







infollutionZERO: Shaping Policy towards a Green Digital World

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The Power of ICT Education Policies

"The role of ICT in education is to support teaching and learning practices, enhancing the ways through which educators can nurture human potentials"

- Provide a platform for sharing policy, experiences, good practices, and lessons;
- Strengthen the network of ICT in Education stakeholders and policy makers in member states;
- Raise awareness of some of the useful tools through participatory workshop sessions to help Member states build capacity in developing robust ICT policies;
- Initiate focused reflection on key issues and concerns on ICT for education as well
 as future activities on the application of ICT to achieve education for all.











infollution = information + pollution

THE NEXT-GENERATION OF POLLUTION

Violent Video Game





Viral Rumors

Technology Addiction































Virus in the Body

Infollution













The New york Times

Published: September 29, 2010

Private Moment Made Public, Then a Fatal Jump

The Telegraph 10:36AM BST 19 Jul 2012

Taiwan teenager died after playing computer game nonstop for 40 hours

H The Korea Herald 2012-09-03 19:49

Online pedophile communities operate unchecked

The recent kidnapping and rape of a 7-year-old girl has highlighted the danger of online communities of possible pedophiles running unchecked on the Internet.



Nov. 19, 2007

Parents: Cyber Bullying Led to Teen's Suicide











We urgently need solutions

Children start using the internet and video games from 3 years old



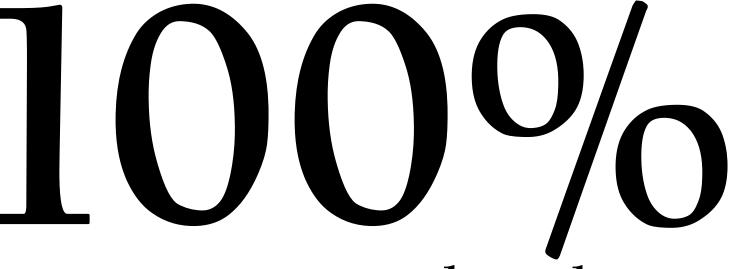












Use Swear words in their everyday language











First exposed to obscene materials before the age of 12









Cyber-bullied others on the internet













Have played violent online games rated R





Habitually post malicious comments









Sexual crime offenders under 19







Juvenile sexual crime offenders who imitated online porn









Have spread false information or obscene material











Addicted to the internet or online games













Precious lives are lost every day





















Digital world is our world











Internet Regulatory Framework











"The focus should be to work within teenagers' cultural frame, encourage empathy and help young people understand when and where drama has serious consequences.

Interventions must focus on positive concepts like healthy

relationships and digital citizenship rather than starting with the negative

framing of bullying. The key is to help young people feel independently

strong, confident and capable without first requiring them to see themselves as

either an oppressed person or an oppressor."

-Microsoft Research, 2011

www.nytimes.com





China Will Have Nearly Twice the Number of

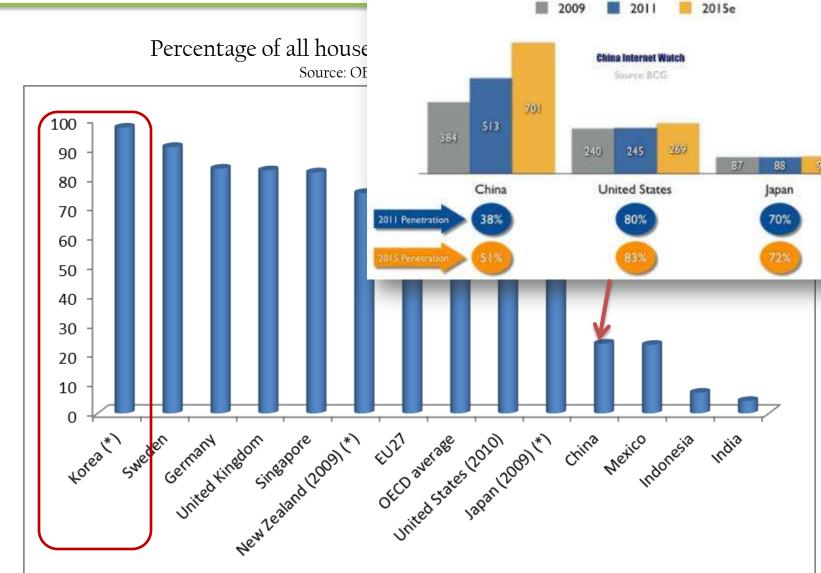
Internet Users as the U.S. and Japan





PEARSON J.P.Morgan













PEARSON J.P.Morgan

Case Study: Overview of Internet-related Government Regulations in South Korea

Ministry	Policies	Year	Impacts	
Ministry of the Gender Equality & Family	Cyber Ethic Index	2005	+) New quantitative measure for youth protection from cyber dangers -) Failed due to lack of ISP participation	
	Online Game Shut-down Law	2011	+) Initiative to reduce internet/video game addiction among	
Ministry of Culture, Sports and Tourism	Selective Online Game Shut- down Law	2012	youth -) Not successful due to resistance from game industry and game consumers -) Not effective due to lack of technical and systematic regulation -) Reverse discrimination against foreign game companies	
Korean Communications Commission	Limited Personal Identification Law (Internet Real name usage law)	2011	 Abolished by the Constitutional Court Not effective and has raised privacy concerns 	
	Youth Protection Officer Law	2001	+) Imposes corporate social responsibility on large ISP companies -) No regulation towards small and medium size ISPs	
	Cyber Insults Restriction Law	2008	-) Conflicts with Freedom of Speech -) Criticized as abuse by government authorities	
	Prohibited Language Law	2004	-) Not effective.	
	Mobile App Regulation	In plans	+) Gov. seeks to filter inappropriate contents -) Conflict with Freedom of Speech	



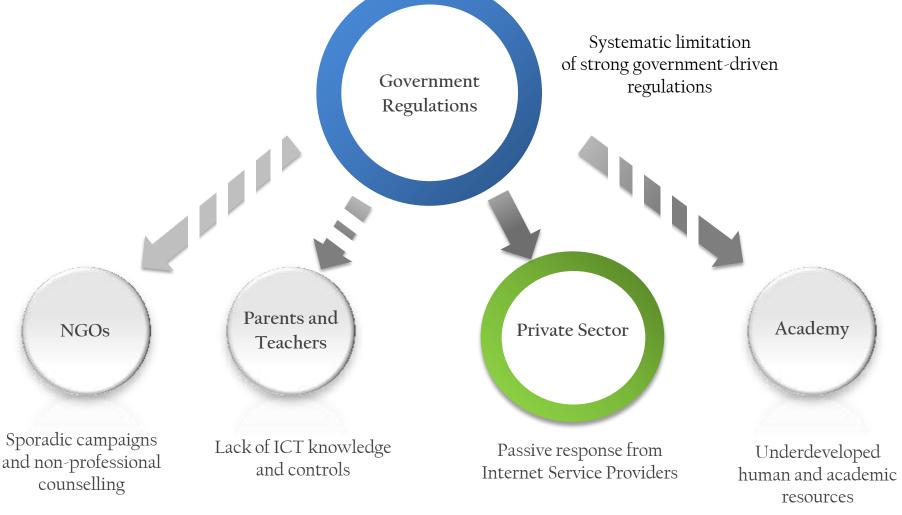








Case Study: Limitation of Internet-related Government Regulations in South Korea







Parents and

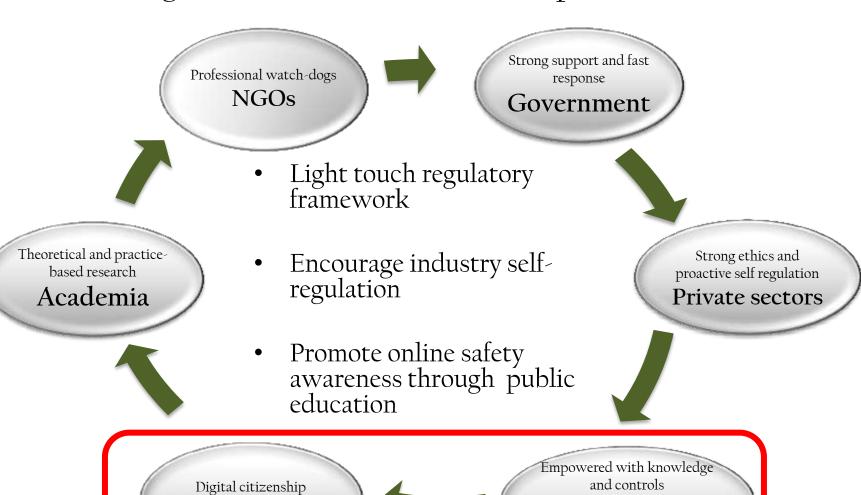
Teachers







Building Green Digital Culture through collaborative effort of multiple stake-holders



Youth











Case study: Integrated approach for "Cyber Wellness" education in Singapore

Inter-Ministry Cyber Wellness Steering Committee (ICSC)

- Ministry of Information, Communications and the Arts (MICA)
- Ministry of Education (MOE)
- Ministry of Community Development, Youth and Sports (MCYS)
- Ministry of Defence (MINDEF)
- Ministry of Home Affairs (MHA)
- Infocomm Development Authority (IDA)
- Media Development Authority (MDA)

\$10 million for 2009-2013





Professional counselling and cyberwellness training



Holistic digital citizenship Intervention program



MOE Cyberwellness school programs and web portal

4-year longitudinal study to













• Awareness: Green Digital Campaign

Education : iZ HERO Project
 Bridge Digital Divide

Research: Infollution index
 Infollution cost/benefit
 Green digital culture



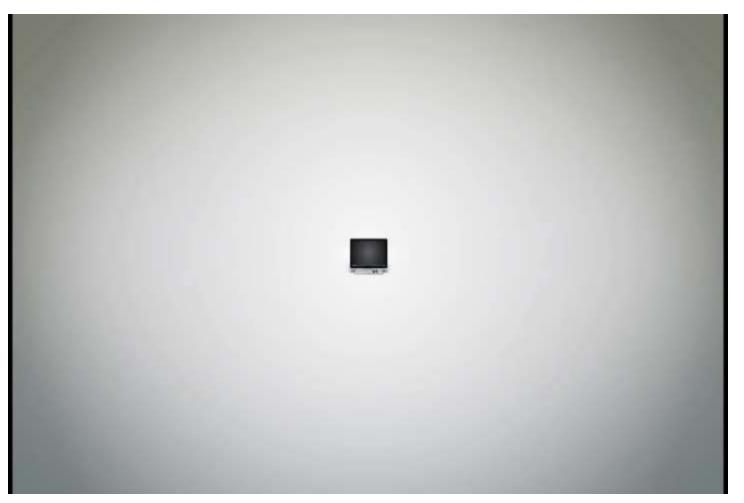
























2011. 1st Generation, KOREA

2013. 2nd Generation, SINGAPORE



- National Science Museum,
- Nationwide tour by KISA



Traditional Media

- Comic Book
- Parental Guide Book
- Peer mentoring program

New Media

- Digital Interactive Exhibition @ Singapore Science Centre
- Web Game

Research

NIE Experimental study

Organizers: infollutionZERO



infollutionZERO





Sponsors:



Inter-Ministry CyberWellness Steering Committee (ICSC)











infollutionZERO Media Coverage

Mentioned over 70 times by mass media outlets in Korea in 2011

chosun.com

네이버서 선정적 뉴스 사라진다

연합뉴스 | 박대한 | 2011.04.17 07:03

사회 🔻 사람들

정보공해 막는 '인폴루션 제로' 운동 박유현씨 "음란·폭력 물에 찌드는 아이들 구합시다"

mk 뉴스

(フ) 중앙일보

"악플·음란물 없는 무공해 사이버 세상을"

미국 유명 그래피티 작가 크리스 엘리스 - 박유현 인폴루션 대표 뜻 모아

[테마진단] 스마트폰 1000만 시대와 인폴루션

국민일보ⓒ 캬!뉴스

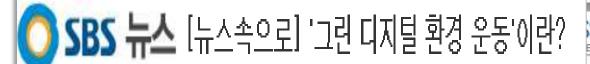
NGO '인폴루션제로' 장립, 유해 콘텐츠 차단 목표… 2월 100만 IZ약속 캠페인

KBS NEWS

그래피티 거장이 그린 "깨끗한 인터넷 세상"

mk 뉴스

"인터넷에 넘치는 폭력물 어릴때부터 접근 막아야" 박유현 민폴루션제로 대표



글자크기 🗗 🖿 🖴 🚨 🔛 💥 👹 🐷 S 트의 원조 DAZE가 韓 IT세대에게 낙서로 전한 '메











Research: Cost and Benefits of the Korean Online Gaming Industry

Korean Game Industry Statistics		Cost/Benefit Ratio
Social Cost due to Heavy Users	\$5.8 Billion	
Economic Benefits from Heavy Users	\$2.7 Billion	218.60%

- Benefits are calculated with average values based on Service industry coefficients and Communication and Broadcast segment coefficients.
- Revenue of game industry and number of game users from '2011 White Paper on Korean Games' (Lee, 2011). This data is released from 'Korea Creative Content Agency' in 2011.
- Production and value-added inducement coefficients obtained from '2009 Inter-industry relation table' (BOK, 2011).













iZ Educational Advisory Board

iZ Key Partners:

Dr Park Yuhyun: *Original Developer of iZ HERO Project* CEO & Co-founder of infollutionZERO & Asia Director, President's Office, NTU

Dr Angeline Khoo: *PI of CyberWellness Research*Associate Professor, Psychological Studies Academic Group, National Institute of Education (NIE)

Dr Albert Liau Kien Fie: Expert in social-emotional development of children

Assistant Professor Psychological Studies Academic Group, NI

Assistant Professor, Psychological Studies Academic Group, NIE

Dr. Jay Won Lee: Expert in Market Valuation for Game Industry

Assistant Professor, Graduate School of Finance, KAIST

Dr Douglas A. Gentile : *Director of Research, National Institute of Media and the Family, USA*

Associate Professor, Department of Psychology, Iowa State University, USA

Dr Nam-Joon Cho: Founder of infollutionZERO Nanyang Associate Professor, NTU

Dr Kim Nayoung: *Game Designer of iZ HERO Project* Assistant Professor, Dept. of Game and Digital Media, Hong-ik University

Internet Service Provider Code-of-Conduct





Academic Research









Digital Literacy Initiative







Green Digital Campaign





