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Global New Age....

The Convergence in TMT...

Technology Media Telecom Access Customer Infotainment Anywhere Experience Easy Technology Efficiency Cost Reduction Management Versatile Open Advanced Digitalized Source Network Information Technologies Technologies Expanded Smart Devices **New Regulatory** Competitive Proliferation Framework Boundaries Internet Enabled OTT & IPTV HD TV by Telecom Carriers TMT Service Electronic build Print Media Laptop & turn ISP Smartphone

Dynamics Nature ..

- 4 aspects: technology, competition, consumer behavior, and legal
- High capex, short product cycle, unjustifiable investment
- Wind of change

Technology and Service Convergence..

- Led by robust internet through vaious platform
- A quad play offering (mobile, fixed telephony, internet and Tv)
- Customers only need one bill
- Redesign Business Model (Amazon, Alibaba, Dish..)
- Net Neutrality

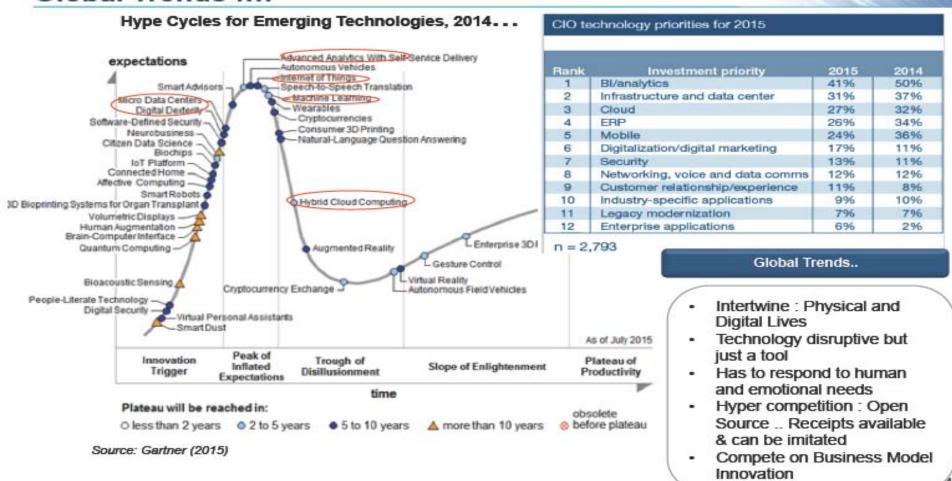
Industry Consolidation..

- Global TMT M&A deals = \$296 bio 2014.
- Technology led, recording 479 deals valued at \$166 billion (56%).
- AT&T and Direc Tv USD 65 bio, Facebook & whatsapp (USD 16 bio), Liberty and Ziggo (USD 11 bio), Charter & Bright House Networks (\$10.4 bio), Telefonica UK &Hutchison Whampoa Limited (\$15.299 billion), Frontier Communications-Verizon (\$10.54 bio)





Global Trends







Top 10 New Technologies..

2012	2013	2014	2015
Big data	Strategic big data	Smart machines	Smart machines
Extreme low-energy servers	Integrated ecosystems	Web-scale IT	Web-scale IT
Next generation analytics	Actionable analytics	3D printing	3D printing
App stores and marketplaces	Enterprise app stores	Software-defined anything	Software-defined applications/infrastructure
loT	IoT	IoT	IoT
In-memory computing	In-memory computing	Cloud/client architecture	Cloud/client computing
Mobile-centric applications/interfaces	Mobile applications/HTML5	Mobile apps and applications	Risk-based security/self- protection
Cloud computing	Hybrid IT/cloud computing	Hybrid cloud & IT as a service broker	Advanced pervasive/invisible analytics
Media tablets and beyond	Mobile device battles	Mobile device diversity/management	Computing everywhere
Contextual/social user experience	Personal cloud	Era of the personal cloud	Content-rich systems

Source: Gartner (2015)







Global Statistics .. TMT

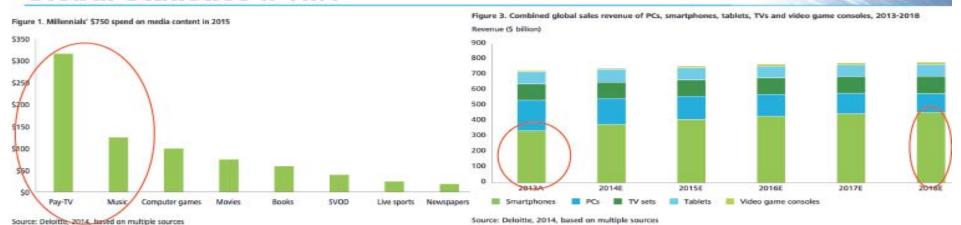


Figure 2. Device ownership by millennials and all age groups

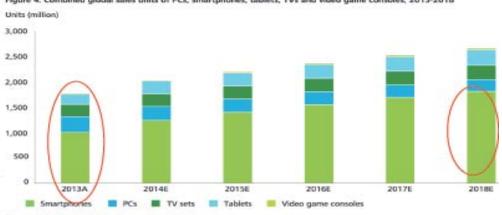
Source: Deloitte Global Mobile Consulter Survey, Developed countries, May - July 2014

Q: Which, if any, of the following, do you own or have ready access to (Laptop, smartphone, tablet, eReader)?

100%
85%
74%
40%
Laptop
Smartphone
Tablet eReader

Resider

Figure 4. Combined global sales units of PCs, smartphones, tablets, TVs and video game consoles, 2013-2018



Source: Deloitte, 2014, based on various industry sources.







Indonesia: Unleashing Age.....



Consumer driven economy, with private consumption making up 55% of GDP⁽¹⁾
Indonesia Today
Indonesia at 2030

Large economy with robust growth US\$878 billion GDP

 5.8% GDP growth⁽²⁾ - Indonesia 15th largest today

Large population base 254 million people (grow 2.9 million per year)

 4th largest population country in the world

Young population

60% of population < 30 years of age.
 One of the youngest population in the world

Growing middle class 55 million members of the consuming class, growing by the population of Singapore every year

- Forecasted to be 7th largest economy in the world
- 135 million members of consuming class will drive growth
- Rapidly urbanizing nation, fueling rise in income and discretionary spending
- Expected to account 40% of ASEAN growth by 2030

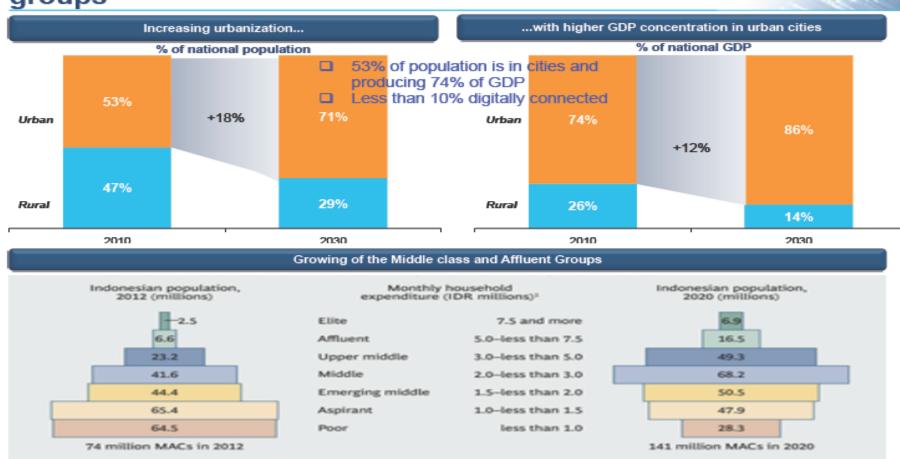
^{1) 2010 - 2013} average: Source McKinsey Global Institute, CIA Factbook

²⁾ GDP CAGR% forecast for 2014 - 2019: Source Media Partners Asia





Increasing urbanization and rising middle class & affluent groups

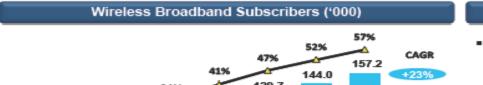


Population and Households Expenditure Database 2012: Source McKinsey Global Institute, BCG





Broadband supply in midst internet boom





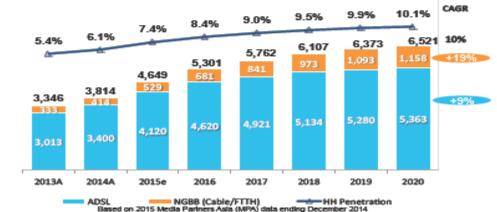
Fixed Broadband Subscribers ('000)

Wireless Broadband

2017

2018

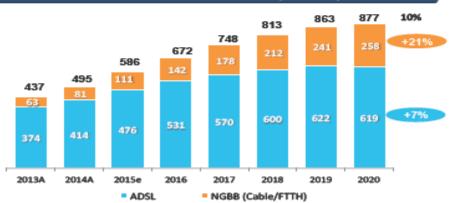
──Wireless Penetration



Strong Demand, Low Supply

- Under-penetrated market ~ 22% Wireless, 6.1% Fixed today
- (Fix NGBB) Projected CAGR 19% driven by growing middle class demanding for stable internet at home, shared across family
- (Wireless) Projected CAGR 23% driven by high upsides in 4G conversion (increase consumers crave for better Mobile Data connection alternative)
- Pre-dominantly PREPAID market, and research stated considerable ARPU US\$ 8.5 per month.

Fixed Broadband Revenues (US\$ mn)



Based on 2015 Media Partners Asia (MPA) data ending December 2014





Population are data hungry resulting in explosive data growth

Data in urgent Needs

Mari Pangestu (2012):

- Creative economy: the fourth wave economic growth
- Creative economoy unseperated from technology internet and social media
- Internet contributes 1,6% of GDP, equivalent to over Rp 115 Triliun. It is estimates Internet will contribute to 2,5% of GDP in 2016.

The Indonesia Group Against Digital Divide (IGADD): when Indonesia broadband internet PR = 20%, every 10% then will lead to additional growth by 1,3%

Indonesian highly "addicted" to Internet



84 million internet users (33% of the population)
 Avg. 1.5 hours a day



4th largest Facebook market (93 million accounts)

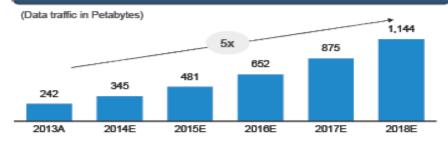


5th largest Twitter market (29 million accounts)



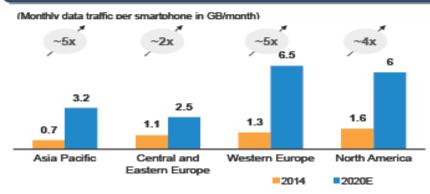
71% cellphone ownerships (50% to access internet

Indonesia monthly data traffic expected to increase 5X



- Mobile data traffic to grow 3x fixed IP traffic from 2013-2018⁽¹⁾
- Mobile IP traffic as % of total IP traffic to grow from 10% in 2013 to 34% in 2018⁽¹⁾

Exponential data traffic growth in Asia Pacific with room to reach developed markets scale



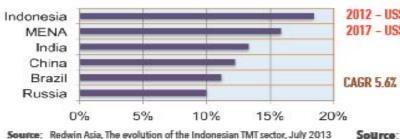
Source: AC Nielsen, Mary Meeker report, Cisco VNI, Ericsson mobility report and Equity research (1) As per Cisco VNI data





Media Market in Indonesia



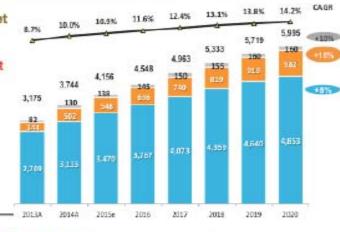


CAGR 5.6%

Global Media & Indonesia TV Market **Entertainment Market**



PricewaterhouseCoopers



— DTH —— Cable/IPTV —— Other - DTT → TV Households Penetration.

Indonesia's US\$10 Billion Media Market

- 1. The Internet has overtook print and radio for the first time in 2012 in terms of reach
- 2. Television is still the dominant medium with near-100% monthly reach
- 3. All the media conglomerates are currently either implementing or conceiving online digital strategies
- 4. The young and tech-savvy consumer base is highly social media aware, and supports a huge advertising market that will soon exceed US\$10 billion.

Source: Redwing Asia



2011 - US\$1.5 Billion EBITDA - US\$510 Million 2016 - US\$3.3 Billi



US\$2.5 Billion



US\$0.8 Bilion

Source: Five Years

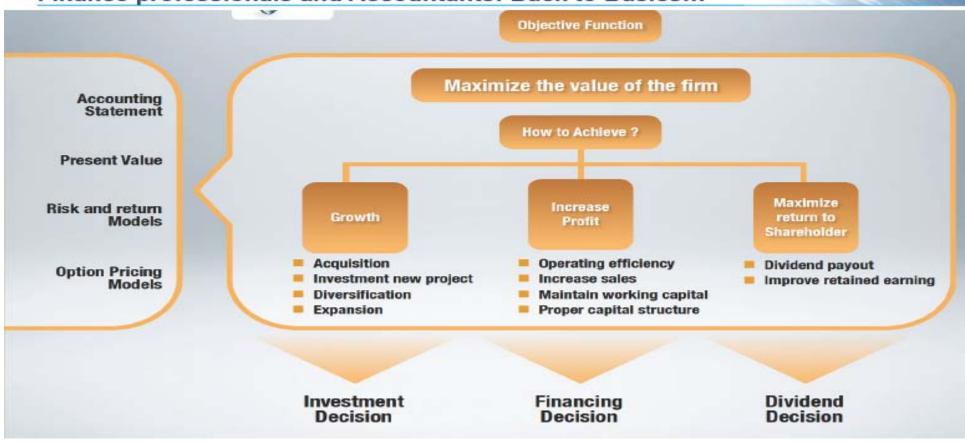
CAGR 18%

Media Partners Asia, Indonesia's Television Industry: The Next





Finance professionals and Accountants: Back to Basics...









Financiers and Accountants: Responsive Age ...

1

Agile and has sense of responses

- Adapt to changes
- Take quick responsive actions vs ignorances..
- Lead and provide sense of direction based on data analytics



Strategic as New Base Line

- Move the role as feeder of financial information to strategic advisor role to CEO
- Strategy formulation and execution
- In an environment where "commercials" will change quickly, deep business experience = valuable



Managing Risk

- The risks businesses face will grow, change, and become more difficult to calibrate and manage.
- A significant role to play in balancing vs potential risk impacts and plan out the different scenarios
- Understand better risk modelling skills



Technologically adept

- Coming together of social, mobile, and Cloud technologies revolutionize day-to-day business practices.
- Use software to increase automation, better workflow, plug-and-play, and access to real-time information
- Use data many ways and offer an immediate, integrated view of business performance.



Brilliant Investor Relation

- Telling story
- Keep shareholders informed with transparent story
- Need to "talk the same language" across a wide range of stakeholders



Customer centric

- Understand the needs of different consumers and develop a culture that is customer-centric.
- Customer savvy, so taking on roles that provide greater customer understanding will be key.
- Changes in attitude towards serving broderless customers





IKATAN AKUNTAN INDONESIA

"MY JOB IS TO NOT BE EASYON PEOPLE.
MY JOB IS TO MAKE THEM BETTER."
STEVE JOBS