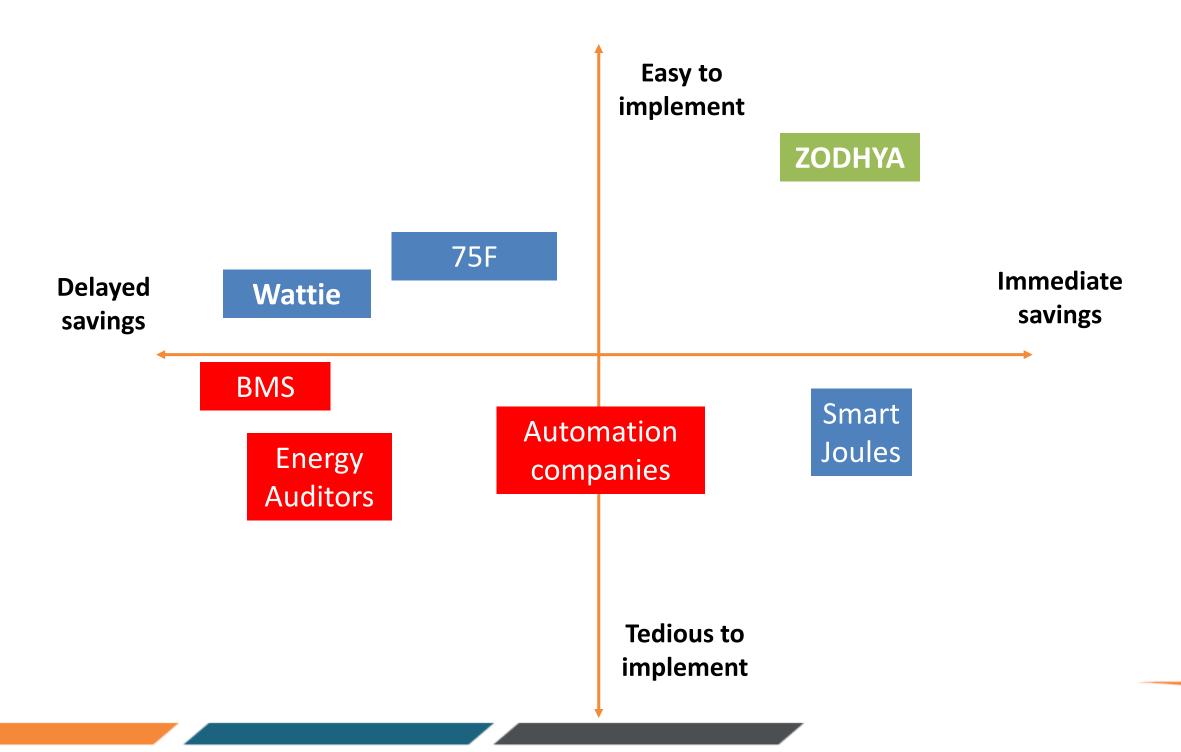
HOW ARE WE DIFFERENT?

USP

 The savings are incurred during USAGE, unlike IoT or analytics which involve Post-Manual methods to save

Advantages/ Barriers

- Algorithm tough to replicate
- Versatile nature of the product. Applicable to various spaces



Subscription based on retained savings

Customer pays a % of the savings* on bills every month



CLIENTELE











THE EXECUTIVE CENTRE

Operating in India. Extending to EU, South-east Asia, Aus



CLIENT TESTIMONIALS

We wanted something where we could reduce on our energy consumption. You

guys stepped in and said you reduce by 20%.

Earlier our bills were about 1 lac per month, now it's hovering around 80k. That's a great contribution.



Siddharth, Radiance Facility manager

11

I was in Bangalore on a meet recently when there was a power shutdown in our office. Just by looking at my desktop web portal, I was able to contact our electrician and fix it beforehand. This is an efficiency I never thought was possible.



Alaaarswamv. TVS proiect head



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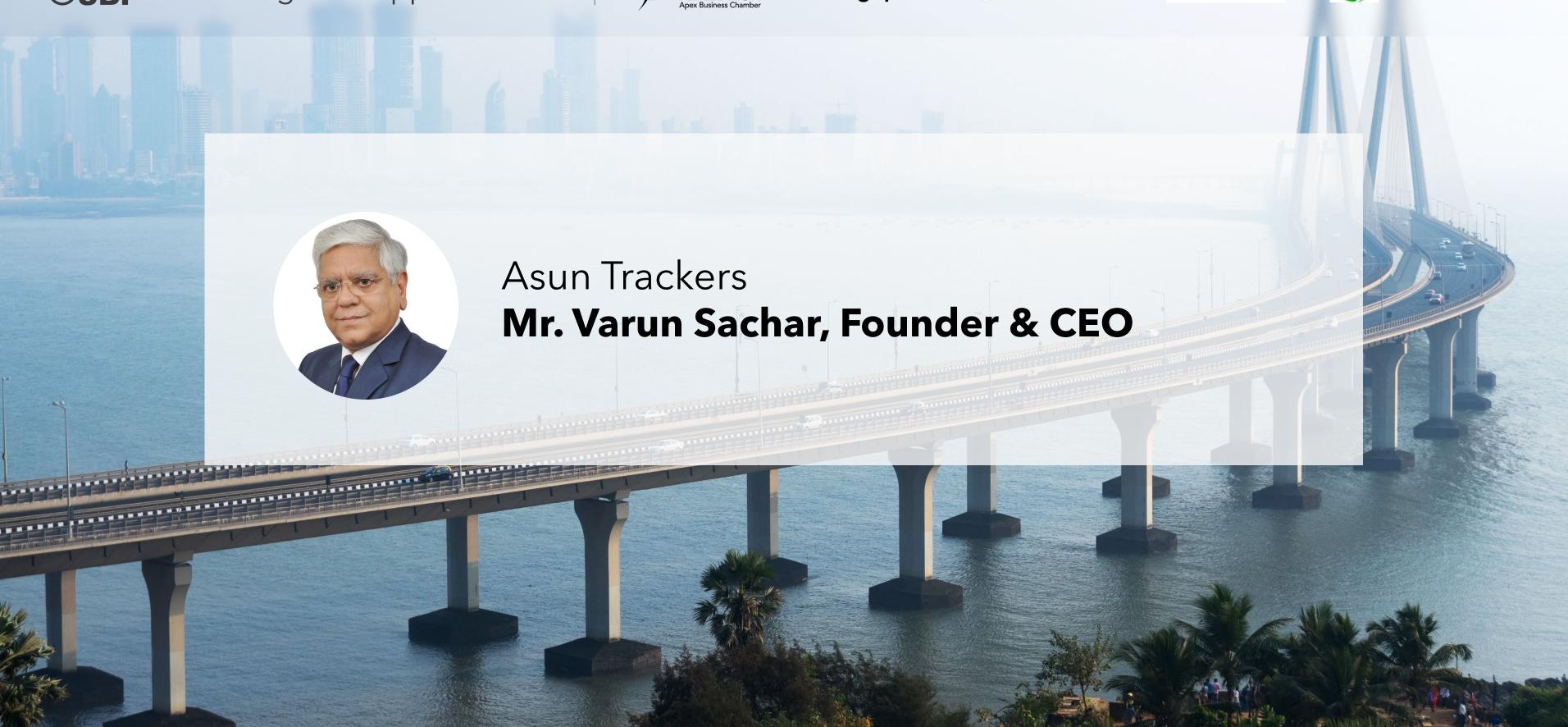
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TRACKERS

Product Presentation

Imagination is more important than knowledge.

Knowledge is limited. Imagination encircles the world.

- Albert Einstein

GROWTH OF SOLAR PV



Past decade has witnessed an exponential increase in the growth of Solar PV all over the world.

A big factor in this increased adoption has been the constant improvement in technology as well as reduction in price of solar panels.

This growth has also resulted in tremendously improved LCoE of solar energy. Today it is at par with or even lower than that of Thermal energy.

These developments along with global concerns about emission cutbacks have catapulted Solar PV to a viable alternative, attracting attention of large investors.

EFFICIENCY IMPERATIVES



Along with this increase in growth and resulting competition there also has been a steady and dramatic fall in tariffs for solar energy.

This has resulted in cost optimisations with focus on both the BoS and Panel costs. However they have reached a plateau.

The only way forward is a closer look at operational efficiencies.

CUF remains the single largest factor in the competitive play for developers.

For example:

A 3% drop in CUF can result in over 7 % per cent fall in equity returns*

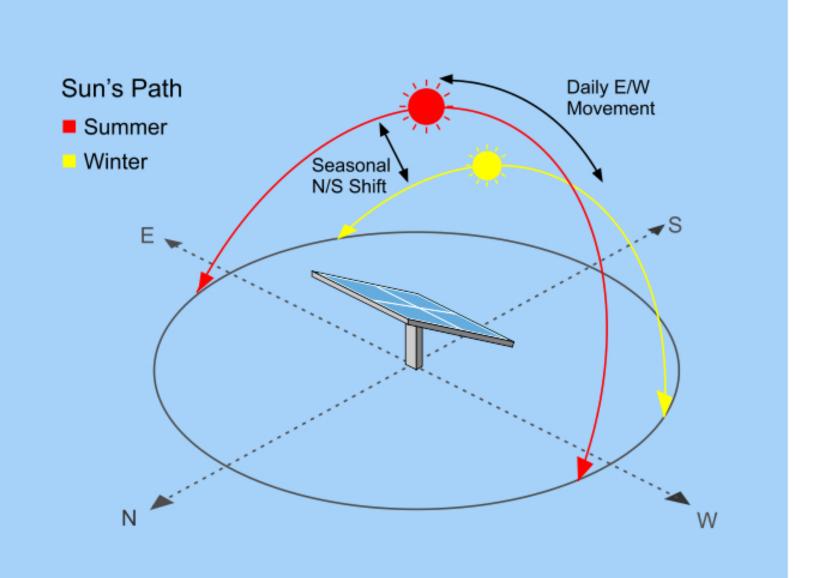
A consistent increase in yield is the only way to achieve higher CUFs and improved IRRs

HOW TO MAXIMISE YIELD



Now the sun as we all know, moves east to west during the day. This east west path also shifts along north south during the year. It is higher during summers and lower during winters.

The amount of electricity generated off a solar PV module is maximum when the angle of solar incidence on the module is perpendicular or at normal.

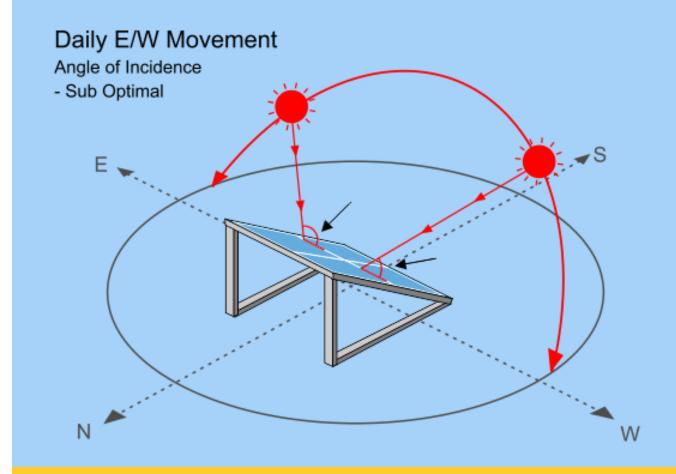


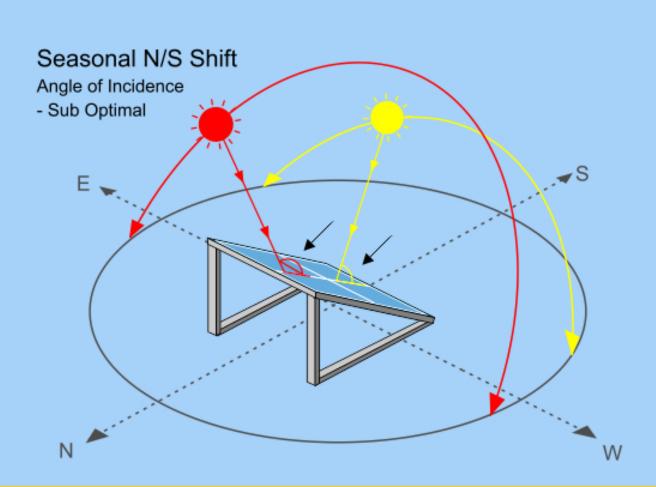
PREVALENT OPTIONS



Fixed Tilt

Modules are fixed at an angle determined as per location, so as to receive the aggregated near normal incidence.



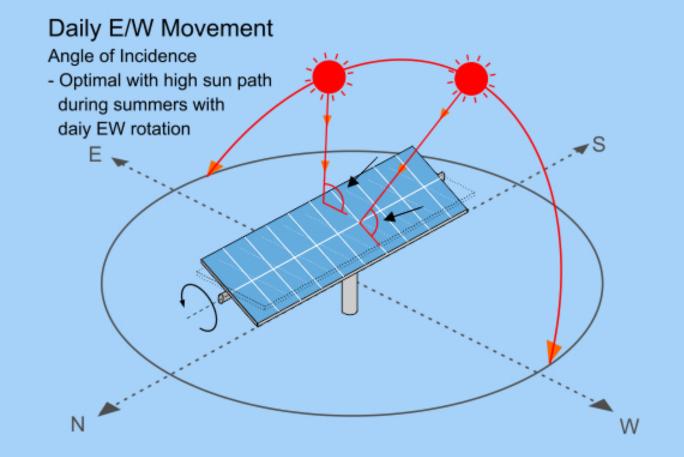


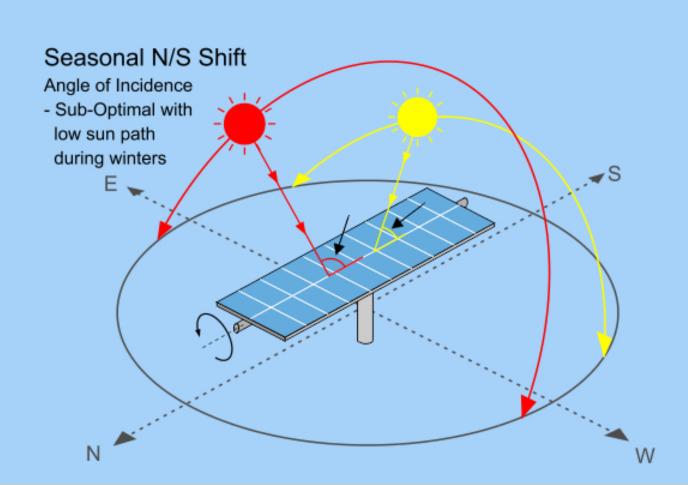
PREVALENT OPTIONS



Single Axis Tracking

Modules mounted on a torque tube along the north south axis parallel to the ground. The modules move east to west along this axis. The yield improves during summers when the path of the sun is high, but falls in winters with configuration unable to tilt in NS direction.





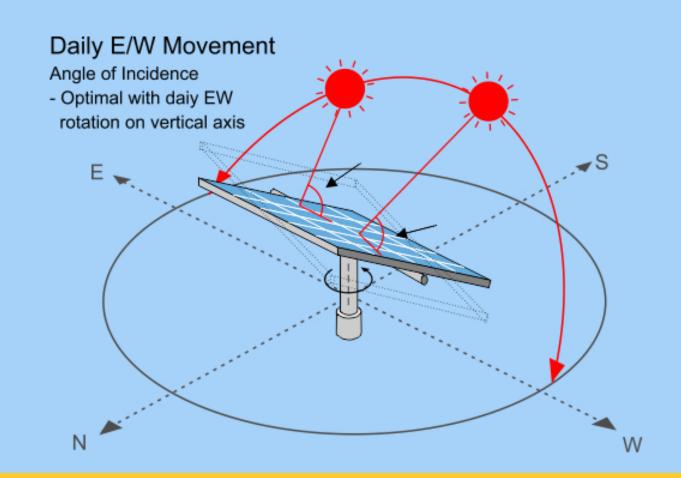
PREVALENT OPTIONS

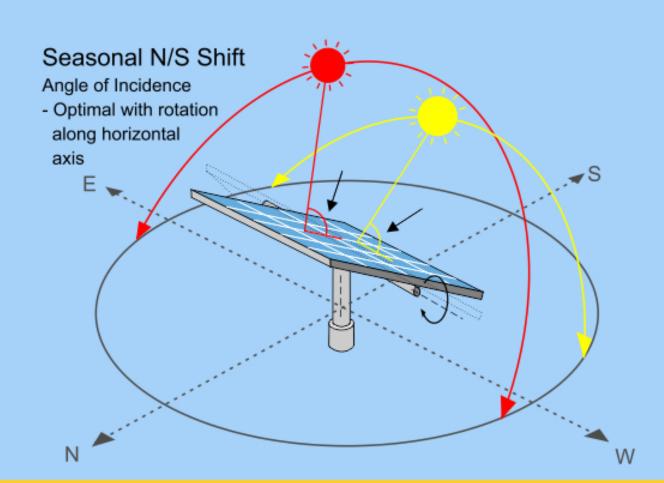


Dual Axis Tracking

Where the modules move east to west during the day, but also keep tilting north to south according to season. This is the optimal yield scenario.

However heavy structure and complex mechanism raise capital costs significantly rendering it unsuitable for most projects.









ASUN 2 AXIS TRACKER

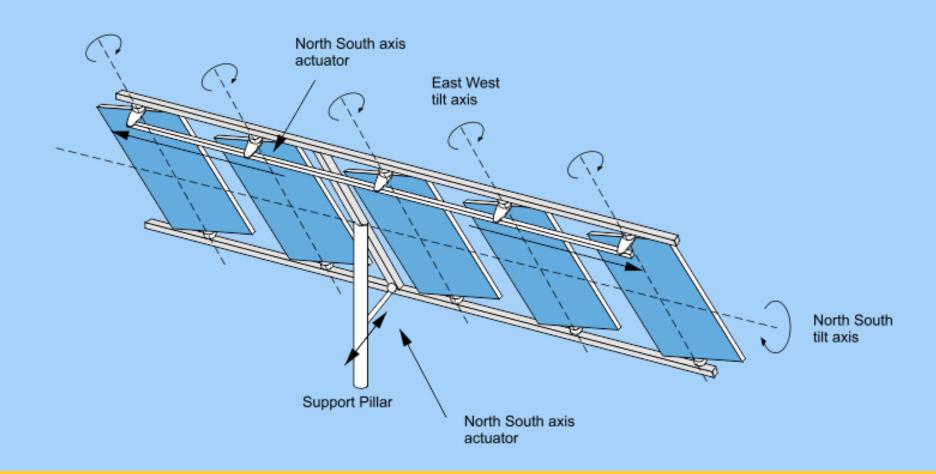


Dual Axis Performance at Single Axis cost!

Designed in collaboration with IIT Delhi, the Asun 2 Axis Tracker overcomes the inherent disadvantages of the Single Axis design

It also addresses the key investor/developer concerns that prevent adoption of trackers

By moving away from a 360° rotational design of a dual axis it opts for an economical and optimized 2 axis movement



VALIDATED DESIGN & CONCEPT



Ongoing Data capture in real time from three types of installations at the same location in Roorkee, Uttarakhand.

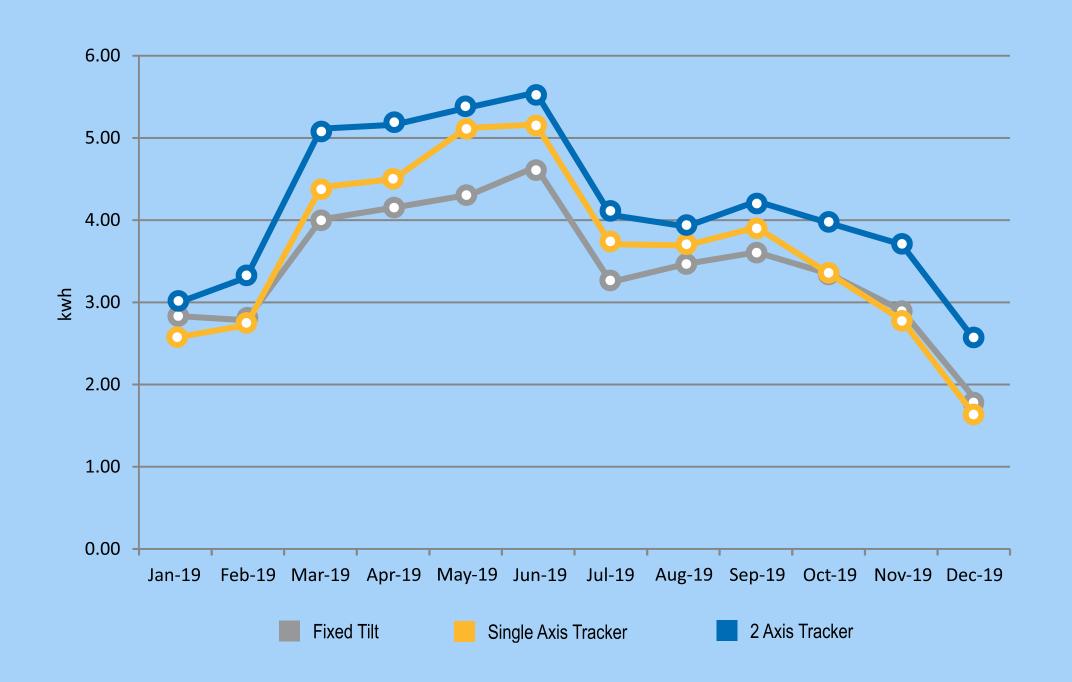
Fixed Tilt vs Single Axis vs the 2 Axis innovation.



VALIDATED DESIGN & CONCEPT



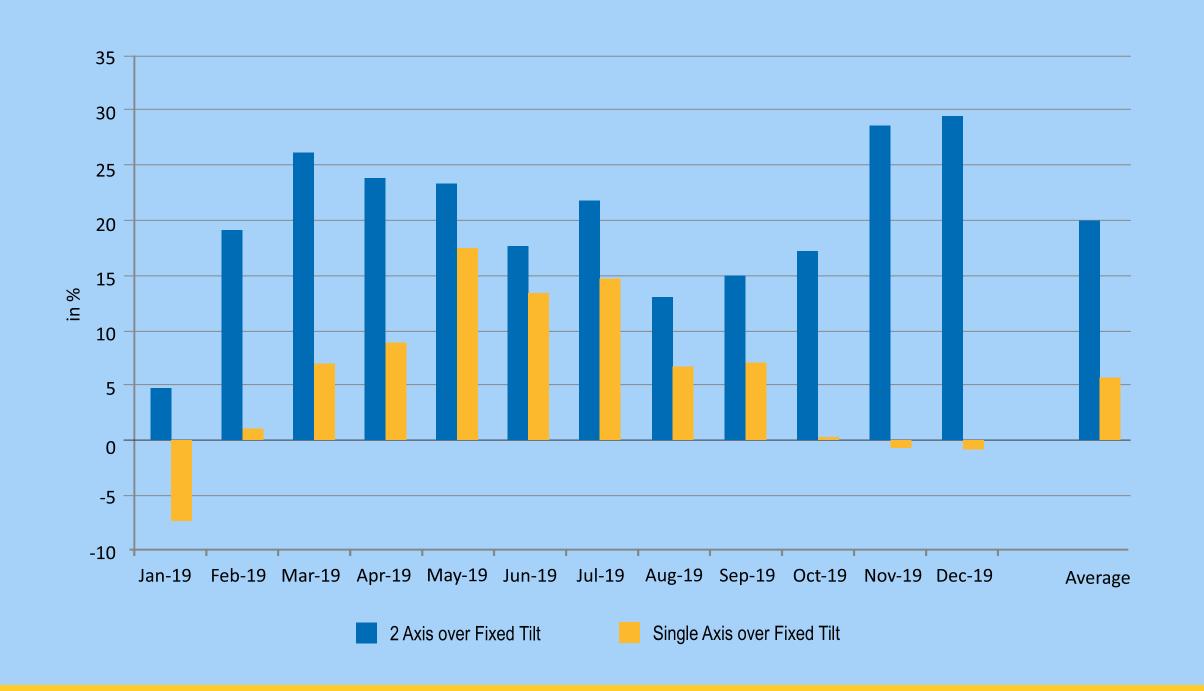
First year incident free operation points to an overall increase in yield of 20% over Fixed tilt and 13.5% over single axis.



VALIDATED DESIGN & CONCEPT



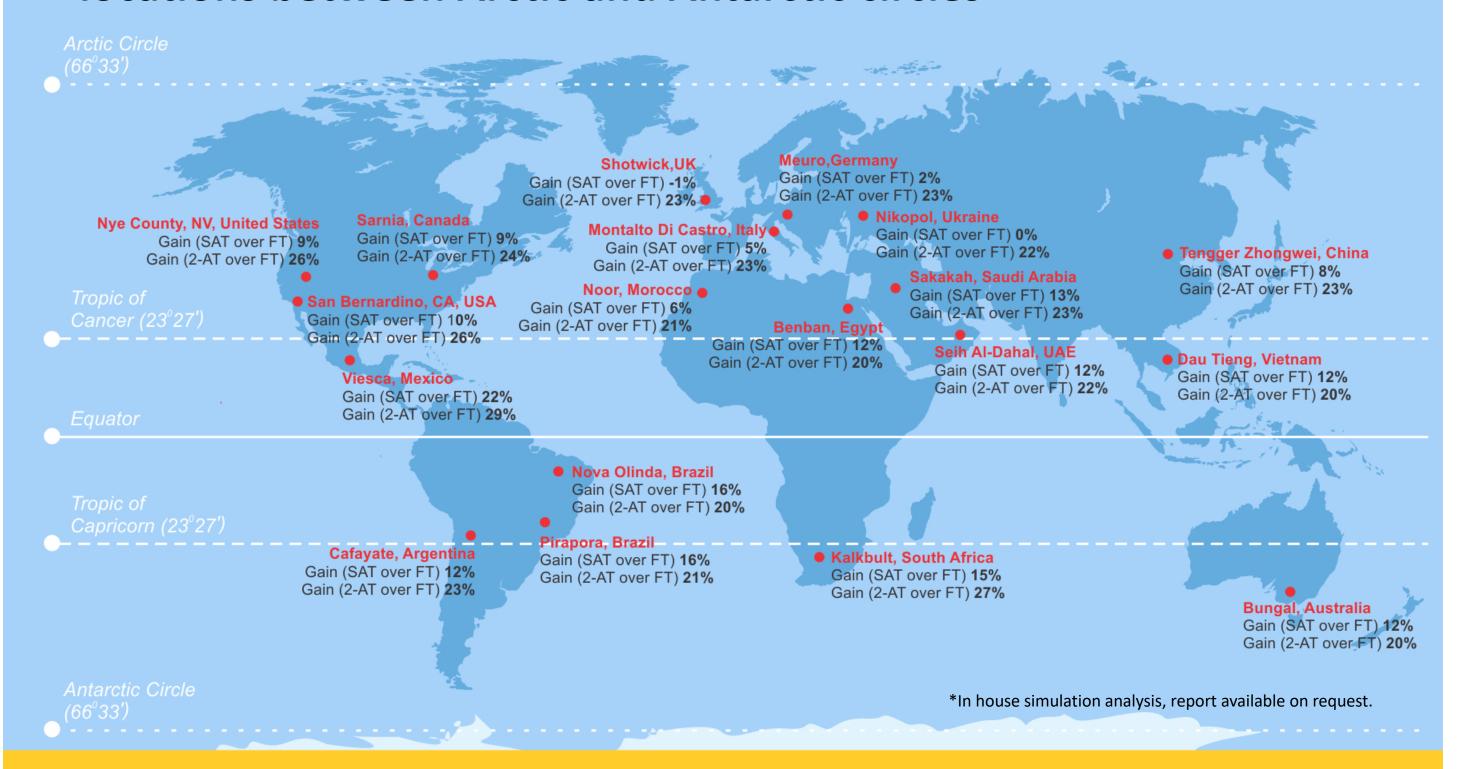
Potential to significantly improve the IRR of any solar PV project in general and every project considering single axis tracking in particular.



CONSISTENTLY HIGH YIELD



A gain of 20% or more over fixed tilt, across locations between Arctic and Antarctic circles*

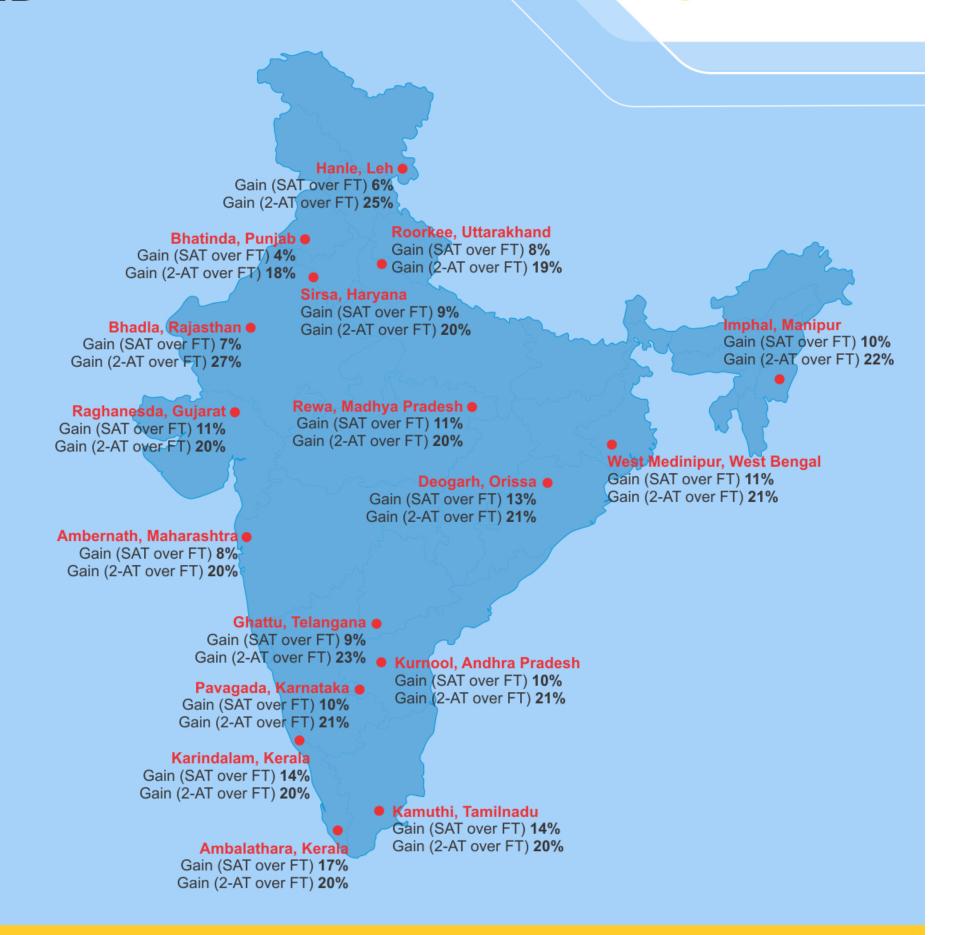


CONSISTENTLY HIGH YIELD



Higher performance across the country

From Northern most location in Leh to the Southern most states, Asun 2 Axis Tracker once again promises a gain in yield that can change the project economics of your installation.*



^{*}In house simulation analysis, report available on request.

FUTURE READY TECHNOLOGY



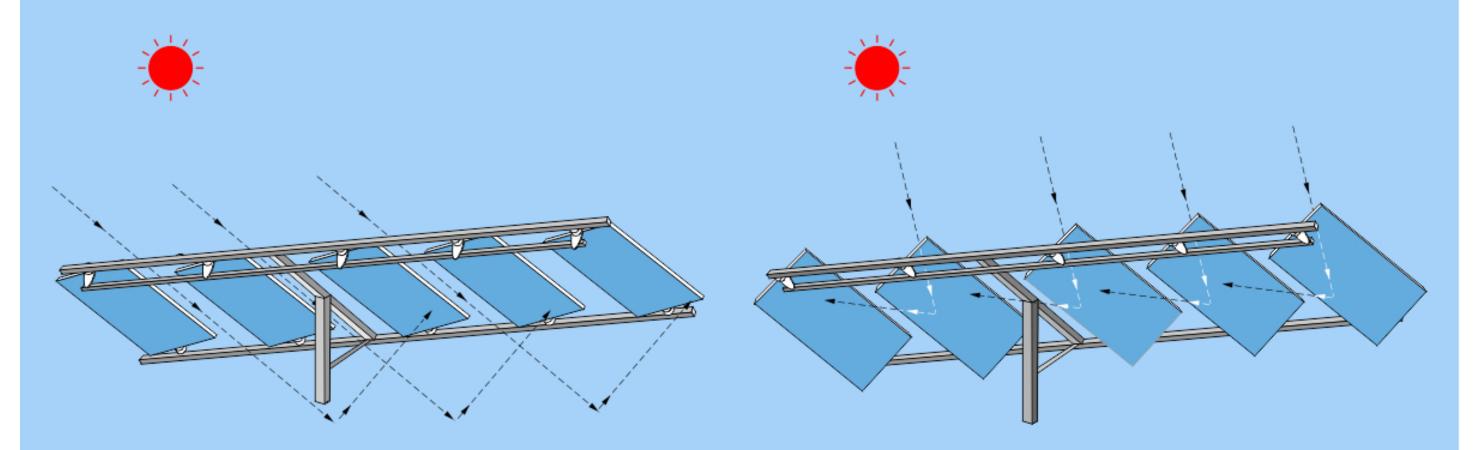
- Highly optimized structural design, meaning lower structure weight and highly competitive cost
- Decentralized design for ease of installation and higher plant availability
- Modular configuration with unprecedented terrain adaptability
- Programmable Automatic stow position in high wind conditions
- Designed to withstand wind speeds reaching upto 170 kmph

- Panel array configuration allows for maximizing the bifacial module efficiency
- Self-lubricating polymer bearings for minimal maintenance
- IoT Ready with features like remote monitoring, self-diagnostics and trouble shooting
- Increases yield by upto 28% depending on location & climatic conditions
- Ensures optimum performance in all seasons

BETTER BI-FACIAL PERFORMANCE



Asun 2 Axis Tracker's unique panel configuration gives you better bifacial module performance as compared any other tracker design.



- 1. Gap between panels allows for more radiation to bounce off the ground below the tracker
- 2. Radiation reflected off the top surface of one panel can be captured by the bottom surface of the next

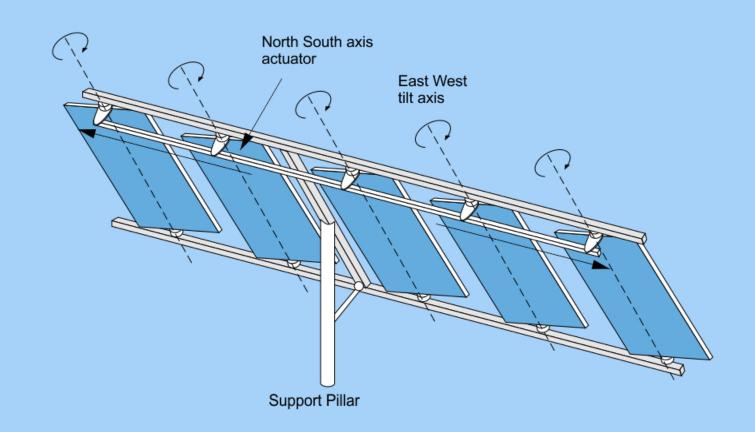
ADAPTABLE TO SINGLE AXIS



With significant reduction in capital cost

The innovative design is also adaptable for a single axis operation.

Making it extremely cost competitive by reduction of components and mechanisms required for the North South movement. Instead the tracker table can be set at a pre-determined North South incline, while retaining the full East to West movement.





With falling LCoE and depleting tariffs being the global norm, ASUN 2 Axis Tracker has the potential to disrupt the market with its innovative design and aggressive pricing.

For more details, please visit : www.asuntracker.com

For business queries, please contact: Varun Sachar, 98112 71111

Thank You!

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Connecting your business to global opportunities

AN INITIATIVE OF

SUPPORTED BY

3 Y

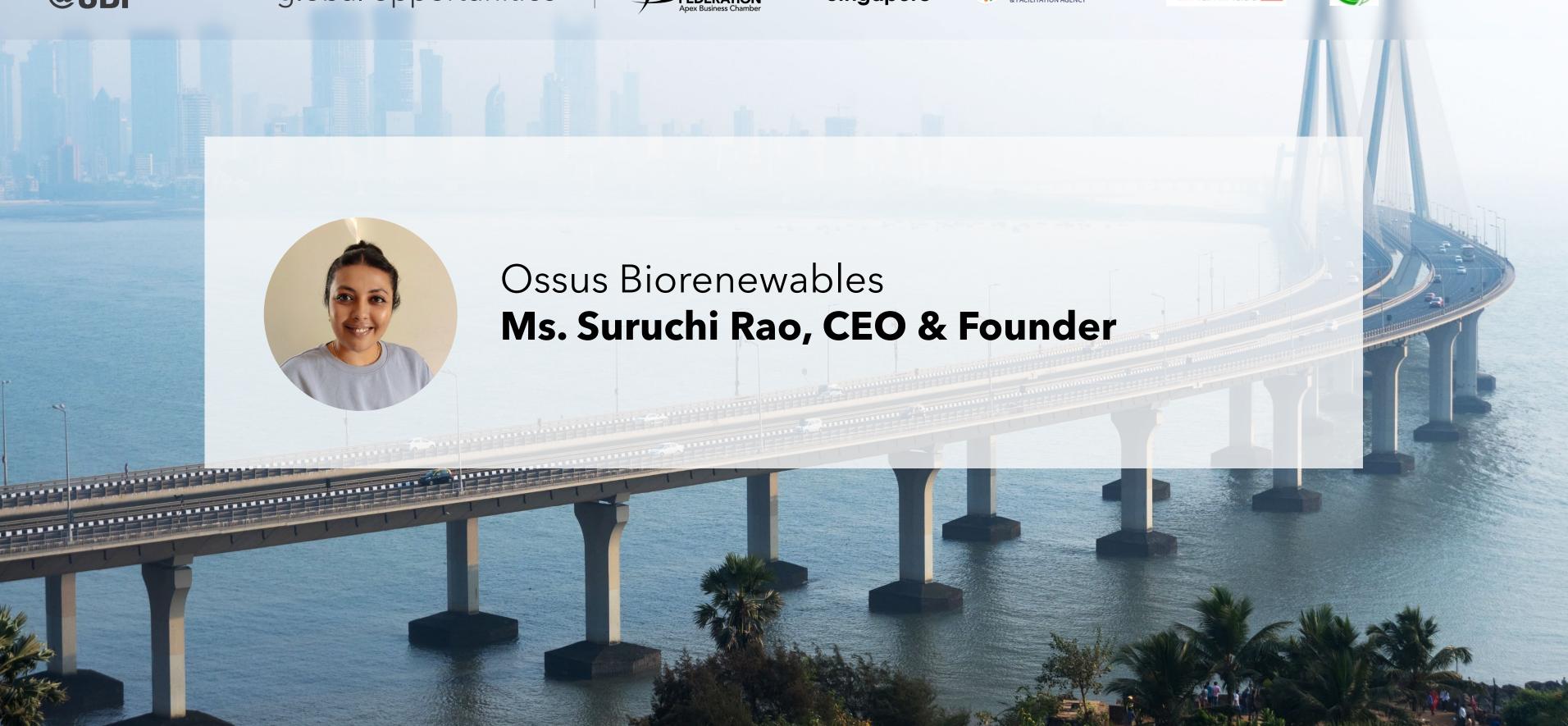
CORE PARTNERS



Enterprise Singapore









We are a Bangalore based bioenergy company.

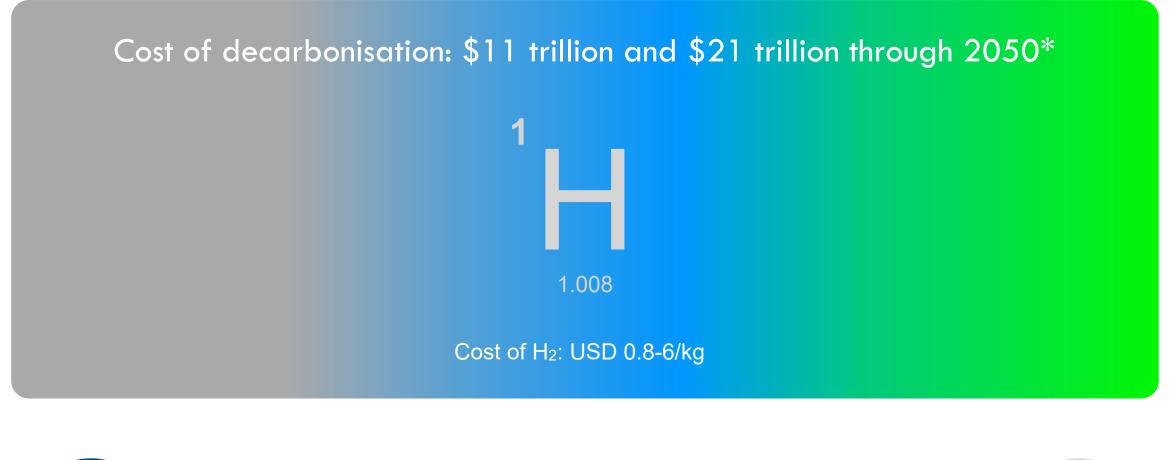
We are commercialising a patent pending** retrofittable hardware device for converting Effluent Treatment Plants into On-Demand Hydrogen Gas Generators for Green Heat and Power.

**Title: "BIO-ELECTROCHEMICAL HYDROGEN GENERATION AND SIMULTANEOUS WATER TREATMENT"

Filed with the Indian Patent Office on <u>05-Oct-2020</u>. The application number assigned to this application is 202021043298.



Hydrogen Now Deep De-carbonisation of Heavy Industries

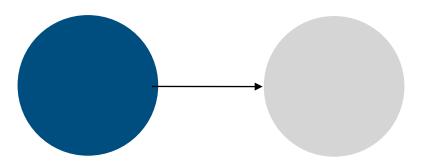




What makes hydrogen unviable today is the reliance on cheap electrons from renewable sources (Wind/Solar).

Hydrogen Now Disruption

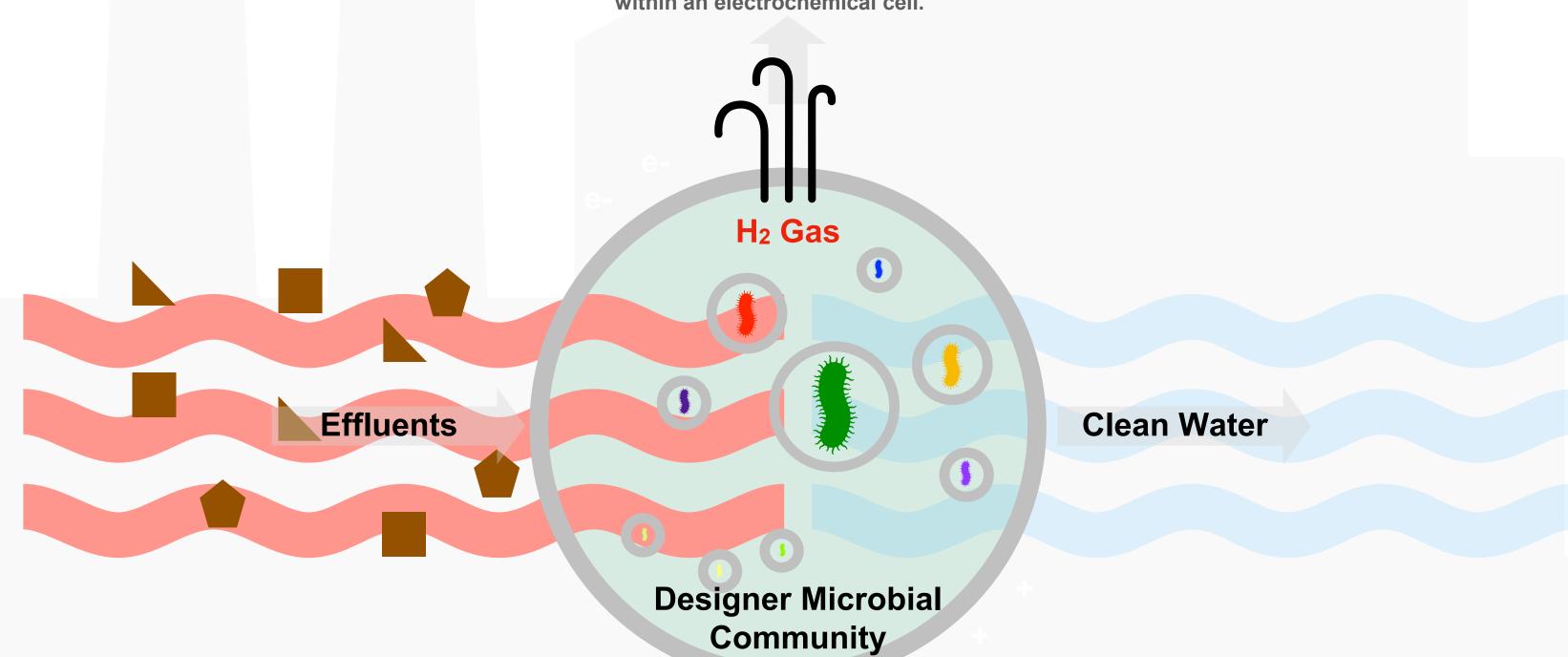
Minimise Distance



Change Source

Hydrogen Now Ossus is Disrupting the Hydrogen Market

The bioelectrochemical process underlying our product involves production of current by a select group of microorganisms drawn directly from the source of the effluent. These microorganisms product current by degrading the organic content of water and desalinate water simultaneously, resulting in hydrogen production and clean water within an electrochemical cell.

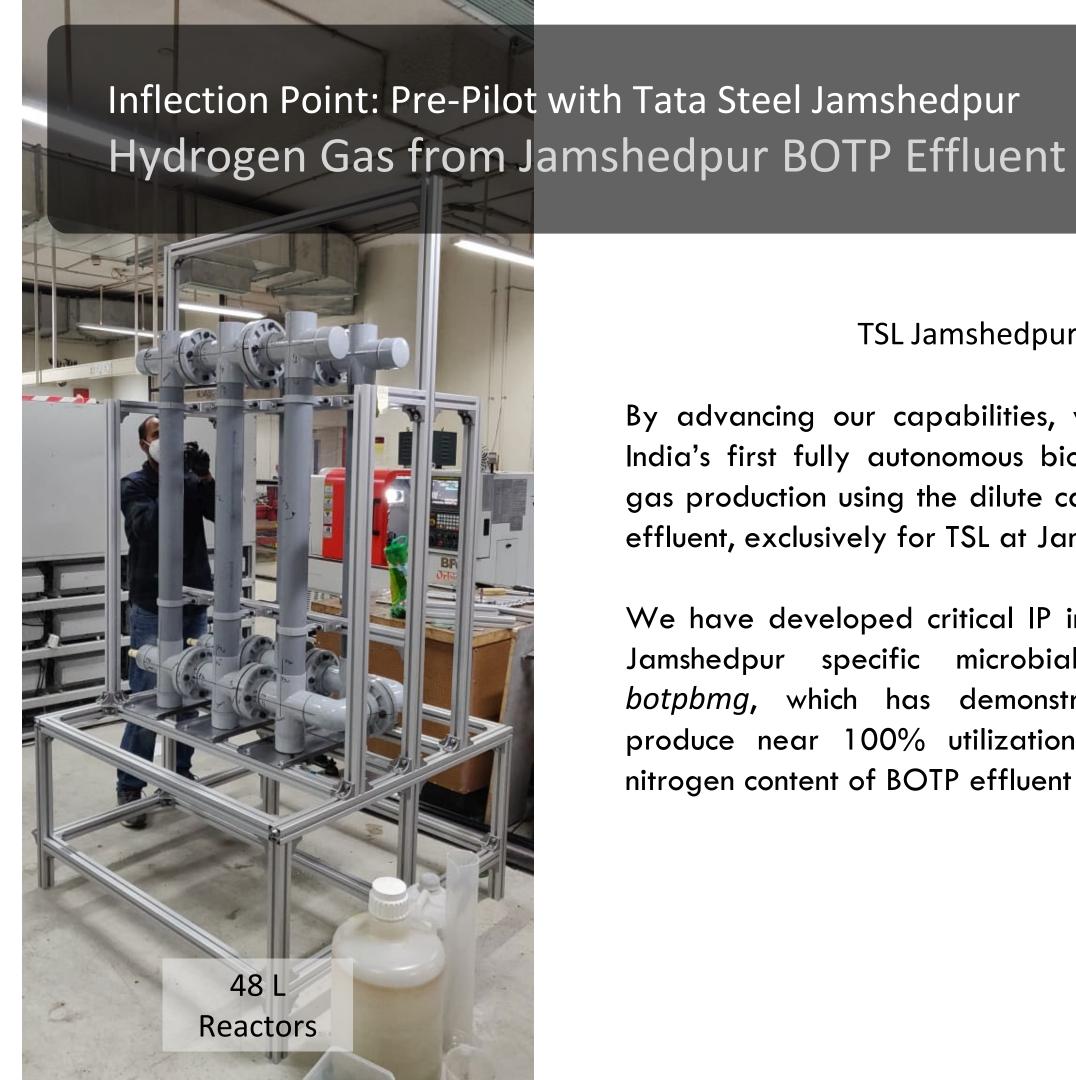


Industries Replacing Fossil Fuels



Based on the position of our product, our target markets lie across three key industrial sectors, Indian Steel, US Upstream Oil and Gas, and Chemicals, driven primarily by changes in policy, public perception and an increasing demand for rapidly cutting greenhouse emissions.





TSL Jamshedpur Pilot

By advancing our capabilities, we will be deploying India's first fully autonomous bioreactor for hydrogen gas production using the dilute carbon content of BOTP effluent, exclusively for TSL at Jamshedpur.

We have developed critical IP in the form of a BOTP Jamshedpur specific microbial consortium named botpbmg, which has demonstrated the ability to produce near 100% utilization of the carbon and nitrogen content of BOTP effluent into hydrogen gas.

India >> Singapore

What can Ossus Bring to Singapore-based Process Industries?

If you are seeking Fossil Fuel Alternatives for Heat/Power

YES

If you have a large pool of high organic content effluent on-site

India >> Singapore Our Wishlist

NatSteel

Halcyon Agri Asahi Glass

Rotary Infineon Technologies

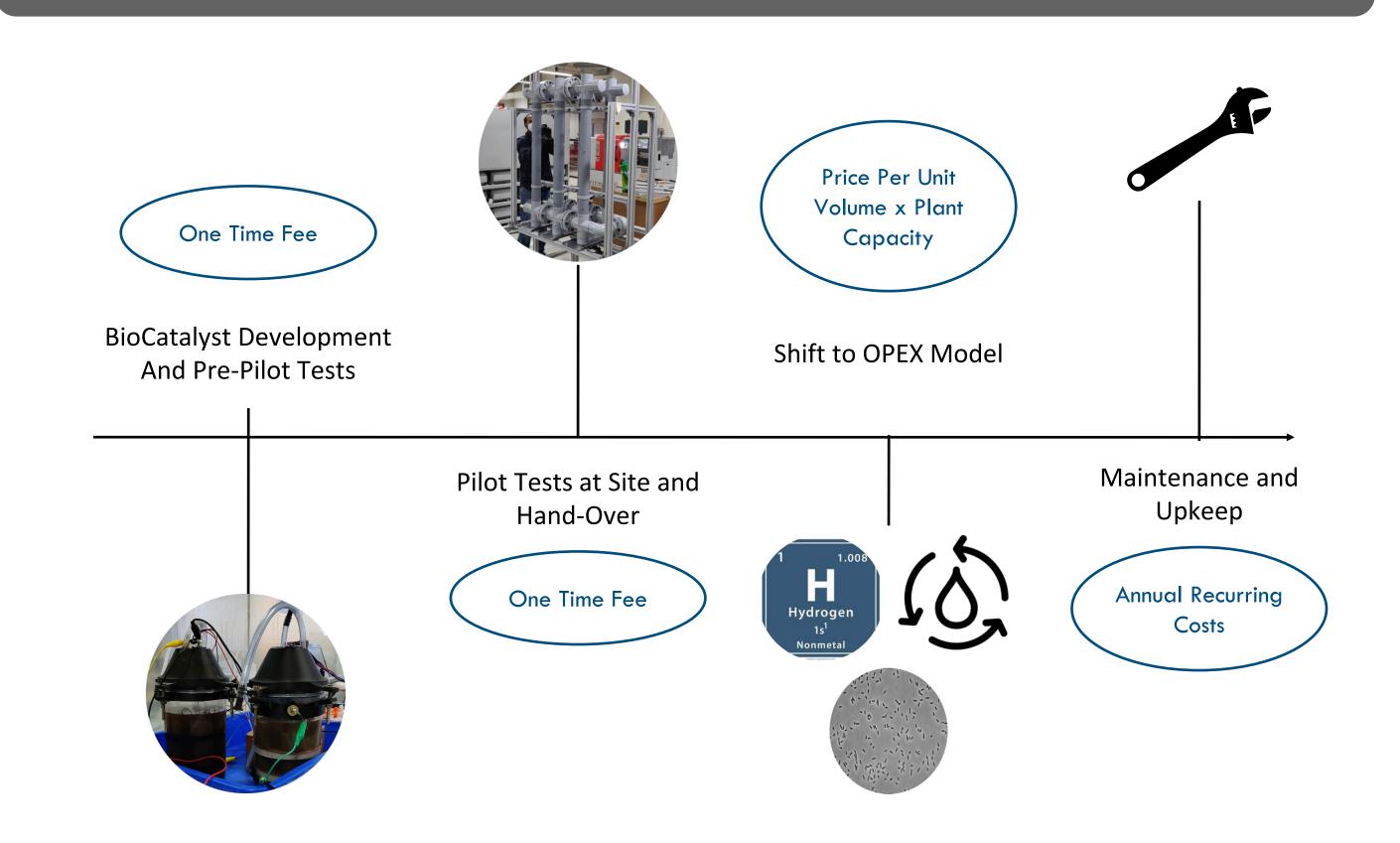
Chugai

Hyflux Merck, Sharp & Dohme

DyStar Henkel

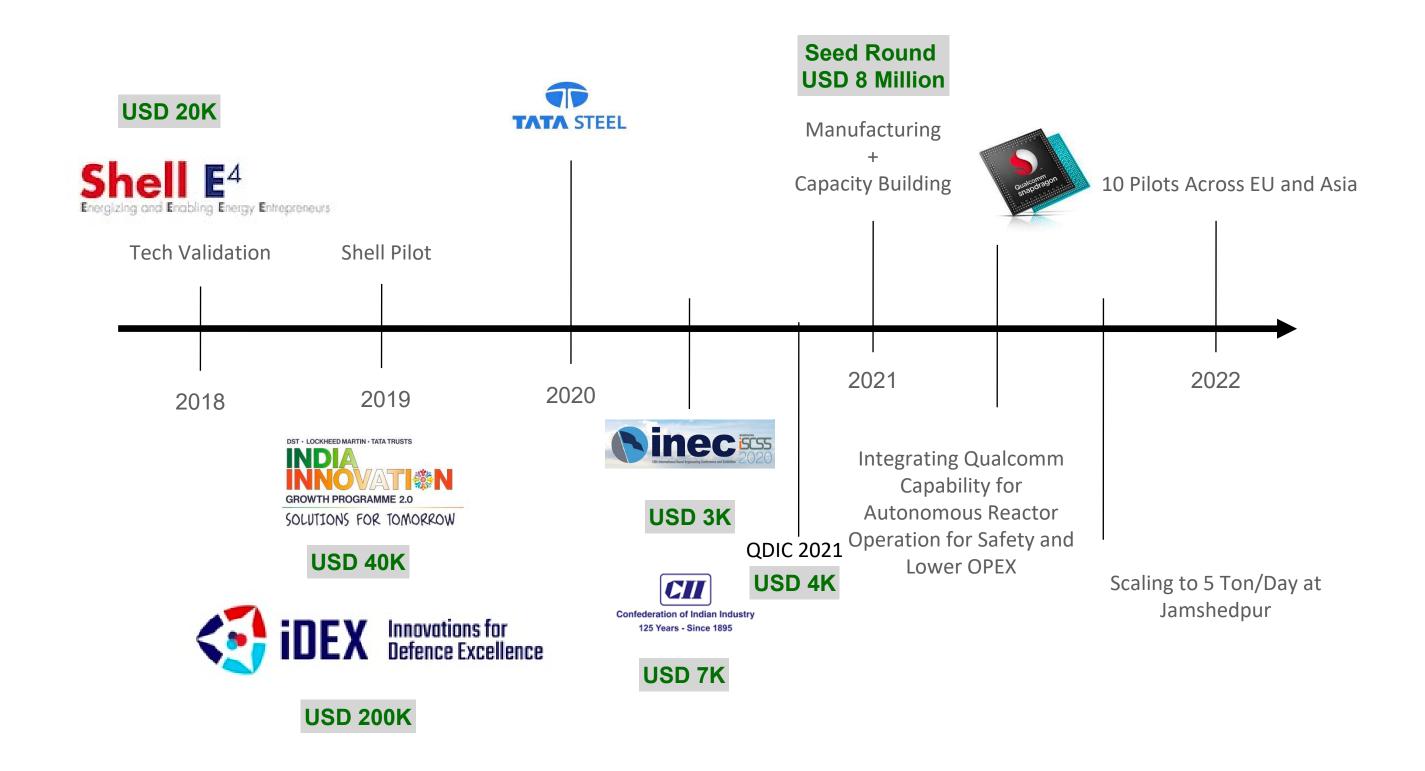
Polyolefin GlaxoSmithKline (GSK)

Value Proposition HydraCel As an ETP Add-On

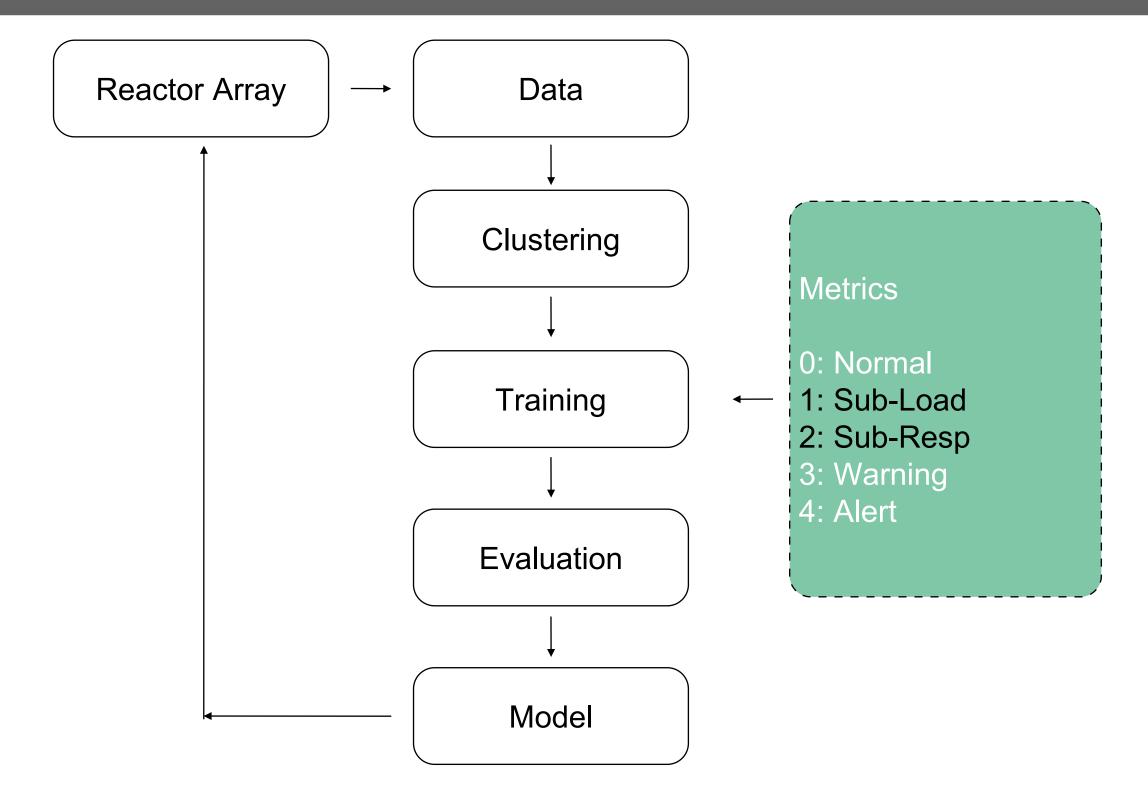


Expansion 10 Pilots, 3 Continents by 2021

We aim to build on the traction we have generated in these sectors and launch at least 10 pilots of capacities ranging from 10-100 Kgs/day, across India and EU. To support these pilots, one of the key activities is to build in-house capacity for microbial and system 3D printing.

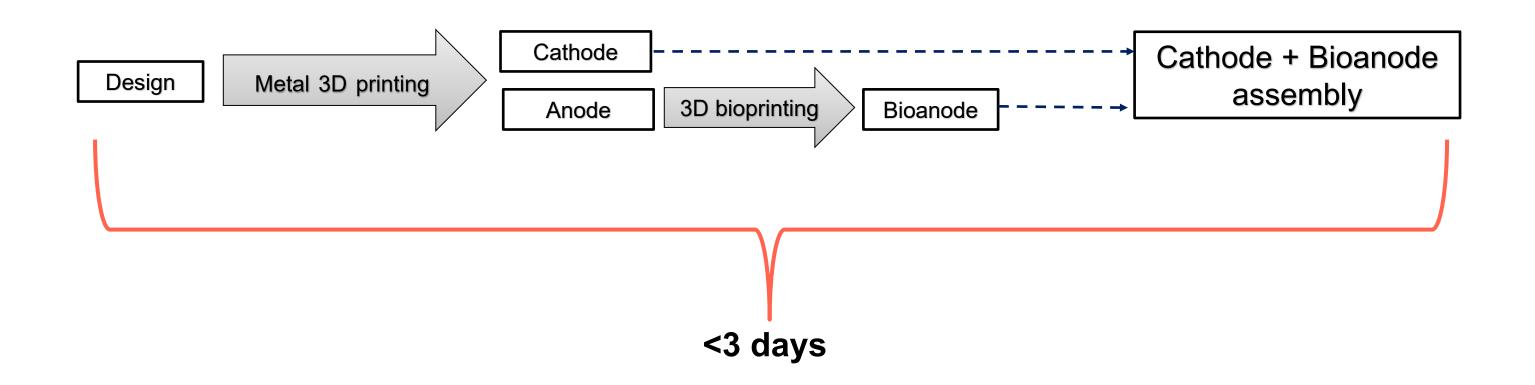


OB HydraCel 2.0 ML for Autonomous Intelligent Reactors



We are developing fully autonomous reactors which learn from each reactor pass to enable active control of microbial growth and hydrogen gas generation.

OB HydraCel 2.0 Smart Materials for 3D Printing



- 3D printing our electrodes will help us optimise our design and improve our reactor efficiency by at least 1.5 times.
- 3D bioprinting will help us prime our electrodes faster and do away with the capacity limit that comes with priming electrodes in a conventional biolab.

To move to this stage, we are looking to lean on Dassault's expertise in 3d printing and product development.

Singapore >> India We Seek Collaborations

Horizon Fuel Cell

Applied Materials

Zelta 3D

NUS/NTU

Team Building the Future of Energy

With the right mix of experience in business development, biology, and engineering, we believe our team is ideally situated to achieve our dream of making hydrogen the preferred fuel of choice.



SHANTA RAO CLO, Intellectual Property and Business Development, 25+ Years in Industry.



SURUCHI RAO
CEO, Bioengineering and Business
Development,
PhD in Bioenergy from UDCT, Mumbai



KAMAR SUHAIL BASHA
CTO, Ossus Bio
Design and Engineering,
Mech Eng.,
PESIT, Bangalore.

9 Employees Incubated at IKP EDEN, Bangalore GLOBAL CONNECT @SBF

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Zero Landfill Community with the Rhino Digester System



Need

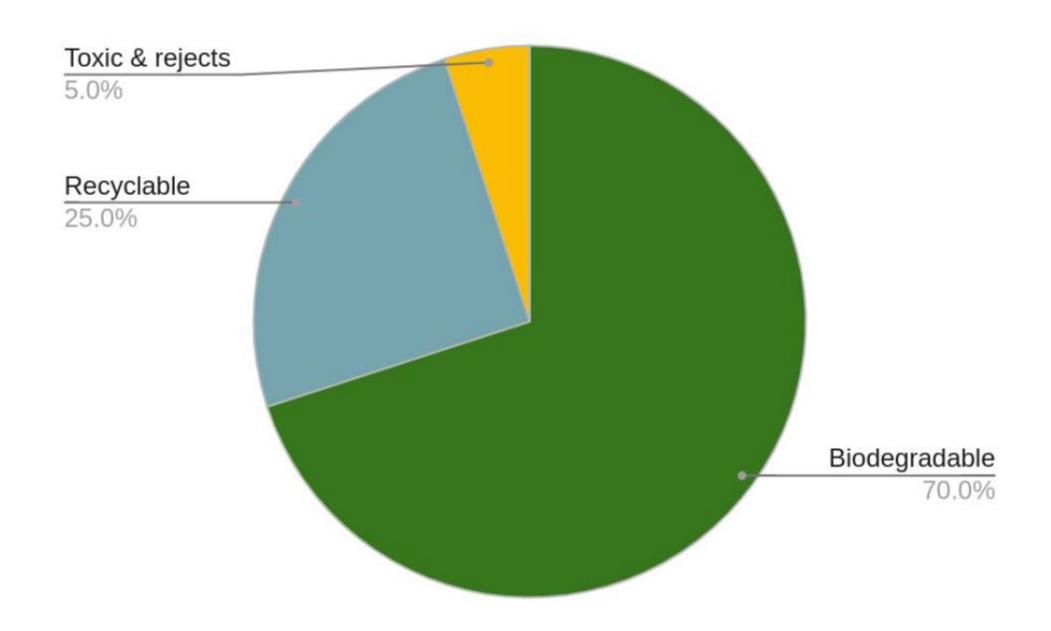
Acute need to process solid waste and stop the barbaric practice of dumping!

- Qutub Minar = dumps in Mumbai & Delhi
- . Caused the Plague in Surat 1994
- Focus area of India PMO & Supreme Court
- United Nations Millennium
 Developmental Goal

85%

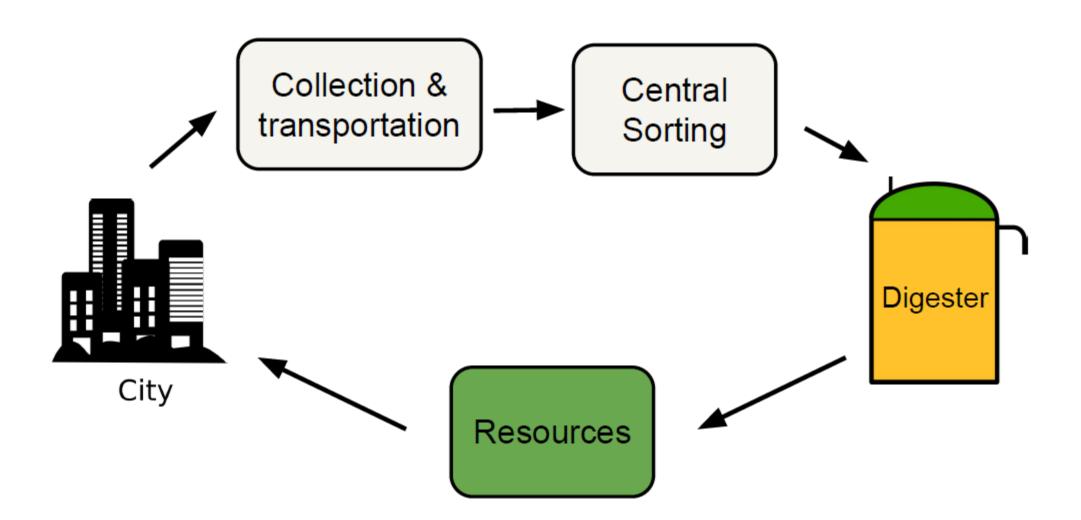
Global waste ends up in Landfill

Waste Composition | India



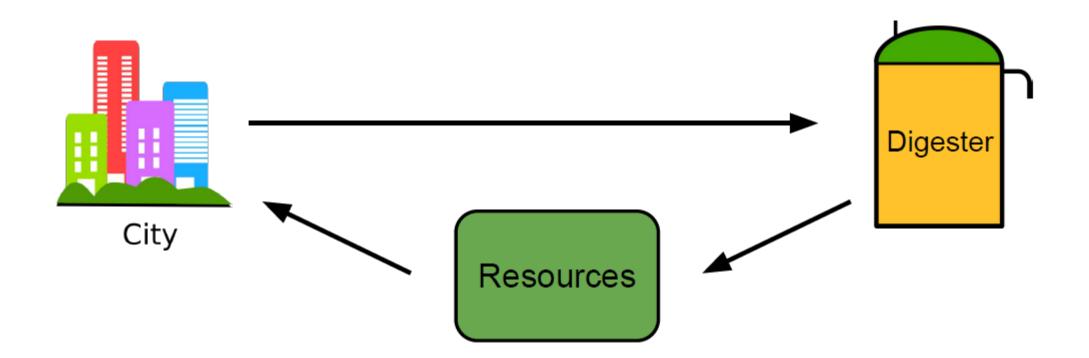
Norm of current times

Transport & central processing



Sustainable Solution | Process In-situ

• Process at source



Corporation of the City of Panaji | Goa



Inauguration by Hon' CM of Goa

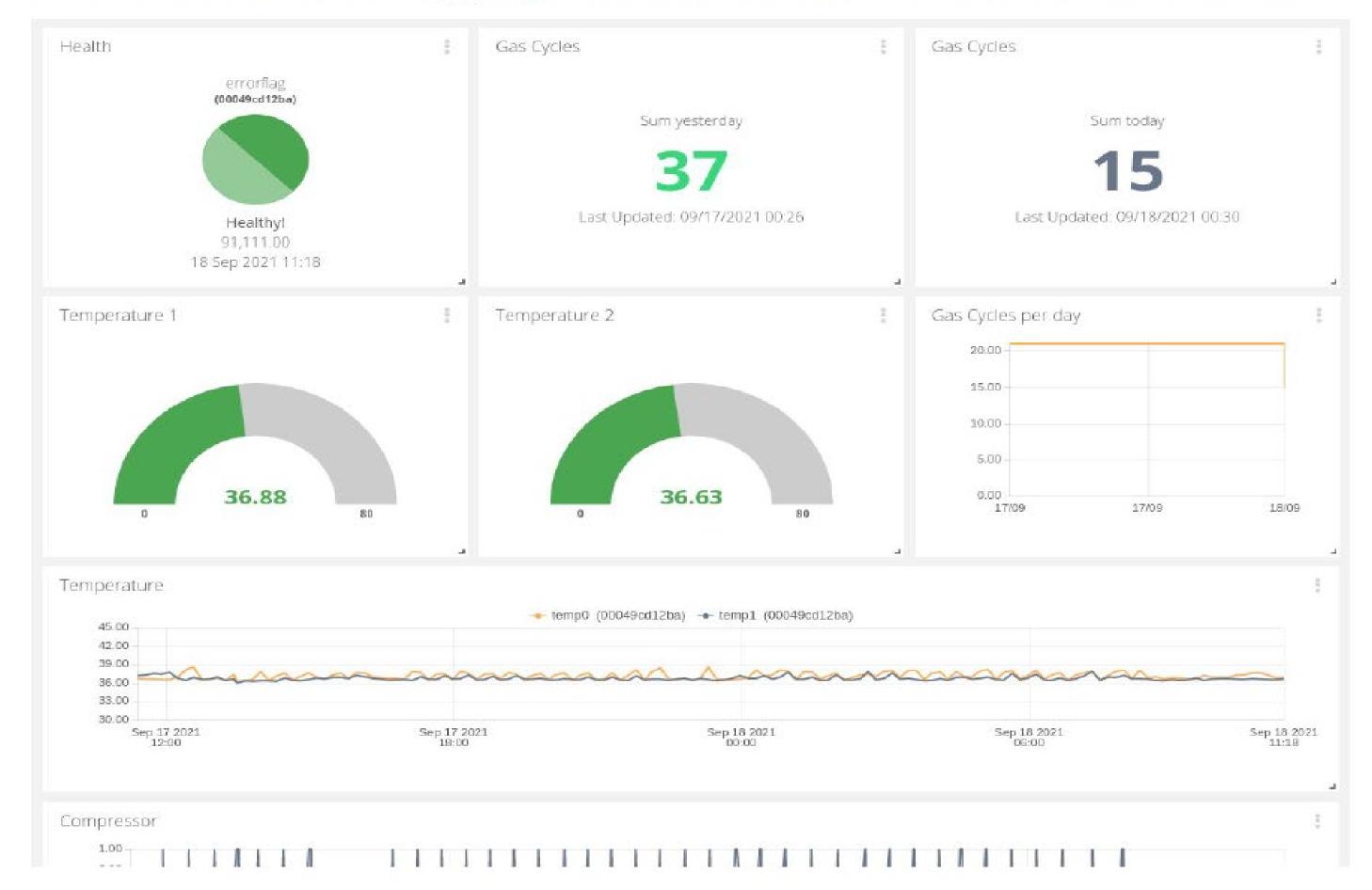
Processing | At source







Monitoring | On-line IoT Based



Industrial design | Factory made

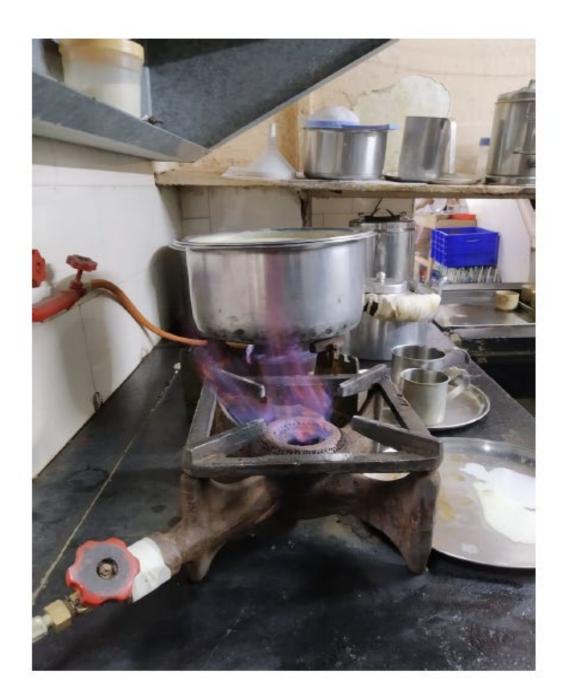


Rhino Digesters at Municipal Garage, CCP

Biogas | Usage for cooking



Polytechnic



Aaram Hotel
CCP

Plant Growth Promoter | Soil Health







Hospital Mumbai: 2018



Technology - Globally Unique



IPR

Patent granted

Patent No.: 295520

System and Method For Liquid Circulation and Gas Generation Measurement





भारत सरकार GOVERNMENT OF INDIA पेटेंट कार्यालय THE PATENT OFFICE पेटेंट प्रमाणपत्र PATENT CERTIFICATE (Rule 24 Of The Patents Rules) क्रमांक : 022102276 SL No :



पेटेंट सं. / Patent No.

295520

आवेदन सं. / Application No.

201721007670

फाइल करने की तारीख / Date of Filing

04/03/2017

पेटेंटी / Patentee

FLYCATCHER TECHNOLOGIES LLP

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित SYSTEM AND METHOD FOR LIQUID CIRCULATION AND GAS GENERATION MEASUREMENT नामक आविष्कार के लिए, पेटेंट अधिनियम, १६७० के उपबंधों के अनुसार आज तारीख 4th day of March 2017 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled SYSTEM AND METHOD FOR LIQUID CIRCULATION AND GAS GENERATION MEASUREMENT as disclosed in the above mentioned application for the term of 20 years from the 4th day of March 2017 in accordance with the provisions of the Patents Act,1970.

PROPERTY INDIA PROPERTY INDIA TS I DESIGNS I TRADE MARKS OUTOF HOW DIGRAPHICAL INDICATION OF MARKS

अनुरान की तारीख: 05/04/2018

पेटेंट नियंत्रक Controller of Patent

रिपाणी - इस पेटेंट के नवीकरण के लिए पीस, परि इसे बनाए रखा जाना है, 4th day of March 2019को और उसके कवात प्रतेक वर्ण में उसी दिन देव होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 4th day of March 2019 and on the same day in every year thereafter.

Trained team Delivery | Monitoring

Team

- Designed and made by Indian Engineers & Technicians
- Local resources and components



Prominent Clients







Recognised





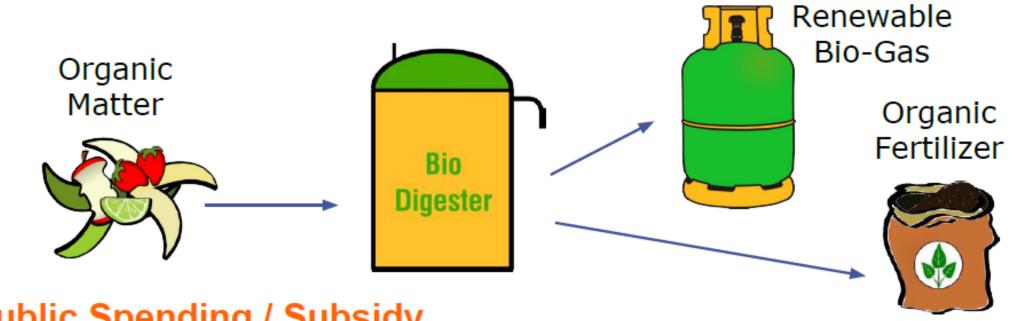


Challenges & Opportunities

- Training service personnel readiness to address challenge
- We currently use cow manure and inoculum for startup opportunity to productise
- Technology refinements

Policy Distorting Market

. Sustainable Solution



Public Spending / Subsidy



 Collection, transportation & Dumping



LPG – Fossil Fuel



Chemical Fertilizers

100%

50%

80%

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Enterprise Singapore









A NextGen Enterprise Messaging Platform for Sensitive Communications













SECURITY

71% of employees share sensitive and business-critical data using instant messaging and business collaboration tools

Nextgov

Insecure Communications Like
WhatsApp Are Putting U.S. National
Security at Risk

techradar pro

Don't share sensitive stuff on video calls, or you could be in serious hot water

By Sead Fadilpašić 3 days ago

Employees feel comfortable sharing pretty much anything on

Sensitive

Enterprise Communications are Not Secure

OUNOLOOV

Financial services risk data security breaches with insecure instant messaging

THE NEW INDIAN EXPRESS

Law enforcement should have access to source of messages spreads fake news: Prasad

The issue of traceability has been a flashpoint between the government and messaging giant, WhatsApp.

Critical

HOME | CYBERSECURITY

The enterprise hazard of using consumer messaging apps in the workplace

Making the right investments now will safeguard an organization's mobile communication infrastructure from future cyber-attacks

Problems with consumer messaging



Insecure



Insecure Messaging (Traditional Encryptions)



User Identity **Spoofing**

SECURITY

71% of employees share sensitive and business-critical data using instant messaging and business collaboration tools

Nextgov

Insecure Communications Like
WhatsApp Are Putting U.S. National
Security at Risk

Problems with insecure communications

Distrusted



Lack of **Data Control & Monitoring**



Unrestricted File Sharing

informa

SECURITY

E2EE: A Cornerstone for Securing Business Communication

Shifting work paradigms make end-to-end encryption in enterprise mobile messaging platforms a business essential.

Unreliable



Lack of Business grade **Features & Flexibility**



No Forensic Data available

techradar pro

Don't share sensitive stuff on video calls, or you could be in serious hot water

By Sead Fadilpašić 3 days ago

Employees feel comfortable sharing pretty much anything on

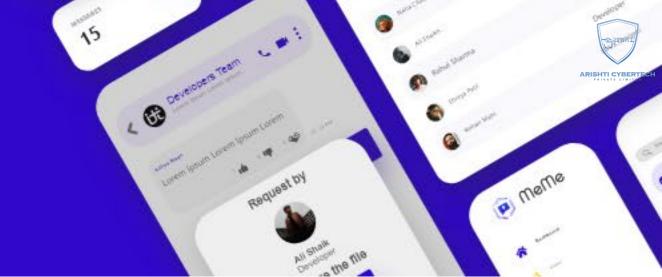


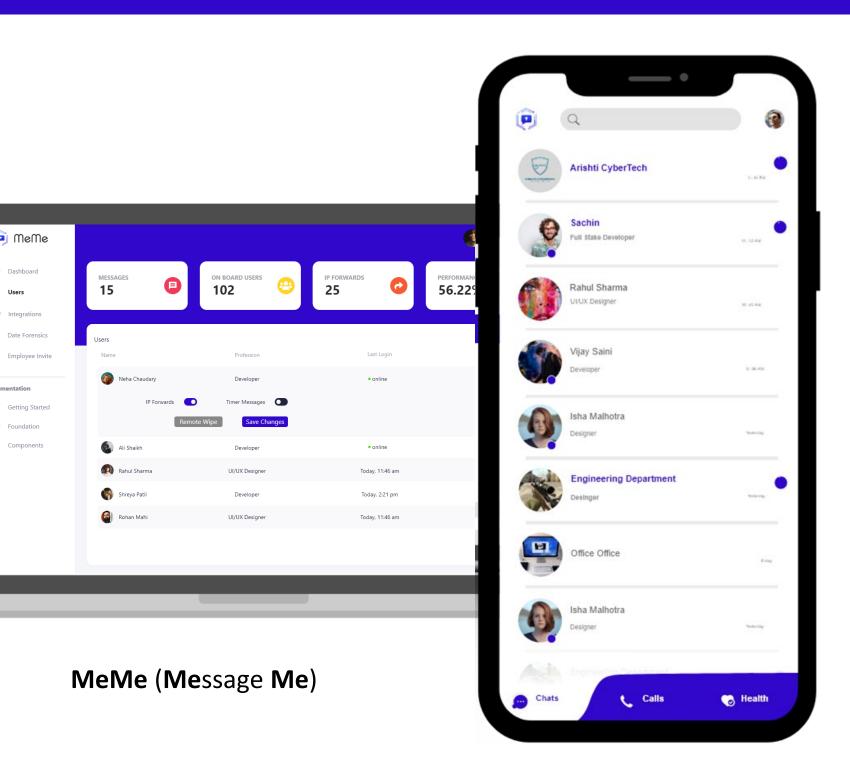
HOME | CYBERSECURITY

The enterprise hazard of using consumer messaging apps in the workplace

Making the right investments now will safeguard an organization's mobile communication infrastructure from future cyber-attacks

Addressing the Risk through MeMe







Hybrid Encryption using A

Anti-Spoofing
Biometric Recognition





Quantum Technology

Admin Controlled Communications



Consent Based **Sharing** of Files

Reliable



API Driven and Easy Integrations



Forensics
Capabilities

MeMe: Innovative platform



Secure Messaging



Quantum Safe Encryption



Data Control Capabilities



Cyber Bully Analysis



API/Plug-in Integrations



Zero Trust Architecture



Tetra Network Connectivity

Identity Monitoring

MeMe



Anti Spoofing Biometric



Monitoring & Control

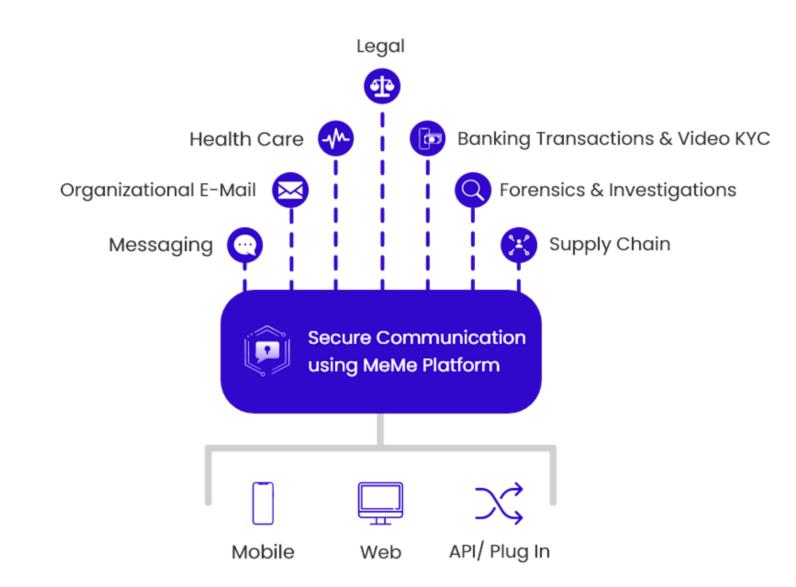


Active Directory Integrations

Flexible Infrastructure



Indian Patent Pending Technology



arishti.in

Target Customers

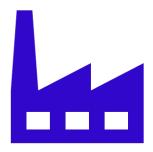


We currently target the **B2B and B2G and B2B2C** Kind of market. Below are some of our specific target customers with use cases:



BPO / BFSI / Telecom

Banks / Finance industry can use our technology to secure the transactions inside out



Manufacturing & E-Commerce

Providing the platform for industries to Share the IP Content securely and Easily with access rights



Trading and E-discovery Platforms

MeMe can be used for closed group communications for trading and Lawsuits firms



Law Enforcement Agencies

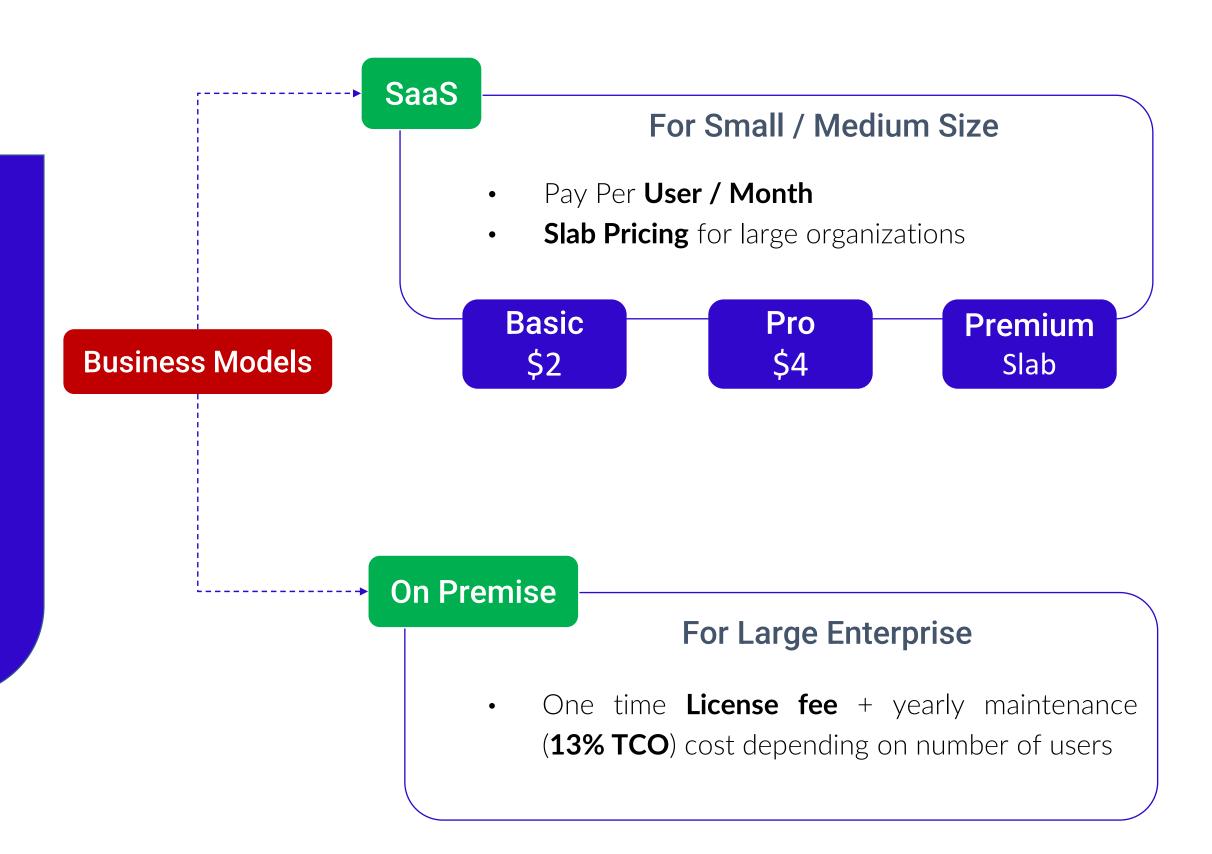
Law Enforcement Agencies can use
MeMe Platform for Secure
Communications with Forensics &
Investigation capabilities

Business Model



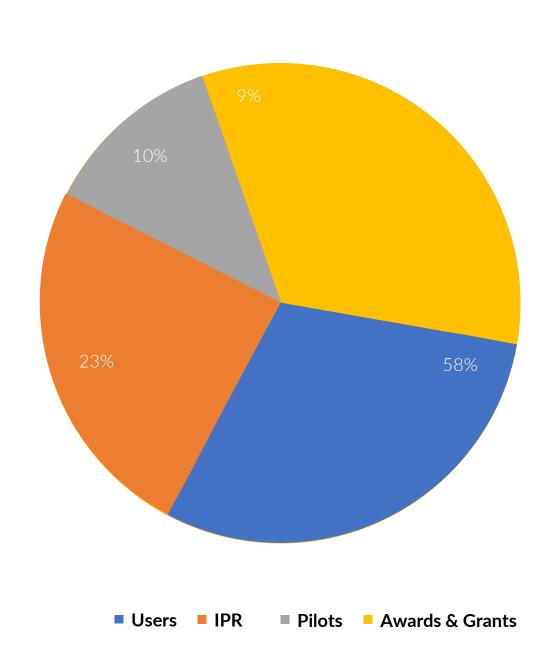
Revenue Sources

- 1. SaaS Subscription
- 2. On Premise licensing
- 3. Cost of providing the historical data in case of Cyber Crime



Current Product Traction







Early Users

We tested our early product with various industry veterans and **C Level executives**



Total Pilots

Few organization have used our application in **alpha stage** and have received great feedback.



Patents and IPR

Filled our first **process patent** for security

algorithm in Indian

jurisdiction

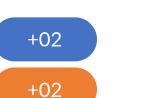


Awards & Grants

7 Awards from Industries and Government organizations. **3 Grants** for product development

In talks with Enterprises

- · BFSI
- BPO
- **Government LEAs**



+01

Beta available on:



SaaS subscription Variants



Features	Basic INR 130 per user/ Month	Pro INR 190 Per User/ Month	Premium Slab Pricing
E2E Encryption using Quantum Technology			
Multimedia File Sharing (Exceptional File Formats Supported)			
Message Restrictions /Tracking			
Anti Spoofing Face Lock			
Self Destructing Messages / Timer Message			✓
Remote Data Wipe			
Role Based Access Control			
Admin Panel Control			✓
Cyber Bully Analysis			
Active Directory Integrations			

arishti.in

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Use case: Banking and Financial Enterprises



Use of Consumer Messaging applications in BFSI





- Lack of Explicit Consent
- Lack of ability to delete information
- Lack of ability to get your own data back
- Data being transferred outside the Enterprise

Increasing the risk of Sensitive Data Breach

 Organizations using Consumer Messaging platforms, expose & open themselves to the serious Sensitive Data Breaches which could cause great compromises.

How can MeMe mitigate those risks

Data Loss Prevention	Avoid losing KYC, PII, Critical Messages using Consent based Content sharing	
Data Governance	Monitor and Track the communications using Admin Panel	
Security	More than just AES, MeMe secures your data using Quantum Tech	
Integrations	Open APIs, Plug-In	

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Use case: BPO/BPM



Use Case:

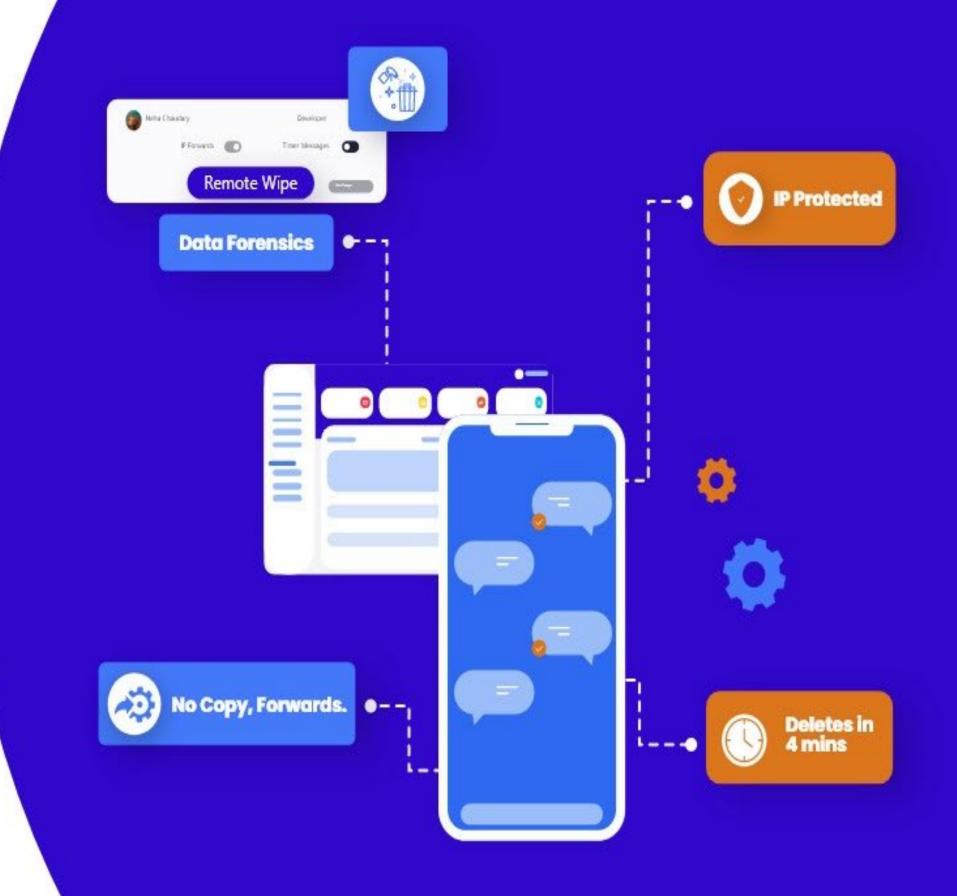
In BPO/E-Commerce industry the Executive – Client/Agent/third party vendor communications is the mainstream of Business Continuity. These communications needs to be secure as sensitive data is being constantly shared within the agents/customer.

MeMe Solves it through:

- 1. E2E Encrypted Mobile Messaging
- 2. IP Protected Sharing
- 3. Consent based Content Circulation
- 4. Remote Data Wipe
- 5. Tracing the Content Circulation

Impact:

Through MeMe, the communications within various departments in BPO/E- commerce could be secured and data sharing can be made easy with Control features and Monitoring.



Leadership & Advisory board







Founder & CEO

BTech - Computer

Cyber Security | Cyber Forensics



Mr. Parth Prajapati

Team Lead - Technology

BTech- Computer

Product Development & Delivery



Mr. Suresh Srinivasan

Mentor & Advisor

Group Head – Cyber Defense

Axiata Group



Mr. Sanjay Kanvinde

Mentor & Advisor
Co-founder - Lavni Ventures
Ex-Schlumberger

22 Years



Mr. Vijay Talele

Mentor & Advisor
CEO – COEP's Bhau Institute

55 Years

08 Awards

Combined Industry Experience Accolades

Cyber Security Experience

Recognitions and







Achievements & Recognitions





SINE IIT Bombay

DST Supported NIDHI Entrepreneur in Residence



Cyber Security Incubator

Funded and supported under Startup India Seed Fund Scheme



5G Hackathon-DoT

Top 100 Startups under 5G hackathon



B2B Accelerator Program

B2B startup ecosystem to develop and Scale SaaS Products



Ministry of HRD

Finalist at National Innovation Contest 2020



National Center of Excellence

supported and recognized by NASSCOM - DSCI



Inspiration Award

Awarded Persistent Inspiration at Smart India Hackathon 2018









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Enterprise Singapore









We are a fast-growing niche EdTech start-up focused on creating real-world cybersecurity simulation platforms.

Our start-up provides world-class physical and virtual simulation products, allowing organizations and universities to rapidly build capacity and upskill professionals in cyber security.

What are the products designed by Cyberange?

EdTech

EdTech

Enterprise

EdTech

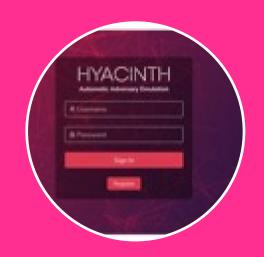


Smart City Simulator (CPS Physical Lab for IoT and SCADA)

- Smart City
- Aviation Sector



Cloud Based Virtual Labs (For IT Security Simulations)



Cloud Based
Adversary AttackEmulation (For SOC
Maturity Audit)



Nano-SOC Simulation (For SOC Training)

Confidential Version 1.0

Demo



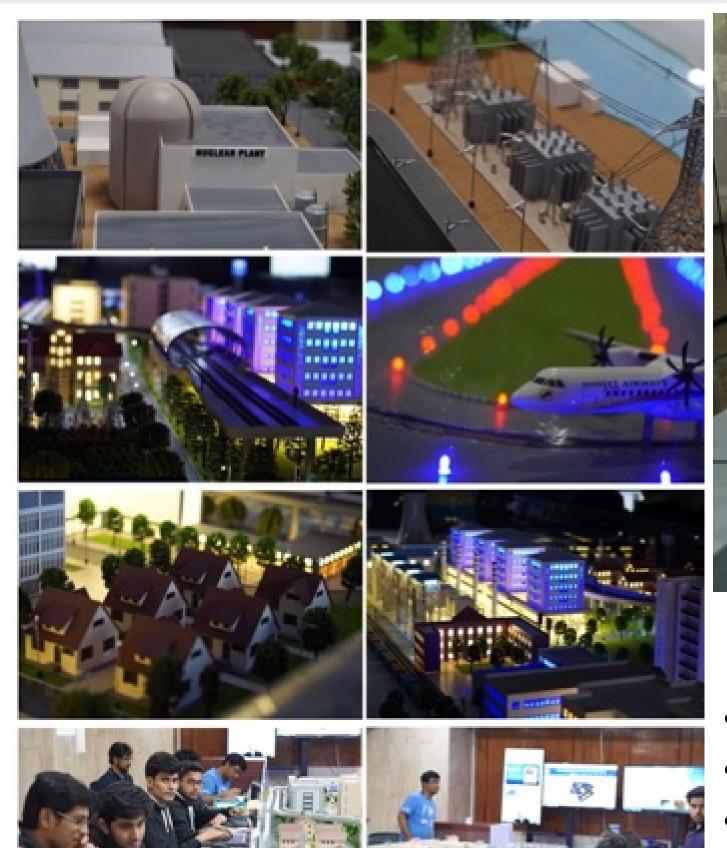
Physical Labs

- https://www.youtube.com/watch?v=pc8NAiFGj24
- https://www.youtube.com/watch?v=RAEFG-ust4U

Virtual Labs

https://www.youtube.com/watch?v=7uVHQCzdjQQ

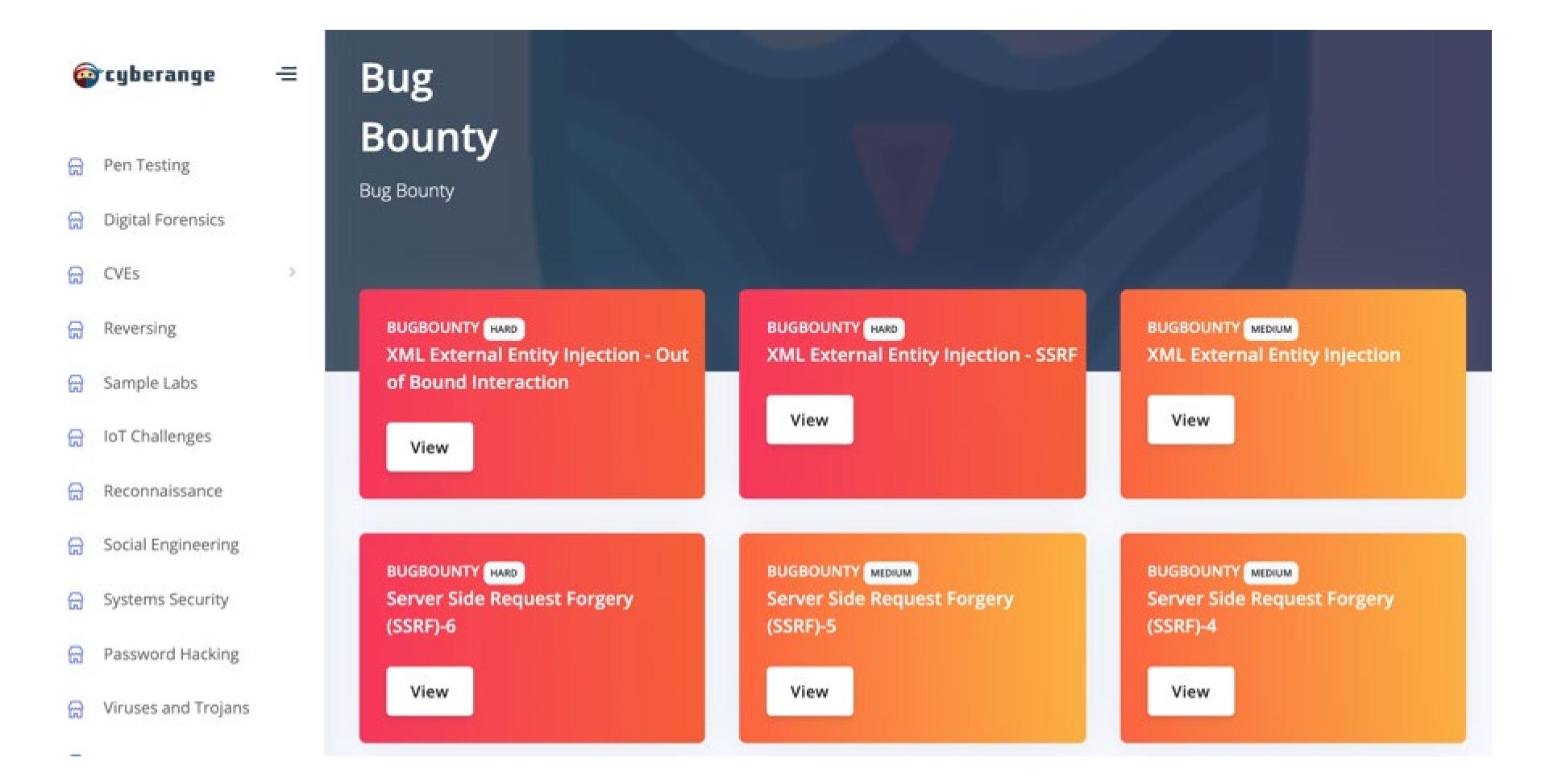
Phygital Security Lab





- 50+ SCADA/PLC security scenarios with simulations
- Covers scenarios in over 10 critical sectors
- 20 CPTED Scenarios for Smart Building Security
- MITRE ATT&CK Emulation

Virtual Labs Platform





Adversary attack simulation based on MITRE ATT&CK

How can you benefit from our tech?

Education

- Launch new courses as University, get global students
- Conduct hands-on CS training & Hackathons
- Power your e-learning platform with our virtual labs

Critical Sectors / Companies

- Get Ransomware
 Simulation services
- Conduct SOC Maturity audit with complete simulation of cyber killchain
- Conduct Red Teaming for sensitive environments safely

Governments

- Build cyber offensive & defensive capabilities for your armed forces
- Setup cyber ranges to enhance jobs in your country
- Use simulations to test efficiency of cyber security start-up offerings for investment & funding decisions

Recent News - 21st October 2021



- 1. Cyberange wins big to execute the first ever cybersecurity hackathon for the Indian Army due to its technology simulation platforms
- 2. The Sainya-Ranakshetram will be an annual cyber security event starting from 2021 by the Indian Army
- 3. The winners will be awarded during the Army Day by the Prime Minister of India

Recent News - 25th October 2021



- MoU signed with Karnataka
 Digital Mission Economy (KDEM),
 Karnataka Government, to
 establish Centers of Excellence in
 Cyber Security using Cyberange
 ® technologies
- Large organizations including TCS, Infosys, L&T have committed their support to train and hire manpower from the COEs
- 3. Four locations identified as technology clusters by the Karnataka Government for setting up the COEs to make Karnataka the preferred destination for Jobs & R&D in Cybersecurity

Closing Notes

- You can collaborate as partners to sell the digital/virtual labs as white-label solutions to Universities and e-learning Platforms globally
- 2. You can partner with Center of Excellence Centers in India to train, hire and build capacity in cyber security
- 3. You can partner to establish large scale cyber ranges for your Government / Defence customers

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Connecting your business to global opportunities

AN INITIATIVE OF

SUPPORTED BY

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Enterprise Singapore









Summary

- Cutting edge cybersecurity solutions
- Bootstrapped, Profitable and Growing
- Large clients NXP, Google, Microsoft, Facebook, Philips, Stryker, UKG, TCS, FICO.....
- Acquisition Offers
- Growth (Revenue, Profit before tax) > 50%

Company Purpose

Empower every organization and team with Knowledge, Assurance and Tools to proactively defend against next-gen cyber threats.

Our Journey



NL,USA,

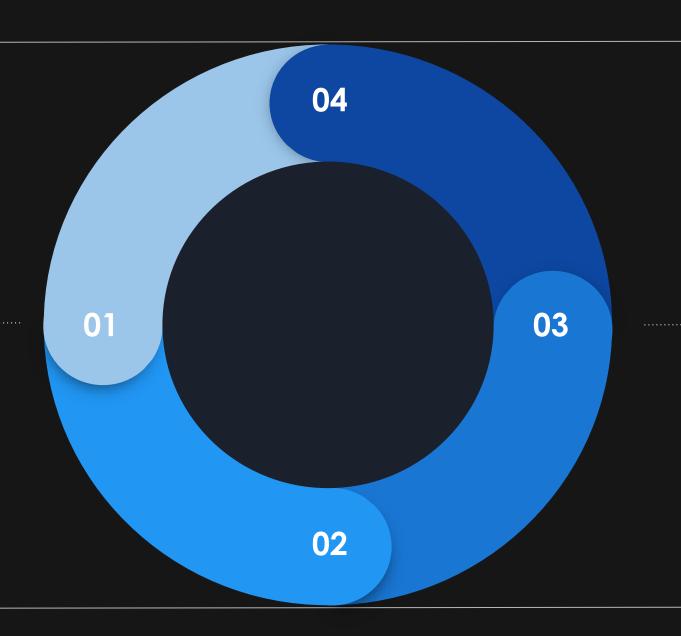
GERMAN



The largest and the most active security community in India



Pioneering hardware security conference that brings together industry, Government and Academia





The largest security conference in India





Known worldwide for it's security research and expertise.

CVEs Advisori es Talks

Over a decade of Impact

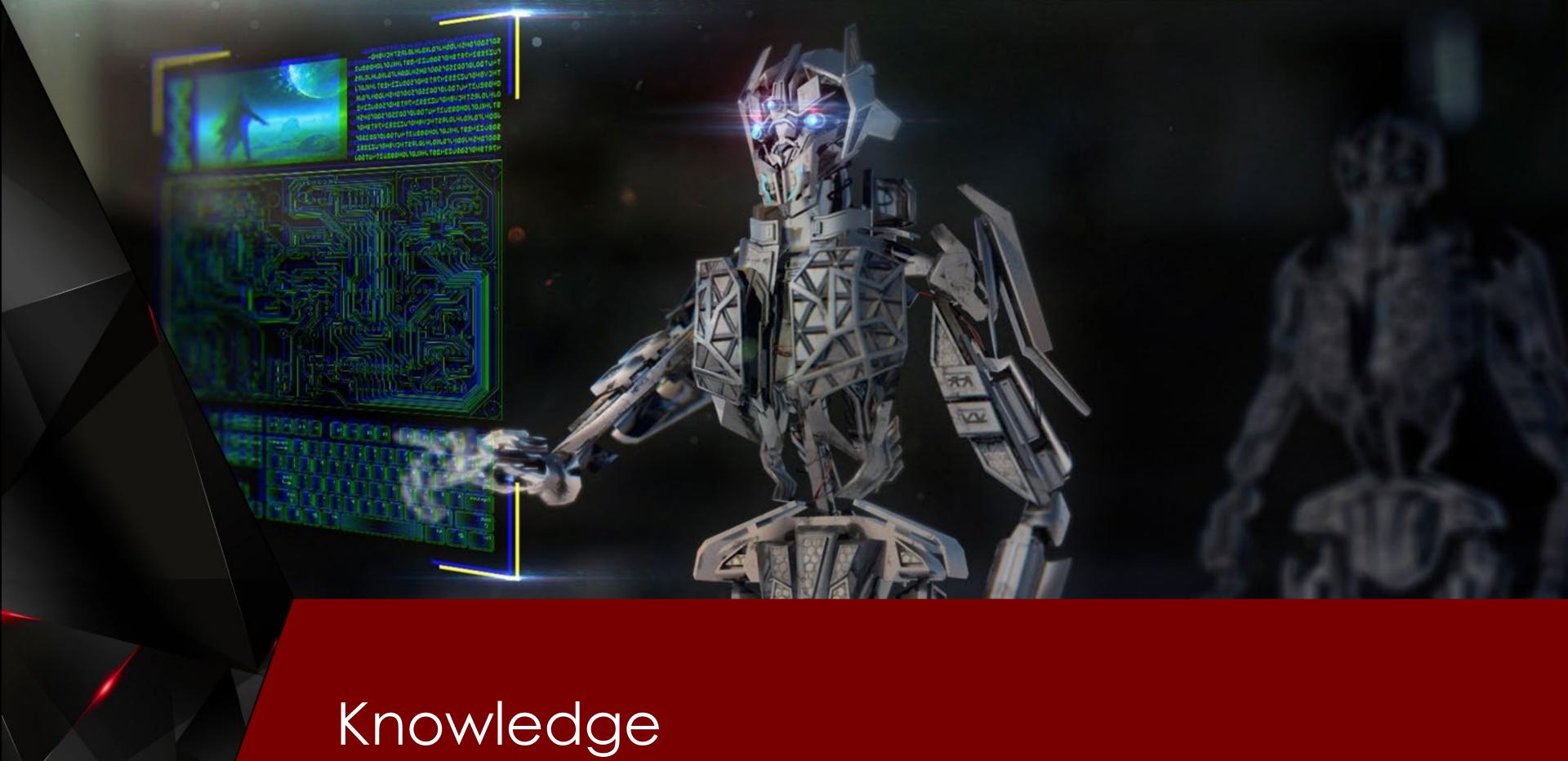
Knowledge **NULLCON** hardwear.io

Assurance



Platforms





Cyber Security Conferences

- Content
 - New Research
 - New attacks
- Format
 - Annual Events (Training and Conference)
 - Duration 5 Days each
 - Training Only events
 - 2-3 Days each
- Benefits
 - Knowledge on new attack vectors and techniques
 - Highly skilled Talent search
- Revenue
 - Conference Tickets
 - Training Tickets
 - Exhibition
 - Sponsorships



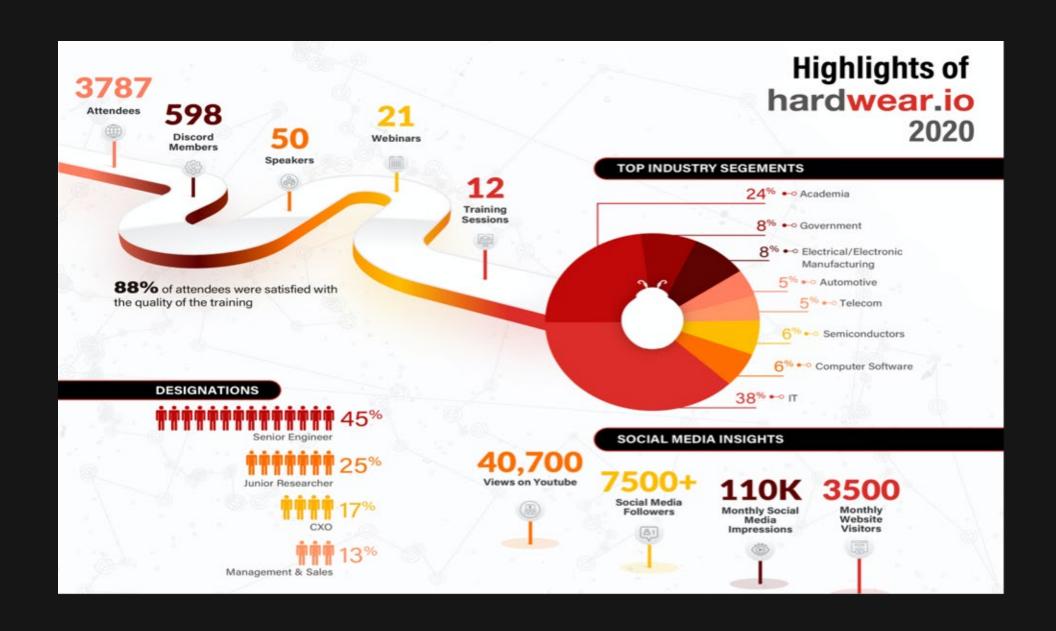
Nullcon Conference

- Goa | Delhi | Bangaluru
- Started in 2010



Hardwear.io Conference

- Netherlands | USA | Germany
- Started in 2015





Services



IoT/IIoT/Embedded Security
Assessment

50+ Projects



Web & Mobile App Security Assessment

400+ Projects



Red Team Assessments

50+ Projects



Cloud Infra Security
Assessment & Config Review

100+ Projects

**Cloud Storage **Cloud / Web APIs **Mobile / Thick Client / Web Apps

**Service Security **Service provider infra

**Communication (Protocol) Security **Ind Protocols **Protocols **Prot

All major Web / Mobile Technologies

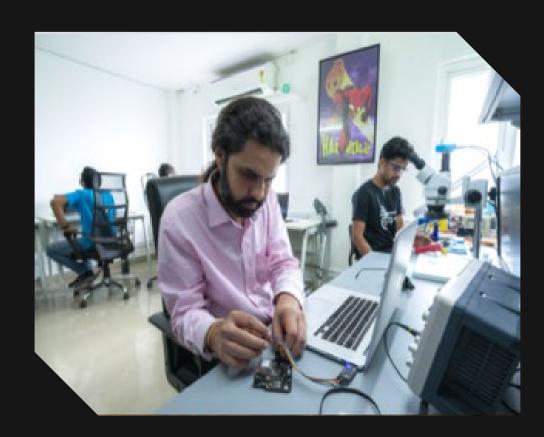


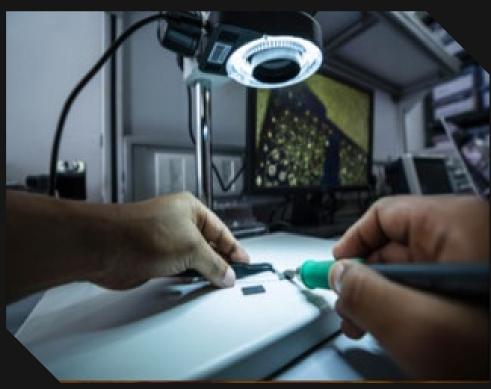


All major Cloud Services

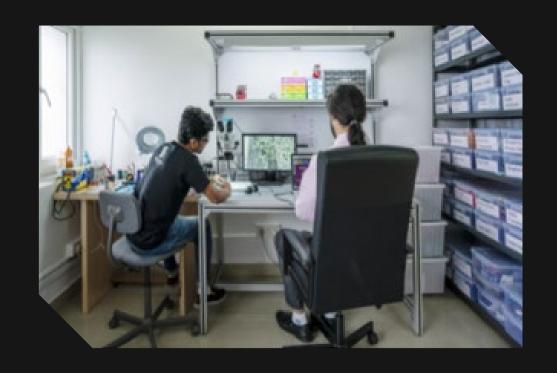


IoT/Hardware Security Testing and Validation Lab













Security Research and Responsible Disclosures

- More than 4 Dozen CVEs credited to us https://payatu.com/advisory
- Vulnerabilities across multiple technologies and stacks



Bypassed Android MDM with Electromagnetic Fault Injection on RAM using a \$1.5 Electric Lighter



- Firmware Extraction and manipulation
- Infrared Command Injection on an X-Ray Machine



Multiple Zero-days in ICS, IIoT, Telecom, Automotive, medical, consumer devices and more

















Research Talks/Workshops/Trainings at Premier Events

- Blackhat USA/EU/Singapore
- **44Con** UK (London)
- **Brucon** Belgium
- Xcon China (Beijing)
- **Power of Community Korea**
- **Hacktivity** Hungary

- **Defcon** USA/China
- Zer0Con Korea
- Hack in Paris France
- **DEEPSEC** Vienna
- **Bsides** Las Vegas/Vienna
- **DefCamp** Romania

- Cansecwest Canada
- **AusCERT** Australia
- **PHDays** Russia
- OWASP AppSec USA
- X33fcon Poland
- **Nullcon** India

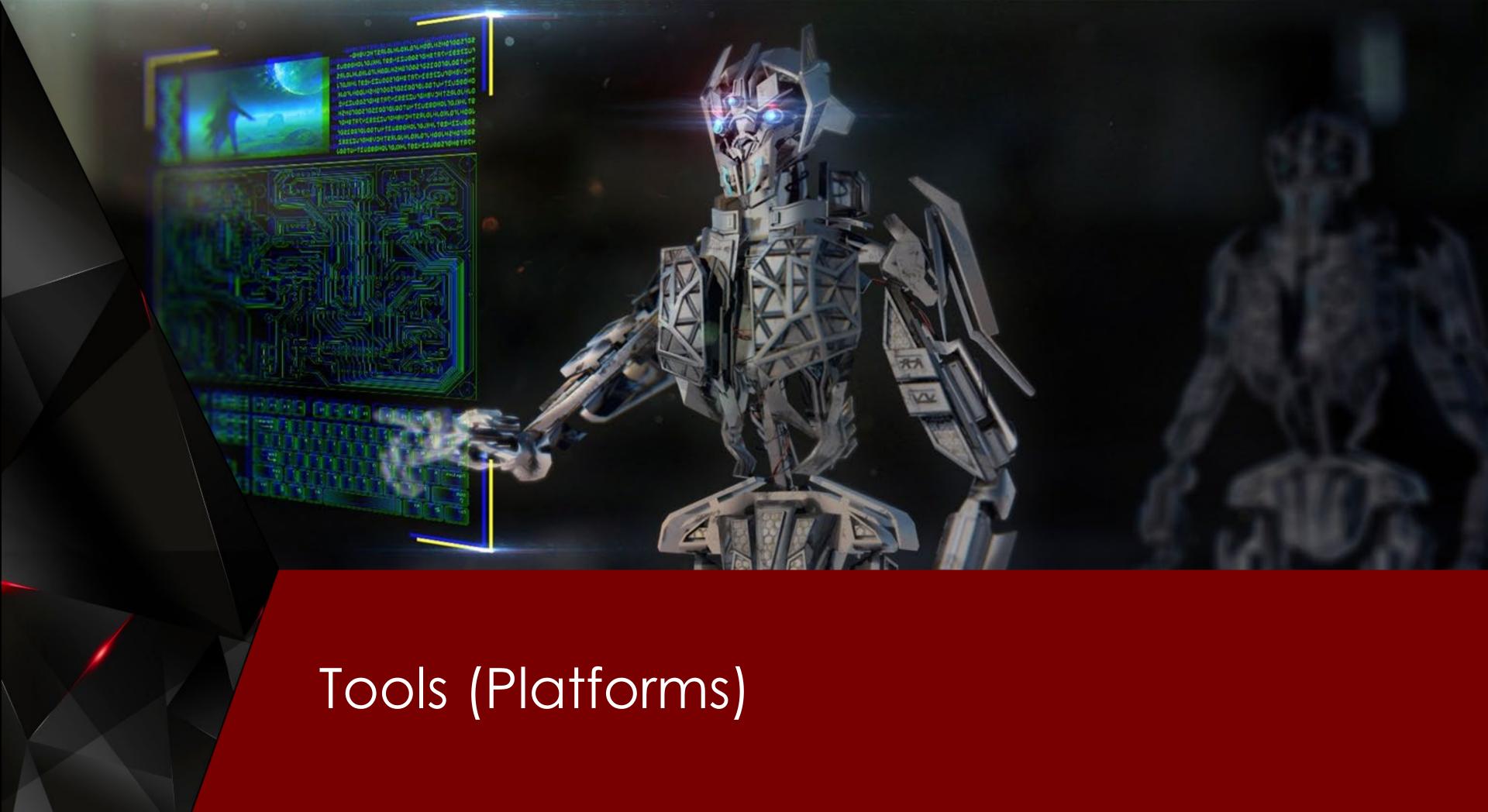






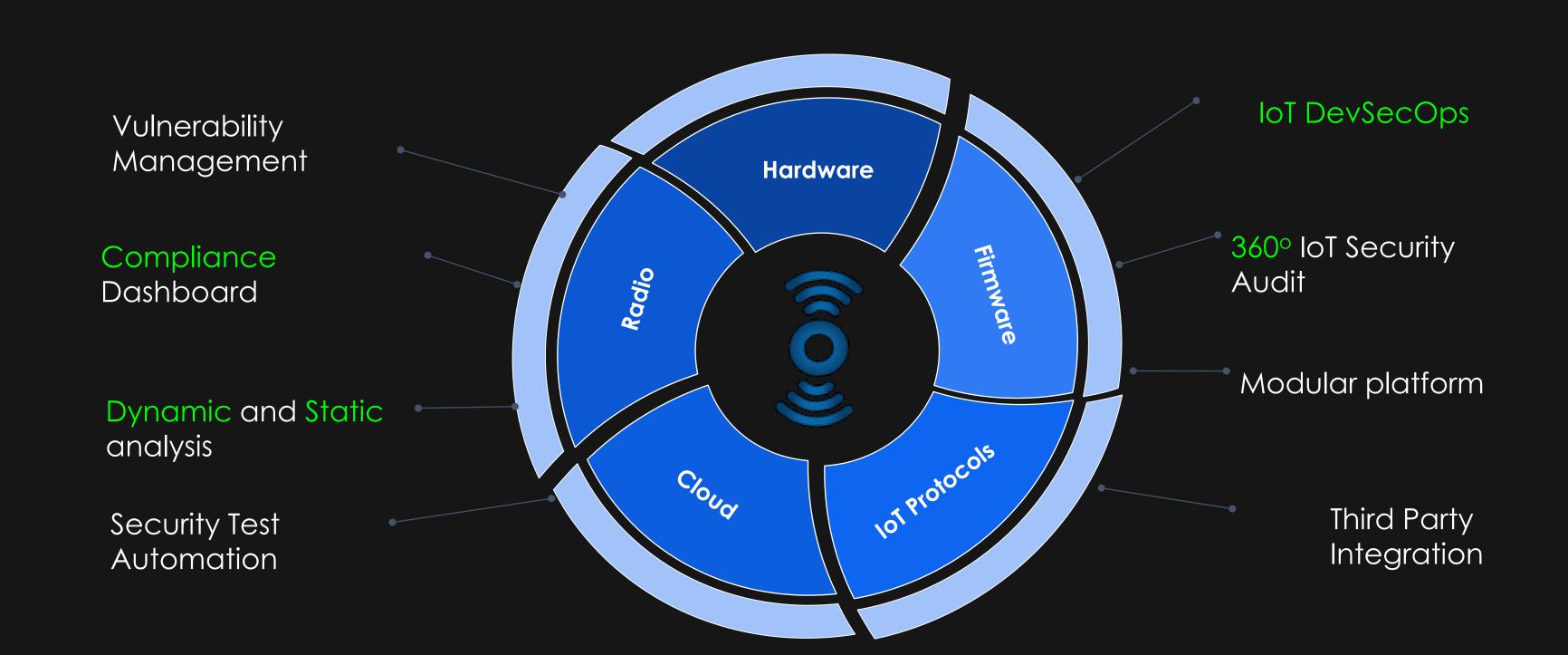




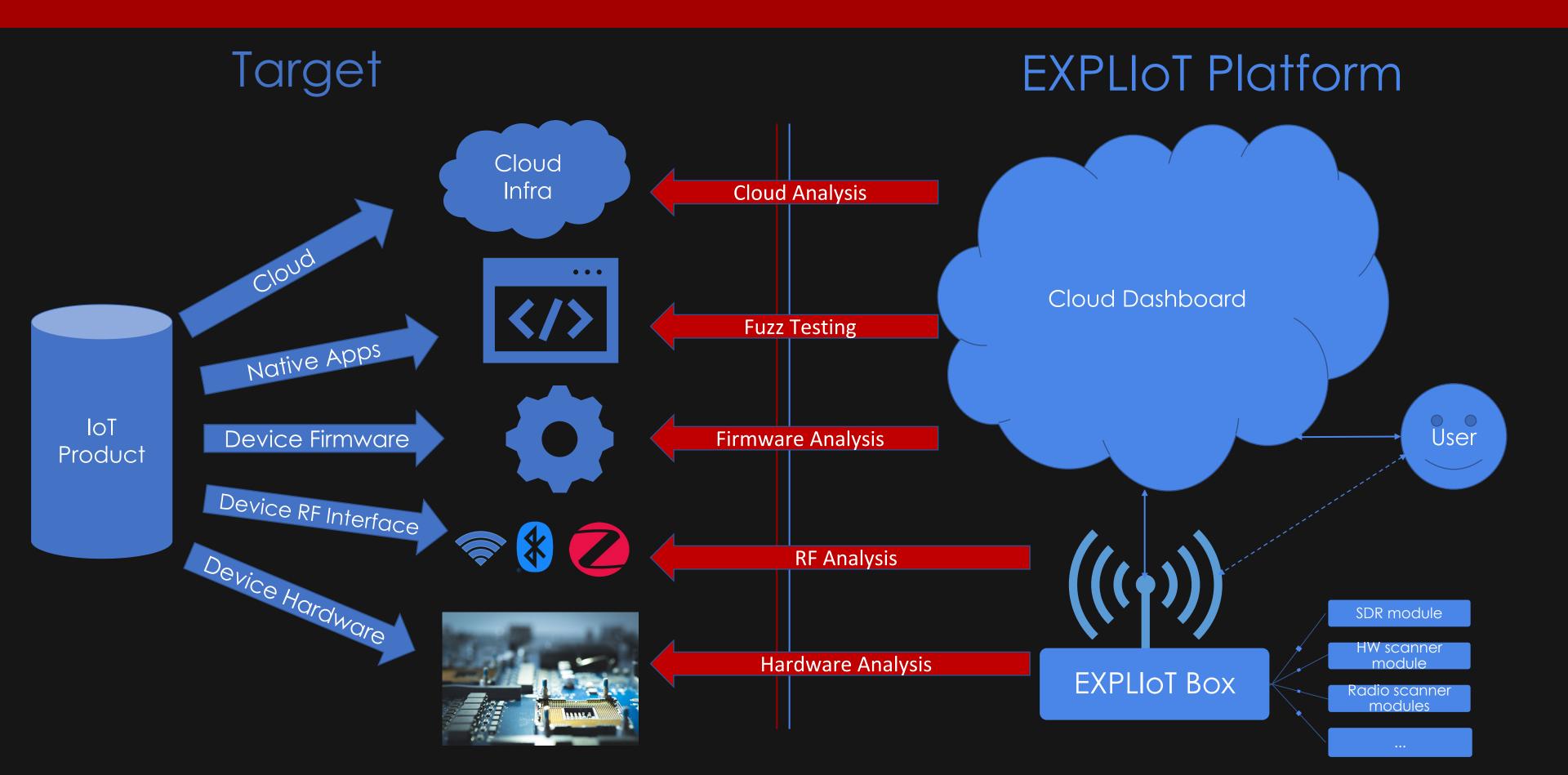


EXPLIOT Platform

- Comprehensive IoT Security/Compliance Testing and Vulnerability Management Platform
- Enables Engineering Teams continuously security test, validate and fix vulnerabilities in IoT.



EXPLIOT Platform - Overview



EXPLIOT Online Store

Software

Open Source

EXPLIOT Framework

A framework for security testing IoT products and smart infrastructure. It is written in Python 3.

Log in:

https://expliot.io/p ages/firmwareauditor

Community Edition

IoT Auditor

Blackbox pre-emptive cloud based firmware security analyser for finding security issues, threats

Source:

https://gitlab.com
/expliot_framewor
k/expliot

Hardware

100%

ZigBee Auditor

ZigBee packet sniffer and injector. It can sniff, dump and replay ZigBee packets in standard PCAP format.



100%

Bus Auditor

Hardware debug port scanner. It can scan a pcb board pinouts to identify debug protocols like JTAG, SWE UART.



100%

EXPLIOT Nano

A multi hardware protocol adaptor for communicating with target hardware.

100%

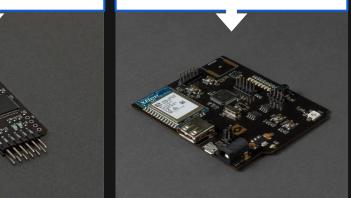
DIVA IoT Board

Vulnerable App for IoT. An intentionally vulnerable IoT board for demo and learning hw security

100%

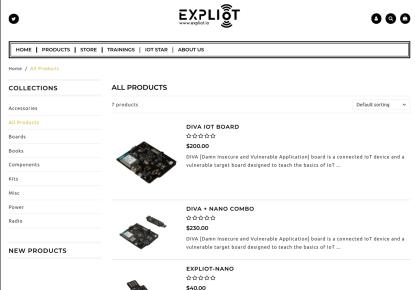
IoT Security Learning Kit

A DIY hardware kit for learning and demonstrating IoT hardware and radio attacks.



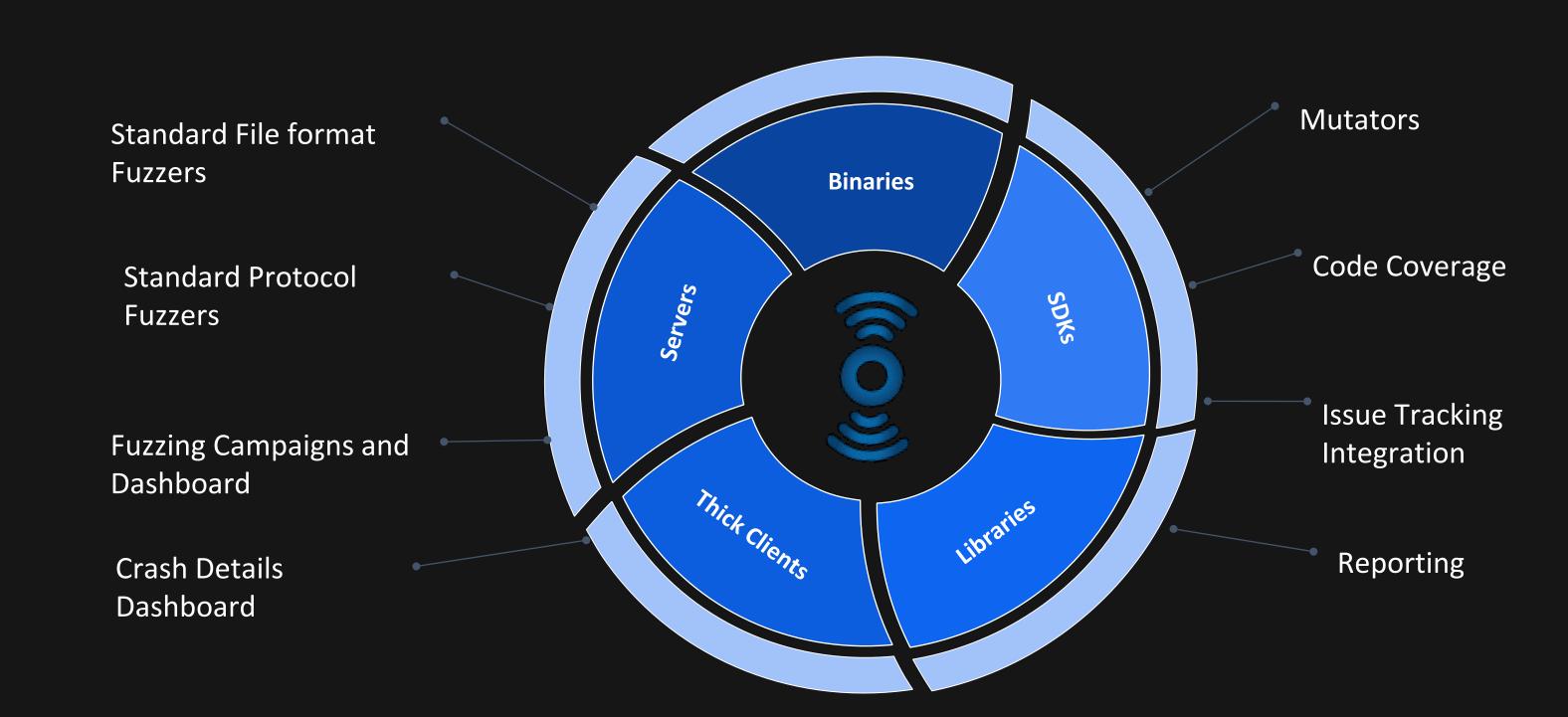




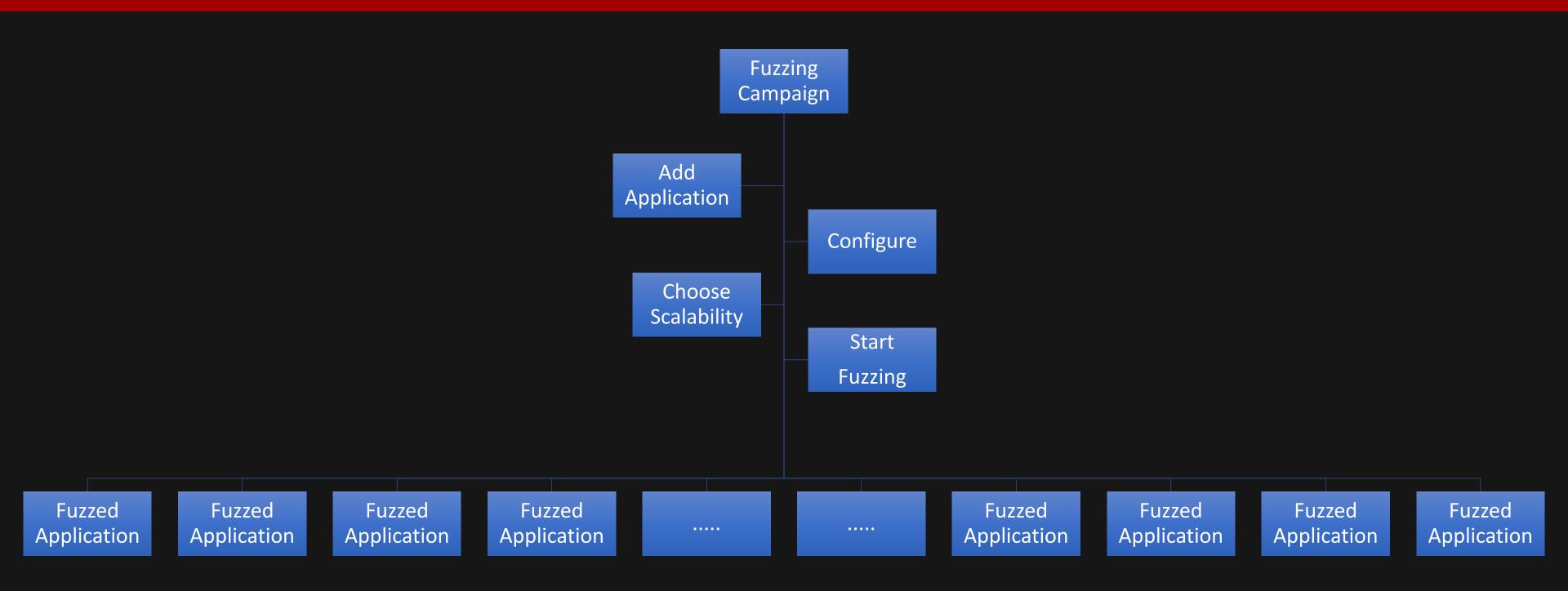


CloudFuzz Platform

- Highly Scalable and Intelligent Fuzz Testing Platform
- Enables Engineering Teams to continuously identify Zero day (unknown) vulnerabilities and fix bugs



CloudFuzz – How it works?



Traction

- IoTSF Champion Award Global Shortlist 2019, UK Payatu
- Finalists in MEITY Cyber Security Grand Challenge
- Open Source Downloads (pypi only) ~ 800 Per month
- Contributing Member of ISO, BIS, TEC DOT, IoXt Alliance, IoTSF
 - ISO 27400, 27402
 - TEC, DOT Code of Practice for Securing IoT

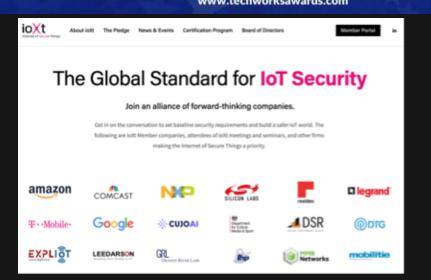
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Payatu









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Contact Us

Email: <u>aseem@payatu.io</u>

Phone: +91 9881376590

Website: https://payatu.io

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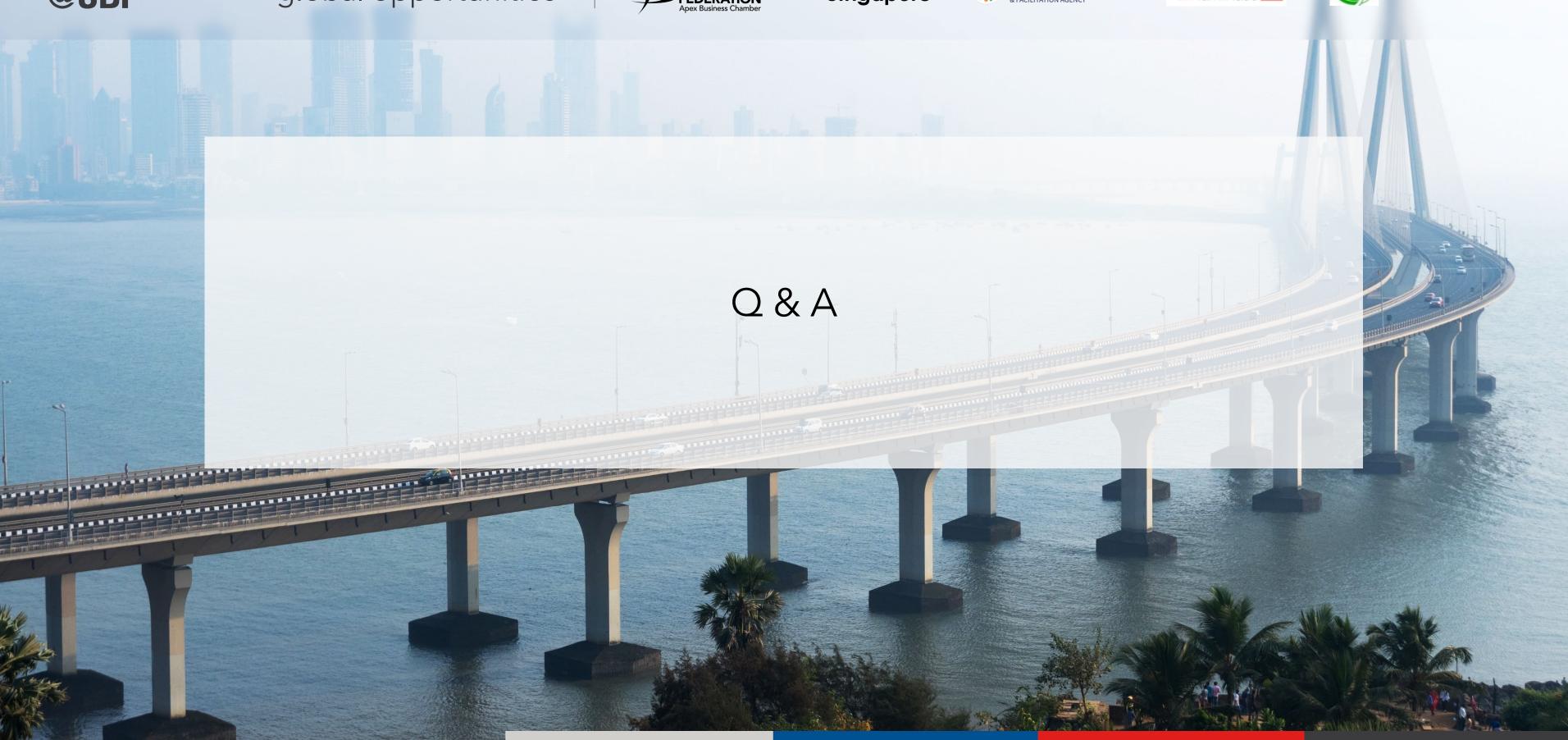
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Enterprise Singapore



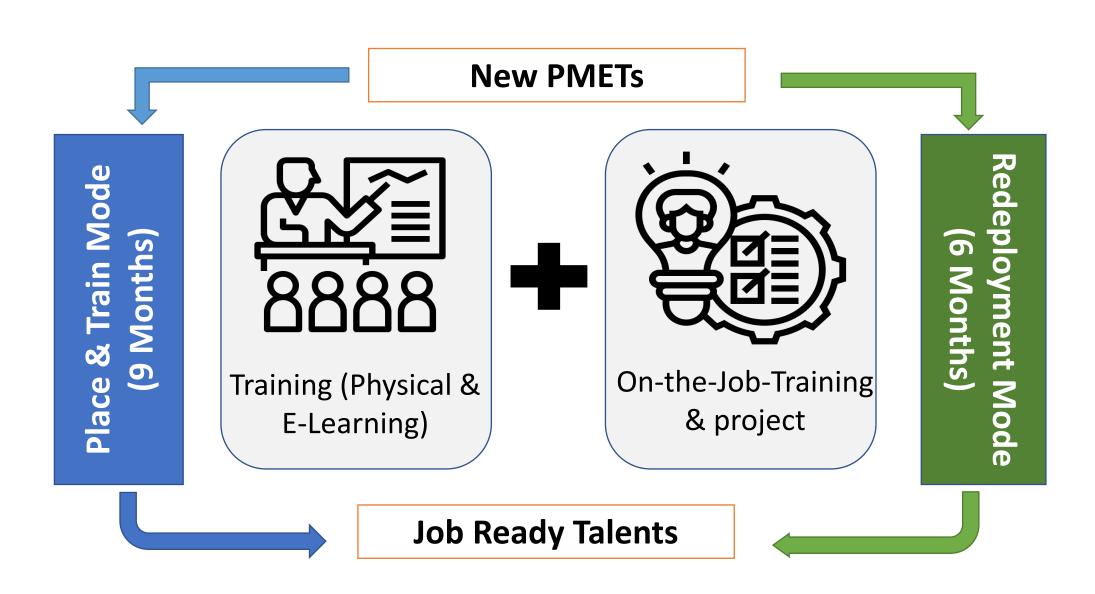




Career Conversion Programme: Internationalisation Professionals (CCP-I)



Helping Companies Build Internationalisation Capabilities



Grant Support



6 Months / 9 Months Up to 90% Salary Support





70% of \$13,000 training course subsidy

Scan / Email us for more information





Mr Eady Ng

Email: eady.ng@sbf.org.sg

Ms Elizabeth Wee

Email: elizabeth.wee@sbf.org.sg









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