

2015 Global Commercialization Conference for Innovative Development

Institute for Information and Communication Technology Promotion

OPPORTUNITY ON TECHNOLOGY COMMERCIALIZATION AND COLLABORATION BETWEEN KOREA AND INDONESIA

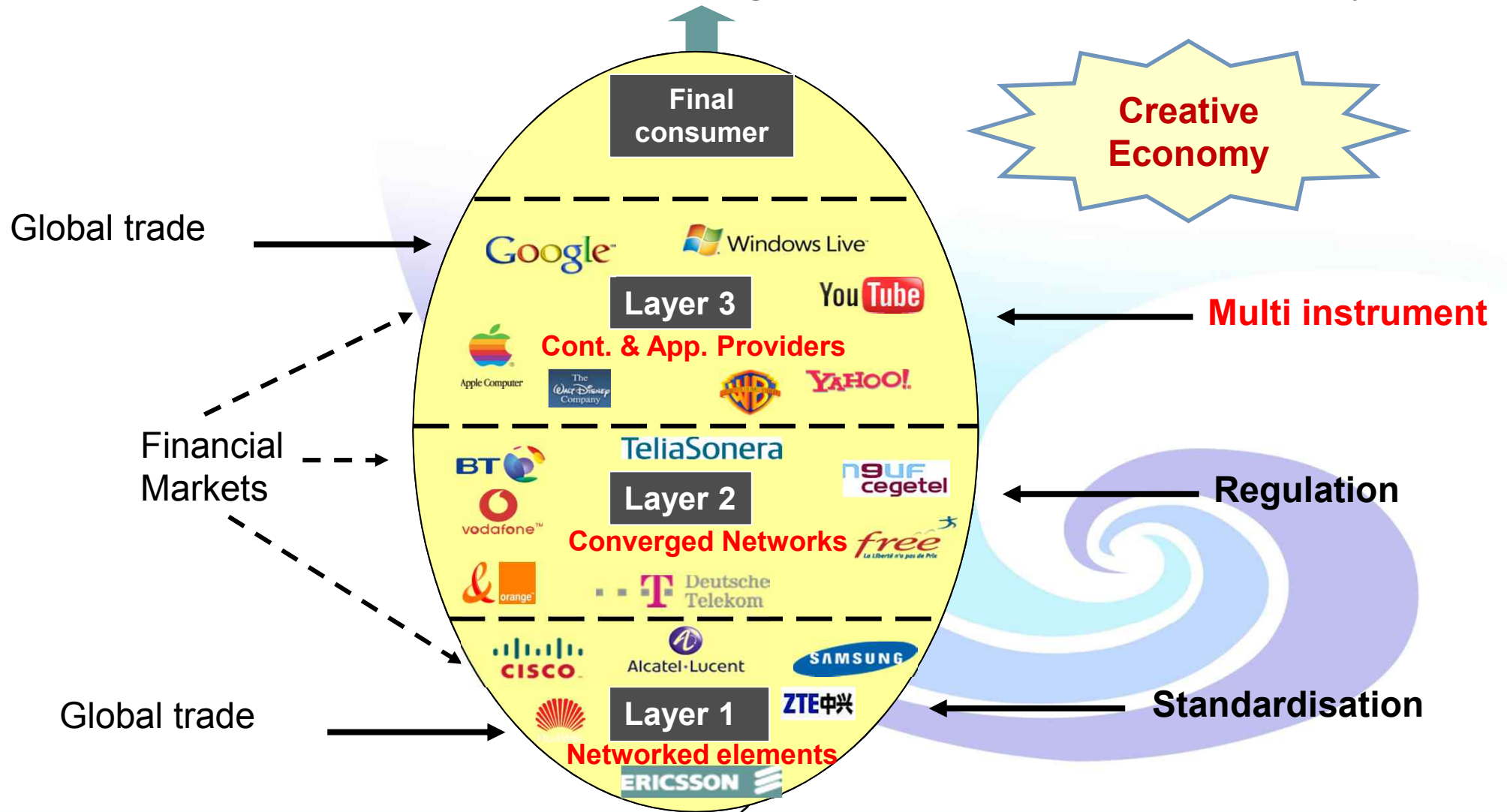
Boni Pudjianto, PhD.

Director for International Marketing
Indonesia Agency for Creative Economy

Daejeon, 23 October 2015

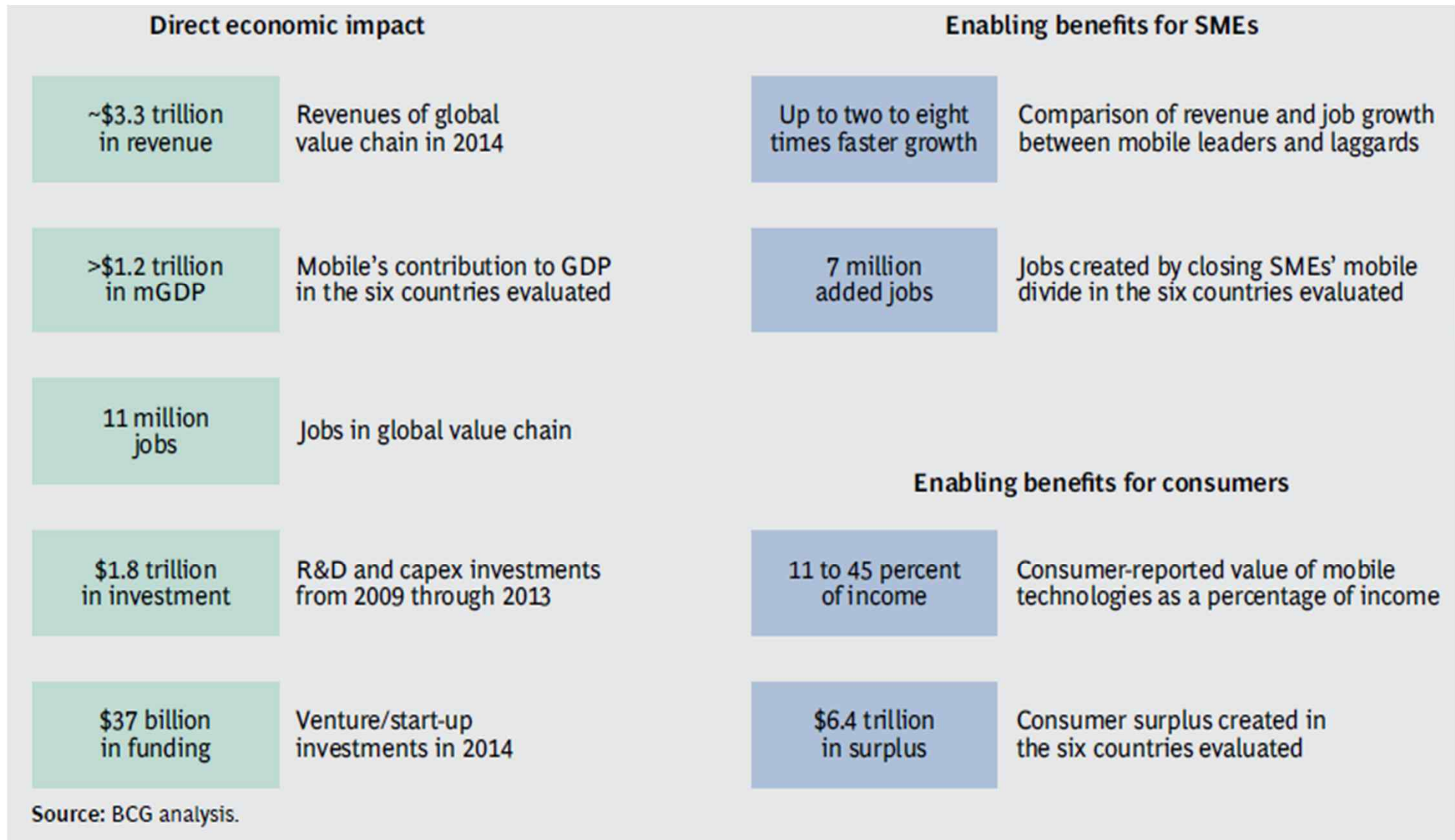
Ecosystem Layer Model

Output of innovative goods and services (from all three layers)



Source: Martin Fransman, *The New ICT Ecosystem: Implications for Policy and Regulation*, 2010

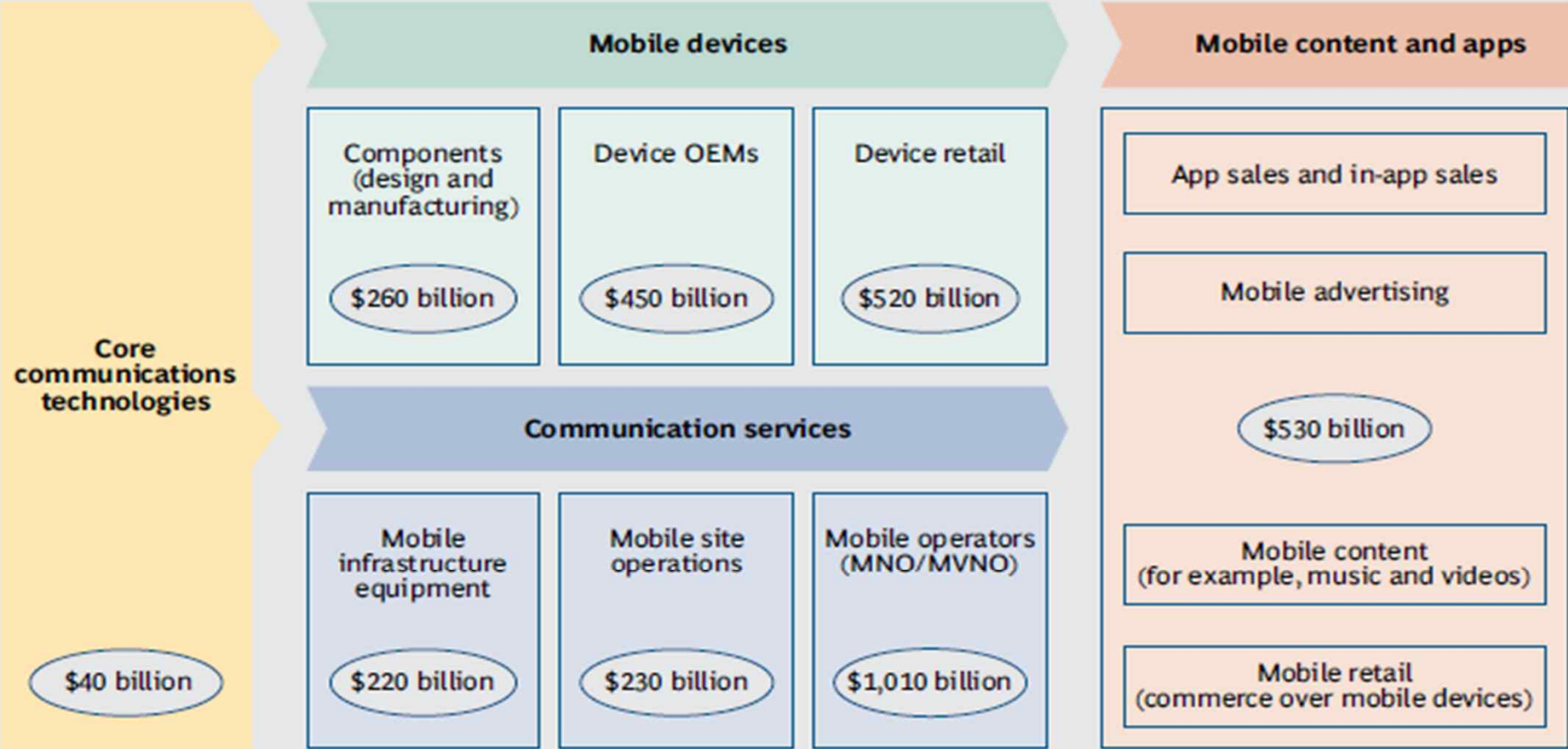
IT and Telecommunication as Growth Engine



Source: BCG analysis.

IT and Telecommunication Technology Revenue in 2014

Global aggregated revenues of mobile value chain in 2014

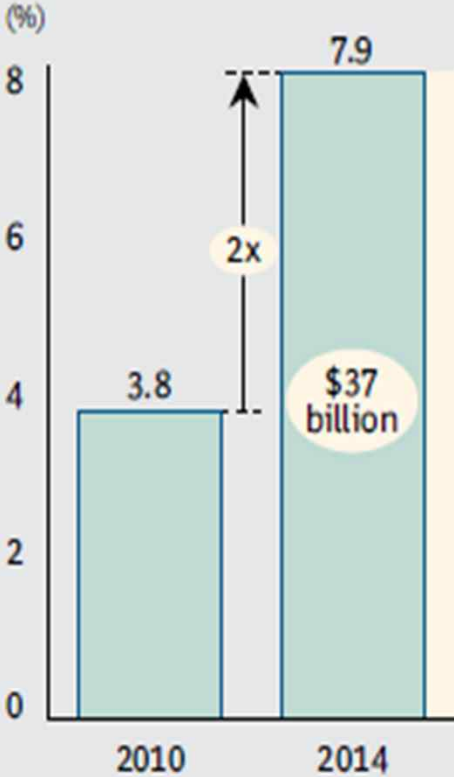


○ \$billions of revenue in each segment

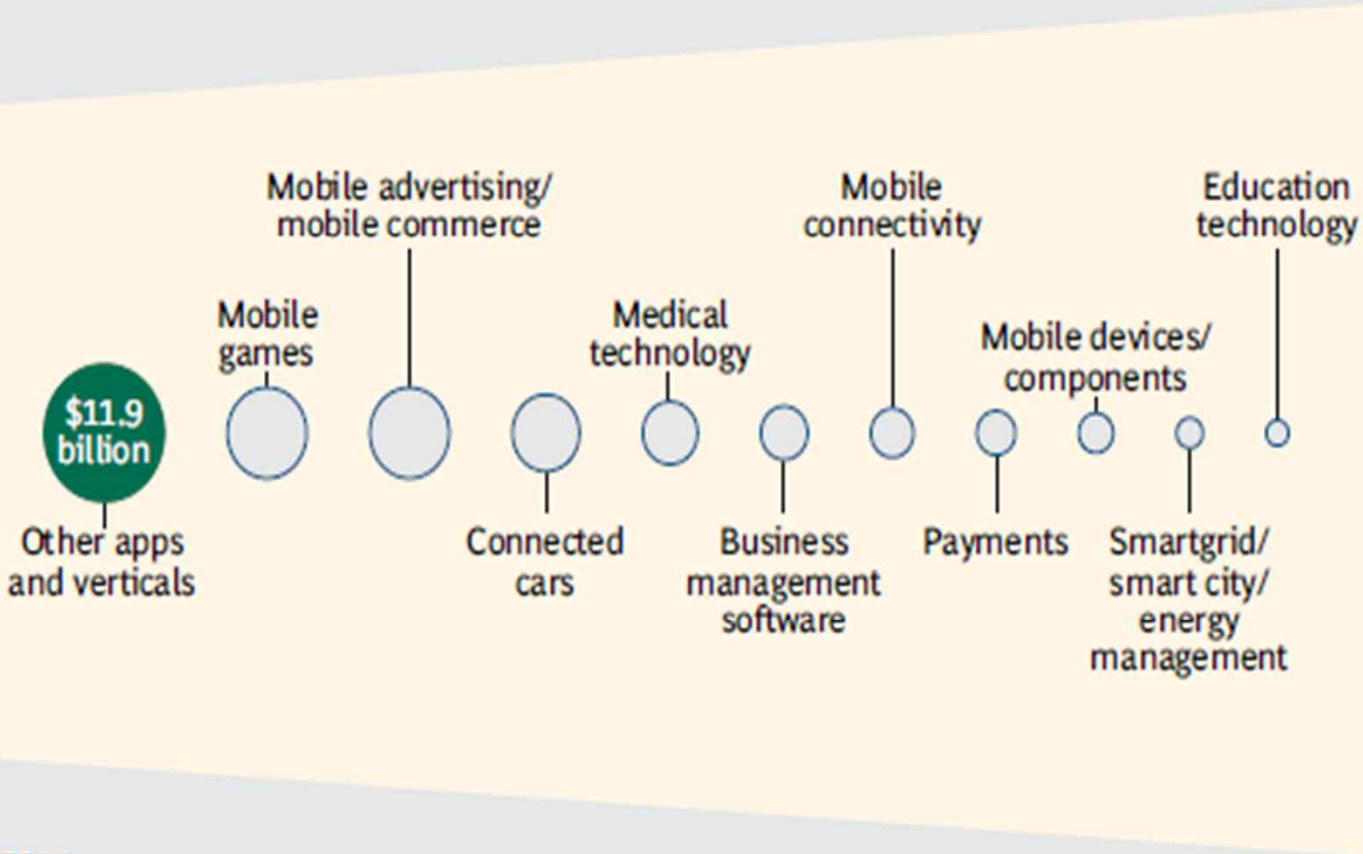
Source: BCG analysis.

Venture Capital Investment in ICT and Telco Technology

Mobile as a percentage of total VC investments



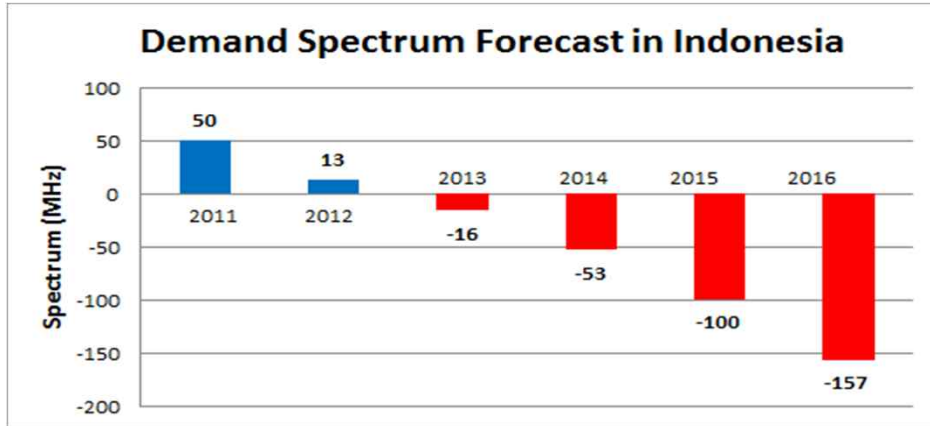
Diverse set of mobile VC investments in 2014



○ \$5 billion in investments in 2014

Sources: Quid private-investment database; Capital IQ; BCG analysis.

The spectrum scarcity



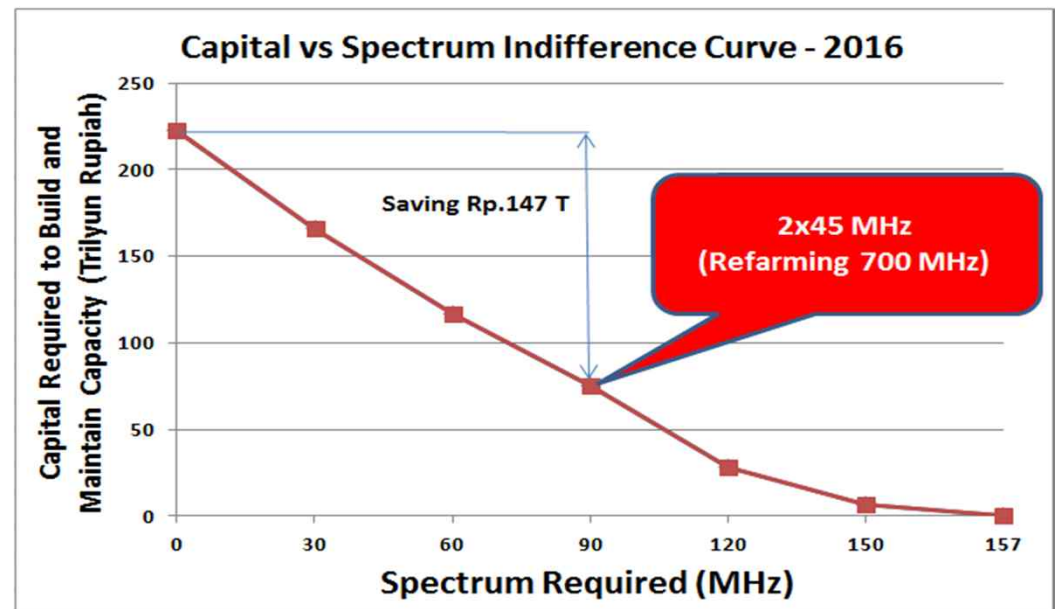
Source : Author

Traffic-related problems continue to increase. The greater frequency spectrum which can be allocated to mobile broadband will save more costs on Capex and Opex.

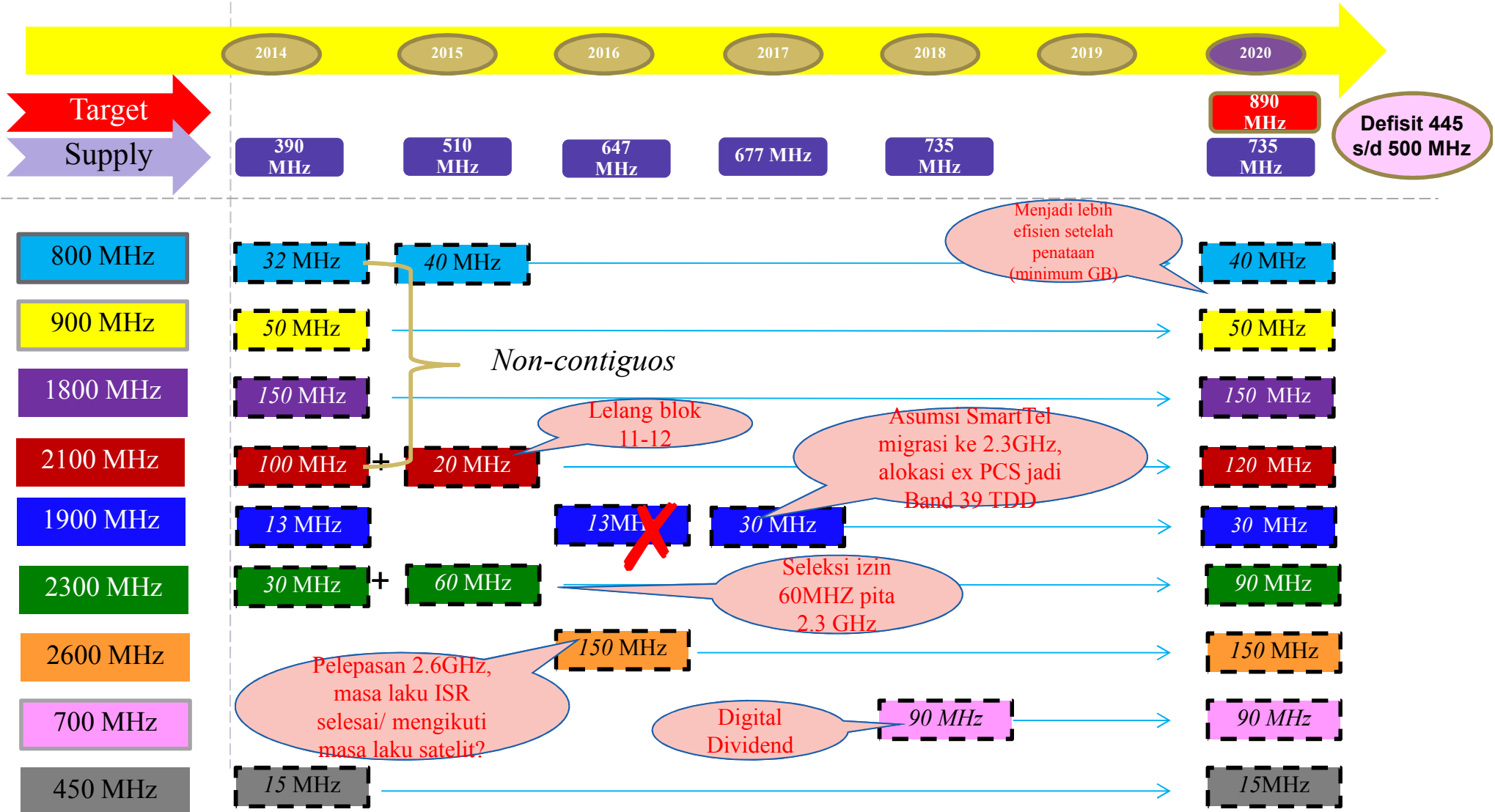
Source : Setiawan, D (2013)

To overcome the "spectrum crisis" caused by mobile broadband traffic, there are three solutions:

- add bandwidth spectrum
- improve spectrum efficiency by upgrading technology
- increase the number of tower



ROADMAP FOR SPECTRUM REFORMING IN INDONESIA



DIGITAL DIVIDEND 700 MHz

ERA TV ANALOG

478 ← ----- 328 MHz ----- → 806 MHz

TV Analog

Fix receiver-*Free To Air* (FTA)

PROSES DIGITALISASI PENYIARAN

ERA TV DIGITAL

*Future
DTV*

TV Digital Terrestrial

Fix receiver-*Free To Air* (FTA)

**DIGITAL
DIVIDEND**

478 526 ← ----- 192 MHz ----- → 694 806 MHz

192 MHz

112 MHz

- LTE 700 MHz is very useful for the acceleration of Broadband in Rural Areas, especially in the Corridor of MP3EI along with the existing BTS
- It can be implemented after the digital switchover at the end of 2017

E-Fisheries Program



Focus of Current and Future Cooperation

On going program :

1. Government Data Center
2. Root CA
3. Cyber security
4. Internet safety : Black list and White list

Opportunity for future collaboration :

1. Creative economy – MSIP and Kocca
2. Cyber army
3. Others

Program Indigo (Indonesia Digital Community)

Pengembangan meliputi aspek **People, Planet dan StakeHolder Participation**

Sejak 2013, **lebih dari 1500 startup** Indonesia telah berpartisipasi
Berikut startup terpilih dalam program Inkubasi dan Akselerasi Batch 1-2015:

Inkubasi

Akselerasi

1 People

Pengembangan Digitalpreneur (Startup) melalui Program Indigo

2 Planet

Penyediaan 21 fasilitas kreatif di 12 kota Indonesia

3 Participation

Kolaborasi Quad Helix untuk pengembangan Digitalpreneur

Academic +
Research
institute

Business

Community

Governme
nt

Creative Industry Ecosystem Development

People

Lebih dari 1500 Startup berpartisipasi dan ribuan Talent bergabung dalam Komunitas Indigo serta beberapa startup telah siap masuk ke market

1546 Startup Berpartisipasi sejak 2013,
46 Startup mengikuti program Inkubasi Indigo

Jumlah Startup yang diinkubasi:

- Thn. 2013: 439 proposal dan terseleksi 14 Startup
- Thn. 2014: 398 proposal dan terseleksi 17 Startup
- Thn. 2015: 709 proposal dan terseleksi 15 Startup

Member Komunitas

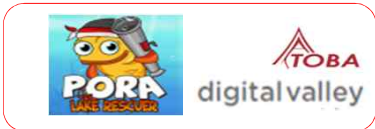


1634 2669 3695 1179

Penghargaan untuk Startup Indigo

INAICTA 2014 Winner & Special Mention

Juara Hackaton Merdeka 2015



INAICTA 2015 Nominator



Startup Program Indigo

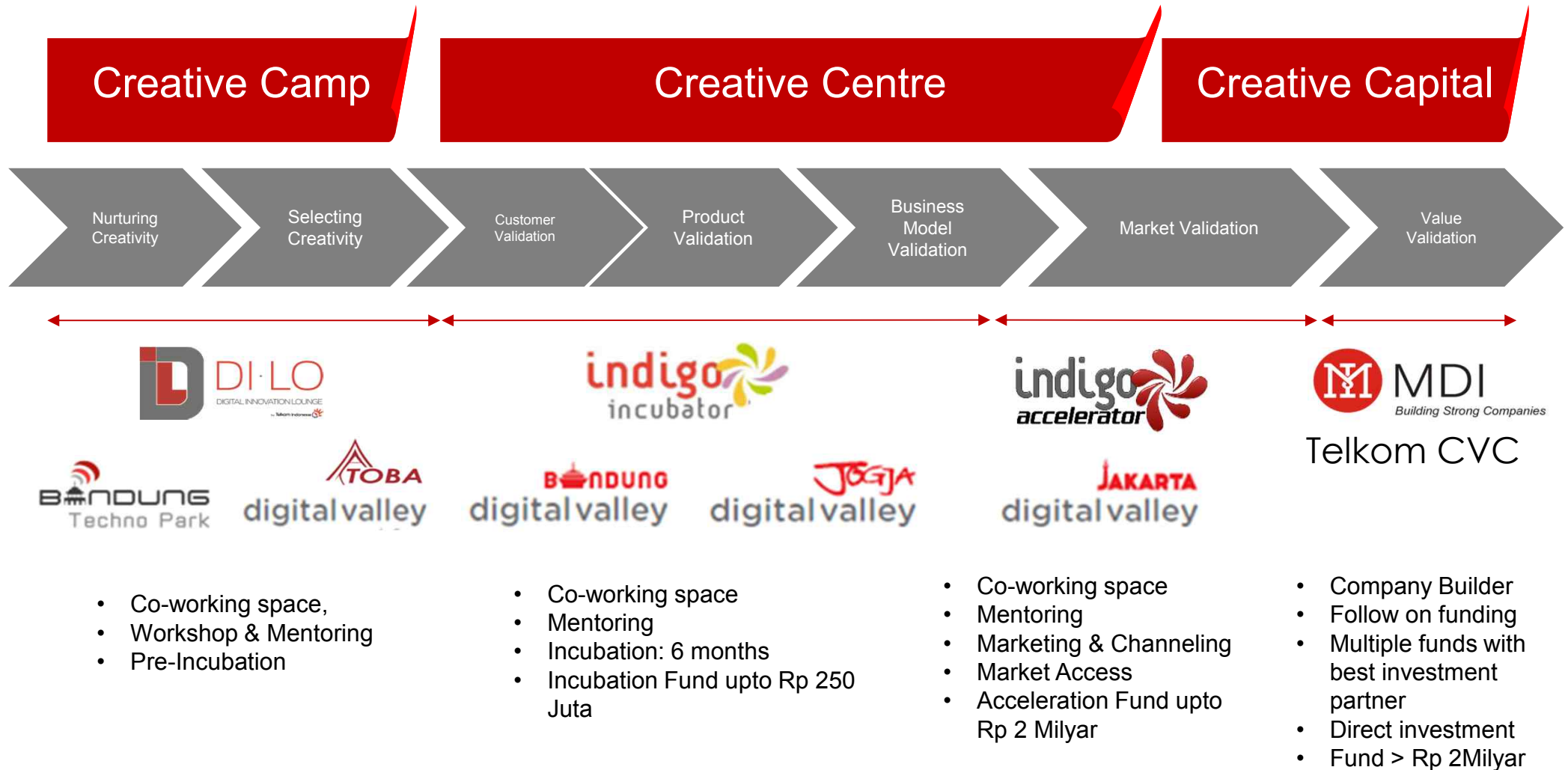


Startup Indigo yang masuk ke market

	Implementasi 11.000 toko online UKM di Jarvis Store		Cloud ERP untuk 6 manufaktur menengah		Aplikasi Kuliner Top 10 Kuliner di 16Kota
	Implementasi Panic Button untuk Bandung dan Pre-secure Yourself		Implementasi Augmented Reality Museum Kebangkitan Nasional dan menyusul 2 museum lainnya.		
	Aplikasi Kakatu pre-installed di 1 juta Samsung Galaxy Tab 3V				

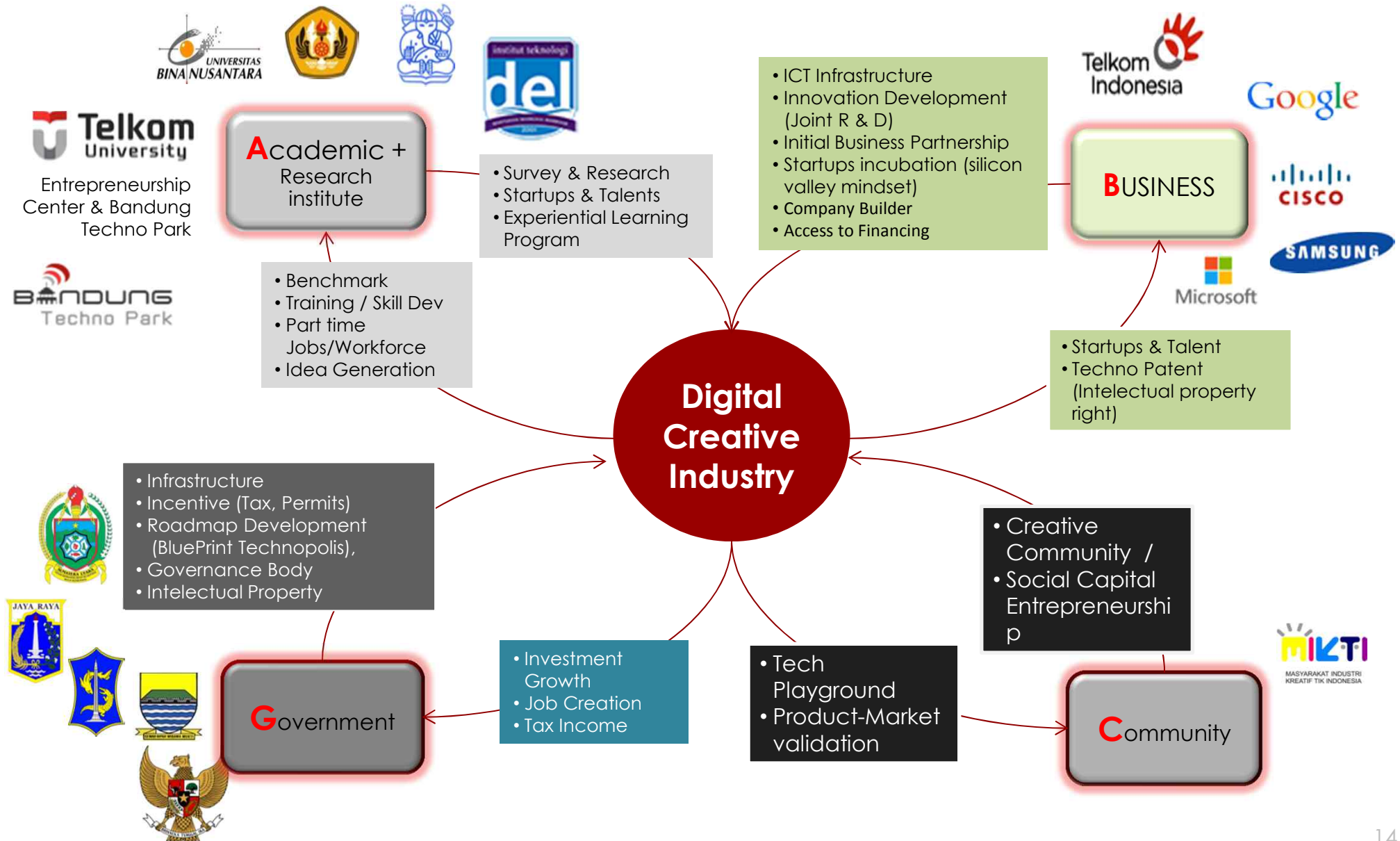
Planet : From Creativity to Commerce

Program Indigo, from digital creative to digital commerce, semenjak penyiapan talent sampai dengan venturing merupakan program menyeluruh dalam pengembangan Digitalpreneur



Participation

Quad Helix – Program Indigo melibatkan para stakeholder terkait meliputi Akademik, Bisnis, Komunitas dan Government (Pemerintah)





Thank you