

## Developing Internet Service in Indonesia : Opportunities and Challenges

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- Indonesia ICT market
- Current Infrastructure
- Opportunities and Key Challenges
- Strategic Development





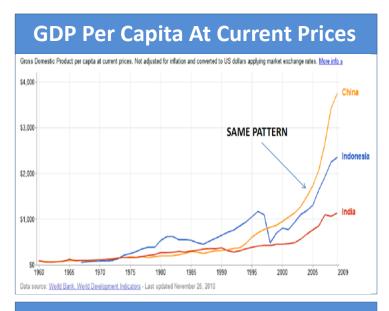
## **Indonesia ICT Market**



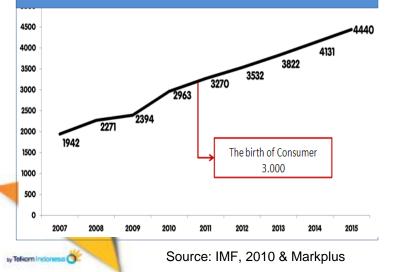
## **General Environment : Economy**



Indonesia reach \$ 3000 GDP



**GDP Per Capita Indonesia** 



Estimated, Indonesia will reach per capita GDP \$3.000 in 2011

Reaching the \$3,000 per capita GDP level, South Korea experienced surging economic growth for 11 years after achieving that level.

The birth of Consumer \$3.000

#### **Characteristics of Customer \$3000**

- More Consumption
- More Modern/Global Minded
- More Educated/Knowledgeable/Civilized
- More Value-Oriented
- 👂 More Mobile
- More Technology Savvy
- More Environmentally-Concern

## **Indonesia Broadband Subscriber Outlook**





- Indonesia has already shown a strong inclination towards smart phone use, with close to 3 M BlackBerry handset users in the market
- 2<sup>nd</sup> largest "facebook" after the USA and "Twitter" world's highest penetration rate at 20.8% -the demand is huge,



Source : Frost & Sullivar

## Indonesia Internet User Growth

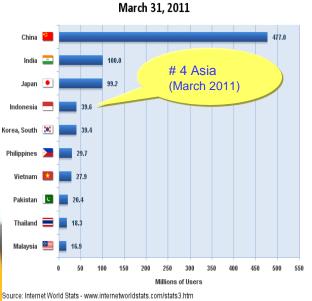


#### Indonesia Internet users growing very fast but mostly accessing US content

#### Indonesia Internet Users : #4 in Asia

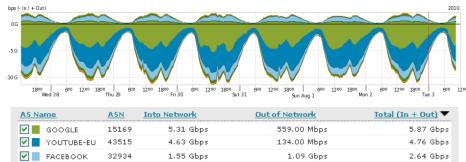
Source : internetworldstats.com

Country	Population	Internet Users (Year 2000)	Internet Users (March 2011)	Penetration (% Population)	User Growth (2000-2011)
China	1,336,718,015	22,500,000	477,000,000	35.7	2,020.0 %
India	1,189,172,906	5,000,000	100,000,000	8.4	1,900.0 %
Japan	126,475,664	47,080,000	99,182,000	78.4	110 7 %
Indonesia	245,613,043	2,000,000	39,600,000	16.1%	1,880%
South Korea	48,754,657	19,040,000	39,440,000	80.9	107.1 %



**Asia Top Internet Countries** 

Mostly still accessing US Content: Google, Youtube, Facebook, Yahoo...



YOUTUBE-EU	J 43515	4.63 Gbps	134.00 Mbps	4.76 Gbps
FACEBOOK	32934	1.55 Gbps	1.09 Gbps	2.64 Gbps
VAH00-1	10310	503.00 Mbps	284.00 Mbps	787.00 Mbps
VAHOO-SG	10230	242.00 Mbps	130.00 Mbps	372.00 Mbps
YAHOO-SP1	36752	139.00 Mbps	66.00 Mbps	205.00 Mbps

Source: Internet World Stats - www.internetworldstats.com/stats 2,095,006,005 Internet users in the World estimated for 2011Q1 Copyright © 2011, Miniwatts Marketing Group

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## **Social Media and Internet**

#### Devices

#### Social-Media Source : Indonesia Finance Today

#### Face book

- World Face book Users: 645.252.340
- Indonesia Face book Users: 35.174.940
- Penetration of population: 14.48%
- Penetration of online population: 117.25%

#### <u>Twitter</u>

- Word Twitter Users : 200 Million
- Indonesia Twitter Users : 7.6 Million

#### <u>Blackberry</u>

- Word BlackBerry Users : 70 Million
- Indonesia BlackBerry Users : Telkom 2.5 Mio, Indosat 1.5 Mio and XI 1.4 Mio



## Internet-Devices

#### Smart Phone

- Smartphone : 167 Million
- Penetration : 16.7%



#### <u>Computer</u>

- Computer : 15 Million PC : 32.55%
  - Laptop : 67.45%
- Penetration : 5%



- (IDC NMMM 2009) Indonesia has 25,4 million internet users. Penetration of Mobile Internet in Indonesia is increasing, 63% in 2009, 69,3% in 2010 and expected to reach 73,2% in 2011.
- (Yahoo & TNV June 2010) This raise is achieved 26% by mobile internet access, rise from 22% (2009) to 48% (2010). It is driven by the number of content provider in mobile services.
- (MarkPlus 2010) 8 of 10 people use mobile internet. In average, each user uses 1-2 gadgets for internet access.
- Medium low users tend to use hand phone for internet access. While the rest use 2 gadgets for internet access; hand phone and laptop.

### **Indonesia Internet Users**

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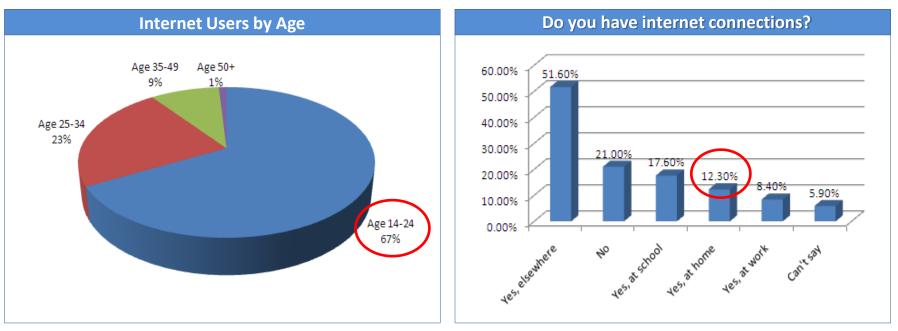


#### The Digital Habits of Young BRICI users

	China	India	Brazil	Russia	Indonesia
Background	<ul> <li>◇ 14 years old</li> <li>◇ Junior high school student in Guilin</li> <li>◇ Only child; lives with his parents</li> </ul>	<ul> <li>18-year-old student in Lucknow</li> <li>Lives with his parents and elder sister</li> </ul>	<ul> <li>17-year-old student in São Paulo</li> <li>Lives with his parents</li> <li>Likes to play <i>futsal</i> (indoor soccer)</li> </ul>	<ul> <li>18-year-old economics student in Moscow</li> <li>Single</li> <li>Lives with her parents in an apartment</li> </ul>	<ul> <li>♦ 18 years old</li> <li>♦ High school student living in Jakarta with his parents</li> <li>♦ Spends one hour per day online</li> </ul>
Digital spending	<ul> <li>~\$30 monthly in pocket money</li> <li>~30% spent on digital services</li> </ul>	<ul> <li> ~\$500 household income</li> <li> ~10% spent on digital services</li> </ul>	<ul> <li>~\$250 monthly in pocket money</li> <li>~50% spent on digital services</li> </ul>		<ul> <li>~\$50 monthly in pocket money</li> <li>~10% spent on digital services</li> </ul>
Attitudes toward digital devices and services Source: BCG researc	<ul> <li>Looking for fun and new friends, with usage focused on instant messaging, games, and social networking sites</li> </ul>	<ul> <li>"My PC is like an elder brother to me: it guides me and helps me out all the time."</li> </ul>	◇ "When I am alone, I usually go online. The Internet is part of my life."	"Friends are very important—and the Internet gives me an opportunity to be connected with them."	<ul> <li>"Without a mobile phone, I would feel like I was back in primitive times—I would feel so out of touch."</li> </ul>
					N

### **Indonesia Internet Users**





- Net citizen in Indonesia is dominated by "Teen & Youth" (14<sup>th</sup>-24<sup>th</sup>) 67% and 25<sup>th</sup>-34<sup>th</sup> 23%, 90% in total.
- Only 12,30% of Teen & Youth has fixed internet line at home
- (Yahoo & TNS 2010), Jakarta has the fastest internet growth in Indonesia.
   Followed by Semarang (11%), Palembang (10%) and Makassar (12%).

Internet penetration in Indonesia is much lower than other countries in Asia with similar economic level. There is a huge business opportunity to increase penetration.

### The market is promising



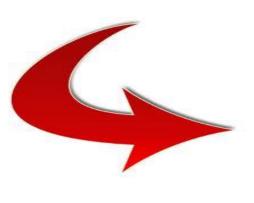
## **Current Infrastructure**



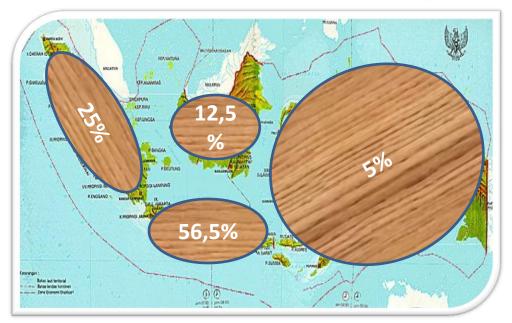
## **Indonesia ICT Profile**



- Archipelago of 17,504 islands. Some of Indonesia's larger islands (Sumatra and Java for example) have large interior mountains.
- Total Area : 1,910,931 km<sup>2</sup>
- 33 provinces :
  - 502 Regencies/Cities
  - 6,633 Sub-Districts
  - 76,155 Villages
- Population : 237,556,363 (2010). The people are spread out in more than 6000 islands.
- 62 M household`



#### **Network Infrastructure and Access Gap**



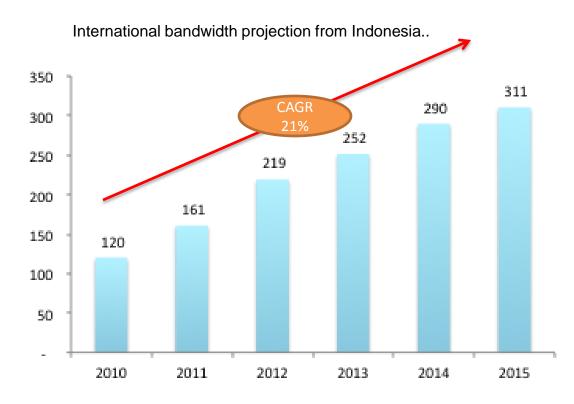
#### **Broadband Services Today :**

- **\*** LIS Broadband : 5,552,457
  - & Wire line : 34%
  - 🖉 Wireless : 66%
- 🕸 🖲 Coverage : Urban / Sub Urban
- Technology : HSPA, EVDO, WIMAX, DSL, MSAN, GPON, HFC`

## **Bandwidth needs**



#### Growth of internet users require higher international bandwidth.....



Bandwidth growth already consider cache efficiency up to 35%..

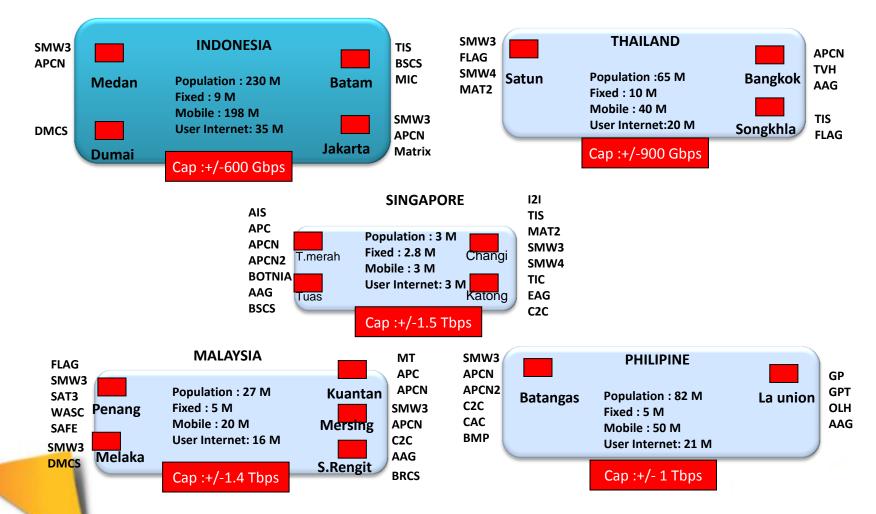
Source Data : AT Kearney & Telin Analysis



## **Infrastructure Development**



Indonesia is lagging on the development of international cable comparing to the neighboring countries....



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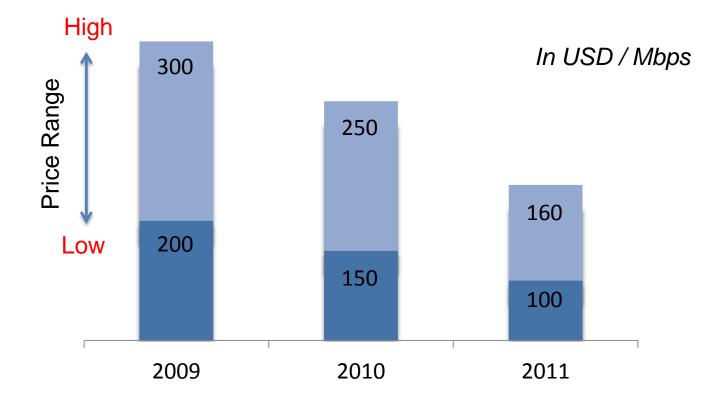


## **Opportunities and Key Challenges**



#### **IP Transit Cost in Jakarta is reducing...**

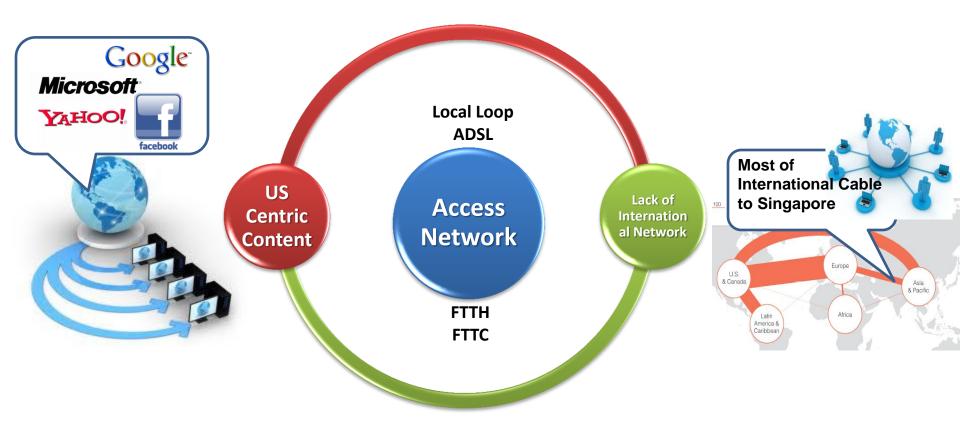






## **Key Issues on the Internet Services in Indonesia**





... it drives higher cost for internet access.....



## **Opportunities & Challenges**

## **Telin**

## **Opportunities**

- GDP of Indonesia of reach \$3000 in 2011
- The growth of broadband in reaches exponential growth
- Internet device become more affordable
- Easily adopted with internet device and services

Telepro Indionesta

 Internet penetration in Indonesia is much lower than other countries in Asia with similar economic level Broadband business in Indonesia

## Challenges

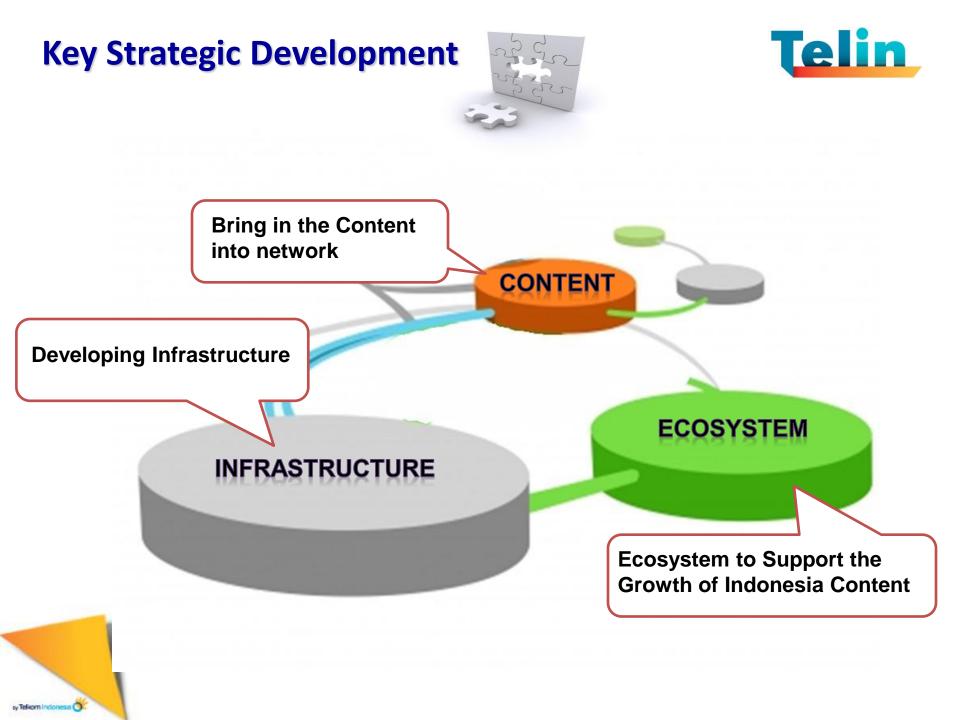
- Indonesia is the world's largest archipelago with 17,054 islands. The people are spread out in more than 6000 islands
- Since last mile still use copper, it limits speed and quality
- Some area rely on satellite services, mostly in centre and east Indonesia
- There has been a gradual decline in bandwidth pricing





## **Strategic Development**

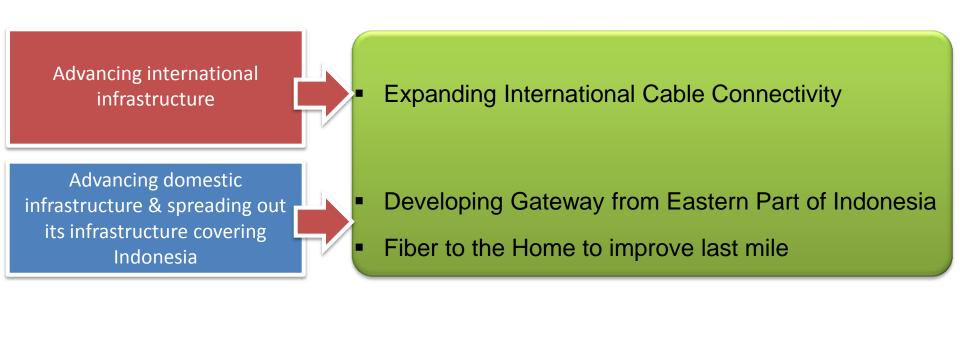




## **Developing Infrastructure**



Availability of Network-Centric IT is Driving the Emergence of a Digital Networked Economy



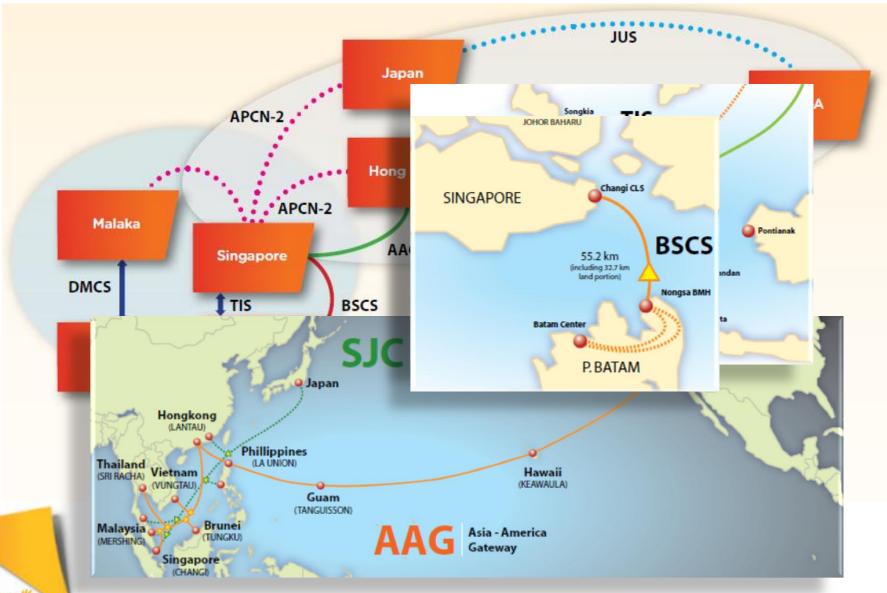


#### Domestic Infrastructure



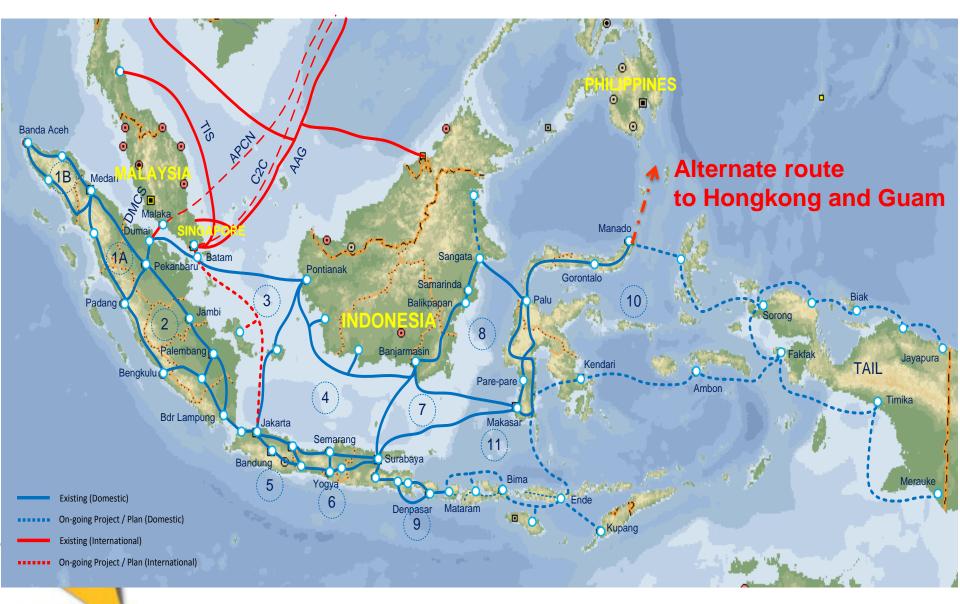


## *Telin is developing fully protected network to support Internet Growth in Indonesia...*



## Developing International Infrastructure to support eastern part of Indonesia is another challenge....

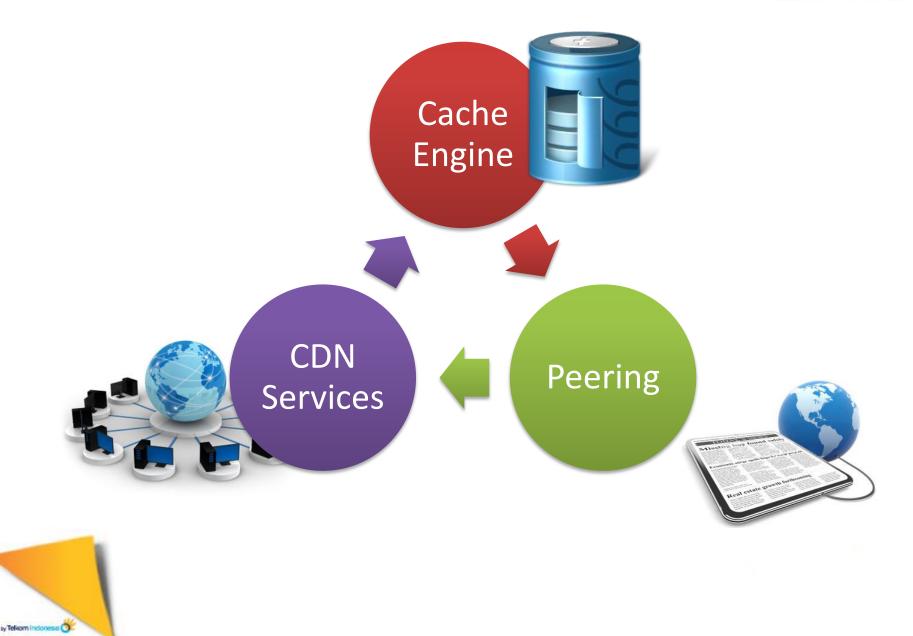




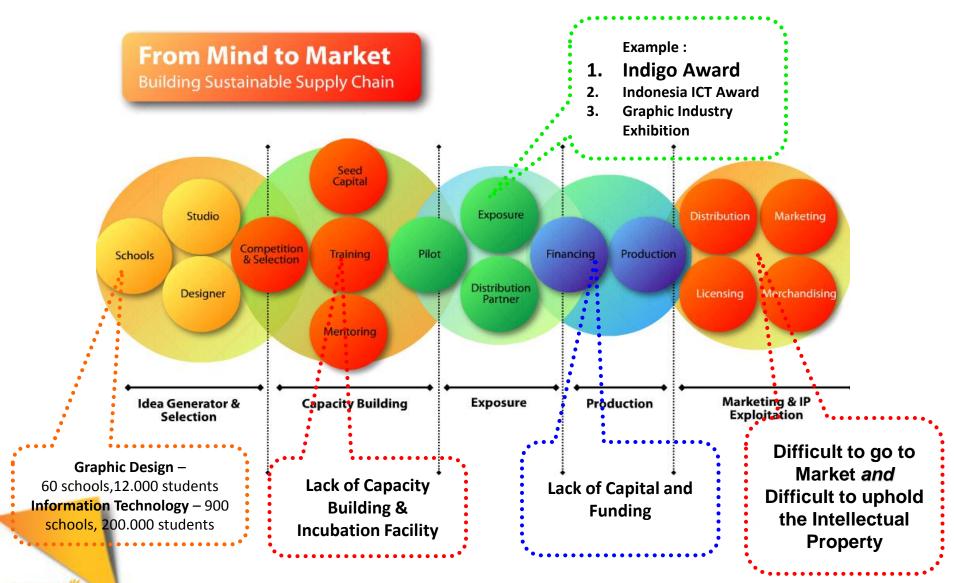
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### **Bring in content Closest to the Network**





### **Ecosystem to Support the growth of Indonesia Content**



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## Спасибо

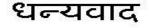
## ありがとうございました Gracias



# Grazie Merci Danke German Thank You 1







Hindi

**Traditional Chinese** 

