



# **SPACEBIZ BREAKFAST SERIES**

**8th Session:  
Space Tech Hong Kong? The Case of 18C.**

**31 Mar 2023  
Bankers Club, Central, Hong Kong  
8:30 am to 10:00 am (10:30 final call)**



# ***Agenda for Today's Breakfast***

# **This Morning's Flow**

31st Mar

**I. Welcome by Dr G. and Investment Disclaimer**

**II. Introduction to Our Special Guests**

**III. Why Here? Why Now? Why OASA? Why You?**

**IV. Breakfast (25 minutes or less)**

**V. Today's Discussions:**

- ❖ **18C by Dr. Renu Bhatia, Deputy Chair of the Listing Committee of HKEx and Council Member of OASA**

- ❖ **Representative from Lab For Space Research, Prof. Q**

**VI. Next Series of Topics.**

**VII. Wrap Up and Conclusion.**

***I. Welcome Fellow Astropreneurs...  
“STEAM” Talk for Adults***



## ***II. Our Special Morning Guest***

# Dr. Renu Bhatia

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*Dr. Renu Bhatia is an accomplished senior executive with 25+ experience in investment banking, asset management, venture capital, and in medicine and biotech. Licensed physician, and Co-Founder of Opharmic Technology a non-invasive drug delivery platform for eyes.*

*HSBC Asset Management Hong Kong, Goldman Sachs, New York and Lombard Odier, London.*

- Deputy Chairman of The Stock Exchange of Hong Kong*
- Chairman and Co-Founder of Opharmic Technology*
- International Council Member at OASA.*

*Dr. Bhatia holds Masters of Business Administration from Yale University, a Doctor of Medicine, from University of London and a Post Grad Diploma in Therapeutics and Medicine from the University of Hong Kong.*





# Advisory Board

*Just a shortlist of over 30 global advisors*

- Dr. Chris Altman, NASA-Trained Astronaut
- Mr. Andy Bien, former CIO, HK Airport Authority; Senior Advisor, Huawei
- Dr. Renu Bhatia, Deputy Chair of the Listing Committee, HKExchange
- Prof. Richard Leung, former head of UBS China. Prof. of Practice PolyU.
- Ir. Michael Pang, MD, Protiviti
- Prof. K.L. Yung, BBS, Director of Research Centre for Deep Space Explorations, PolyU
- Prof. CY Wen, Director of Aeronautical and Aviation Engineering, PolyU
- Prof. CK Shum, Remote Sensing, Ohio State University
- Dr. Winnie SM Tang, Chair ESRI China.
- Mr. MY Wong, BBS, JP. Former Chair of ASTRI.
- Ms. Rosana Wong, Cyberport Director and ED of Yau Lee Holdings
- Prof. Po Chi Wu, Adjunct Prof and Mentor at UC Berkeley's Accelerator and Incubator SkyDeck
- Prof. John Zhao Yun, Space Law expert and former Dean of the HKU School of Law



OASA GROWING LIST OF PARTNERSHIP





### ***III. Here and Now!***

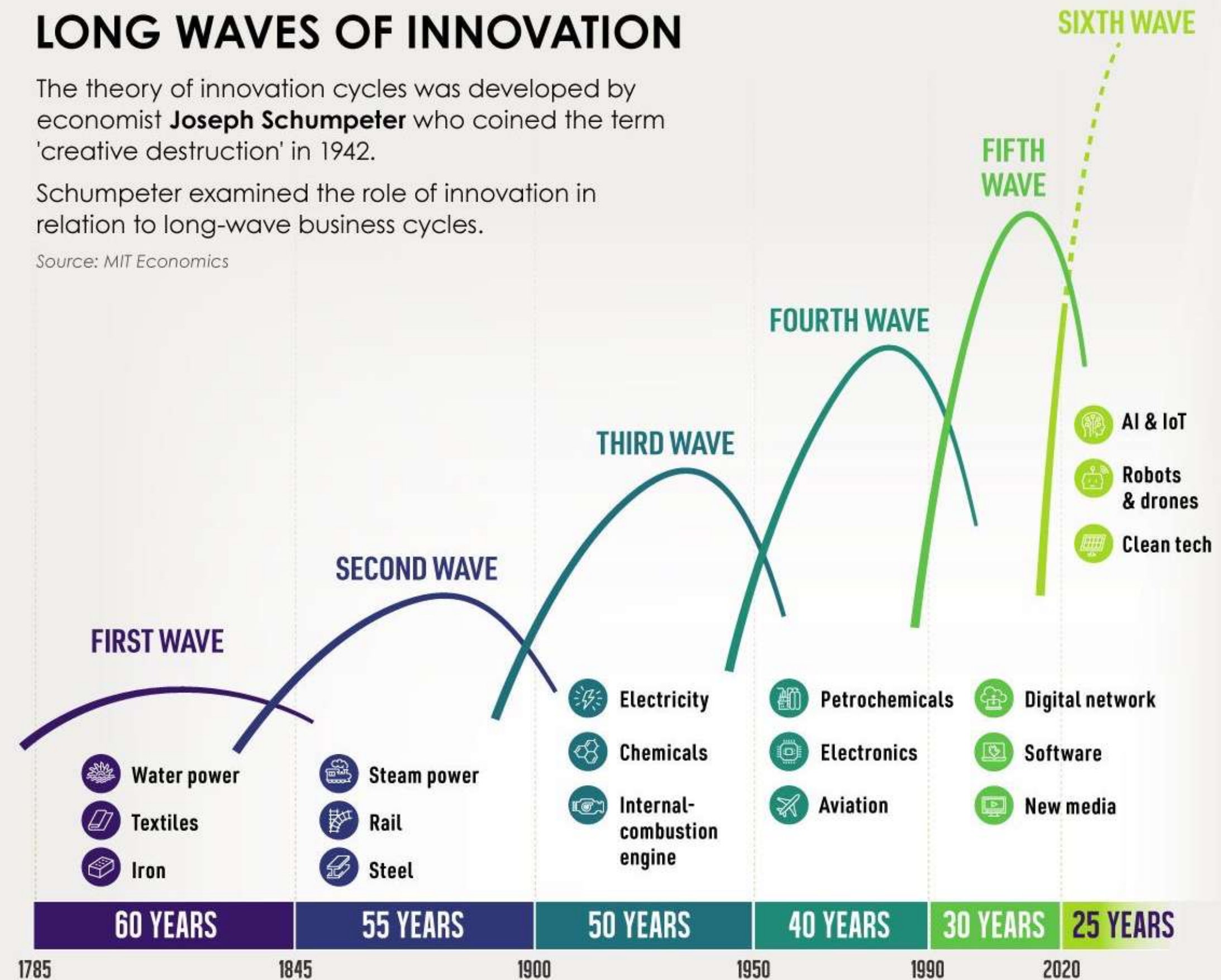
# NewSpace Economy as the Next Innovation Cycle

## LONG WAVES OF INNOVATION

The theory of innovation cycles was developed by economist **Joseph Schumpeter** who coined the term 'creative destruction' in 1942.

Schumpeter examined the role of innovation in relation to long-wave business cycles.

Source: MIT Economics



## KEY BREAKTHROUGHS

### FIRST WAVE

During the Industrial Revolution, the first factory emerged—a cotton mill in Britain.

### THIRD WAVE

Henry Ford's Model T introduced the assembly line, revolutionizing the automotive industry.

### FIFTH WAVE

In 1990, 2.3M used the internet—by 2016 this reached 3.4B.

Source: World Bank





The arrival of the

# NewSpace Economy

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OASA accelerates the development of young global leaders through specially designed journeys and wicked challenges





# Be an Astropreneur in the NewSpace Economy

The NewSpace Economy is already here but only the prepared ones can sense its arrival.

Do you children? Have you?

The NewSpace economy creates massive opportunities for innovation and business. We will need entrepreneurial talents who have an “Astropreneurial” mindset and know how to build new ventures in the NewSpace Economy.



<https://spacenews.com/a-trillion-dollar-space-industry-will-require-new-markets/>





# VISION, MISSION, & VALUE



## 01. Vision

Hong Kong as a Space Portal by 2030. *Why not?*



## 02. Values

Zero Politics. Zero Pollution. Zero Militarization of Space.  
Zero Ignorance. One World.  
*From Zero to One.*



## ***II. OASA as a Do-Tank***



**“How” might we help young leaders become  
Astropreneurs for the world?**



# OASA MISSIONS

01

## The Business of CubeSats (2021)

**Educating** -- our Youths  
and Parents to the Concept  
and Reality of CubeSats.

02

## The Education of Explorers and Astropreneurs (2022)

**Prototyping** -- Mission Moonshot  
and Young Marco Polo Programs.

03

## Space Rangers and Ambassadors (2023)

**Launching**-- Space Pioneers  
Competency Sets, Reverse  
Mentoring, Silver Angels and  
Certified Global Mentors.



# OASA Missions



## The Connectivity and Business of CubeSats

Educating our Youths to the Concept and Reality of CubeSats.

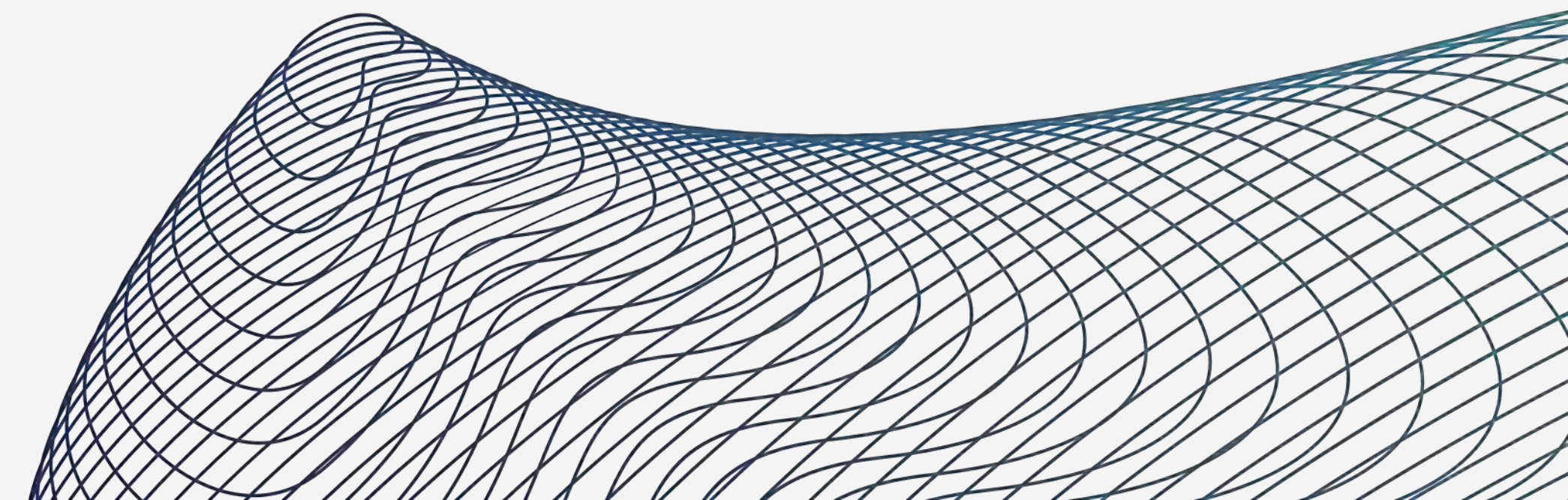


## Space Accelerators (Starting from GBA)

Enrich the Investment Pipeline, Establishing a Moon base on the Metaverse, or Grooming Astropreneurs with Global Mentors?

## Space Pioneers and STEAM Ambassadors

Launching Mission Moonshot Digital Challenges, Grooming Young Marco Polo's, and Establishing New OASA University Chapters and Digital Ventures





# March Update on our Young Marco Polo Program/Moonshot



## The Entrepreneurship Bootcamp

Student Teams explore new ventures for companies

## The Leadership Incubator

Team Leader drive the team with Project Owners

## The Talents Accelerator

High flyers equip more skills via workshops and tutorials

## Tailored Learning for Future Leaders

Each team is assigned with 2 Global Mentors



# New Ventures to Ground



New Supply Chain



Fountain of Youth  
(Aging Population)



Family Businesses



Visual AI App  
using ChatGPT



# Objectives

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**Discovery questions are the hard questions; and wicked questions are the hardest of them all.**



Reframe the problems

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**Consider new customers' viewpoints and conduct experiments using multi-disciplinary innovative problem-solving approaches to convince others with data**



Practice Teamwork

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**Work together and leverage the strengths of the executives. Need to attend workshops, tutorials, and regular meetings with Project managers regularly with good Project Management.**



Establish new venture for real actions

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**Put together a sound proposal for a new venture, and convince sponsors to action. Achieve all the deliverables to make the sponsor satisfied.**





Side-by-Side:

# Design Thinking & Systems Thinking



## Design Thinking

**USER-FOCUSED:** prioritizes deeply understanding the problems of a core group of users

**SOLUTION-ORIENTED:** culminates in a prototype for a solution that can be tested with real people

**ASPIRES FOR DELIGHT and USE:** works to build solutions that meet the needs of real users

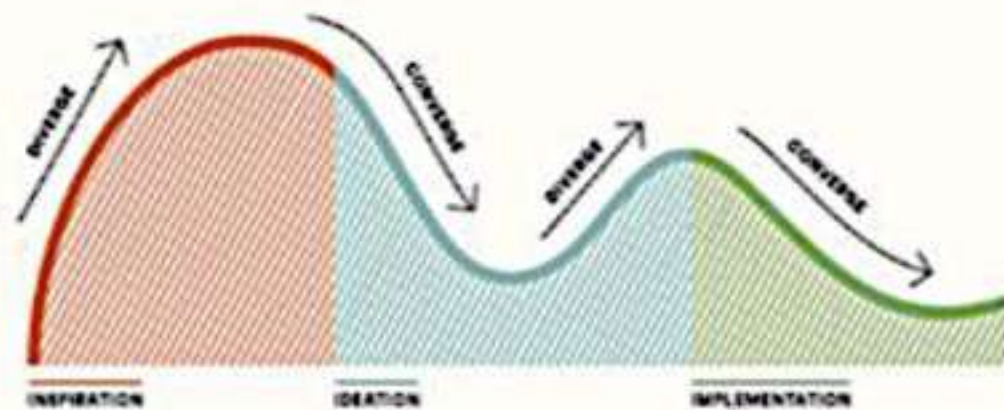


Image Credit: IDEO.org

## BOTH!

**THOUGHTFUL:** both emphasize understanding problems before building solutions

**NON-LINEAR:** both prioritize gaining input from people and then iterating upon your ideas in a cyclical fashion

**INNOVATIVE:** both look for new approaches based on previously undetected needs or patterns

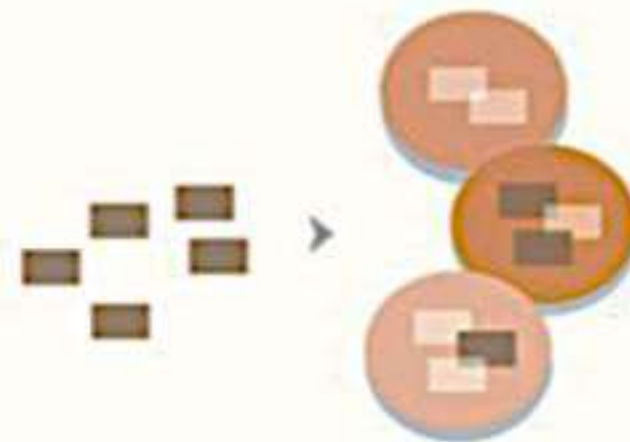


Image Credit: The Omidyar Group

## Systems Thinking

**SYSTEM-FOCUSED:** prioritizes understanding the factors and dynamics that make up a complex problem

**PROBLEM-ORIENTED:** focuses on developing a nuanced understanding of a problem through the creation of a systems map

**ASPIRES FOR HEALTH:** works to build solutions that do not create unintended consequences but instead foster healthy dynamics

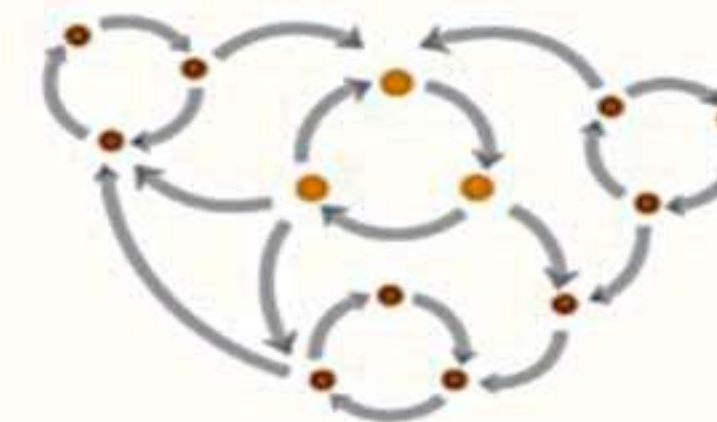


Image Credit: The Omidyar Group





ONGA<sup>®</sup>

- SPACE PORTAL : HONG KONG -





**IS THIS OUR NEW “OVERVIEW  
PERSPECTIVE”?**



# Why Not?

# STEAM for “Younger Adults” ... Removing Space Debris, @PolyU

**We are looking for Judges (29 Apr Demo Day at PolyU, 9:30 am to 3 pm).**

FEB 18-APR 29, 2023  
2-5PM (EVERY SATURDAY, EXCEPT APR 8)

# POLYU CUBESAT MISSION

## SPACE DEBRIS REMOVAL

The new economy will increasingly be global and borderless. But how to capture the essence of this new reality and expose our future pioneers to the new world of the Space Economy?

### THE MISSION

PolyU with OASA, the Orion Astropreneur Space Academy, has created Hong Kong's first STEAM-based workshop, grounded on the creation of a small satellite known as CubeSat that has become a main stay of tomorrow's space technology. The mission of this programme, which aims to remove space debris, combines fun lectures, lab visits, and hands-on workshop with mentorship. This new 10-session programme has been designed particularly for S.4 and S.5 students.

### GET AWARDED

All participants will receive a participation certificate and receive xxxxxxx. Winners of the competition will be favourably considered for admission.

### BRIEFING SESSION

DEC 19, 2022, Monday, 4PM

Students and Teachers are welcome to join the online briefing session.



Scan and join us!





**“How” might we train young leaders become Astropreneurs?**





# Have Polo: Will Travel

Awarded for ESG Leadership



**OSA** How would students describe the Young Marco Polo Programme?

Testimonials from the 2022 summer cohorts. Video story created by a future YMP'er  
5 Teams of Students experienced real business cases and equipped with more skills.





# Why Not Build Toy Rover for our Moon and Mars at the Primary School level?



- All child has the right to play.
- All toys should be re-usable.
- All learning should encourage further learning.
- Kids learn best by teaching others.



# Summer Camp 2023?



體驗白晝與黑夜

06月 — 08月

包食! 包住! 包玩!  
包車! 包學!

觀星團

星際歷奇活動



## Explore THE GALAXY

專業導賞帶你走進大自然，盡情探索漫天星宿!

我們為你 and 摯愛呈獻  
觀星露營體驗之旅!

BGCA  
香港小學群益會  
The Best & Good Clubs Association of Hong Kong

OASA  
HONG KONG

### 星空露營體驗

場地提供露營用品，你可以體驗在野外露營的樂趣，同時間我們提供便利的生活設施給大一家大小享受和大自然的天倫樂!

### 觀星團 + 音樂晚會

每晚我們都會準備晚會娛樂和觀星團，使用我們提供的望遠鏡和AR電子星圖來辨別各種行星，恆星和星座。在漫天的星宿底下，有機會你會碰上現場音樂表演分享會，或營火故事團!

### 日營活動

精彩體驗源源不絕! 第二天早上，在大自然享受悠閒早餐過後，還有精彩的日營歷奇活動等着你體驗!

2日1夜之旅

每人\$1580

包食! 包住! 包車! 包玩!

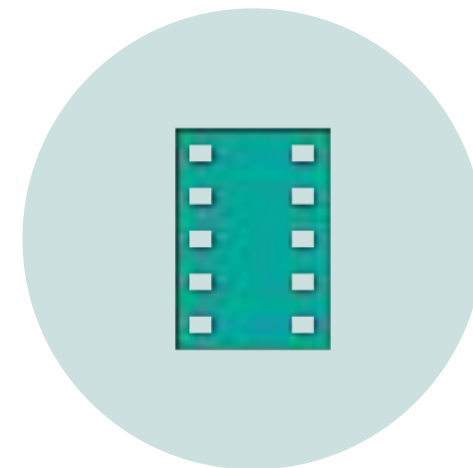




# We Need You Global Mentors. We Want You.



**SIGN UP!**



**FRONT UP!**



**MENTOR READY?**



*“Do you know me, Astropreneur?  
Do you intend to deploy blockchain in your  
space solution? I am your mentor.”*



**Eddie Chou**, Serial Entrepreneur / Blockchain Educator / Certified Cryptocurrency & Blockchain Investigator. Managed operations from the UK to the US to ASEAN. Mentor to Young Marco Polos.



*“Do you know me, Astropreneur?  
I am your mentor.”*



Rain or Shine. COVID or No COVID. Finding the best fit for an organisation requires the right touch and timing.

**Ada To**, Professional Executive Coach and Global HR Head. From Hotels, Gaming, Logistics, Brands, Construction, Telecom, Trading, Education, to Retail in Asia Pacific Australia, finding the best people and fitting them to the purpose of the firm is her calling. One of the best matchmakers in town.



*“Do you know me, Astropreneur?  
I am your mentor.”*



**Marky Mak**, Professional Diver, Entrepreneur, and a frequent Mentor at OASA. A diving buddy you want as you venture into uncharted waters. Global Supply Chain Experts with the likes of Lee Kum Kee and Maersk.





*“Do you know me, Astropreneur?  
I am your mentor.”*



Shih Sir and Mrs. Shih, Tutoring Refugees in Iran

**Shih Wing-Ching, JP.** Founder, Entrepreneur, Philosopher, and Philanthropist. Also, a mentor to Young Marco Polo's at OASA.



*“Do you know me,  
Astropreneur?  
I am your mentor.”*

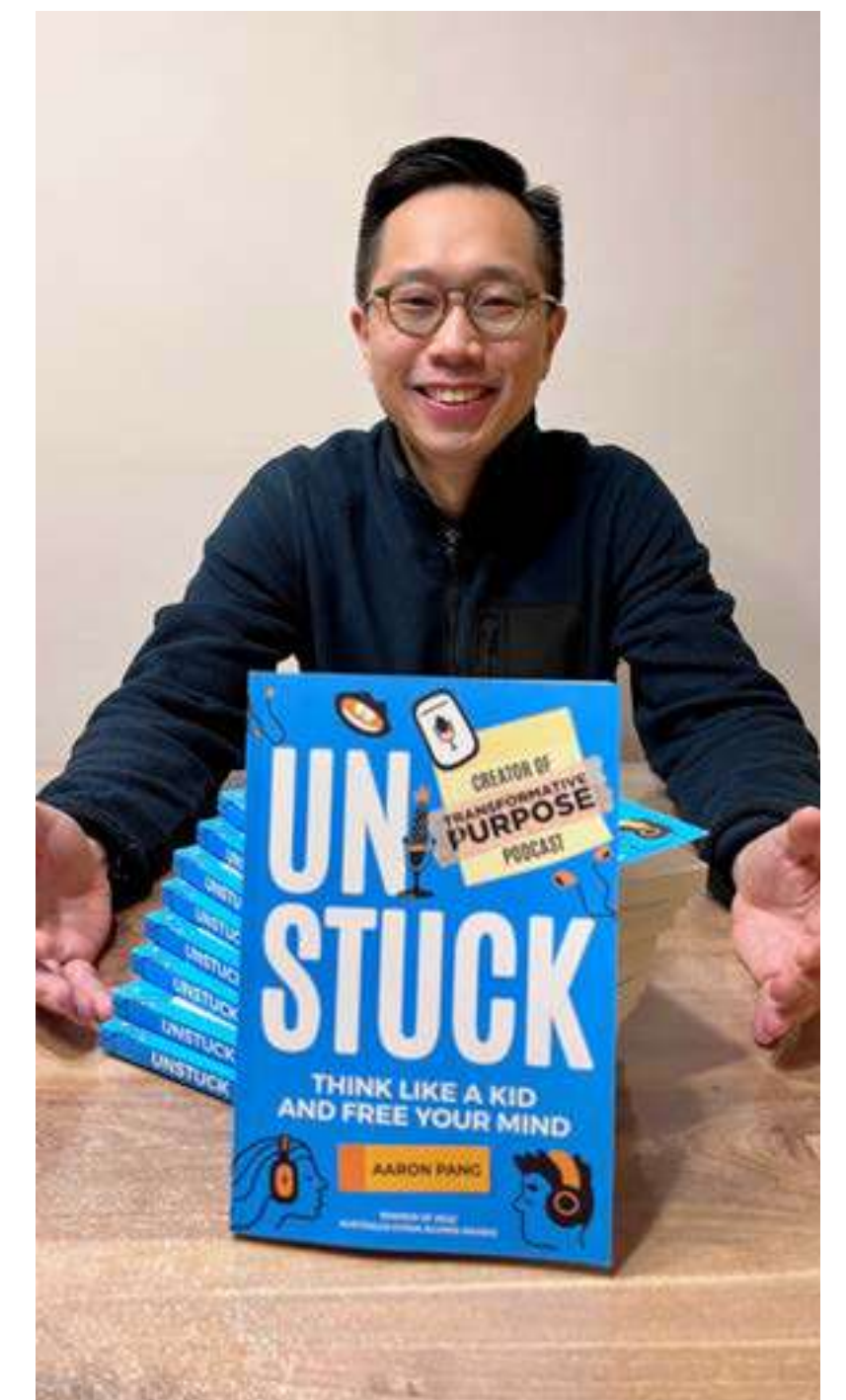
*Tell me, how should you  
protect your data, your most  
valuable asset?”*



**Michael Pang,** Global Cybersecurity Specialist. Management Consultant from Australia to China to Asia. Head of Technology Practices and a Mentor to Young Marco Polos.



*“Do you know  
me,  
Astropreneur?  
I can be your  
mentor.”*



**Aaron Pang,** 3-Time author, podcast host, internetpreneur, keynote speaker, transformation advisor and working parent of two. I help people think differently, to become better. And a former Young Marco Polo.







***III. Breakfast is Served...Please Enjoy  
(25 minutes)***





# ***V. 18C and Special Tech Companies***

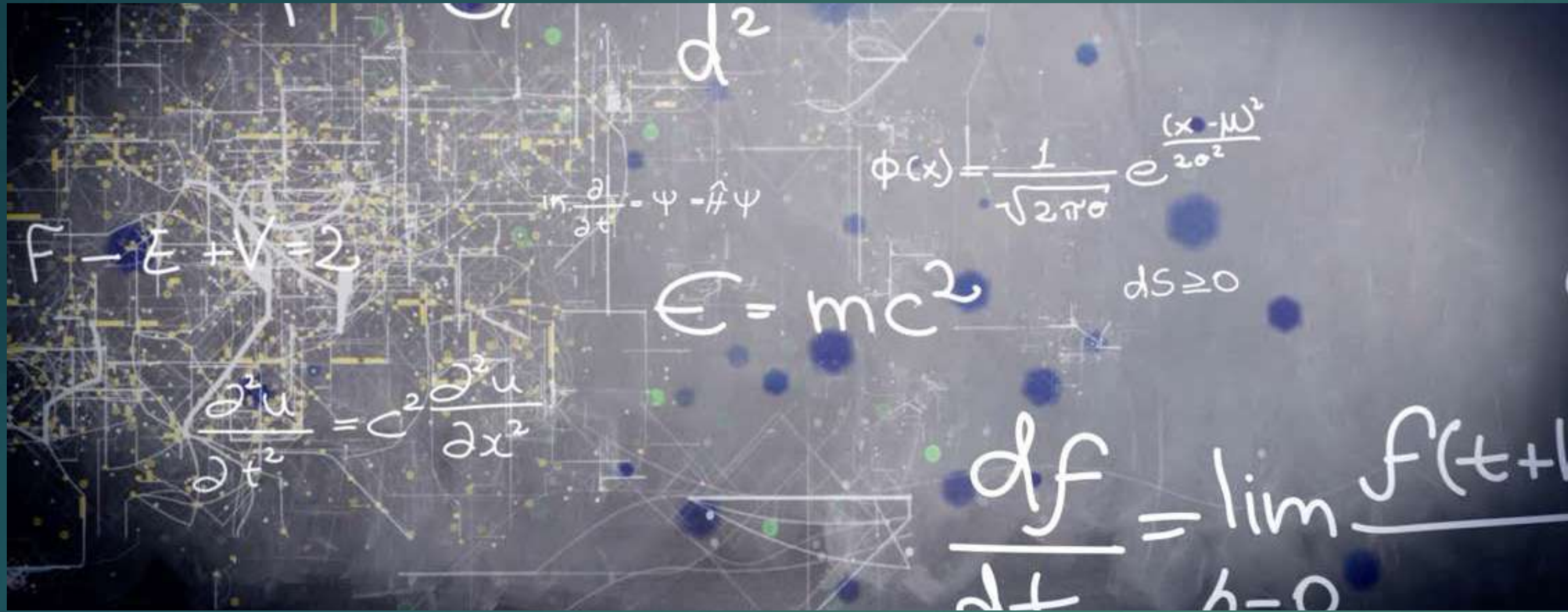




## ***VI. Next Series of Topics***



OASA's FORMULA: PROBLEM → PLAY → PASSION →  
PURPOSE → PROTOTYPE →  
PROJECTS → PROGRAMS → **PLANET**



*"THE FORMULATION OF THE  
PROBLEM IS EVEN MORE  
IMPORTANT THAN THE SOLUTION"*

...EINSTEIN





What's Else?



**ASK ME ANYTHING ABOUT  
ASTROPRENEURSHIP**

**SATELLITE  
INTERNET**

**HOW CAN YOU GET INTERNET USING SATELLITE?**

Date: 27 Oct 2022 18:30 (HKT)  
Venue: Zoom

**Moderator:**

  
**Perry Lam**  
Vice Chairman &  
Co-founder of OASA

**Guest Speakers:**

  
**Paul Ko**  
Director at Tak Shing &  
Group of Companies

  
**Ivan Lee**  
Senior Associate at  
AvantFaire Investment  
Management

Ask Me Anything  
About  
Astropreneurship







# OASA ACTIVITIES IN 2023+



## Have Polo: Will Travel Young Marco Polo Program



01

- Young Marco Polo Program with more corporates?
- CubeSats for "All" secondary and grade schools?

02

- OASA's Silver Global Mentoring Certification Program?
- GBA Tours?

03

- Summer Space Camp in Nanjing?
- Mars Rover?
- Space Scouts?





# Upcoming Topics

Your Preference and Ranking

- ❖ **Space Fashion. April. Linda Lam on Jade?**
- ❖ **Smart Living, powered by Space Tech. Rosana Wong, Executive Director of Yau Lee?**
- ❖ **Space Talent and Career. May.**
- ❖ **Space Insurance. June. Ben Chang.**





## ***VII. Conclusion for Today***





## **CONCLUDING REMARKS:**

### **ARE YOU READY TO PLAY IN THE NEWSPACE ECONOMY?**

- ❖ **The NewSpace Economy has arrived. And so has 18C.**
- ❖ **Do you want to invest your time, \$\$\$, and energy in an earth-bounded business or one that has less limits?**
- ❖ **STE(A)M for adults, learning to relearn, and investing our most precious resource...time.**
- ❖ **Next Event.**
  - **Space Fashion/Smart Living Powered by Space Tech.**



***It takes 10 years to grow a tree;  
a hundred to grow a leader.***

Chinese Proverb

***But, the best time to plant a tree  
was 10 years ago.  
The next best time is now.***





# In Search of Global Mentors and Open Minded Youths



Help us spread the word

We welcome your friends to become a part of the new and exciting OASA community.

Join us by registering as an OASA Friend.

