

“O IMPACTO DA ERA DO CONHECIMENTO NA FORMAÇÃO DOS ECOSSISTEMAS DE INOVAÇÃO”

CONBAP - Curitiba

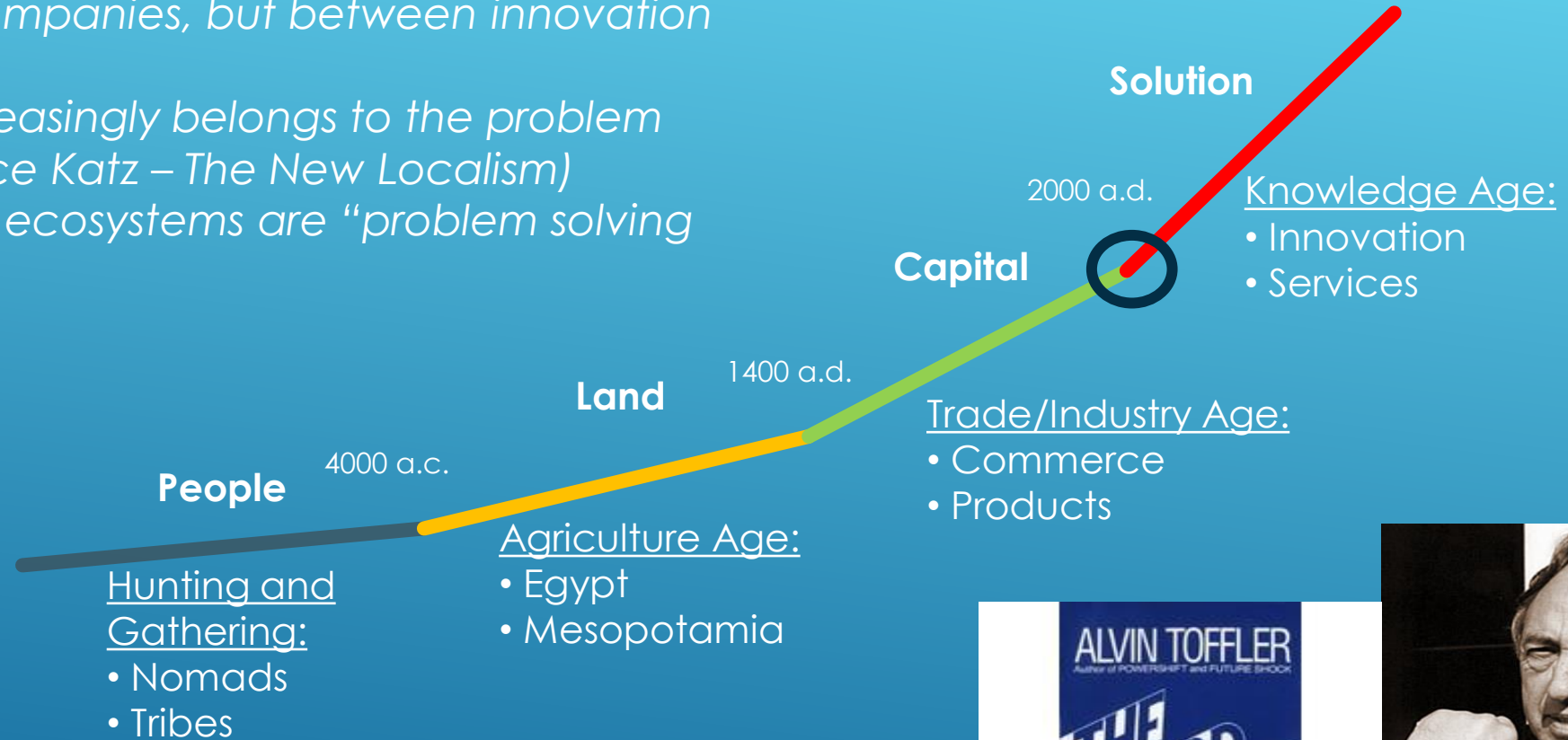
02 de Outubro de 2018

Prof. Dr. Tsen Chung Kang

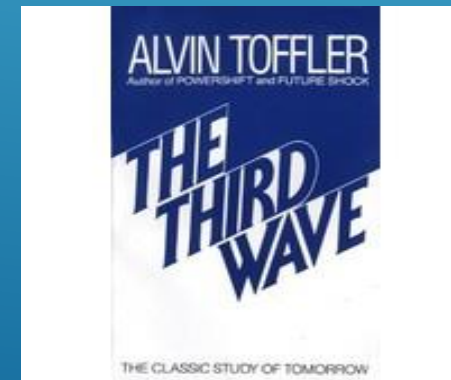
Fatec Shunji Nishimura de Pompéia

Historical context of the Knowledge Age:

- In the Knowledge Age, competition will not be between companies, but between innovation ecosystems.
- Power increasingly belongs to the problem solvers. (Bruce Katz – *The New Localism*)
- Innovation ecosystems are “problem solving machines”.



- In the knowledge age, **universities and high-schools** become the **raw material** of economic development, as **coal mines** were the raw material of the industrial age!! (Dr. Guriqbal Singh Jaiya)



WHAT IS AN INNOVATION ECOSYSTEM?

- ▶ Innovation ecosystems are “problem solving machines”.
- ▶ Successful **innovation systems** are typically characterised by an active knowledge economy, comprising academic, public sector and business R&D and innovation activities with effective commercialisation and all supported by flexible public policy mechanisms. Additionally, successful **innovation ecosystems** also need a **culture of innovation** based on interaction, and openness to international opportunities and change.
- ▶ An effective innovation ecosystem therefore enables **entrepreneurs, companies, universities, research organisations, investors and government agencies** to interact effectively to maximise the economic impact and potential of their research and innovation.

Ranking of the top 20 Innovation Ecosystems

	Ranking		Performance	Funding	Market Reach	Talent	Startup Experience	Growth Index
Silicon Valley	1	0	1	1	1	2	1	4.2
New York City	2	0	3	2	3	7	4	4.5
London	3	▲ 3	4	4	2	10	5	4.8
Beijing	4	NEW	2	5	19	8	2	4.4
Boston	5	▼ 1	6	6	12	4	3	4.0
Tel Aviv	6	▼ 1	9	8	4	11	7	4.5
Berlin	7	▲ 2	7	9	6	5	10	4.6
Shanghai	8	NEW	8	3	10	9	13	5.5
Los Angeles	9	▼ 6	5	7	15	14	11	4.2
Seattle	10	▼ 2	12	13	14	3	6	4.5
Paris	11	0	14	14	9	16	8	4.2
Singapore	12	▼ 2	16	16	11	1	20	4.6
Austin	13	0	15	11	18	6	9	4.3
Stockholm	14	NEW	17	20	8	18	12	5.3
Vancouver	15	▲ 3	19	19	7	15	15	4.3
Toronto	16	▲ 1	18	12	5	20	18	4.7
Sydney	17	▼ 1	20	10	13	12	17	6.3
Chicago	18	▼ 11	13	15	20	13	14	3.9
Amsterdam	19	0	10	17	17	19	16	4.8
Bangalore	20	▼ 5	11	18	16	17	19	4.7

- ▶ First wave: Foundations of internet (AOL)
- ▶ Second wave: Business entirely on internet like search, e-mail, social media and videos (Google, Facebook, Youtube)
- ▶ Third wave: Internet technologies into the Real World, to specific industry verticals, like retail, transportation, manufacturing, health care, agriculture and many more (Amazon, Uber, AirBNB)
- ▶ These verticals are organized into Innovation ecosystems

THIRD WAVE OF THE INTERNET

- ▶ #1 Adv. Manufacturing & Robotics (189% 5-year increase in early stage funding deals)
- ▶ #2 Agtech & New Food (171% 5-year increase)
- ▶ #3 Blockchain (163% 5-year increase)
- ▶ #4 Artificial Intelligence, Big Data & Analytics (77.5% 5-year increase)
- ▶ Sub-Sectors from the third internet wave

TOP 4 GROWING SUB-SECTORS

- ▶ #1 Adtech (35% 5-year decline in early stage funding deals)
- ▶ #2 Gaming (27% 5-year decline in early stage funding deals)
- ▶ #3 Digital Media (27% 5-year decline in early stage funding deals)
- ▶ Sub-Sectors from the second internet wave

TOP 3 DECLINING SUB-SECTORS

Advanced Manufacturing & Robotics Ecosystems to watch

The map shows the most important global advanced manufacturing & robotics ecosystems. It includes the top high performance ecosystems according to VC investment as well as ecosystems that have a special focus on advanced manufacturing & robotics. Click on the ecosystem name to find out more about the local scene.

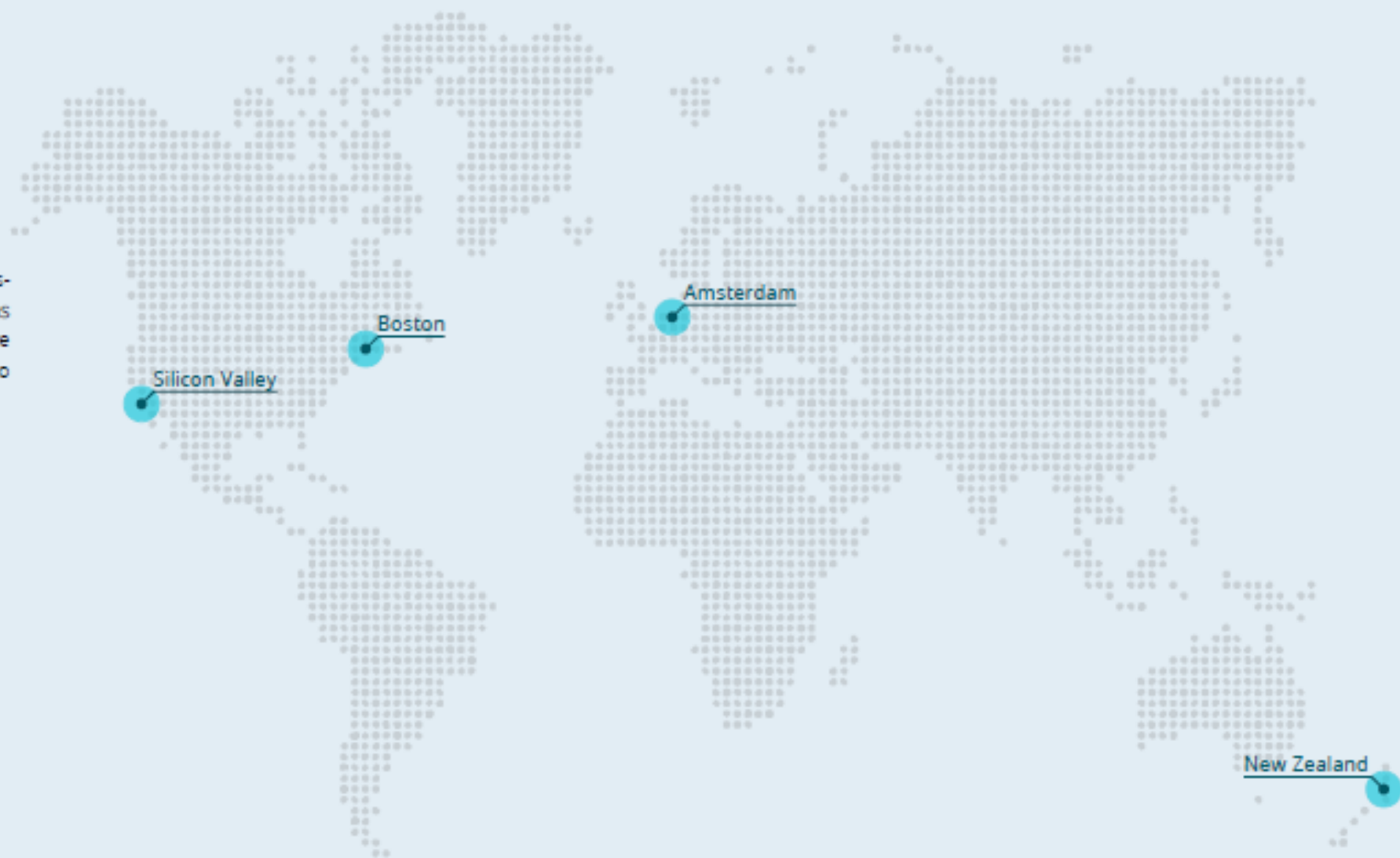
● Click ecosystem to read their deep dive



Agtech & New Food Ecosystems to Watch

The map shows the most important global Agtech ecosystems. It includes the top high performance ecosystems according to VC investment as well as ecosystems that have a special focus on Agtech. Click on the ecosystem name to find out more about the local scene.

● Click ecosystem to read their deep dive



Blockchain Ecosystems to Watch

The map shows the most important global Blockchain ecosystems. It includes the top high performance ecosystems according to VC investment as well as ecosystems that have a special focus on Blockchain. Click on the ecosystem name to find out more about the local scene.

● Click ecosystem to read their deep dive



Artificial Intelligence Ecosystems to watch

The map shows the most important global artificial intelligence ecosystems. It includes the top high performance ecosystems according to VC investment as well as ecosystems that have a special focus on artificial intelligence. Click on the ecosystem name to find out more about the local scene.

● Click ecosystem to read their deep dive



Agtech & New Food Ecosystems to Watch

The map shows the most important global Agtech ecosystems. It includes the top high performance ecosystems according to VC investment as well as ecosystems that have a special focus on Agtech. Click on the ecosystem name to find out more about the local scene.

● Click ecosystem to read their deep dive



Nosso desafio!!

OBRIGADO!!

tсен@jacto.com.br

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom-left towards the top-right, located in the right half of the image.



Global Startup Ecosystem Report 2018

Succeeding in the New Era of Technology

crunchbase



TECH
CITY