





Delivering Value Through Information Communication Technology

Challenges from Living with ICTs: Strategy for Mitigation, Protection and Prevention

**Session 1: Setting The Stage — Towards an Integrated
Approach for Cyber security and Critical Information
Infrastructure Protection (CIIP)**

**2009 ITU Regional Cyber Security
Forum for Africa and Arab States**

**Tunis, Tunisia
4 - 5 June, 2009**

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Agenda

- **Living with ICTs in 21st Century**
- **Interaction with Youth and Vulnerable**
- **Emerging Risks and Dangers**
- **Challenges**
- **Mitigation, Protection and Prevention**
- **Q&A Session**

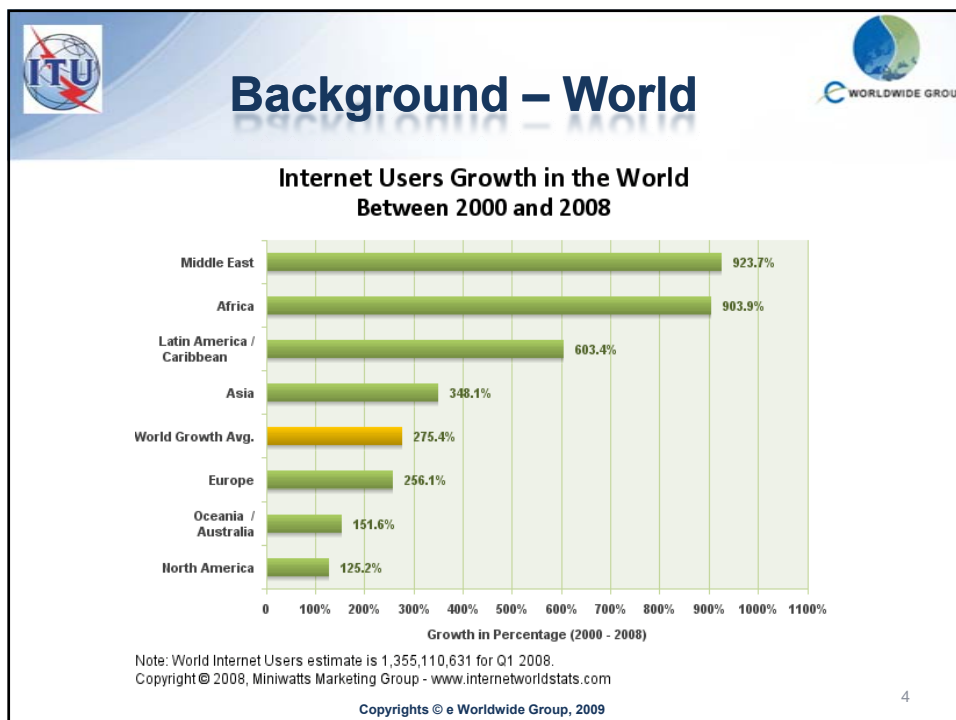
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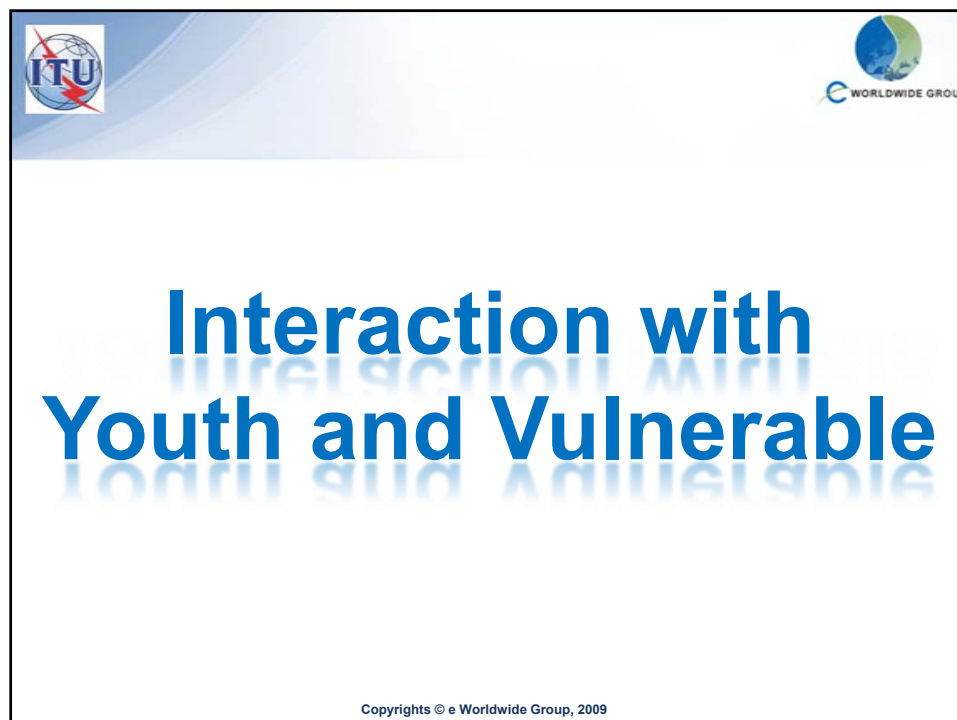
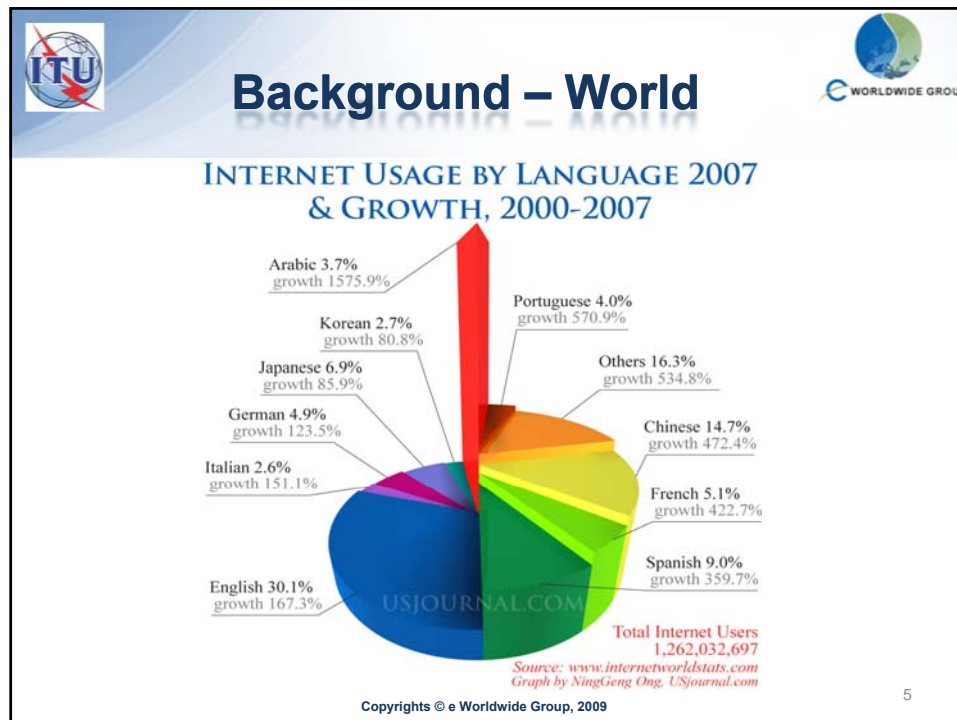
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Living with ICTs in 21st Century

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Interaction with Youth and Vulnerable

1. e-Schools
2. Media and Interactive TV
3. Entertainment
4. Social Networking
 - *My Space*
 - *Face book*
 - *Bibo*
 - *Orkut*
5. Social Benefits from Governments
6. Online Shopping
7. eHealth

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Emerging Risks and Dangers

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Statistics - Cyber Crimes

- The most recent report of the U.S.-based Internet Crime Complaint Centre showed that Nigerian e-mail fraud resulted in an average (median) loss suffered by victims of **\$5,100**. In total Nigerian e-mail fraud generated **\$3.3 million** in reported losses over the course of one year in the United States (IC3, 2006).
Source: Problematic Empowerment: West African Internet Scams as Strategic Misrepresentation (2008)
- **237 Million** Security Attacks Globally (Aug, 2005).
- **54 Million** Attacks on Government Agencies.
- **36 Million** Attacks on Manufacturing Agencies.
- **34 Millions** Attacks on Financial Services.
- **17 Million** Attacks on Health Care.

Source: CRS Report for Congress (Jan, 2008)



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Statistics - Cyber Crimes

- More than **4 Million people** worldwide are victims of Human Trafficking every year
Source: www.radio.cz/en/article/60695
- **18,000 to 20,000** Persons are Trafficked into US Annually
Source: www.blackwell-synergy.com
- Human Trafficking is a **\$ 32 billion** Industry
Source: Human Trafficking Awareness Conference – Denver, CO – Oct. 25, 2008

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Worldwide Trends Crimes in Cyber Cafes

Multiple Layers of Vulnerability – Cyber Crime	
<ul style="list-style-type: none"> ▪ Economic Front <ul style="list-style-type: none"> ▪ Economic Fraud ▪ Stock Market Loss 	<ul style="list-style-type: none"> ▪ Entertainment <ul style="list-style-type: none"> ▪ Pornography ▪ Pedophiles ▪ Human Trafficking ▪ Prostitution
<ul style="list-style-type: none"> ▪ Financial market <ul style="list-style-type: none"> ▪ Bank Frauds 	<ul style="list-style-type: none"> ▪ Personal Identity <ul style="list-style-type: none"> ▪ Credit Cards Thefts ▪ Identity Card Thefts ▪ VIP – Movies Stores ▪ Harassment
<ul style="list-style-type: none"> ▪ Infrastructure <ul style="list-style-type: none"> ▪ Botnet ▪ Denial Of Service attack – DOS 	<ul style="list-style-type: none"> ▪ Terrorism <ul style="list-style-type: none"> ▪ Online Radicalization Content
<ul style="list-style-type: none"> ▪ Industry <ul style="list-style-type: none"> ▪ Airline Reservation ▪ Net Extortion 	<ul style="list-style-type: none"> ▪ Piracy <ul style="list-style-type: none"> ▪ Internet Piracy ▪ Software Piracy

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Challenges

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Challenges




Child	<ul style="list-style-type: none"> ▪ Disclosure of Personal Information ▪ Curiosity ▪ Security 	  
Family	<ul style="list-style-type: none"> ▪ Disclosure of Identity ▪ Critical Information ▪ Security 	
Stakeholders	<ul style="list-style-type: none"> ▪ Infrastructure ▪ Security/ Theft ▪ Reliability 	
State	<ul style="list-style-type: none"> ▪ Critical Information ▪ Virus Dissemination ▪ Security and Reliability 	

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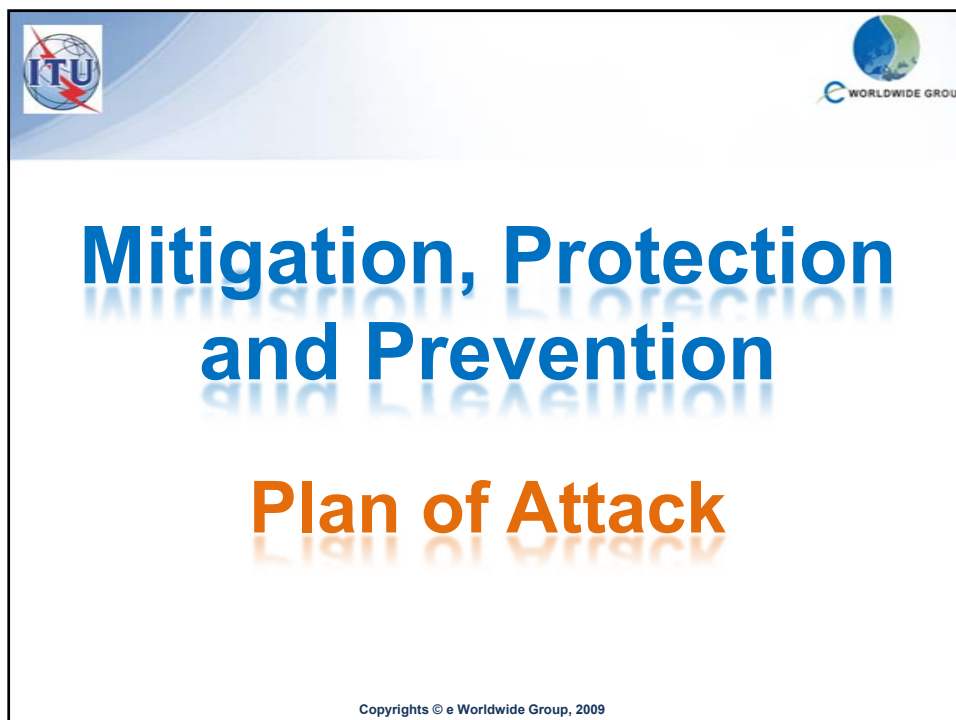
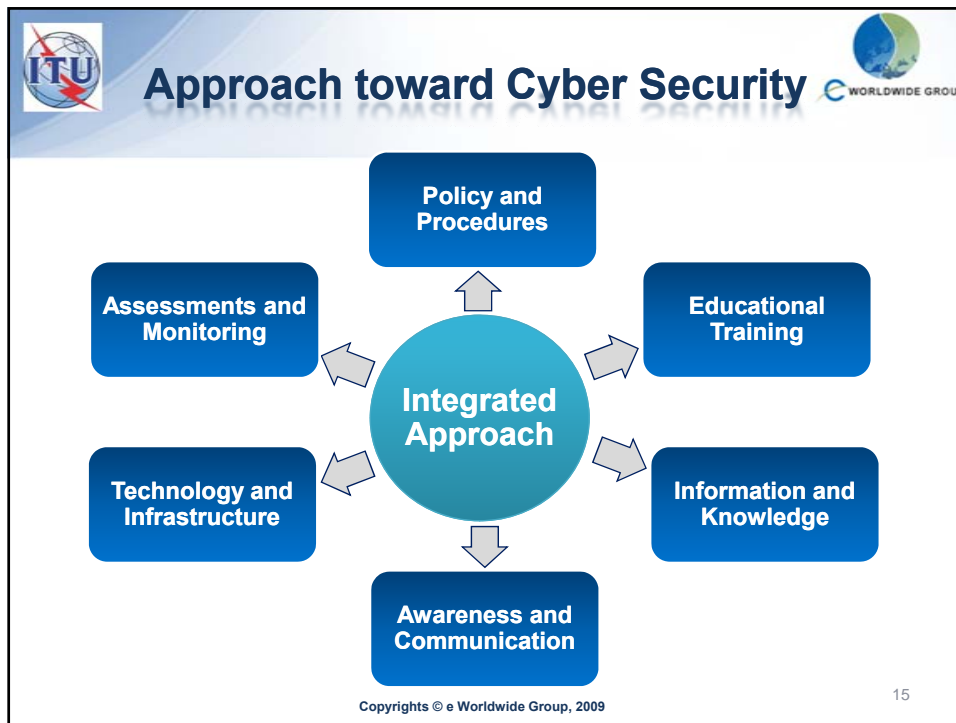


Mitigation, Protection and Prevention

Strategy



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Child Perspective



- Awareness
- Training
- Role Play
- Exercises
- Guideline / Booklets





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Family Perspective



- Awareness
- Training
- Role Play
- Exercises
- Parental Controls
 - Technology Products for Safety Controls
 - Website Blockage





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Stakeholders Perspective



- Awareness
- Policy
- Training
- Surveillance
- Framework of Cyber Policing
- Booklets for Citizens
- Best Practices
- Alerts / Help Lines
- Networking / Support Structures






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State Perspective





- Policy
- Surveillance
- Monitoring Systems
- Taskforce
- Framework of Cyber Policing
- Best Practices
- Alerts / Help Lines
- Networking / Support Structures
- Steering Committees
 - International Level
 - National Level
 - Community Level






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Q & A Session

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