



Digital Citizenship Initiative For Inclusive, Equitable, Quality ICT education

Laureates' Seminar of
UNESCO King Hamad Bin Isa Al-Khalifa Prize for the
Use of ICTs in Education
13 January 2016, UNESCO HQ, Paris





Proposal on cooperation with UNESCO – Qingdao Declaration:

Digital Citizenship Initiative For Inclusive, Equitable, Quality ICT education

Yuhyun Park PhD
Chair, infollutionZERO Ahn-Sei Foundation, Korea
Founder, iZ HERO Lab, Singapore
Nanyang Technological University





What Is The Most Needed Education For Children in The Digital Age?





Tipping points expected to occur by 2025

- 1 trillion sensors connected to the Internet
- 80% of people with a digital presence on the internet
- 90% of population using smartphones
- 90% of population with regular access to the internet

Source: Deep Shift – Technology Tipping Points and Societal Impact, Global Agenda Council on the Future of Software and Society, World Economic Forum, September 2015





Infollution = information + pollution

Cyber-**Violent Bullying Video Game**

Obscene **Content**

Viral

Technology Rumors Addiction Invasion

Privacy

















"The Fourth Industrial (and digital) revolution will transform everything we are used to, and create a completely new context for our lives...

When everything changes, we stick to what will not be changed, what will be constant... that are our **VALUES** and **IDENTITY**"



Professor Klaus Schwab, Founder & Executive Chairman of the World Economic Forum





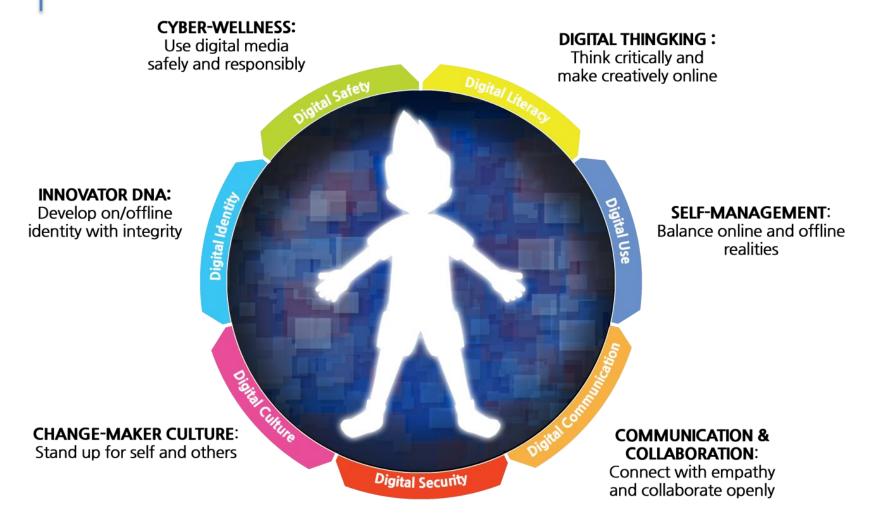
Maximize the Potentials & Minimize the Risks

for every digital native child in the digital era





Value-based Digital Citizenship



SECURITY RESILIENCE:

Defend digital privacy and security





Not-for-profit foundation, Korea

- Raise public awareness of digital citizenship
- Monitor infollution in society
- Suggest related public policies

PROTECT

from cyber dangers

infollutinZERO

EDUCATE through online platform

iZ HERO Lab

Social Enterprise for Digital Citizenship Education, Singapore

 Develop online platform and contents and offline school programs

RESEARCH

on children's behaviors online

Nanyang Technological University

University partner for research, Singapore

 Research to test the efficacy of iZ HERO program and to understand children's online behaviors





Critical Issue to Achieve Inclusive, Equitable, Quality ICT education

Generational ICT knowledge gap increasing the exposure of digital risks of children

→ Even more pronounced in poorer and rural areas - The 2/3 of the world's almost 3-billion Internet users are from the developing world, the numbers are growing rapidly, and many users are young (ITU, 2014)

Lack of empowering digital citizenship and quality education resource for social-economically disadvantaged community.











Transformative Digital Citizenship Initiative for Children 6-12 Years of Old

- Target audiences: Children, Parents, Teachers
 - Target region: Asia Pacific Countries



Mission





The iZ HERO Has a World-Class Proven Full Suite of Products & Services

Online and offline holistic programmes

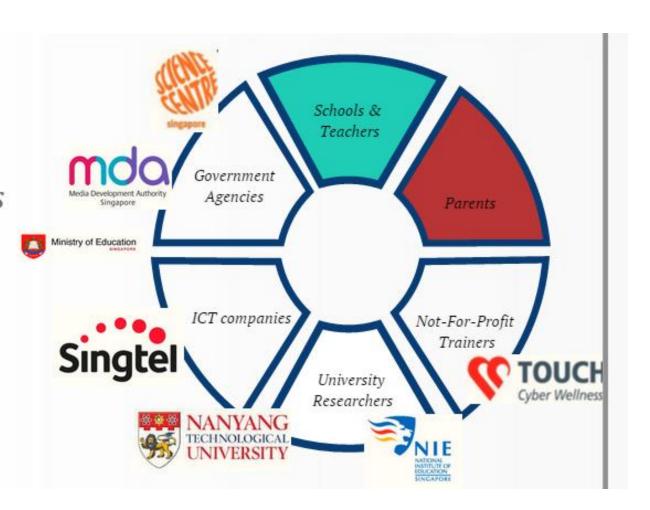


- ✓ Won awards from UNESCO twice!
- ✓ Backed by high-level academic research.
- ✓ Proved that the iZ HERO education programme is scientifically effective in positively changing children's attitudes toward cyber risks.
- ✓ Developed the world's first digital citizenship exhibition.





iZ HERO work together with all stakeholders for YOUR CHILDREN



Online Tool

iZHERO.net (Web-game)



What is iZHERO.net?

https://www.youtube.com/watch?v=PrZL6_GZ11M

Nation-wide Initiative

Nation-wide Cyber Wellness Challenge



2015 Safer Internet Day - The Inaugural iZ HERO Challenge Grand Finale

https://www.youtube.com/watch?v=VFpsRMU5qs8

Offline Tool





Assembly Talk & School Roadshow



Assembly Talks and Roadshows https://www.youtube.com/watch?v=AAh5U1XilZs

Exhibition

Singapore Science Centre



Teachers' Workshop https://youtu.be/xZhNl3MtuCM

Student Activities

Student Ambassadors



Student ambassadors at Rivervale Primary https://youtu.be/XuvqbnZSWqc

Family-School Activities

Parents' Workshop



Parental workshop at ACS Primary School https://www.youtube.com/watch?v=0-blsAz75eA

Teachers Activities





Teachers' Workshop



Teachers' Workshop https://youtu.be/xZhNl3MtuCM

Public Campaigns

Public Events





2011 iZ HERO 1

Digital Citizenship Interactive Exhibition in S. Korea















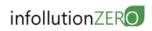
2013 iZ HERO 2

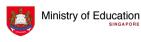
Multimedia Learning Experience / Research in Singapore

























Fostering Digital Citizenship through Safe and Responsible Use of ICT (March 2014)



UNESCO Experts' Meeting Organized by UNESCO, infollutionZERO, NTU, Intel (March 2014)

- · Drafting UNESCO policy guidelines
- Launching iZ HERO Alliance







2014, iZ HERO Challenge

Nation-Wide Cyber Wellness Initiative in Singapore



















2015, iZ HERO

International Digital Citizenship Initiative

Singapore, Korea, and other Asia Pacific countries

















International recognition by global and national key opinion leaders



iZ HERO does

OUTSTANDING work in promotion digital citizenship for children and parents!

Ms Irina Bokova, UNESCO Director-General



Within the iZ HERO exhibition, educational information on cyber wellness for parents is available and provides opportunities for parents to learn alongside their children.

Ms sim Ann,
Senior Parliamentary secretary for
Education and communications
and Information, Singapore

"While traditional approaches to digital risk education focus on instructive methods of adolescents, iZ HERO prioritizes prevention, rather than intervention within the 6-13 year old age group. The programme provides an integrated multimedia play & learn experience. It aims to provide an engaging, safe and fun environment for children and their families. In so doing, the goal is to empower young children with responsible digital citizenship and character development through participate in a wide range of online and offline activities."

- The LEGO Foundation



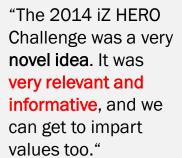






Recognition by teachers and educators





Mr Loy Kah Tai Rivervale Primary School



"Our pupils really enjoyed the activities. I'm really looking forward to more participation and more involvement."

Mdm Nur Hafizaa Halim Sah Greendale Primary School



"It's been a
wonderful platform
to engage people
and I believe this is
a good way to
interest students in
learning about cyber
wellness. I think it's
a very novel way to
share cyber wellness
values with the
children."
Mr Tan Boon Leng
Catholic High School
(Primary)



"The 2014 iZ HERO Challenge was something that the children have never encountered before. I'm very impressed and amazed by the students' participation."

Mdm Mazlenny Mosran Naval Base Primary School





Proposal on cooperation with UNESCO under the framework of Qingdao Declaration

* Unleash the full potential of ICT for education and for achieving the Sustainable Development Goals (SGDs)

* Reaffirm the new vision of Education 2030 declared in Incheon, Republic of Korea



http:// Izhero.net, Mobile App







2015iZHEROAdV5.mov





Quality learning

iZ HERO is built by experts

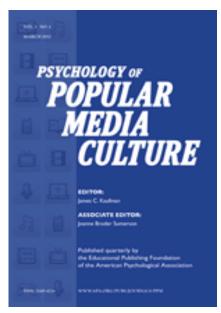


- Developed by academic partners from the Nanyang Technological University as well as the National Institute of Education in Singapore.
- Awarded the 2012 UNESCO Prize for use of ICT in Education, and the 2013 UNESCO Award for Educational Innovation.
- Renowned educational partners such as Dr. Angeline Khoo and Dr. Douglas Gentile (Iowa State University) are involved in the 2016 program development to extend iZ HERO research capabilities.





Proven Scientific Efficacy Of Our Approach







Published on **Psychology of Popular Media Culture, 2015**" iZ HERO Adventure: Evaluating the Effectiveness of a
Peer-Mentoring and Transmedia Cyberwellness Program for
Children"

- By Albert Kienfie Liau, Yuhyun Park, Douglas A. Gentile, Dashalini P. Katna, Celestine Hana A. Tan, and Angeline Khoo
- In comparison to the control group, after the intervention, the experimental group had
 - safer attitudes towards offline meetings
 - safer attitudes towards playing games instead of doing homework
 - safer attitudes towards cyberbullying and offline meetings
- The finding of improvement in attitudes is significant given the lack of studies supporting changes in attitudes





Online learning innovations:

Understanding online student's behavior and learning through big-data

Our Unique Research-Based Learning Process

Personalized learning of seven dimensions of digital citizenship in a fun way.

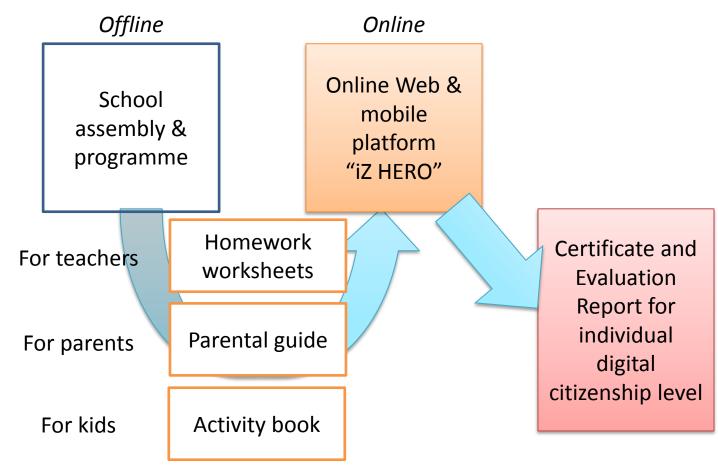
Play & Learn Evaluate
Through
Big-Data
Analytics

Evaluate
children's online
knowledge, attitudes
and behaviors
through research





Quality assurance and recognition of online learning & Monitoring and evaluation

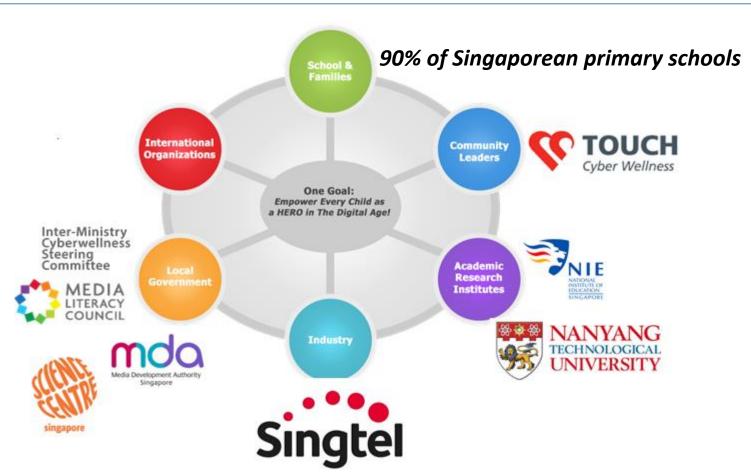




Cultural Organization

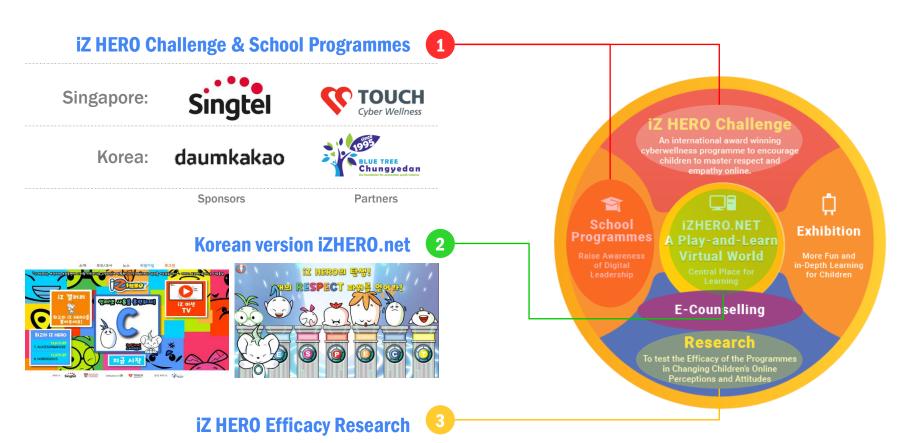
Accountability and partnership

iZ HERO - Multi-Stakeholder Collaboration



Easy to plug & play in other countries

Example: Korea



Pre-to-post surveys all students who participated in iZ HERO Digital Leadership School programmes to evaluate the effectiveness of the programme

UNESCO Global Digital Citizenship Initiative for achieving SGDs

We can start from TODAY

UNESCO Global Digital Citizenship Initiative For Young Children (Primary School Students)

iZ HERO

Providing open source online platform, resources, and teachers' training

Utilizing in UNESCO Teachers' training and outreach resources



United Nations Educational, Scientific and Cultural Organization

Singtel, LG Group

Providing funding and strategic partnership

Global initiative with ICT companies

Including in the agenda of UNESCO International Meetings

Research collaboration with UNESCO

NTU, NIE, Korea University, Stanford Univ, etc

Big-data research on monitoring and evaluating children's behaviors

Korean and Singapore Governments and Schools

Providing school networks, policies and related resources

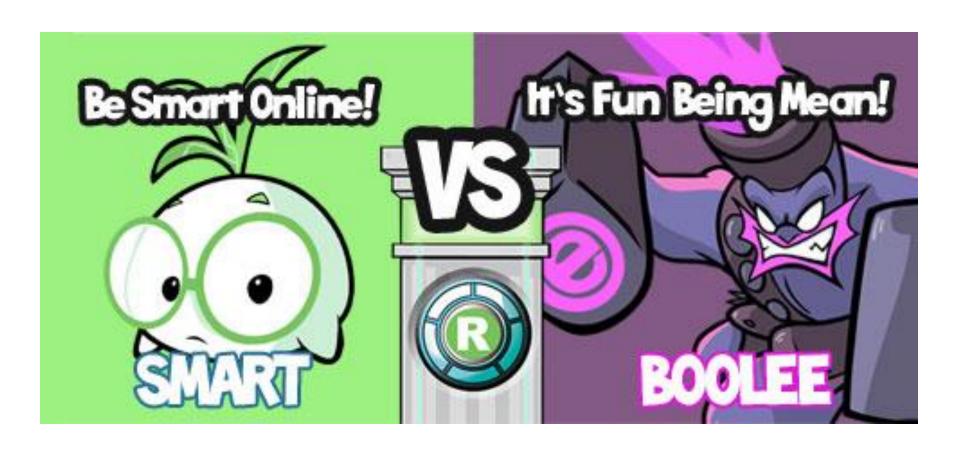




R.E.S.P.E.C.T.

iZHERO.NET

Being aware of cyber-bullying



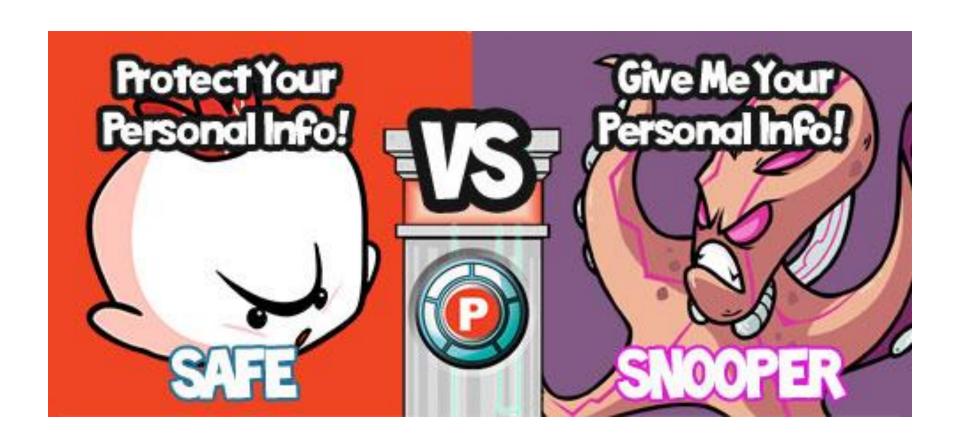
Having respect for self and others online



Having courage to stand up for others online



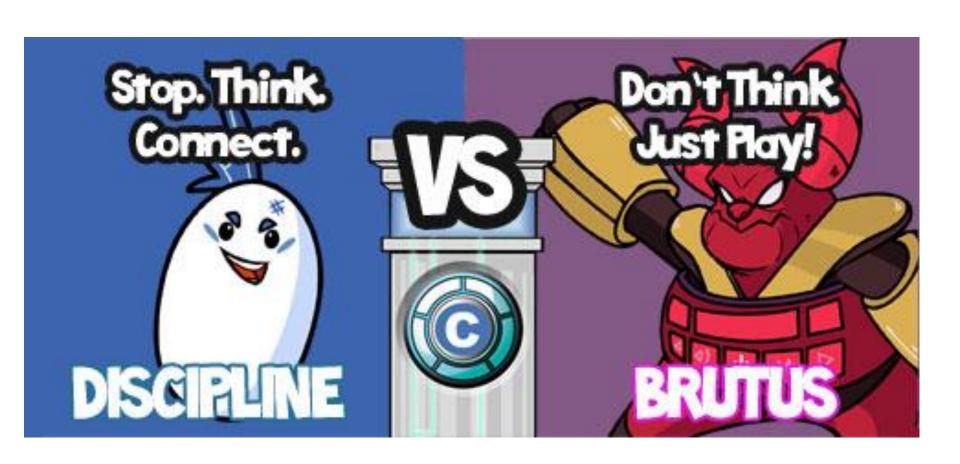
Being savvy enough to protect their own privacy



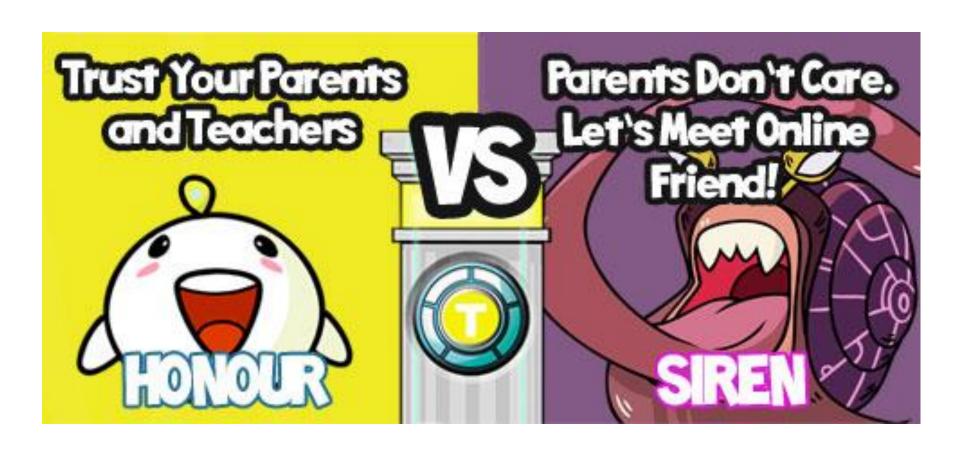
Having empathy and critical thinking in online communication



Being able to exercise self-control in using digital devices



Having healthy online relationship with parents and teachers



Fun and intuitive learning for young children before they actively engage in the digital world

