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# Opening ICT Public Access and the Cybercrime Pandora Box in Indonesia - '04 Update

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The views expressed in this presentation are those of the authors and not necessarily those of the above organizations nor of the Government of Indonesia

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Topics

- 1) Indonesia ICT & Public Access Status
- 2) Internet Kiosks Update '04
- 3) Cyber Fraud & Crime Issues
   Indonesia's status

4) Recommendations

 Regional, national & community responses



## PANDORA'S BOX

### any source of extensive troubles, esp. one expected at first to yield blessings

(in Greek classical mythology, a box or jar given by Zeus to Pandora, which contain all human ills).



### Indonesia - ICT Status - Telephony

- Population: 215 mil., over 110 mil. on Java Island
- <u>Telephone density</u>:
  - National: Fixed ~ 3 %; Cell/Mobile ~ 6%; Total ~ 9.1%(Q3'03)
  - Fixed wire line : ~ 8 millions (3.63% at 30.06.2003)
  - Cellular Mobile : ~ 14.5 millions ( 30.06.2003)
  - Local Fixed Wireless Access : Started in some cities
  - Major cities have adequate teledensity
    - The Metropolitan City of Jakarta > 40%
    - Other major cities ( eg Medan, Surabaya, Bandung, Semarang) > 11%
    - Other regions : Eastern Indonesian towns: 2.04%
    - Remote Rural Areas : 0.2% (43,000+ villages with no telephone lines out of 70,000 villages)
    - World average of rural connectivity ~ 50%
    - Over 65% unconnected villages: Higher than World Average
  - Telephone Kiosks/Cafes : over 200.000

## Indonesia ICT Status - Internet

- Internet/ISP subscribers: 1,200,000 (est.)
- Internet users: 9,500,000 (est.) of 215 m. population less 1% penetration one of the lowest in the Asia Pacific region
- <u>ISPs</u>: over 200 licenses but only 43 operational and 10 ISPs have nearly 80% of the Internet users market share
- <u>Warnet (Internet Kiosk)</u>: over 2,500 in 2002 (Warnets are populars place in large cities in main islands as centers of ICT access) but now less than 2000
- <u>Computer ownership</u>: 0.01-0.05% (less than one to 5 PCs per 100 household for rural and urban areas) but there is a high rate of public access (Warnets are growing in the major cities).

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(1.1)

### (1.3) Indonesia Warnet Status - 2004

- **70% Warnets are closing down in some large cities** as they are being increasingly replaced by other forms of access to the Internet
  - Schools and Universities: many state secondary students now have access (Rp.10k=USD1.08/month)
  - Office: Dial-up Telkomnet Instan/PT Telkom & CableTV/ADSL
  - RT-RW-Net (Local Neighbourhood Broadband/Wireless Networks initiated by Onno Purbo & Michael S. Sunggiardi - Warnet/ISP operator in Bogor, West Java, 60 Km south of Jakarta)
- **2004-5: less than 2000 Warnets** (0.4% of target the over-optimistic government target of 500,000 Warnets by 2005 (SIBM-Business and Community Centres) based on 200,000 Wartels (Phone Kiosks) and 2,500 Warnets in 2001.
- The reality now is that most Warnets are facing a very difficult time to survive as viable businesses. Some of them are turning to crimes related to "carding" (credit card fraud, sales of expensive items, etc).
  - High average investment (Rp.61m~\$6560/each with 8 computers+access eqmt, AC, tables and chairs) with long break even points (only Rp.6.7m~\$716/month) is made worse by high Internet access cost (Rp4m~\$430/month for 64Kbps) and dwindling users; many have turned into Network Game Parlours or some have become "carding" centres.

### (1.3) Indonesia Warnet Status - 2004 (2)

- 10 ISPs in Yogyakarta, Central Java were forced to close down by the authorities for "illegal wireless equipment use". Result: 70 warnets, 41 schools/regional government access points closed down as a result of the "sweeping" action (<u>www.detik.com</u>, 19/9/2004)
- Compared to 2001-2, the last 2 year has seen a consistent decline in the use of Warnets: no special incentive from government. Rather than trying to bring new users on line, Warnets have been mainly in fiercely competing for the dwindling users while facing ever higher operating costs.
- Internet connection tariff is relatively still too high particularly cable services (from PT Telkom's dial-up, leased-line or ADSL)
- Alternatives are illegal: many Warnet obtain "illegal wireless" equipment (esp. 2.4GHz) bandwith or satellite bandwidth (from overseas without licence/'legal footprint'). National legal satellite providers are also too costly.

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## (1.4) Indonesia Warnet Status - 2004 (4)

- Wages of staff members (daily operators) have been squeezed because
   of difficult economic circumstances faced by Warnet owners
- As a result, many owners and staff member have even become "permissive" to allow:
  - <u>customers to use their premises</u> to conduct "carding" activities;
  - some "nurture" and coach carding groups in their Warnet to get extra income;
  - <u>employ "known hackers</u>" (often are local IT-students and unemployed graduates)
  - some profess doing it for a political cause (e.g. Aceh separatist movement; as "revenge against infidel Westerners", and so on);
  - <u>assist with the distribution of the illegally ordered expensive goods</u> that have been obtained (computer laptops, golf clubs, sports equipment and so on).
  - Organise/let premises become meeting places for hackers after hours
- Other criminal activities are being "promoted" by some unscrupulous operators:
  - <u>Bookmarking Vice Internet Relay Chat & Websites</u>: Pornography, Prostitution, Credit Card Swapping, "meet rich foreign guys/girls" sites, etc.
  - <u>Paedophiles access</u>: Especially Warnets with DSL -512k broadband- access, webcams access is currently very popular with many youth (some underage) interested to have Internet "video conference" and "flesh-meet" interaction with foreigners who use promises of expensive gifts and travel to exotic places to attract unsuspecting victims.

# Internet Kiosks Survey

- Preliminary survey by Center for ICT Studies, ICT Watch & ICT/MoCI, PEG-USAID Project
- Field survey: August, 2003
- Qualitative approach (structured questionnaire + focus group discussion)
- Field research locations: Makassar, Medan, Bandung, Jogja and Jakarta suburban (5 main cities - 10 Internet kiosks, each location)
- Respondents : administrators and/or owners of the Internet Kiosks

(2)

# (2.1) Legal Entity & Gov't Policy

City	Legal Entity? 1	Local Gov Policy <sup>2</sup> on Warnet Response?
Makassar	Yes:4 / No:6	Yes:7 / No:3
Medan	Yes:3 / No:7	Yes:6 / No:4
Bandung	Yes:5 / No:5	Yes:4 / No:6
Jogja	Yes:2 / No:8	Yes:4 / No:6
Jakarta suburban	Yes:5 / No:5	Yes:5 / No:5

1) Limited Partnership (CV) or Incorporated (Inc/Ltd)

2) Policy on licensing, permits, etc.



- If licensing is without complicated procedures & no big costs involved
- Regulations OK if only affects business competition

Let the competition happen naturally

 The need to increase performance of selfregulating institutions



# **Investment & Rent Fees**

City	Investment Rent Fee *	
	(US\$1=Rp 8-8.500)	(standard per hour)
Makassar	>= Rp 80 million (4)	Rp 3500 – Rp 4000
Medan	>= Rp 80 million (9)	Rp 2500 – Rp 4500
Bandung	>= Rp 80 million (7)	Rp 3000 – Rp 4500
Jogja	>= Rp 80 million (6)	Rp 3000 – Rp 3800
Jakarta suburban	>= Rp 80 million (5)	Rp 4000 – Rp 6000

- Varied, depends on the facilities provided and the time schedule (the lowest rent fee is after midnight until morning); for example "super-cheap" wee-hour specials (2300-0600 for Rp.1,500-2,000 per hour)
  - Most of the respondents say the rent fee is not ideal. The fee should be higher (up to Rp 2000 more)
  - 1-2 years ago, the rent fee is higher (up to Rp 2000 to Rp 4000 more), but the "price war" drastically crashed the price

#### <mark>(2.3)</mark>

# **Computers & Net Income**

City	No. Computers (No of Warnets)	Net Income * (average per month)	
Makassar	5 – 10 (5) 11 – 20 (5) > 20 (0)	Rp 2 – Rp 4 Million	
Medan	5 – 10 (0) 11 – 20 (3) > 20 (7)	Rp 2 – Rp 6 Million	
Bandung	5 – 10 (0) 11 – 20 (8) > 20 (2)	Rp 5 – Rp 10 Million	
Jogja	5 – 10 (4) 11 – 20 (4) > 20 (2)	Rp 2 – Rp 4 Million	
Jakarta suburban	5 – 10 (8) 11 – 20 (0) > 20 (2)	Rp 0.5 – Rp 2 Million (housing area) Rp 5 – Rp 10 Million (campus area)	

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# (2.4) O/S and Internet Access

City	Operating System (server)	Internet Access
Makassar	Windows (1) Linux (9)	Wireless / 16-64 Kbps
Medan	Windows (8) Linux (2)	Wireless / 16-64 Kbps
Bandung	Linux (10)	Wireless / 32-64 Kbps
Jogja	Windows (1) Linux (9)	Wireless / 32-64 Kbps
Jakarta suburban	Windows (8) Linux (2)	Dial Up (housing area) ADSL 512 (campus area)

Note: Most of respondents use Windows 98 for their client computer operating system.

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# (2.5) Number of users, types & activities

City (First - Last Warnet Est'mt. Date)	No. Users/day (No of Warnets)	User categories (in descending order) Cybercrime-CC();Porn-P()*
Makassar (04/1999-05/2003)	40 – 50 (5 - 15 hours op.) 50 – 70 (5 - 24 hours op.)	High-School & Univ. Students CC(-7;+3) ; P (+4 - warning esp. HS Students)
Medan (04/1999-05/2003)	40 – 50 (5 - 15 hours op.) 70 – 100 (5 - 24 hours op.)	Univ. & High-School Students CC(-10 ) ; P (-10)
Bandung (06/1998-06/2002)	40 – 50 (3 - 15 hours op.) 70 – 170 (7 - 24 hours op.)	Univ. & High-School Students CC(-5; +5); P (-5; +1 - warning esp. HSS; +4 - blocking access with filter)
Jogja (02/1999-10/2001)	20 – 30 (3) 50 – 70 (3) >100 (3) >350 (1)	Univ, High-School Students & Workers CC(- 8;+2 ) ; P (+1 - warning esp. HS Students)
Jakarta suburban (12/1999-02/2003)	40 – 50 (8 - 16 hours op.) 70 – 170 (2 - 24 hours op.)	Univ, High-School Students & Workers CC(- 7: +3 ) ; P (-8 -no warnings)

\*Note: ("+") Signifies the number of Warnets who take positive action against CC/P and ("-") signifies the numbers of Warnets who are resigned to CC/P usage

# (2.10) Take-up Barrier Assessments

Lack of Sustainability of Internet Kiosks might be due to:

 (1) Computers are still unaffordable (price too high relative to income, tendency to plan finances only for the short term)

(2) Access is still unaffordable (price too high relative to income)

(3) Low awareness about what computers can do and tendency to avoid complicated technology

(4) English language barrier

(5) **Community-based solution** (such as RT-RW.Net are still too limited hardware - software solution)



### **Cyber Crime Status**

- IT-based Crime Credit Card Fraud is often done from Warnets
- 20 percent of the total number of credit card transactions in Indonesia on the Internet were cyberfraud.
- Indonesia's country identifier in an Internet address, 202, has been blocked by most e-merchants. So hackers use a technique called "IP spoofing" to falsify this with the number of another country.
- Shipping companies regularly refuse to ship goods to Indonesia so the hackers give an address like "Jakarta, Holland" or "Jakarta, Japan"
- Ebay.com and PayPal.com blacklisted Indonesia: no access for visitors with ".ID" IP-address and e-commerce blockage for 215 million Indonesians
- Internet Fraud in Indonesia is serious -
  - 2003: Indonesia ranks second after Ukraine on the list of countries of origin of cyberfraud ('carding') according Texas-based security company ClearCommerce (www.clearcommerce.com) survey: conducted from mid 2000 until end of 2001 and involved 1137 merchants, six million transactions and 40,000 customers)
  - 2004: Indonesia ranks first replacing Nigeria

### Cyber Fraud Status : Indonesia joins the Top-10 #1 by percentage & #3 by total volume

Top Countries by	Total Volume	Top Countries by	Percentage
of Fraudulent	Transaction	of Fraudulent	Transactions
	Ranking		Ranking
USA	1	Indonesia	1
Canada	2	Nigeria	2
Indonesia	3	Pakistan	3
Israel	4	Ghana	4
United Kingdom	5	Israel	5
India	6	Egypt	6
Turkey	7	Turkey	7
Nigeria	8	Lebanon	8
Germany	9	Bulgaria	9
Malaysia	10	India	10

Source:

January 2004 edition of US VeriSign's "Internet Security Intelligence Briefing" report © Indonesian Information Technology Federation (FTII) - page 17

# (3.5) Network Security - Type of Incidents

- Web deface: 2 or more/week (2/2004-elections)
- Spamming & Mailbombs
- Probe/Scan Intrusions
- Account/Root Compromise
- Packet Sniffer
- Harassments/Exploitation of Trust
- Denial-of-service (DDoS)
- Malicious Code/Virus and worm attacks
- Internet Infrastructure Attacks
- See ISP Association (APJII)'s website for the latest statistics on the above (www.apjii.or.id)
- Source: Standard CERT Classification (www.cert.org/encyc\_article/tocencyc.html)

### (3.6) Face of Cybercrime - Credit Card Fraud: suspect and evidence

#### SUSPECTS -

 Mostly young educated, some with IT qualifications

•Many amateurs but some maybe organized

 Need for employment opportunities

#### **MERCHANDIZE:**

•Various objects which can be easily exchanged for cash: laptop computer and parts, musical instruments, sports & hobby items (golf, baseball), security products (bullet proof vest, etc.)

Most of relatively small value
 \$ 1000 but some items (part of organized crime) can be substantial (e.g. radar equipment)



### Face of Cyber Terror: Website to spread fear and hate



### (3.8) Victims of Cybercrime mostly in industrialized countries: reported cases

NO	MODU S OPE RAND I	TOTAL	RESIDENCEOF VICTIMS	RESIDENCEOF SUSPECTS
01	Credit Card Fraud	152	84 U SA	62 Yogyakarta
			25 C an a da	43 C en tral Java
			11 Spain	36 We st Java
			8 Germany	24 Jakarta
			8 Au stralia	18 Sumatra
			4 British	12 Ea st Java
			3 Denmark	3 Kalima nta n
			1 France	3 Sulawesi
			1 Au stria (Vienna)	17 O the rs
			3 Japan	
			3 Singapore	
			1 Korea	
02	Banking Offences	Л	1 Solo,1 Yogyakarta	2 USA , 1 Malaysia,
02	Darrking Oriences		2 Jakarta	1 Aus tralia
03	E-mail Threats	2	1 Germany, 1 Au stralia	1 Bandung, 1 Jogyakarta
			Australia, UK, USA,	1 (Imam Samudra - a
04	Terrorism	1	allied nations (including	major suspect of the
		,	Indonesians - o ver 250	recent Bali Bo mbing case)
			lives lost)	
**	Grand Total	159	159	225

The associated financial loss of reported cases caused by this type of fraud alone amounted to over than **US\$ 1,296,597**.

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# (3.9) Many "Hackers" Clubs in Indonesia

- Notorious and well-known "carder" (credit card fraudsters, IRC) clubs:
  - K-elektronik.org
  - Indosniffing
  - Medanhacking
  - Hackerlink
  - Antihackerlink, etc.
- Recent increased activities by Indonesian Cybercrime Unit has made a difference
   Clubs come and go but the number of reported cases of credit card fraud fell from 218 (2002) to 113 (Aug '04),
- Increased well-publicized arrests and surveillance activities, more media exposure helps.
   "Jogja - Bandung are carding heavens", Gatra (magazine), Sept. 13, 2003



# (4) Counter-Cyber Crime Strategies

- Asia Pacific Regional Responses
  - Future APEC Economic Leaders Meeting (prioritize).
  - APECTEL eSecurity Task Group (on-going activities)
  - APEC Computer Emergency Response Teams (AP-CERT) - 24X7 Point of Contact Network, Capacity Building
  - New Regional efforts: InfraGuard Asia
- Indonesian National Responses
  - Long-Term and Short-Term Solutions
  - National strategy and concensus building
- Community Responses
  - Businesses, NGOs, Law Enforcement, Legislation
  - Computer Incident and Abuse Handling CERT, ISPs, Warnets
  - Industry Code of Conduct, Community Enforcement (WARPs)

### (4.1) National Counter-Strategies

#### Long-Term (Institutional Enablers)

 Allowing a conducive business environment for Warnet business by Government (ICT Ministry): - direct concessions on licensing (2.4GHz & satellite bandwidth) or indirect concessions (directing telecom operators to lower tariff of connectivity for Warnet, Schools, Hospitals, Libraries, etc)

 Negotiate a "discount-scheme" for Warnets, Educational, Health and other Key Community Institutions, support IT Multinationals to provide concessions to them: the government could provide awareness raising & training activities for the relevant operators

 Place ISPs and Warnets on equal footing: Warnets no longer as merely "re-sellers of ISPs" but also ensure them to be viable business centers

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### (4.2) National Counter-Strategies

#### Medium-Term (better conditions for W-operators)

 Conduct an awareness raising for Warnet business by Government (ICT Ministry): - direct appeal about the gender education to Warnet, Schools, Hospitals, Libraries, and others to say that if there is any suspecting case, there will be "raids" and Warnet servers can be held for months.

 Warnets must adopt a "code of conduct" for training and for general managers for Warnet operators (a draft has been put together by Indonesia Net and other operators).

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### (4.3) National Counter-Strategies

- Short-Term (restricting "carding"-activity)
  - Issue directive for Warnets to start obtaining copy all users Identity Card for the Government: each user must provide a copy of their KTP or SIM or Passport (National ID is coming)
  - Warnets must carry a posters to warn about the "dangers of cyber fraud and cyber crime" for all to see.
  - Warnet administrators must maintain a watchful eye on the log file (while there is some on-line activity) or install a remote software to monitor such cyber-fraud activities (example: one software brand is "VNC", see <u>www.tightyvnc.com</u>).
  - NOTE that the above are excellent examples of preventive action to monitor Warnet usage pattern but privacy issues should be looked after.
  - Ensure that Warnet backup the log activity files of users to CDs (as an alternative piece of evidence rather that confiscation of servers)

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#### REGIONAL CYBERSECURITY EFFORTS TEL26 RU - TEL27 KL- TEL28 TW - TEL 29 HK - TEL 30 SG



(4.1)



- Meetings of the Telecommunications and Information Working Group of the Asia Pacific Economic Cooperation (APEC)
  - 21 members and many observer economies/NGOs
  - APECTEL key cybersecurity activities:
    - Business Facilitation Steering Group (BFSG)
    - E-Security Task Group (ETG) part of BFSG
    - AP-CERT Meetings
  - Legal Workshop to Combat Cybercrime (Aug 17-18, 2002, Tel 27)
  - Cybercrime Legislative and Enforcement Capacity Building (July, 2003, Bangkok)
  - Computer Emergency Response Teams (CERTs)
    - TEL27 KL- TEL28 TW TEL 29 HK
    - TEL30 SG: Wireless Security, CSIRT Workshops

#### BUT something MORE is needed to address Cyber Fraud & Crime

• TEL30+ : Workshop on "cyber-fraud" counter-strategies



# (4.2) APEC Cyber Security Strategy



- Good 5 initiatives but enough on-the-ground action? (APEC Digital Opportunity Center and Training) might address people-centred issues relating to:
  - Legal developments
  - Information sharing and cooperation
  - Security and technical guidelines
  - Public awareness and education
  - Wireless security
- Economic Security job-creation to bridge the digital divide (Development Cooperation Steering
   Group for TEL26) Major result: Digital Divide Blueprint for Action, Supporting Micro/SMEs, and Considering Next-Generation Technologies and their role in Infrastructure Development
  - ICT Investor Dialogue (low cost emerging market examples - Thailand & India): Jakarta & Singapore

(4.3) APEC Computer Emergency Response Teams APCERT-Task Force for Network Security Incidents Response & Coordination



# <sup>(4.4)</sup>Building blocks for combating cybercrime

- National "Cybersecurity Strategy" development:
  - Define architecture, Roles and Responsibilities
  - Business Model, Funding and Contributions
  - Technical Assistance (APCERT and others)
  - Legal Framework and New Guidelines
- Expand Incident Abuse Report Email Contact

   ID-ISP-CERT: Abuse@apjii.or.id
- Improve information in Indonesian language
- Ticketing system for incident reporting handling
  - ID-ISP-CERT IODEF: incident information exchange format standard: <u>http://www.terena.nl/tech/task-forces/tf-csirt/iodef/</u>
- IT Business Community Forum : ID-FIRST (Indonesia-Forum for ICT-incidents Response and Security Team) sponsored by Indonesian IT Industry Federation (FTII) in search of partners and sponsors



### Improve IT-Investment Environment & Cybercrime Reduction

- **Worsening IT educated unemployment** most official figures underestimate true situation; mainly heavily concentrated in the cities of Jakarta, Bandung, Jogyakarta, Semarang and Surabaya which accounted for over 40% of all senior high and nearly half of all graduate unemployed in urban areas in 1999 (no recent statistics are collected)
- Unemployment rates were also highest in these cities: 19 % and over versus a 14% unemployment rate among high school graduates in all Indonesia in 1999.
- For many unemployed graduates: many Internet cafes or Warnets provide heaven for "carding" (credit card fraud), hacking and other cybercrime activities; few convictions but lightly punished - no deterrent in the existing laws (even Warnet operators are allegedly involved)
- Improving employment by providing opportunities for IT/ software development SMEs - scale up successes of the development of software incubation Balicamp to Balige Tobacamp, Bogorcamp, Bandung High Tech Valley (BHTV)





### **Private Sector Initiatives**

- Expand Information Sharing Network coordinated by ID-FIRST:- Loose voluntary network of entities including CERTs, WARPs (not a technical but capable of reporting including Warnets), ISACs and other key organizations interested in sharing warnings, vulnerabilities, threats and incident reports)
- Expand links with "InfraGuard Asia" (PH, US)
- Model: UK's "Cyber-Neighbourhood Watch" Warning, Advice and Reporting Point (WARP)
  - Based on ICT Neighborhood Groups in Indonesia:e.g. RT-RW.net
  - Provides warning, advice and reporting services on Internet Network & IT security-related matters
  - Similar to a CERT but without a capability for responding to incidents (other than providing advice - not able to issue technical "patches" against virus, troyan horses, mal-ware in general)
  - Warnets will cooperate with ISPs (as in recent case of Jakarta-Bali fraud) © Indonesian Information Technology Federation (FTII) - page 32

# (4.7) ID-FIRST/FTII approach to cybersecurity

#### (1) Improve Trust & e-Security through (5 elements):

- Awareness Raising, Training and Education
- Strengthen Legal and Policy Framework
- Capacity Building in Technology Tools and Computer Emergency Response Teams (ID-ISP-CERT, ID-CERT, ID-FIRST, ICT Security TF)
  - "First step in stopping attacks is to understand how hackers think, work and organize then make sure security systems are nimble enough to shift gears when they do" e-security expert.
  - Coordination, Incident Reporting/Data Collection and Crisis Management
- Partnership between Private Sector, Academia, Government including Law Enforcement Agencies (LEAs)
- Private sector leadership role (while government is in transition)

(2) Improve Business/Investment Climate, Employment Opportunities in Indonesian IT industries

\* Collaboration with interested multi-lateral and bi-lateral donor organizations can accelerate local programs

## (4.8) Cybersecurity Recommendations

- Awareness: Internet Kiosks (Warnets) are critical ICT access points but also are systemic security vulnerability points
- Design Cybersecurity Strategy on the Outset: Building blocks and strategize - legal, technical and investment issues - must be seriously considered by both private sector & government -BEFORE - credit card & Internet fraud, cyber/terror attacks gets worse (Ignore e-security "at your peril" - Lessons from Microsoft).
- Some late-comer advantages for Indonesia & other developing countries - practical response & policy work:
  - Regional (APECTEL-eSTG, 24X7 POCs) & International (FIRST.org)
  - UN-General Assembly (latest: Resolution A/C.2/58/L.19, Cybersecurity and the Protection of Critical Information Infrastructure)
- Outcome depends on all of us: Trust-building, Affective
   Preparatory and Post-Incident Action at all levels
   (Individuals, Community NGOs, Industry Orgs, LEA, Governments, etc.)

## Thank You/Terima Kasih

• Please provide feedback to:

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- Related Websites:
- Indonesia IT Federation: : <u>www.ftii.or.id</u>
- Business Security Forum: <u>www.Secure-</u> Indonesia.FIRST.or.id
- ICT Neighborhood Associations (RT-RW-Net), <u>http://www.bogor.net/idkf/michael/rt-rw-net/</u> File: <u>rt-rw-net.pdf</u>



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# Indonesia IT Federation

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#### **FTII** - consists of:

- 1) Internet Service Providers Association (APJII),
- 2) Computer Business Association (APKOMINDO)
- 3) Software Business Association (ASPILUKI)
- 4) Indonesian Association of Animators (ANIMA)
- 5) Wireless LAN Association (WLI Indonesia)
- 6) Internet Kiosk Association (AWARI)
- 7) Phone Kiosk Association (APWI)
- 8) Indonesia Satellite Association (ASSI)
- 9) Indonesia Cellular Operator Association (ATSI)

Affiliated organizations: Indonesia Telecommunications Users Group (ID-TUG), School 2000 Foundation, Indonesia ICT Watch, Global Internet Policy Initiative (GIPI), National Internet School Network (JIS).

