



Multiple party cooperation helps to advance SPI activities

(for SEPG Japan 2005)

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- ❖ SPI activities in Taiwan
 - Motivation and background
 - The industrial activities
 - The government programs
 - The efforts in universities



Taiwan and its ICT status



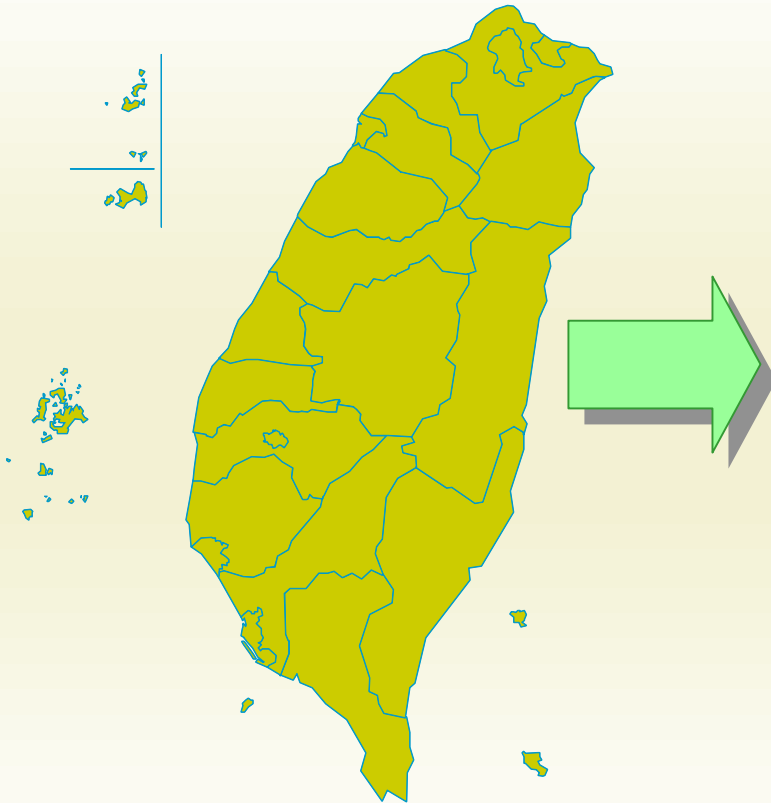
Taiwan Profile



- *Land Area*
 - 36,000 KM²
- *Population*
 - 22.6 million
 - (51.23% resided in metropolitan areas)
- *Household*
 - 7.05 million
- *per capita income*
 - US\$ 14,216
- *PC penetration (household basis)*
 - 81.4%
- *CATV home pass*
 - 84.8%



Current Status of Taiwan ICT Industry



- ❖ World's 4th largest IT hardware producer (Ranked 3rd as including production in China)
- ❖ Ranked first in worldwide market share for more than 10 ICT products
- ❖ A major procurement center for global IT companies
- ❖ Much IT production moving to China
- ❖ 2nd largest LCD industry and 4th largest semiconductor industry in the world
- ❖ 95% mobile phone penetration rate

e-Taiwan Vision

NICI

Knowledge Based
Economy

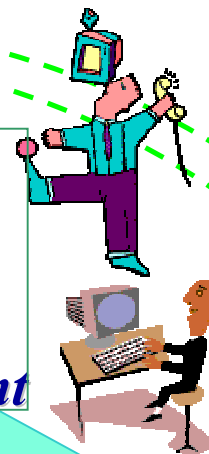


High-Tech
Service Island

e-Taiwan

with

US\$ 11 Billion Investment



Green Silicon
Island

**Competitive
Industry**

Best supports to
its industry to
stay competitive

e-Industry

**Effective
Government**

One-stop
services to
its citizen

e-Government

**Bridging
Digital Divide**

Equal & Optimum
opportunity to its
citizen

e-Opportunity

**Information-rich
Society**

Best information
available
to its citizen

e-Society

**Advanced
Telecomm network**
Broadband to every family

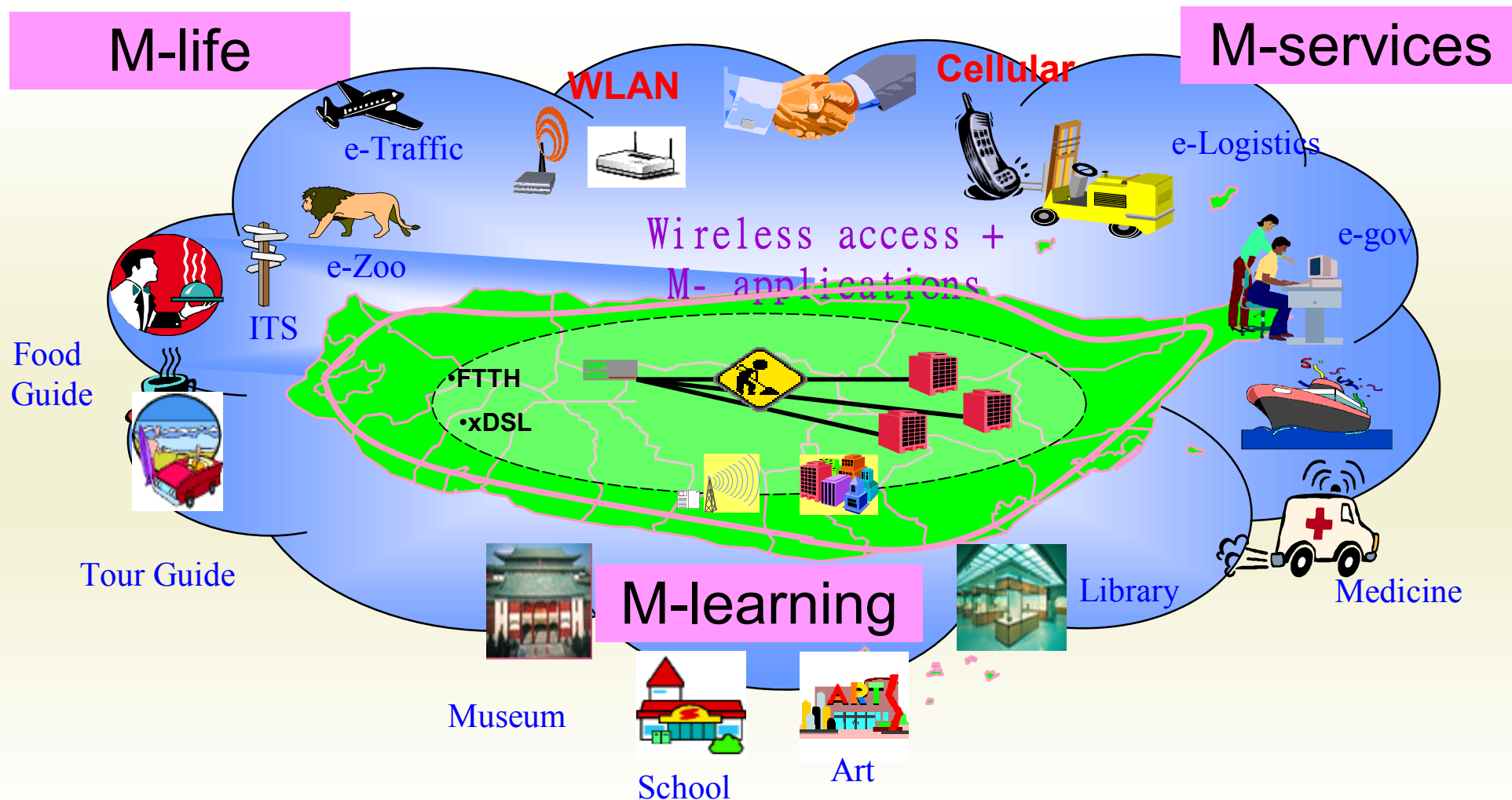
Infrastructure

GII
NII

NII
GII























M-Taiwan Vision



Any where, any time, any one to enjoy Broadband/Wireless services



Taiwan's Competitiveness

Country		2002	2003	2004	Country		2002	2003	2004
	Finland	1	1	1		United Kingdom	11	15	11
	United States	2	2	2		Netherlands	13	12	12
	Sweden	3	3	3		Germany	14	13	13
	Taiwan	6	5	4		Australia	10	10	14
	Denmark	4	4	5		Canada	9	16	15
	Norway	8	9	6		United Arab Emi	-	-	16
	Singapore	7	6	7		Austria	18	17	17
	Switzerland	5	7	8		New Zealand	15	14	18
	Japan	16	11	9		Israel	17	20	19
	Iceland	12	8	10		Estonia	27	22	20

Source : WEF/The Global Competitiveness Report, 2004~2005 Institute for Information Industry



SPI activities in Taiwan

- ❖ Motivation and background
- ❖ The industrial activities
- ❖ The government programs
- ❖ The efforts in universities



Global IT spending

Unit: Billion USD

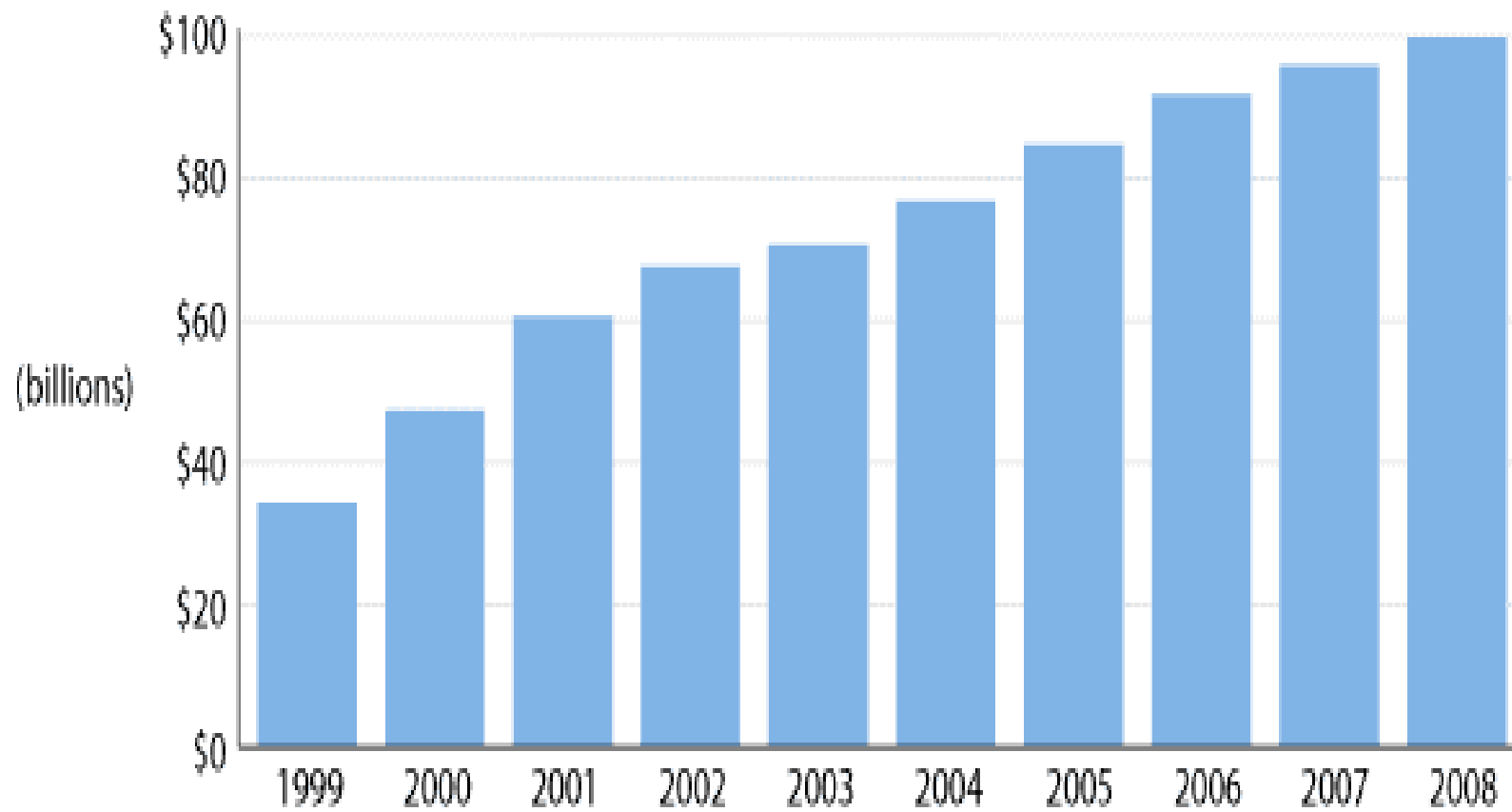
		2002	2003	2004	2005	2006	2007	'02-'07 CAGR
Hardware	Amount	318.7	320.7	335.5	345.3	354.8	356.2	-
	Growth Rate	-3.3%	0.6%	4.6%	2.9%	2.8%	0.4%	2.2%
Software	Amount	73.5	76.1	82	88.7	96.3	103.3	-
	Growth Rate	-0.7%	3.5%	7.7%	8.2%	8.5%	7.3%	7.1%
IT Service	Amount	556.9	591.5	633.6	682.8	736.7	787.1	-
	Growth Rate	2.8%	6.2%	7.1%	7.8%	7.9%	6.8%	7.2%

Source: Gartner Group, 2003



US IT outsourcing

US spending on IT outsourcing



Source: Forrester Research, Inc.

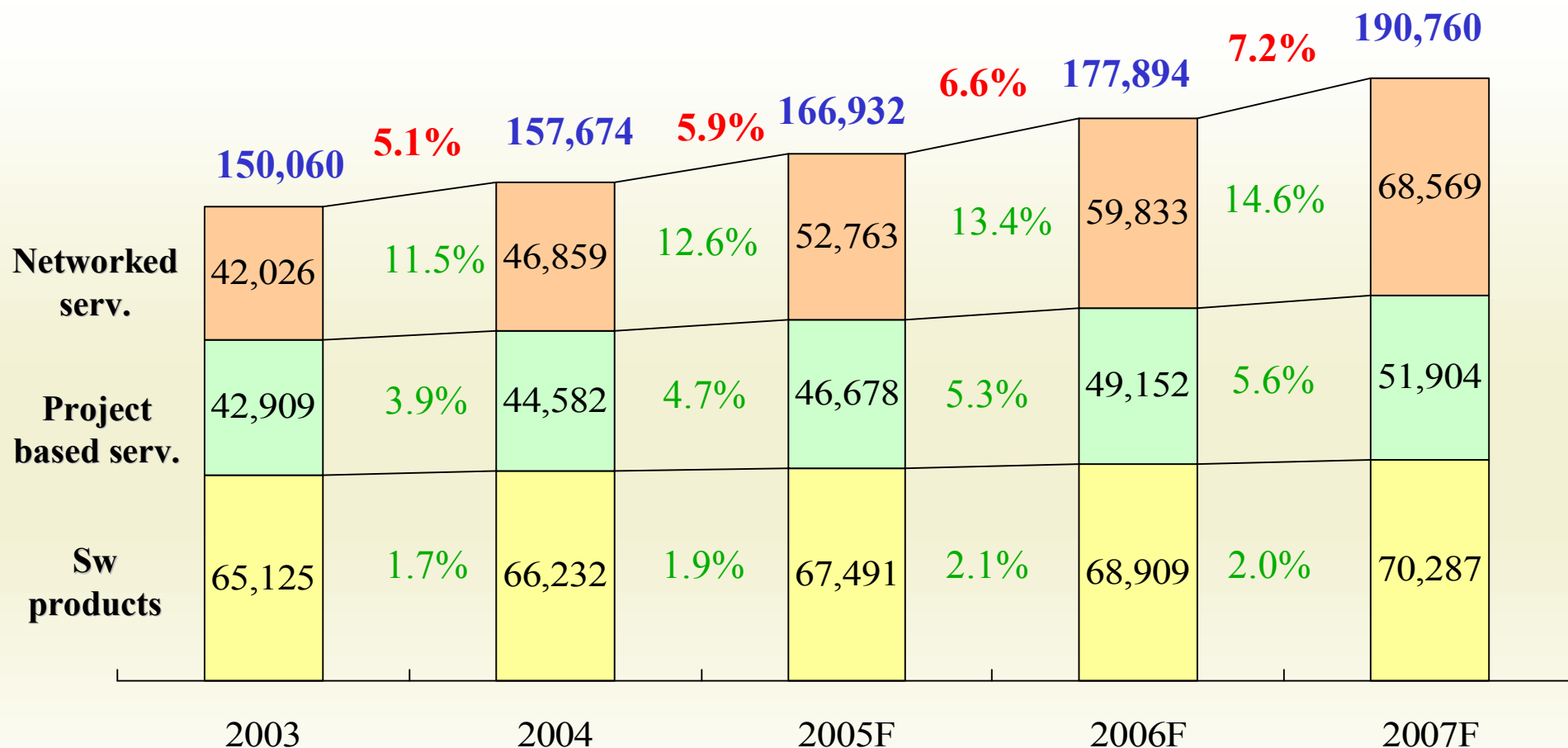


Top 10 IT Service Providers in Asia/Pacific and Major ASEAN Countries, 2003

Japan	Asia/ Pacific	Taiwan	Malaysia	Thailand	Indonesia	Singapore
Fujitsu	IBM	IBM	IBM	IBM	IBM	IBM
IBM	HP	HP	HP	HP	Metrodata	NCS
Hitachi	EDS	Systemx	Accenture	BearingPoint	Sigma Cipta Craka	HP
NTT Data	Samsung	III	HeiTech Padu	CDG Group	HP	SCS
NEC	CSC	Mitac	CSA Holdings	Accenture	Accenture	Accenture
Toshiba	LG CNS	Acer	EDS	Loxley	Astra Graphia	Oracle
CSK	Fujitsu	EDS	Sapura Telecomms	SVOA	Silverlake	EDS
Nihon	Accenture	Stark Technologys	Mesiniaga	Siemens Networks	Siemens Networks	CSA Holdings
Unisys	SK C&C	Oracle	Silverlake	Oracle	Schlumberger -Sema	Frontline
Nomura Research	Oracle	Accenture	Fujitsu	SAP	SAP	NCR

Source: Gartner Dataquest, Sept 2004

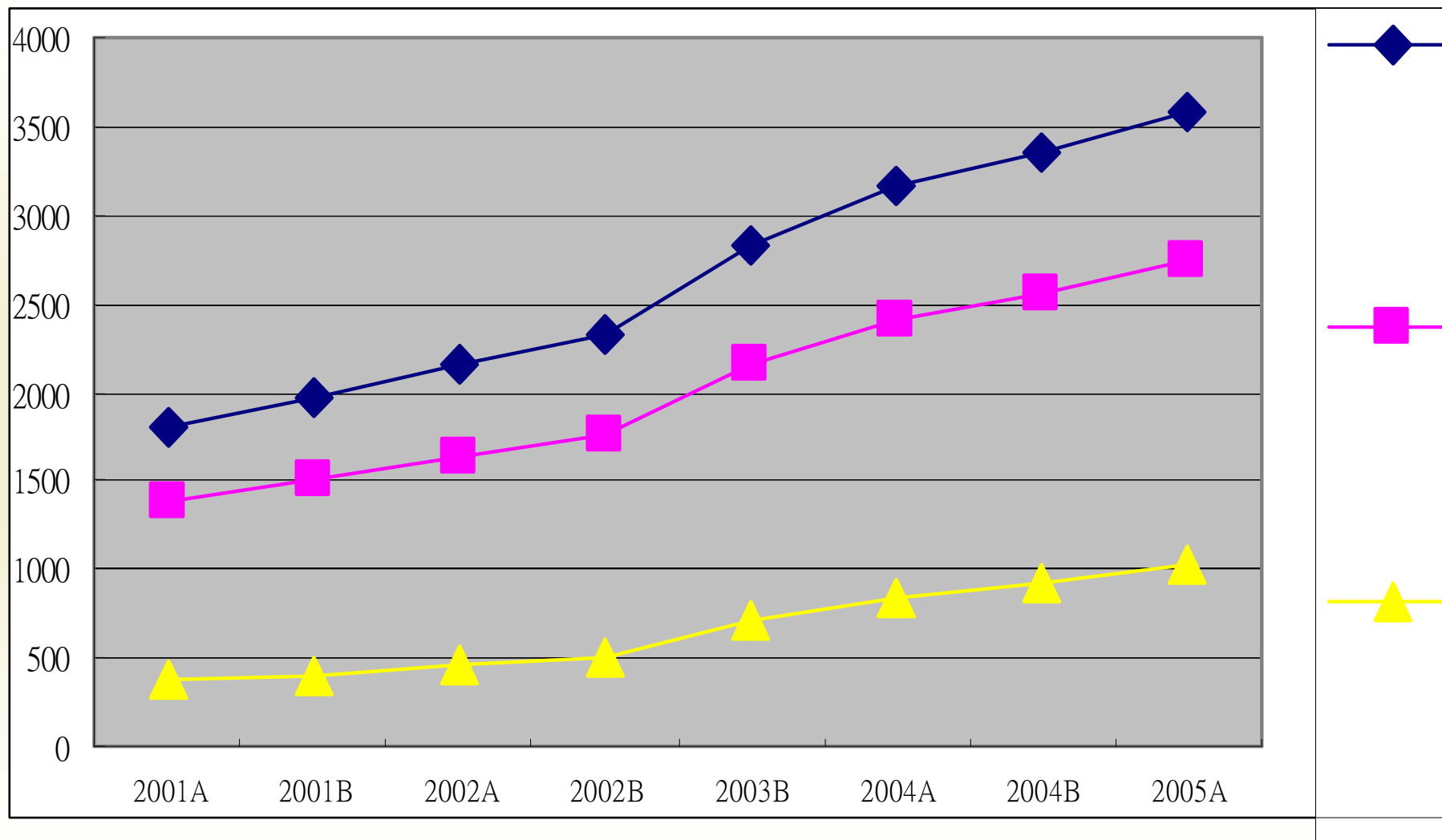
Information service market – Taiwan



Source: MIC-III, Jan. 2005



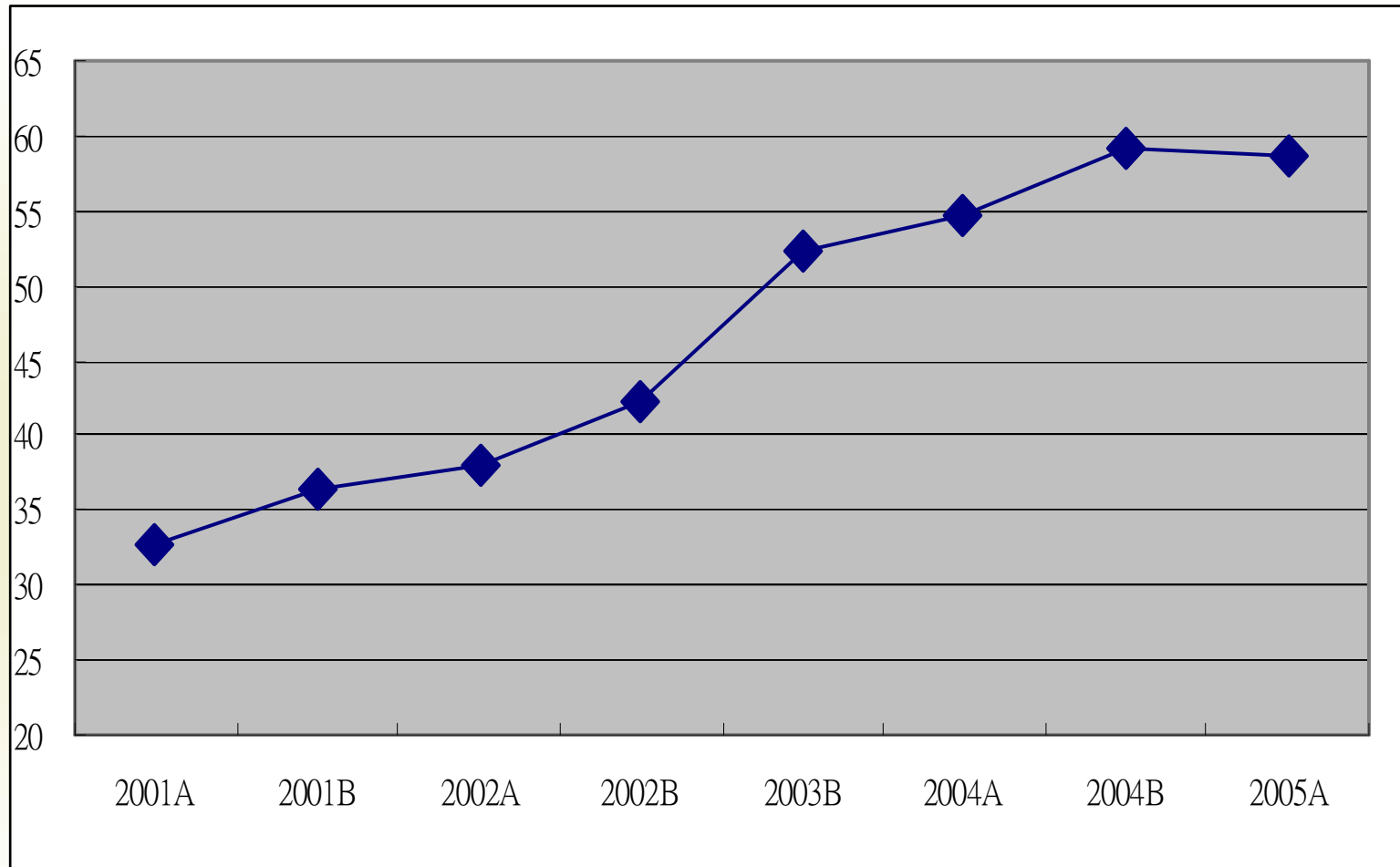
Accumulated CMM assessments



Source: IEI-III, Aug. 2005



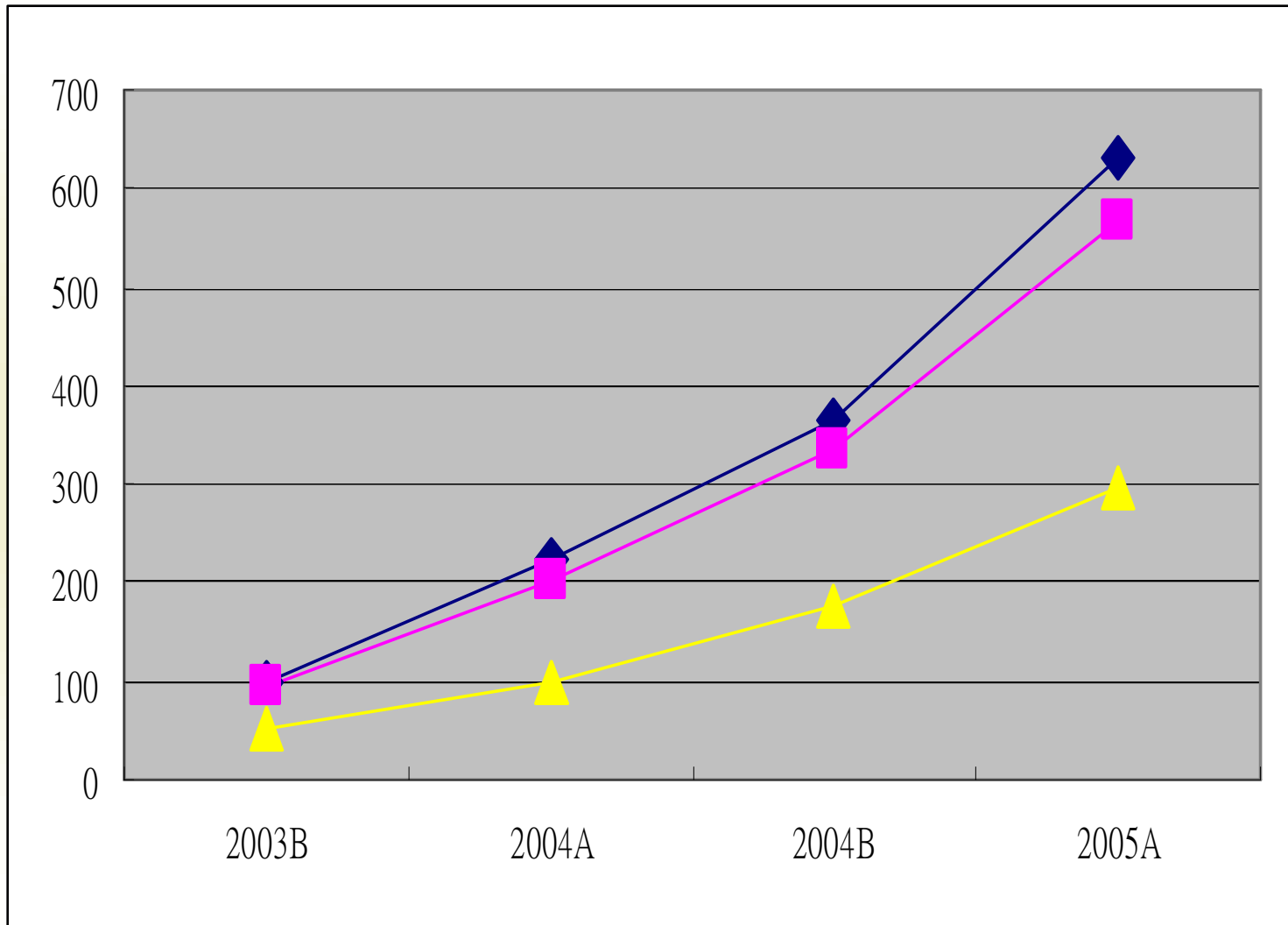
% of Non-US CMM assessments



Source: IEI-III, Aug. 2005



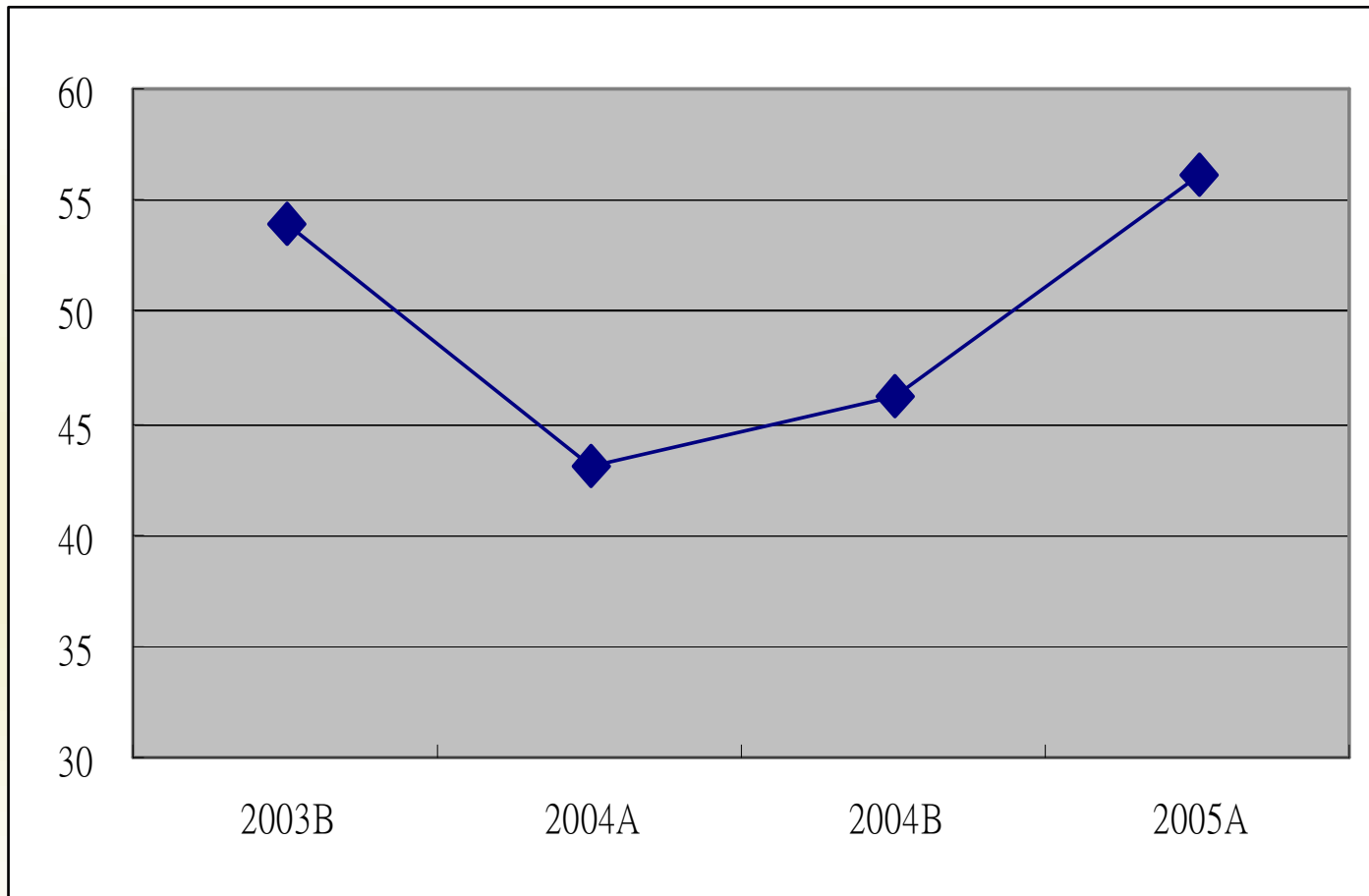
Accumulated CMMI appraisals



Source: IEI-III, Aug. 2005.



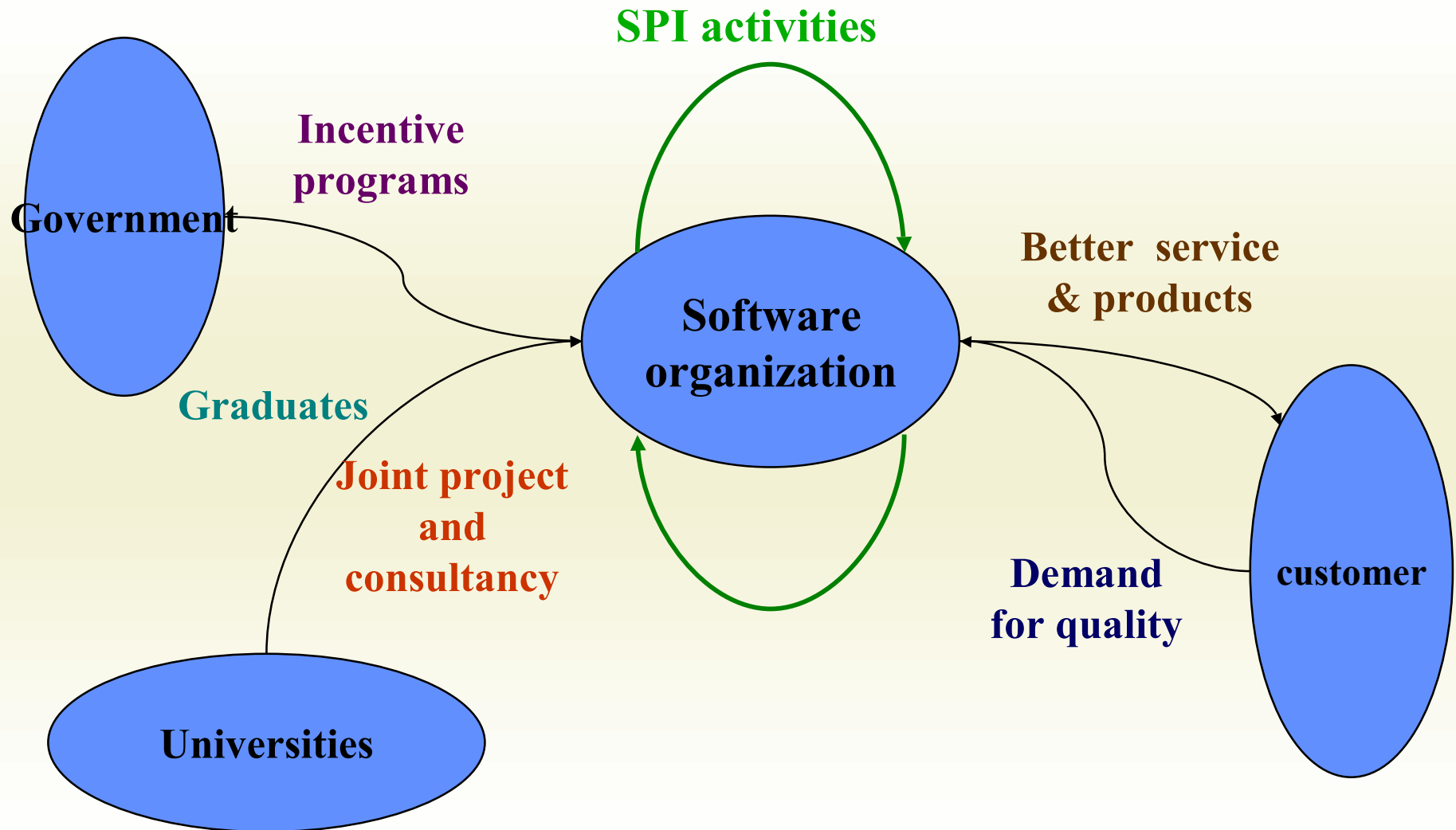
% of Non-US CMMI appraisals



Source: IEI-III, Aug. 2005



Multiple parties in SPI activities





Industrial activities

- ❖ **Translate CMMI V1.1 into Chinese**
- ❖ **Publish guidebooks for implementing CMMI L2 and L3**
- ❖ **Organize and operate SPIN-Taiwan, Spin-STW**
- ❖ **Hold a series of seminars and workshops**
- ❖ **Participate resident-affiliate program of SEI**
- ❖ **Organize and host “CMMI Workshop Taipei 2004,”
with participants from 6 Asia Pacific countries**



Government programs

❖ MOEA (Ministry of Economic Affairs)

- Awareness of CMMI
- Sponsorship of R/D and guidebook publication
- Assistance program for industries

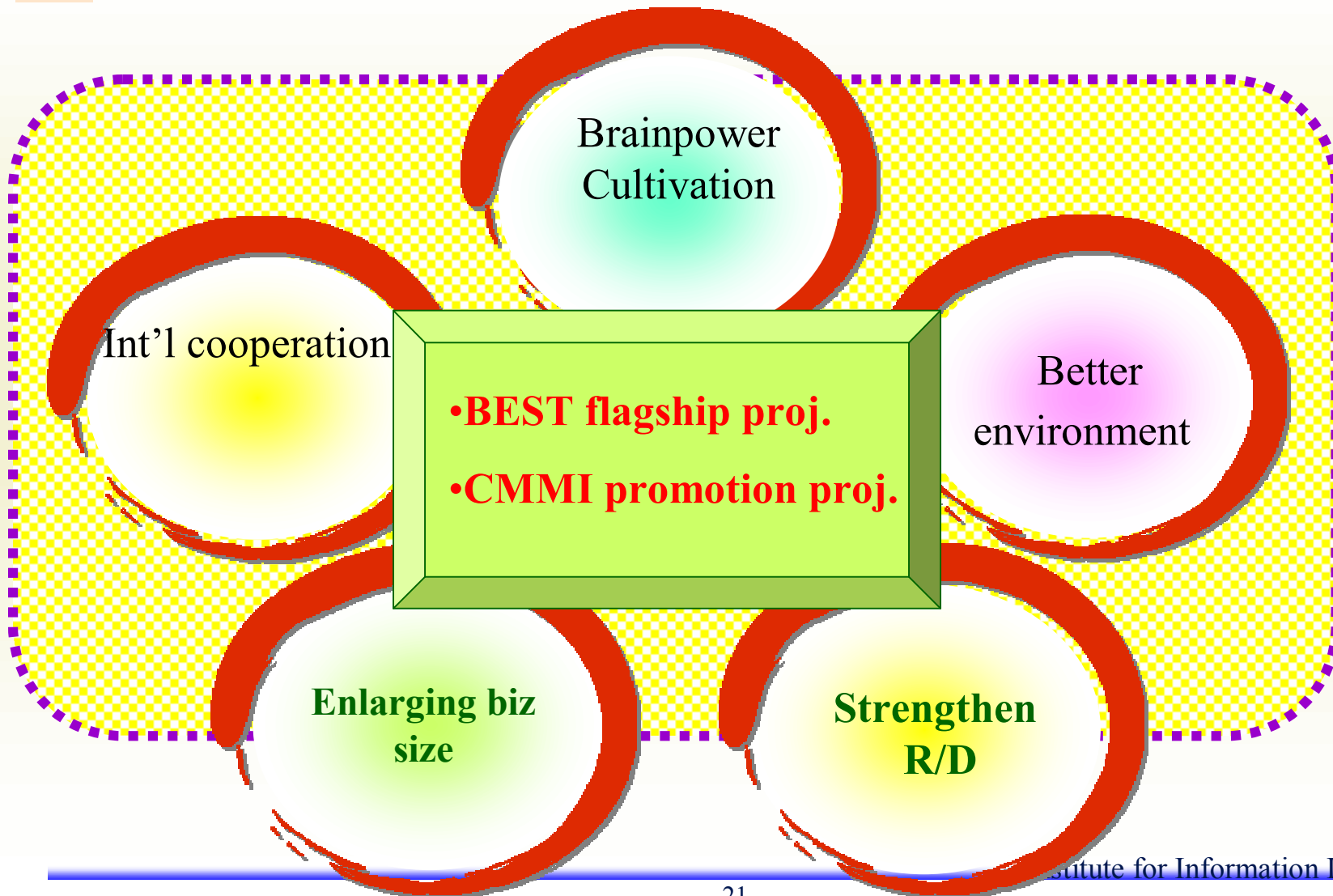
❖ MOE (Ministry of Education)

- Review and amendment to software engineering curriculum

❖ Other administration measures



Advancing information service industry





Efforts in the universities

- ❖ Many universities include courses of process management into the curriculum
- ❖ Professors act as speakers in industrial seminars
- ❖ Professors participate and provide consultancy to the interested entities
- ❖ Participation in the software engineering education alliance, under the sponsorship from the MOE



Achievements

- **No. of organizations rated**
Level-3 — 3

Level-2 — 15
- **Increasing No. organizations planning and adopting**
- **Graduates of Intermediate course: 14**
- **Graduates of Introduction to CMMI: ~250**



Achievements (continued)

❖ No. of authorized appraiser and instructors

- Lead Appraiser — 1
- CMMI Instructor — 2
- TSP/PSP Instructor --- 2

❖ TSP/PSP training

- Introduction to personal process held in May/2005
- Other courses to be offered:
 - Managing TSP teams
 - PSP engineers I and PSP engineers II



Summary

- ❖ It is important to Upgrade software quality and productivity
- ❖ Multiple party cooperation is a good approach for SPI activities
- ❖ Much still remains to do
- ❖ Eager to exchange and learn from you



Thank you