



DreamSpace Academy
Co-Creating The Dreams

Who are we?

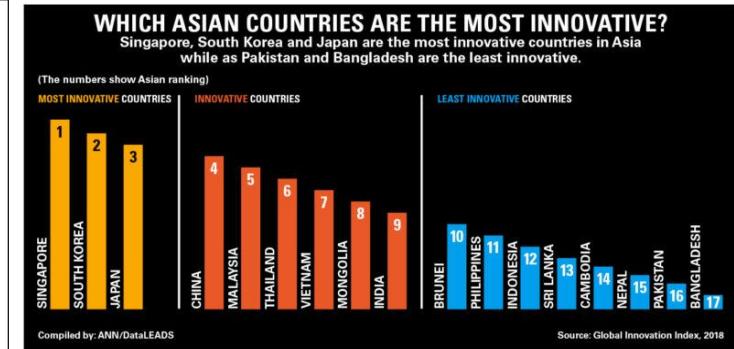
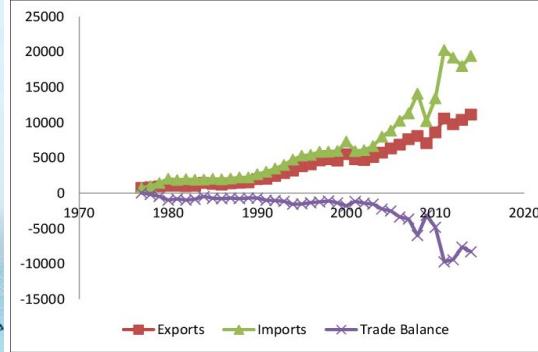


DreamSpace Academy is a **Community Innovation Center** to tackle authentic local socio-economic and environmental challenges using **Project & Challenge Based Learning**

Why do we do?

One of the **least innovative** country in **Asia**

In 2017, Sri Lanka exported \$12B and imported \$21.1B, resulting in a negative trade balance of \$9.1B.



Locals should solve **local** challenges

Source: unocha.org, global-innovation-index-2018, researchgate.net, oec.world

What do we do?

Our mission is to empower creative minds through **Maker Education**, to create innovative solutions using **Open Innovations**, and ultimately leading them to become successful **Social Entrepreneurs**

How do we do? | DreamSpace Life Cycle



Maker Education

Our academic operation for project based learning with multidisciplinary workshops to build practical skills



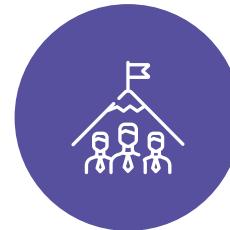
Community Innovation

Our research and development operation for innovating local solutions to tackle authentic local challenges



International Collaboration

Our co-creation operation with international partners to expand our visibility and knowledge base



Social Entrepreneurship

Our business operation to productize our local solutions for creating socio-economic development

What are we?

We are a **Non-profit Social Enterprise** that keeps the balance between the **Social Mission** and the **Business Venture**, to achieve **Sustainable Development Goals** and empower the **Underprivileged Communities**, with the help of international & local organisations and individuals.



Maker Education

Maker Education

Electronics Lab

For those who are fascinated by robots, to develop practical skills for building anything from circuits to humanoid robotics

Workshops

- How to design, prototype and manufacture digital & analog electronic circuits (Circuits)
- How to develop a firmware for embedded microcontrollers (Firmware)
- How to design, build and program robotic systems (Robotics)
- How to design wired and wireless communication systems (Networks)
- How to build automation systems with sensors and actuators (Automation)



Source: dreamspace.academy



Maker Education



Software Lab

For those who crave for digital adrenaline, to gain practical experience on coding anything from apps to cloud computing

Workshops

- How to code software applications for desktop, web and mobile (Apps)
- How to design, integrate and maintain databases (DBMS)
- How to build websites with content management system (CMS)
- How to deploy and maintain web servers (DevOps)
- How to develop machine learning & deep learning algorithms (Data Science)



Source: dreamspace.academy

Maker Education

Mechanics Lab

For those who shift their brain gears, to gather practical skills for anything mechanical design to digital fabrication

Workshops

- How to do high precision & manufacturable mechanical designs (CAD)
- How to produce bioplastic products with additive manufacturing (3D printing)
- How to make wood & metal products with subtractive manufacturing (CNC milling)
- How to fabricate intricate designs in wood, plastic, paper, fabric (Laser cutting)
- How to make wooden & metal parts with power tools (Woodworking & Metalworking)



Source: dreamspace.academy



Maker Education

Business Lab

For those who have entrepreneurial mindset, to build practical knowledge for maximizing growth of the business venture

Workshops

- How to design user centric solutions (Design Thinking)
- How to develop sustainable financial and business modeling (Business)
- How to develop B2B and B2C funnel (Sales)
- How to create startups from innovative ideas (Entrepreneurship)
- How to raise funds or investments for a business venture (Investment)

Source: dreamspace.academy



Maker Education

Art Lab

For those with genuine creative imagination,
to build practical skill set for composing
anything from photographs to rhythms

Workshops

- How to compose and play music with instruments (Music)
- How to capture everlasting moments with photos (Photography)
- How to map stories with narrative experiences (Storytelling)
- How to present stories, ideas and facts with short films (Filmmaking)
- How to make tiny sculptures on rice (Microart)



Source: dreamspace.academy

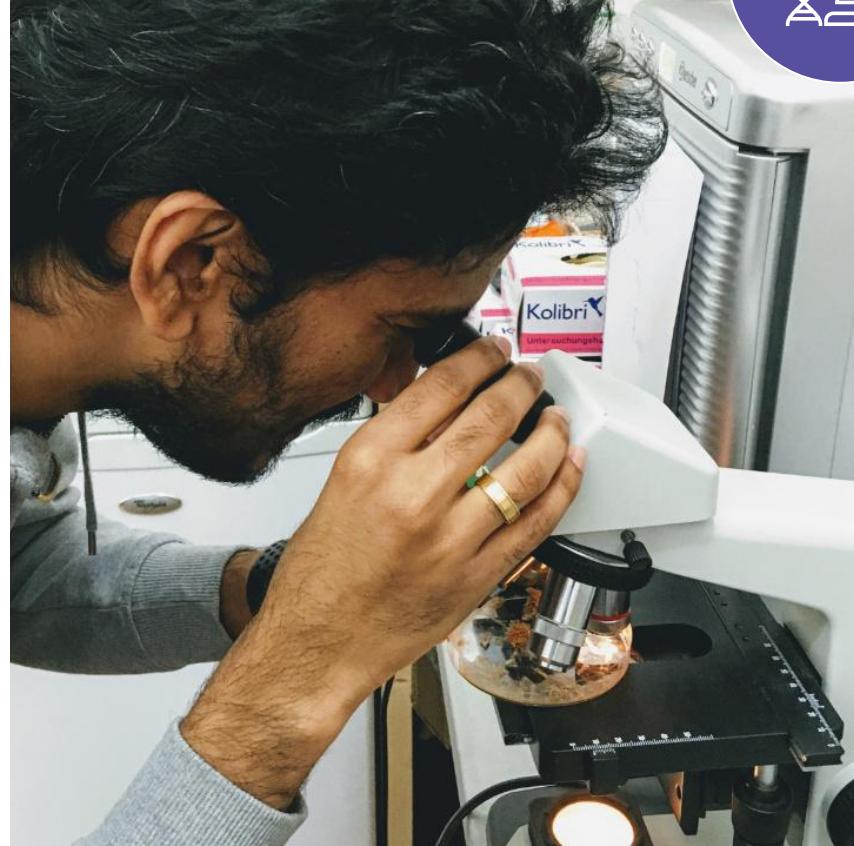
Maker Education

Bio Lab

For those who want to get their hands wet with BioHacking, to build practical dexterity on BioTechnology

Workshops

- How to extract, sequence and edit DNA of E.coli bacteria (Genetics)
- How to build a Bioreactor to culture microorganisms (Bioreactor)
- How to brew probiotic drinks by fermenting Hibiscus (Culture)
- How to produce alternative superfood from Cyanobacterias (FoodTech)
- How to culture mushrooms for sustainable materials (Mycology)



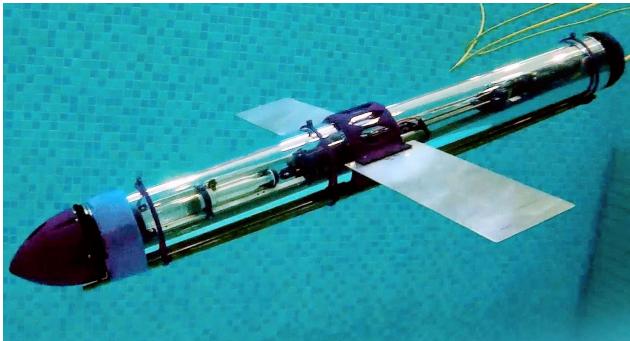
Source: dreamspace.academy





Community Innovation

Community Innovation



Source: dreamspace.academy, hackaday.io

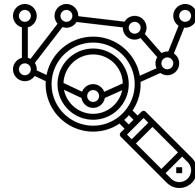
Community Innovation - Prototype To Production



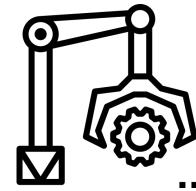
**Environmental
Sustainability**



**Open
Innovation**



**Research &
Development**



**Local
Manufacturing**



International Collaboration

International Collaboration



Source: dreamspace.academy

International Collaboration - Partners



Proud to be

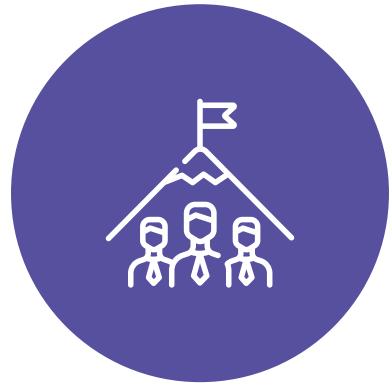


In Sri Lanka



STOCKHOLM
JUNIOR
WATER PRIZE

Source: greenbuzzberlin.de, globalinnovationgathering.org, motionlab.berlin, aracreate.com, bookbridge.org, troublemaker.site, dofe.org, siwi.org, berlin.sciencehackday.org



Social Entrepreneurship

Social Entrepreneurship



Source: dreamspace.academy, terrace,dreamspace.academy

Social Entrepreneurship - Idea to Impact Business



Community Business

Digital Nomads, Co-Working,
Urban Farming, Smart
Mobility



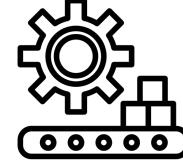
Socio-Economic Development

Employment and Skill
Development



Impact Investment

Startup Accelerator,
Incubator, Investors



Mini Factories

Regional Products, Conscious
Consumerism

Co-Creating The Dreams



Source: dreamspace.academy

Co-Creating The Dreams



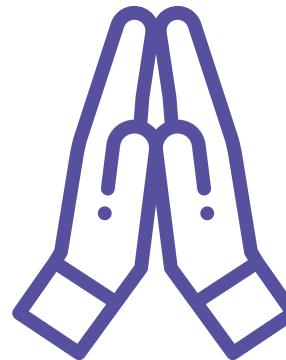
Source: dreamspace.academy

Co-Creating The Dreams



Source: dreamsphere.academy

Thank You



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