11th World Telecommunication/ICT Indicators Symposium (WTIS-13)

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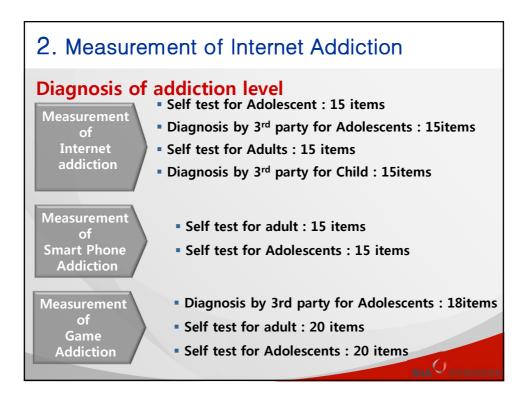
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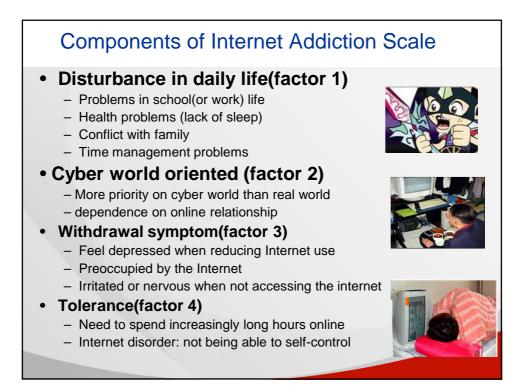
SOURCE: National Information Society Agency, Korea (Rep. of)

TITLE: Measurement of Internet Addiction









Intern	et Addiction Scale for Adolescent(10 to	19)			
Factor	Item	Stron gly agre e	Dis agre e	Agre e	Stron gly disag ree
	1. My health has been deteriorated due to the excessive Internet use	1	2	3	4
	5. I have had a headache because of the excessive use of the Internet	1	2	3	4
1 Disturbance in daily life	9. I often have not completed the tasks I had planned due to excessive use of the Internet	1	2	3	4
	12. I have lied about my Internet usage hours	1	2	3	4
	15. I have to spend more money because of the excessive use of the Internet	1	2	3	4
2 Cyber space	2. I am recognized more online than offline	1	2	3	4
oriented	6. I feel comfortable more with the people I meet on the Internet than those I meet in real life	1	2	3	4
	3. My life will be boring and uninteresting without the Internet	1	2	3	4
3 Withdrawal	7. I get restless and nervous when I cannot get on the Internet	1	2	3	4
symptom	10. I do not get anxious even after not accessing the Internet for a while.	4	3	2	1
	13. I can easily forget about the Internet when I am not on the Internet	4	3	2	1
	4. Whenever I get off the Internet, I want to go on it again	1	2	3	4
4 Tolerance	8. I try to reduce my Internet hours, but I fail	1	2	3	4
4 Tolerarice	11. I keep on thinking that I need to cut my Internet hours	1	2	3	4

Inte	ernet Addiction Scale	e (for adolescent)
Crite	eria for Measuring Internet	Addiction(adolescent)
Category	Elementary School Students	Middle & High School Students
High Risk Addicts	Over 42 points in total score or (over 14 points in factor 1 and over 13 points in factor 3 and over 13 points in factor 4)	Over 44 points in total score or (over 15 points in factor 1 and over 13 points in factor 3 and over 14 points in factor 4)
Potential Addicts	39-41 points in total score or over 13 points in factor 1 or over 12 points in factor 3 or over 12 points in factor 4	41-43 points in total score or over14 points in factor 1 or over 12 points in factor 3 or over 12 points in factor 4

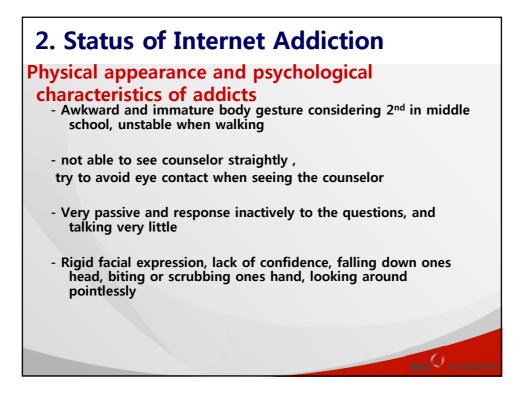
Int	ernet Addiction Scale for Adult(20 to 49)				
Factor	Item	Stron gly agree	agr	Agree	Strongly disagree
	1. My school grades(or work productivity) dropped due to excessive use of the Internet	1	2	3	4
1 Disturbas	5. Because of my Internet use, I get too tired and fall asleep during class(or work)	1	2	3	4
Disturban ce in daily life	6. I often have not completed the tasks I had planned due to excessive use of the Internet	1	2	3	4
ually me	10. I don't use the Internet to the point of getting tired	4	3	2	1
	13. I do finish the tasks I had planned even spending long hours for doing the Internet	4	3	2	1
2 Cyber space	2. I feel confident more and more while doing the Internet	1	2	3	4
oriented	7.I feel good and get easily excited when I am on the Internet	1	2	3	4
3	3. When not accessing the Internet, I cannot concentrate my tasks because I get curious about what is going on in the Internet	1	2	3	4
Withdraw	8. I get irritated when things don't go well when I am on the Internet	1	2	3	4
al symptom	11. I get restless and nervous when I cannot get on the Internet	1	2	3	4
symptom	14. I do not get anxious even after not accessing the Internet for a while.	4	3	2	1
4	4. While telling myself "I should get off the Internet" but I always fail to carry it out.	1	2	3	4
Toleranc	9. I can control my Internet usage hours.	4	3	2	
e	12. When I get on the Internet, I usually stay longer than planned	1	2	3	
	15. I always thinking about that I should cut my Internet usage bours.	1	2	3	4

	Inter	net Addiction Scale(for adult)	
C	riteria for M	easuring Internet Addiction(adult)
	Category	Criteria	
	High risk Addicts	Over 42 points in total score or (over 14 points in factor 1 and over 12 points in factor 3 and over 13 points in factor 4)	
	Potential addicts	39-41 points in total score or over 13 points in factor 1	
	Non- addicts	Less than or equal to 42 points	

Factor	Item (Scale for Child, observer rated)	Strong ly agree	Dis agree	Agree	Strong y disagr ee
	1. The child is on the Internet without eating, resting, or going to the restroom	1	2	3	4
1	6. The child uses the Internet even when he or she do other tasks to do	1	2	3	4
, Disturban ce in	9. The child cannot concentrate on his/her studies and is distracted due to the excessive Internet use	1	2	3	4
daily life	11. The child's life has become irregular due to the excessive use of the Internet s	1	2	3	4
	13. The child's weight has changed because of the excessive use of the Internet	1	2	3	4
2 Cyber	4. The child looks interested and lively only when he/she is on the Internet	1	2	3	4
space oriented	8. The child looks comfortable most when he/she is on the Internet	1	2	3	4
3	5. When not on the Internet, the child cannot concentrate on his/her own tasks and looks nervous	1	2	3	4
Withdraw al	7. When the child is not allowed to go on the Internet, he/she gets bored and uninterested	1	2	3	4
symptom	3. The child becomes nervous and irritated when he/she is not allowed to get on the Internet	1	2	3	4
	14. The child becomes angry or impatient when he/she is not allowed to get on the Internet	1	2	3	4
	10. The child has become insensible even to blood splashing scenes in computer game	1	2	3	4
4 Toleranc	12. The child promises to restrict his/her internet usage hours, but usually does not keep the promise	1	2	v	4
е	15. The child keeps his planned internet usage hours well 2. The child often pesters to get on the internet again come allor lightling.	4	3	2	1

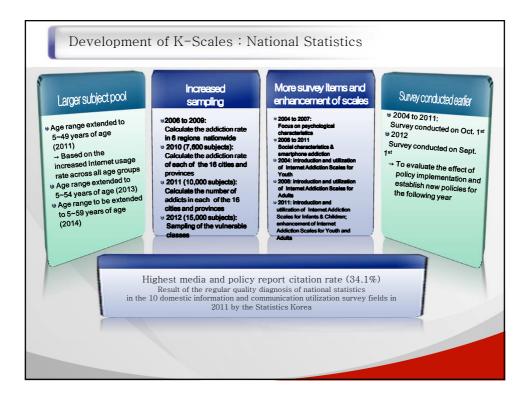
Inter	net Addiction Scale(for child)						
Criteria for M	Criteria for Measuring Internet Addiction(child)						
Category	Criteria						
High risk Addicts	Over 44 points in total score or (over 14 points in factor 1 and over 12 points in factor 3 and over 14 points in factor 4)						
Potential addicts	40-43 points in total score or over 13 points in factor 1 or over 11 points in factor 3 or over 13 points in factor 4						

	Characteristics of Internet Addicts
Category	Major Characteristics
High Risk Addicts	 Most of relationship are cyber-based Positive expectation on immoral activities such as hacking Illusion connected to the Internet even in real situation Perception of himself as addicts and difficulties in studying or working Psychologically unstable, difficulties in personal relations Lack of self control, high impulsiveness Withdrawal syndrome on Internet activities
Potential Addicts	 Slight difficulties on doing everyday lives Rising of Internet using hours, and dependency on Internet use Slight difficulties on school or work activities Most of them think they are not addicted Arising conflict with family members and co-workers Easily irritated when not connecting to the Internet Uncontrolled Internet activities and lack of confidence

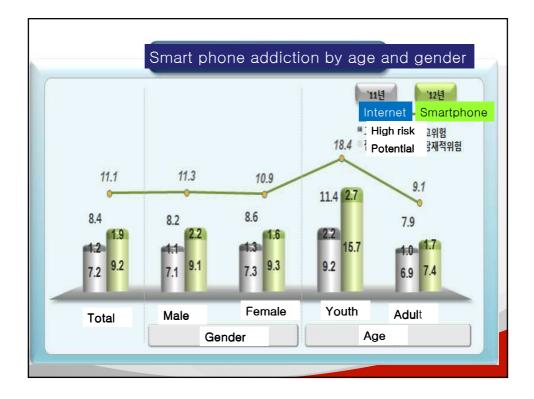


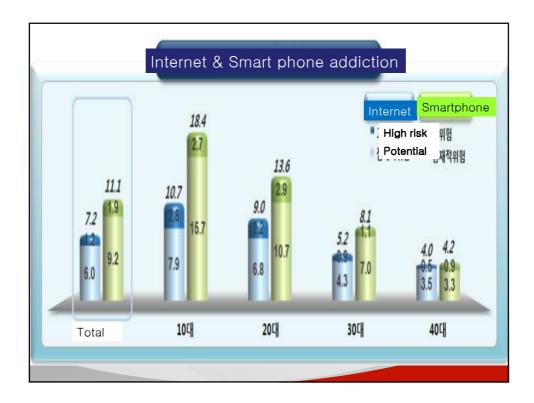
. Status	of Internet Addiction
tage to gr	ow to addiction
1stage Curiosity	 Visit chatting room, porno site, do game by curiosity Conduct all of ordinary lives through the Internet Habitual access to the Internet, tool as refleshment
	 tolerance, increased expectation to use Internet
2stage	 Pursue the satisfaction in the Internet which is impossible in real life
Substitute Satisfaction	 Express instincts such as violence, adventure, lewdness via Internet
Gatisfaction	Get respect due to excellence in game
3stage	 Want to connect the Internet all the time, withdrawal symptom Immersed into cyber-world, difficult to live in real life
Escape from	 real life Denial of real life's social order

K-So	cales	: Natio	onal Sta	itistics					
••he Internet	has b	been exter survey in	nded to a la 2004; it ha	arger subje as been co	ect pool an nducted ar	Planning, Na ad its conte anually for 2006) No. 1	ent improve 10 years (ed	••
Category	2004	2005	2006	2007	2008	2009	2010	2011	2012
Target subjects	at lea	he Internet ast once a nonth		Used the Int	ternet at leas	st once in the	past month		
Age group			9	to 39 years	of age			5 to 49 ye	ars of age
Survey regions				1	6 cities natio	onwide			
Sample size	2,000	3,000	3,500	5,500	5,500	6,500	7,600	10,000	15,000
Sampling method	stratifi sampli Interne regio	ti-stage led random ng from the et users by n, gender nd age	region, gen - Minimum 15 adoleso (2007) →	der and age assignment cents (2006)	(weighted sa per each sau) → 15 ado per region		d 5 adults	assignm power o Interne according	ortional ent to the of 0.4 of et users to region, and age
Sampling error (95% confidence level)	±2.7 %p	±1.8%p	±1.6%p	±1.32%p	±1.32%p	±1.22%p	±1.12%p	±0.98%p	±0.80%p
Survey method			Door-	to-door inter	view using s	tructured que	estionnaires		



Categor	112-01-02-01						ernet Addicti y age and gende					Internet addiction rate				
У	'08	'09	'10	'11	'12	'08	'09	'10	'11	'12	'08	'09	'10	'11	'12	
Total	1.6	1.5	1.4	1.7	1.5	7.2	7.0	6.5	6.0	5.7	8.8	8.5	8.0	7.7	7.2	
5-9				1.0	0.8				6.9	6.5				7.9	7.3	
9~12	1.5	3.2	3.4			10.9	7.9	10.6			12.4	11.1	14.0			
13~15	2.5	2.3	2.1	2.9	2.8	12.5	10.5	9.6	7.5	7.9	15.0	12.8	11.8	10.4	10.7	
16~19	2.8	2.1	3.5			13.1	12.5	7.9			15.9	14.6	11.4			
20~24	0.6	0.5	1.3	2.1	2.2	7.7	8.0	8.7	7.1	6.8	8.3	8.5	10.0	9.2	9.0	
25~29	1.8	1.2	0.9			6.0	6.4	5.5			7.8	7.6	6.3			
30~34	1.2	1.0	0.5	1.4	0.9	3.9	4.5	4.2	5.5	4.3	5.1	5.5	4.7	6.9	5.2	
35~39	1.4	1.2	0.2			3.4	3.3	3.1			4.8	4.5	3.3			
40-49				0.8	0.5				3.9	3.5				4.7	4.0	
male	1.7	1.9	1.6	2.2	2.0	8.4	8.2	7.4	6.9	6.5	10.1	10.1	8.9	9.1	8.5	
female	1.4	1.1	1.3	1.2	1.0	5.9	5.6	5.6	5.0	4.8	7.3	6.7	6.9	6.1	5.8	





	tatus of Intopion of the Series				ction('10)
	Category	Very Serious	Somewhat serious	1+2	Somewhat not serious	Never
	Total	24.0	59.8	83.8	14.9	1.3
Addition	Non-addicts	23.7	60.2	83.9	14.8	1.3
	Average of Internet addicts	27.9	54.2	82.1	15.9	1.9
	High risk addicts	31.4	59.0	90.4	9.6	-
	Potential addicts	27.1	53.2	80.3	17.3	2.4
Age	Adolescents	19.6	59.6	79.2	19.1	1.8
	Adults	26.1	59.9	86.0	12.9	1.1
Gender	Male	24.9	58.7	83.6	15.4	1.0
	Female	23.0	60.9	83.9	14.4	1.7

Category	Online Game	E-mail	Chatting / Messeng er	informat ion- seeking	Café/ Commu nity	Online shopping & banking	Mini homepage /blog	Adult material	Music & movies
High risk	63.3	9.1	47.3	71.7	9.1	27.7	13.3	3.5	35.5
Potential	55.1	14.6	41.0	73.6	9.9	28.6	17.8	1.6	31.3
Non- addicts	40.3	25.0	31.9	82.0	7.6	42.0	16.6	1.0	22.0
addicts o Addict	s are mor	re likely t	to use the l	nternet for	game, ch	atting, mus	16.6 ic & movies, non-addicts		22

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2.	2. Status of Internet Addiction												
Тур	Types of online game by gender/grade/year('09) (unit : %)												
		No online game	role playing	action/ shooting	simulation	casual	racing	sports	puzzle	board	Korean poker	poker	music play, others
year	2007	30.3	33.4	32.9	32.3	19.3	23.3	14.2	10.0	5.4	3.7	1.1	0.1
	2008	32.8	31.2	42.4	31.4	35.4	34.5	21.2	18.2	10.5	11.5	4.5	0.0
	2009	24.9	27.6	45.7	31.4	21.6	29.5	18.6	10.5	8.1	4.5	1.3	6.3
gender	Male	10.1	41.8	67.5	53.0	8.8	29.8	31.9	3.1	5.6	3.8	1.7	5.4
	Female	40.0	13.1	23.6	9.5	34.7	29.3	5.0	18.0	10.7	5.2	0.9	7.2
Age	Ele.	20.8	19.8	41.1	26.1	25.4	35.9	18.7	17.3	11.2	1.3	0.7	11.1
	Middle	21.9	33.6	54.2	37.4	20.1	31.3	17.7	8.3	6.9	4.8	1.3	4.2
	High	32.0	29.3	41.7	30.8	19.4	21.5	19.4	6.0	6.4	7.3	1.9	3.6
0	Game Action racing, More g	and Sl role p	hooting laying	g game are als	e are t o pop	he mos ular	st popu	ular, an	d incre				

2. Status of Internet Addiction Types of online game by gender/age/addiction('11) multiple respo										
		No online game	rol e playing	action/ shooting	1 person shooting	Strategy/ simulation	Web board game	Sports/ racing	Web game and social network	
year	Non addict	10.7	35.2	16.3	30.9	38.5	40.4	37.4	3.8	
	High risk	5.2	46.4	22.6	46.3	45.4	31.3	43.2	13.7	
	Potential	5.3	42.5	16.0	36.4	50.2	36.9	40.4	3.6	
gender	Male	7.2	40.6	17.4	35.2	46.2	36.8	37.1	3.8	
	Female	15.4	27.7	14.2	22.9	27.1	45.5	39.1	4.6	
Age	5-9	2.3	26.8	14.8	20.5	18.4	8.3	53.4	1.9	
	10-19	3.6	38.2	20.5	35.9	39.7	14.0	51.6	5.7	
	20-49	14.5	36.6	14.3	30.1	43.2	59.0	27.8	3.6	
Total			36.1	16.3	30.9	39.6	39.8	37.8	4.1	
	ale and the Y male are pre			-			-	NIA) Demonstration of	

2. Status of Internet Addiction

valuation of online game('09)								
	Not at all	disagree	Neutral	agree	absolutely			
Bad to health	16.5	17.2	33.0	25.4	7.9			
Lots of sexual contents	26.3	21.9	39.2	10.7	3.0			
Lots of violent contents	14.1	15.9	35.3	26.6	8.1			
Difficult to stop	22.2	25.2	26.4	21.0	5.3			
Beneficial	10.2	23.0	49.2	12.4	5.3			

O Negative attitude on online game (33.3 % said 'bad to health' 13.7% are 'lots of sexual contents', 34.7% said 'lots of aggressive contents' and 26.3% said 'difficult to stop' O only 17.7% said 'beneficial'

O More negative attitude on violence than sexuality

NIA O TREMANAN

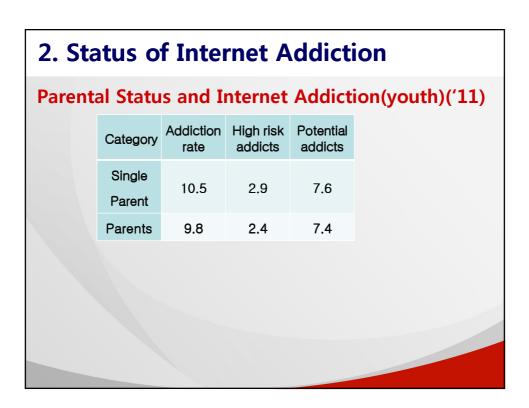
2	2. Stat	us of Intern	et Addio	ction		
F	louseho	old Income and	Internet A	ddictio	n(′11)	
		Category	Rate of Addiction	High risk	Potential	
	Monthly	Less than 1,000	8.3	3.9	4.5	
	househo Id	1,000 - less than 2,000	9.1	2.9	6.2	
	income(USD)	2,000 - less than 3,000	6.8	1.5	5.3	
		3,000 - less than 4,000	7.9	1.5	6.3	
		4,000 - less than 5,000	8.2	1.6	6.7	
		More than 5,000	6.4	0.8	5.6	

2.	Status	of	Internet Addiction
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Occupation type and Internet Addiction('11)

	Category	N of cases	Rate of Addiction	High risk	Potential
Occup	Profession/manager	452	4.2	0.4	3.9
	Office workers	2,117	5.4	0.8	4.6
	Service/sales	1,700	6.7	1.4	5.3
	Agriculture/forestry/fi shery	53	2.5	-	2.5
	Manufacturing/Operat ion	642	8.2	2.7	5.5
	Housewife	1,065	6.1	1.2	4.9
	Students(adult)	3,704	10.3	2.4	7.9
	unemployed	67	10.1	6.0	4.1

_		a tus o I Status						dults)('1	1)
		Catedory		ction .te	High risk addicts	Potential addicts			
		Unmarried	8	.7	2.0	6.6			
		Married	5	.7	1.0	4.7			
	Housel (youth	nold type & unma	e Ma rriec	rital Ladu	Status a ult)('11)	nd Inter	net /	Addiction	
	(Category		Addiction rate		High risk addicts		Potential addicts	
	Extended household			7.1	1.6		5.5		
	Nuclear household			9.6		2.2		7.4	
	1 person household			9.1		3.3		5.7	



2. Sta	2. Status of Internet Addiction									
Inter-racial marriage and Internet Addiction(youth)(
	Category	Addiction rate	High risk addicts	Potential addicts						
	Inter-racial marriage	11.1	2.7	8.4						
	Non inter- racial	9.7	2.4	7.3						
Dual	earner an	d Interne	t Addictio	on(youth)	('11)					
	Category		High risk addicts	Potential addicts						
	Dual earner	10.4	3.0	7.4						
	Single earner	9.3	1.9	7.4						

2. Status of Internet Addiction									
Use of Smart	phone and	Internet A	Addiction('11)					
Category		Addiction rate	High risk addicts	Potential addicts					
Tabal	User	9.1	2.1	7.0					
Total	Non-user	6.8	1.5	5.3					
Vouth	User	12.7	3.3	9.4					
Youth	Non-user	9.7	2.8	6.9					
۸	User	8.6	1.9	6.7					
Adult	Non-user	5.4	1.0	4.4					

