HKIRC and '.HK'
（Hong Kong Internet Registration Corporation Limited)

ICANN Cairo Meeting

Agenda

- About HKIRC/HKDNR
- '.hk' Domain Registration
- Information Security Framework
- Re-branding for '.HK'
- New Governance Structure

About HKIRC / HKDNR

- Hong Kong Internet Registration Corporation Limited (HKIRC) 香港互聯網註冊管理有限公司
  - ➢ non-profit-making; non-statutory, member-based
  - ➢ 'public' company with a Board of Directors
  - ➢ designated by HKSAR Government
  - ➢ manage and administer .hk domain names
  - ➢ Registry and only registrar

- Hong Kong Domain Name Registration Company Limited (HKDNR) 香港域名註冊有限公司
  - ➢ Operating arm of HKIRC
  - ➢ Day-to-day administration of .hk domain names

3

About HKIRC / HKDNR

Mandate

*Represent HK in
international Internet forum &
promote HK's
Internet businesses*

HONG KONG
LIVE IT. LOVE IT!

'.hk' Domain Categories

.com.hk / 公司.hk → **Commercial entities**

.net.hk / 網絡.hk → **Entities managing network Infrastructure and services**

.org.hk / 組織.hk → **Non-profit making organizations**

.edu.hk / 教育.hk → **Educational institutions**

.gov.hk / 政府.hk → **HKSAR governmental bodies**

.idv.hk / 個人.hk → **Hong Kong ID cardholders**

.hk → **Organizations and individuals from both local and overseas**

HKIRC
HKDNR

HONG KONG
LIVE IT. LOVE IT!

Current Registration (as of Oct 1, 2008)

.hk	75,759
.com.hk	90,767
.edu.hk	2,078
.gov.hk	394
.idv.hk	1,699
.net.hk	203
.org.hk	3,802
.公司.hk	2,657
.教育.hk	75
.政府.hk	113
.個人.hk	177
.網絡.hk	75
.組織.hk	282
Total:	**170,296**

Our Service Partners

~ 100 SPs from local, overseas - Hold SP Award Annually
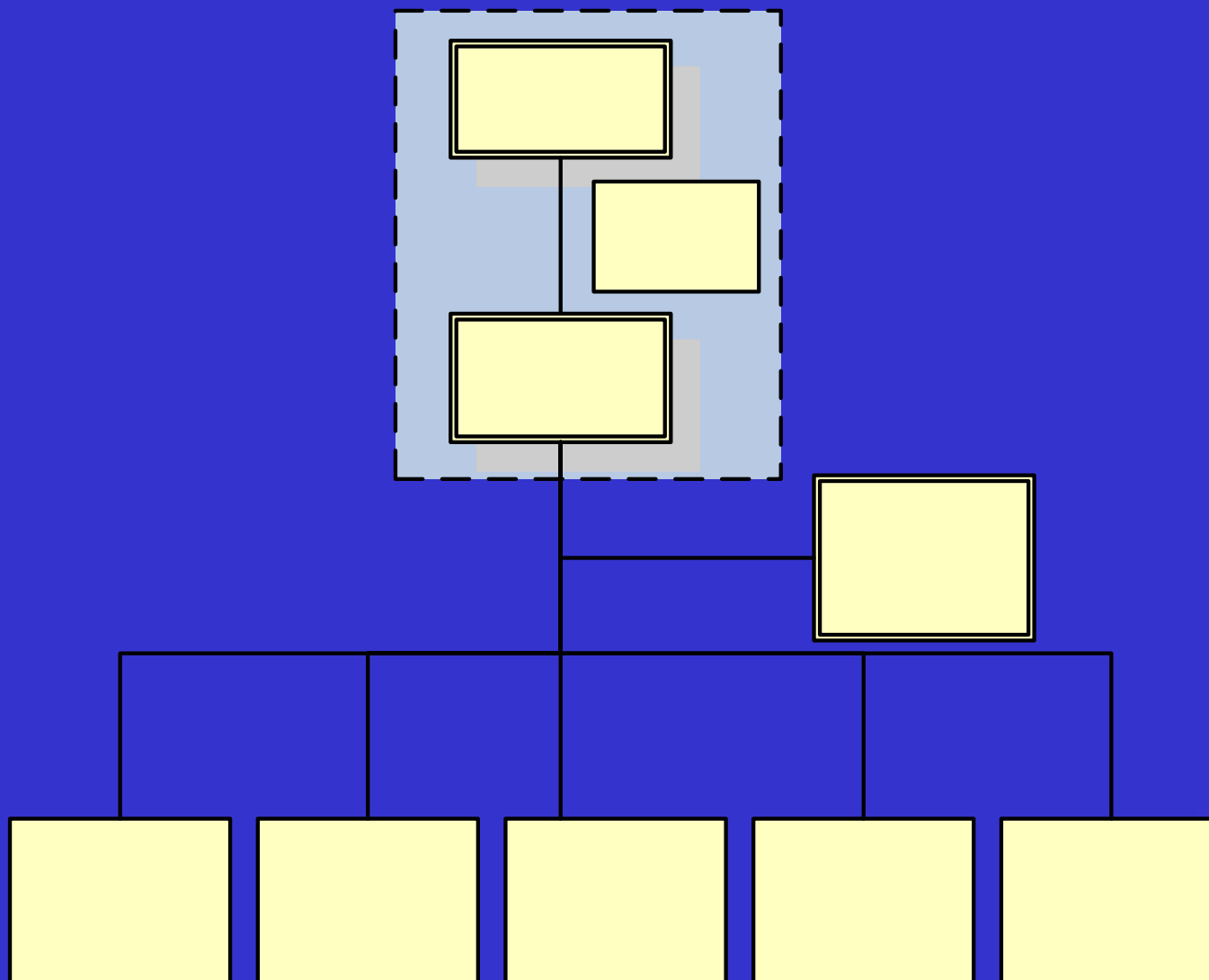
Information Security for the .HK Registry

Information security framework based on ISO17799/27001

- Information Security Management System (ISM)
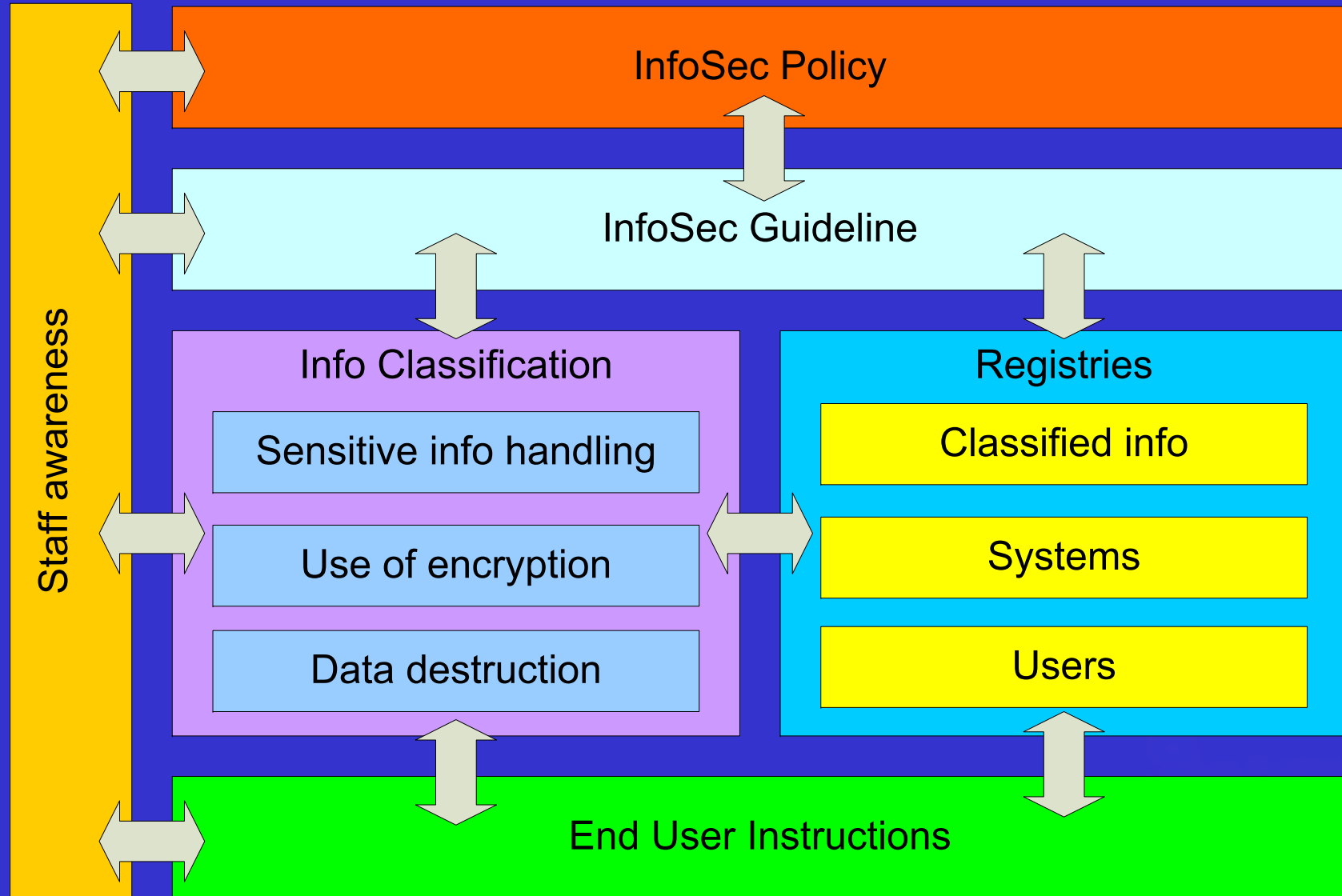- Utilizing the Plan-Do-Check-Act Cycle

Interested Parties

Information security requirements & expectations

PLAN
Establish ISMS

DO
Implement & Operate the ISMS

ACT
Maintain & Improve the ISMS

CHECK
Monitor & Review the ISMS

Interested Parties

Managed Information Security

* excerpt from HKIRC infosec policy
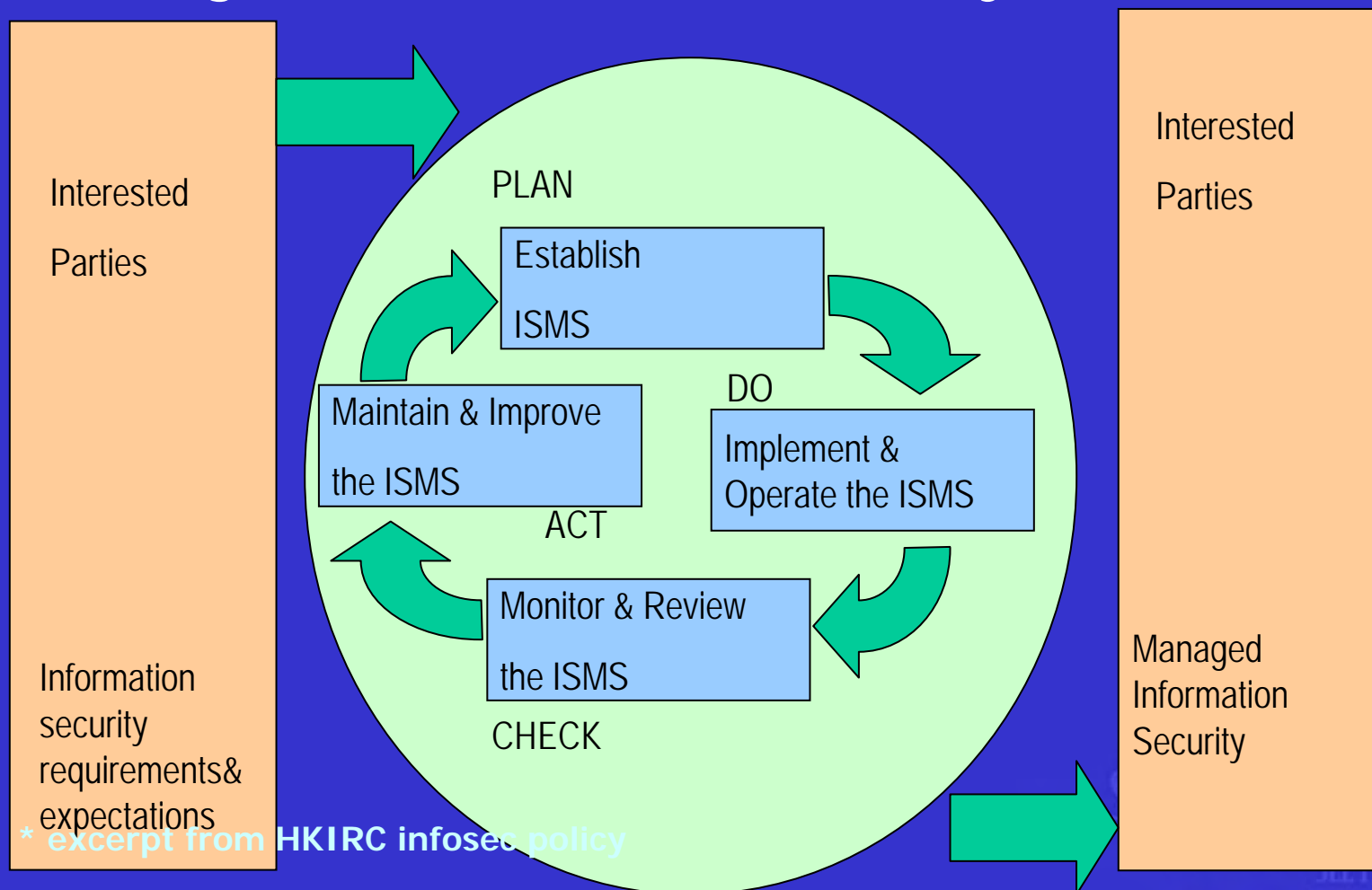
People (Roles) - Security organization

Process - Security features of our processes

Process - Security features of our processes

- Physical access control
- Computer access control
- Network access control
- Password control and password strength
- BCP & DRP
- InfoSec compliance statement with vendors
- Reporting security incident
- Incident response procedures

Process - Security features of our processes

- DNS records generation reconciliation
  - Check the DNS zone files generation are complete and correct before use
    - Compare zone files and database
- DNS servers records dig check
  - Check the records are correctly loaded and are timely transferred to all DNS servers
    - Compare DNS servers dig results with database
- Web patrol for registration website
  - Check the registration website integrity and functions are healthy
    - Access the website to check that content has not been unduly modified
    - Test the key functions of the registration system

Technology - Security features of our IT infrastructure

- Physical access control
  - Passcard system
  - CCTV
  - Enable and review access logs
- Computer access control
  - account and password
  - Enable and review access logs
  - Privilege account access detection and notification
- Network access control
  - Firewall & IDS
  - Enable and review access logs
- Change control
  - Change approval process
  - Enable and review change logs

Risk Assessment and Security Audits
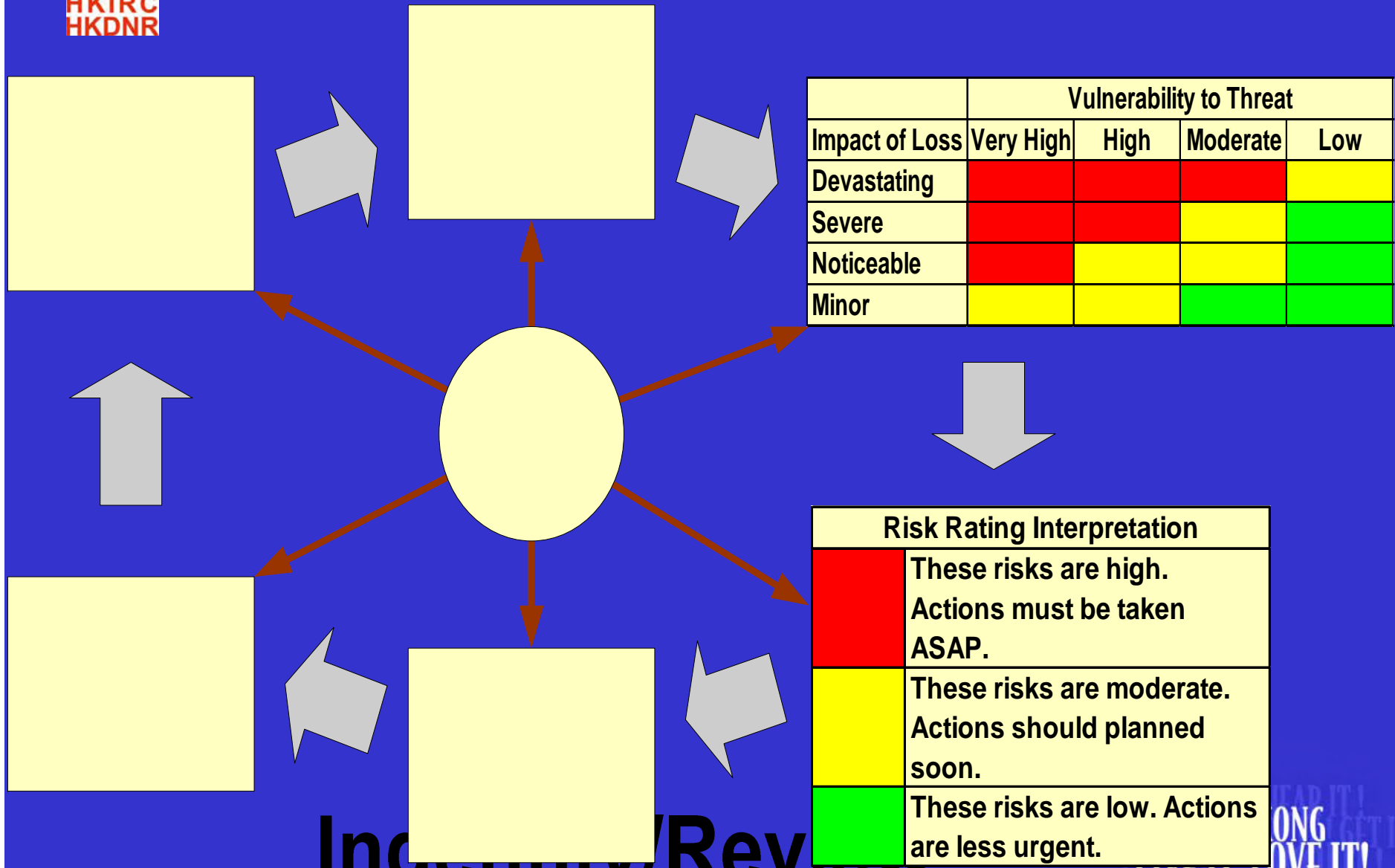
Impact of Loss	Vulnerability to Threat			
	Very High	High	Moderate	Low
Devastating	🟥	🟥	🟥	🟨
Severe	🟥	🟥	🟨	🟩
Noticeable	🟥	🟨	🟨	🟩
Minor	🟨	🟨	🟩	🟩

Risk Rating Interpretation	
🟥	These risks are high. Actions must be taken ASAP.
🟨	These risks are moderate. Actions should planned soon.
🟩	These risks are low. Actions are less urgent.

Identify/Review Business

Risk Assessment and Security Audits

- Risk assessment - once a year
  - Any new business objectives?
  - Any new risks? New threats?
  - Reassess gaps
- External audit – once every two to three years
  - Conduct audit by an independent party

Future

- Do we need an Internal Audit role and team?

- Implement DNSSEC?
  - Solution to the Zone walking problem (NSEC3)?
  - Solution to Dynamic DNS update with DNSSEC?
  - Signing the IANA Root?
  - Tools availability (BIND support NSEC3 with dynamic update)?

- Implement real-time security access detection and notification

New "Face" for '.HK'

- Re-branding
  - Raise awareness of the '.hk' brand among target audience (MNCs, SMEs and youth)

- Tagline
  - **Netting the World**
  - 聯繫全球 互動全城

- Logo
  - Representing Connecting、Dynamic and Leadership

18

New Governance Structure

Background

- HKIRC was designated by the HKSARG in 2002 to administer the '.hk' domain names
- After 5 years of operations, HKSARG felt that it was a good time to review the institutional framework based on the experience gained within that 5 years.
- HKSARG engaged an external consultant to conduct the review in 2006. Key stakeholders were contacted by the consultant to solicit their views.
- The findings and recommendations of the consultant were put up for public consultation in May 2007.
- Based on the submissions received, HKSARG was of the view that the public was in general supportive of the changes proposed in the consultation paper.
- HKIRC started to implement the changes in early 2008 and, in particular, to implement the new membership classes and Board structure by the AGM in 2008.
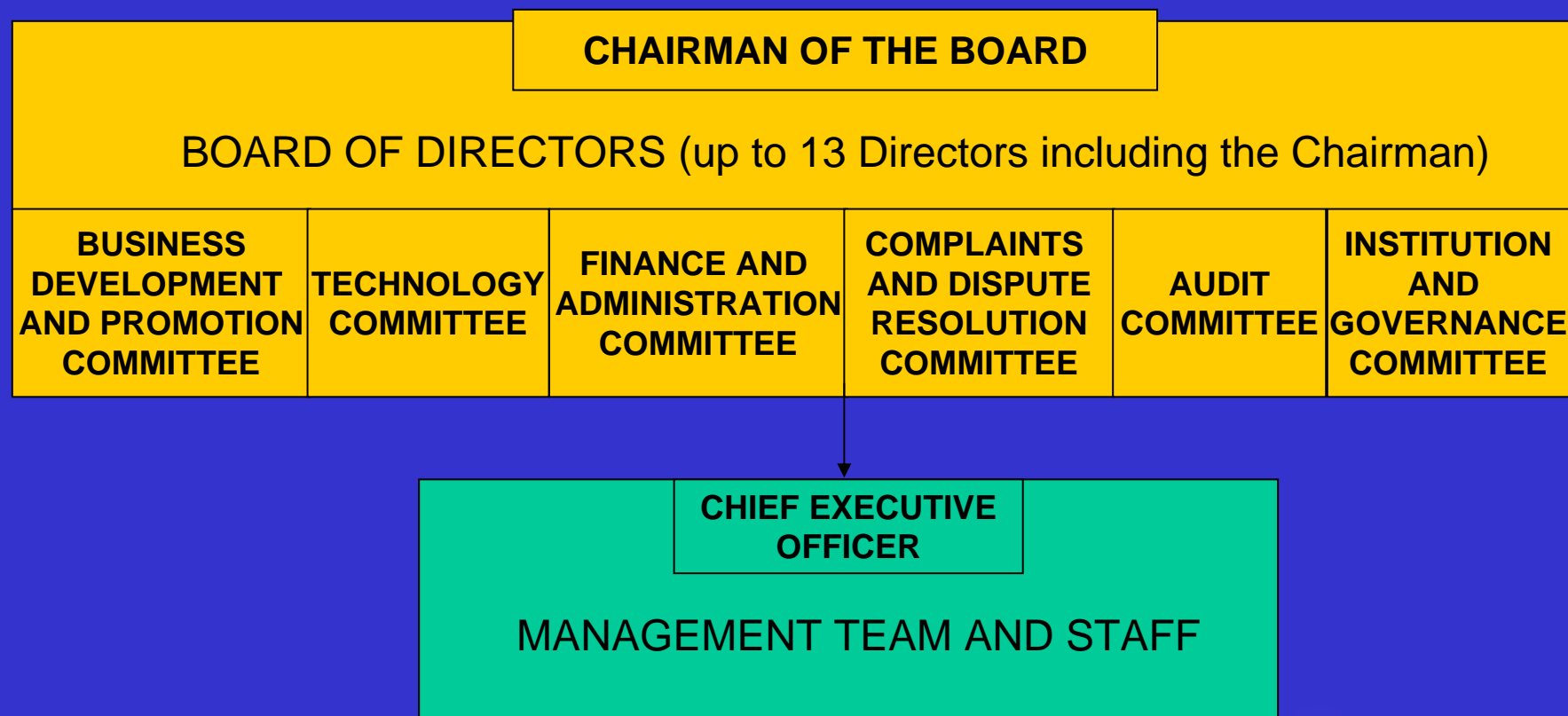
HKIRC Board of Directors

Commerce & Industry Class	• 1 Seat
User Class	• 6 Seats
Service Provider Class	• 2 Seats
IT Industry Class	• 2 Seats
Tertiary Institution Class	• 1 Seat
Government Class	• 1 Seat

Current Governance Structure

CHAIRMAN OF THE BOARD					
BOARD OF DIRECTORS (up to 13 Directors including the Chairman)					
BUSINESS DEVELOPMENT AND PROMOTION COMMITTEE	**TECHNOLOGY COMMITTEE**	**FINANCE AND ADMINISTRATION COMMITTEE**	**COMPLAINTS AND DISPUTE RESOLUTION COMMITTEE**	**AUDIT COMMITTEE**	**INSTITUTION AND GOVERNANCE COMMITTEE**

CHIEF EXECUTIVE OFFICER

MANAGEMENT TEAM AND STAFF

NOTES
1. **Conveners and members of all Committees are taken up by Directors on the Board**
2. **The Board is elected annually at the Annual General Meeting**

New Governance Structure

Before AGM 2008 (~ Sep)

Board – 13 Directors	
1	Commerce & Industry
2	IT Industry
1	Government (appointed)
2	Service Provider
1	Tertiary Institution
6	User

After AGM 2008 (~ Dec)

Consultative and Advisory Panel (CAP)	
1	HKSARG Representative
~13	Invited by HKSARG

+

Board – 8 Directors	
4	Appointed by HKSARG
2	Demand Class
2	Supply Class

- There will be supply and demand class only, replacing the existing six classes
- The new Board will consist of 4 Directors appointed by the HKSARG and 4 elected Directors, 2 from Supply class and 2 from Demand Class
- Establishment of CAP (Consultative and Advisory Panel)

HONG KONG
LIVE IT. LOVE IT!

Updates on '.HK'

Q & A

Updates on '.HK'

THANK YOU!!

Updates on '.HK'

Contact HKIRC

Tel: +852 2319-1313
Fax: +852 2319-2626
E-mail: enquiry@hkirc.hk
Website: www.hkirc.hk

Updates on '.HK'

Disclaimer

This document carries no legal authority. The arrangement mentioned in this document is subject to change at any time by HKDNR and shall not be deemed to be the final arrangement. Hong Kong Domain Name Registration Company Limited shall not be held responsible for any consequences caused by any omissions, inaccuracies or future changes of the arrangement.