Local Areas Informatization in a Wired Age:

The Case Study Of Information Infrastructure in the local areas of Korea

Dr. Sang-Baek Chris Kang,
Director of Global Cooperation
chriskang@klid.or.kr

KLID 한국지역정보개발원
Korea Local Information Research & Development Institute

1. Infrastructure Development by Phases

* How Korea's local area digitalization movement been evolved.

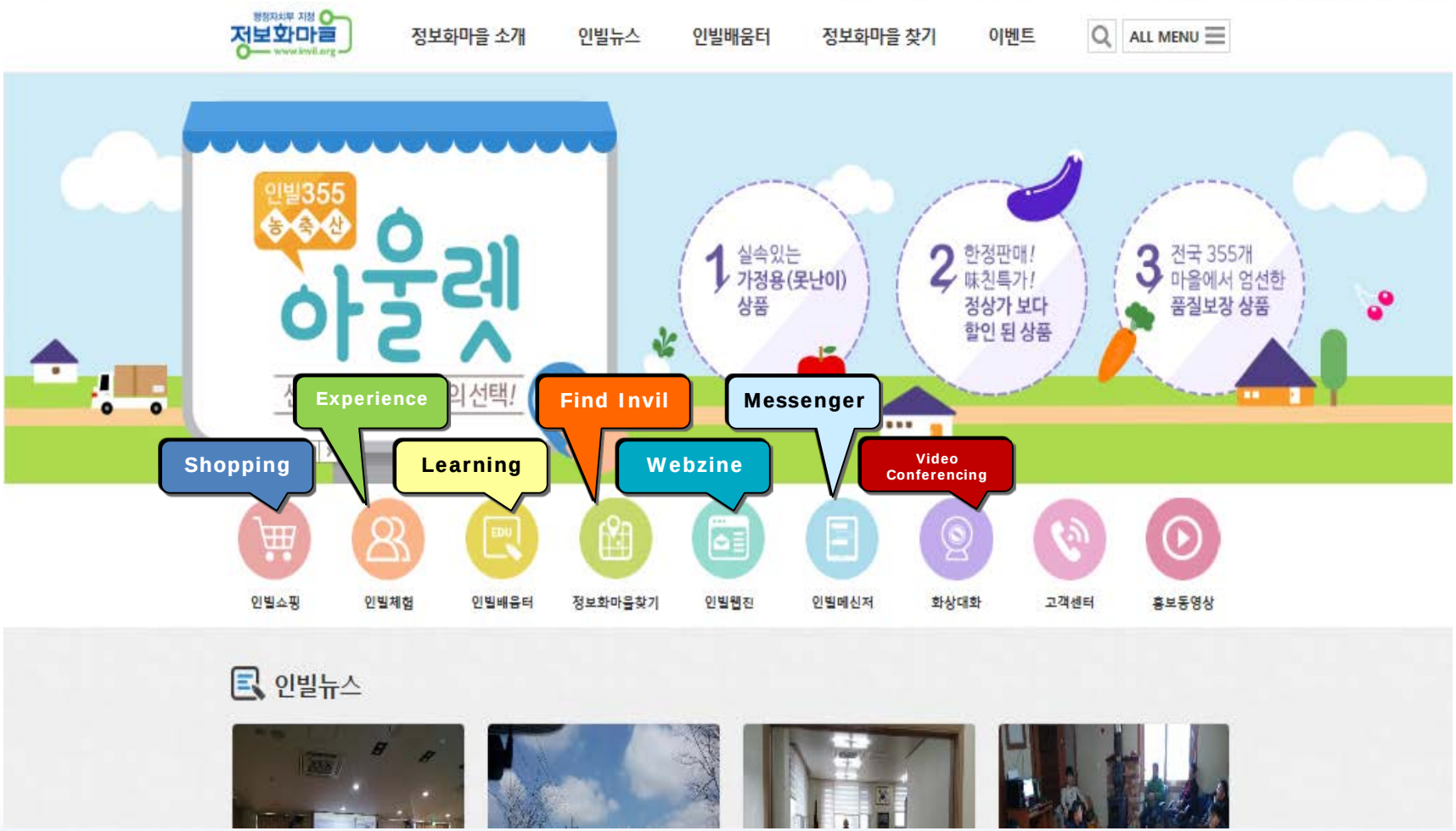
Phase 1 Infrastructure Connectivity Model (One way)	Phase 2 Communication/Contents Model (Interactive)	Phase 3 Commerce Model (Interactive O2O Model)
• ADSL connectivity has been deployed for urban and local areas • FTTH(Fiber-To-The-Home) deployed • Wireless Local loop was also deployed in some places • Virtually all connected	• Interactive contents and educational contents are deployed • SNS also deployed • E-government features can be also used in local areas	• Broad network band width allows interactive home-shopping • Local areas can sell their featured products and experience events

2. Lessons Learned from Infrastructure Development

- Broadband local loop - DSL(Digital Subscriber Line), CATV-data, FTTH, P2P Wireless Backhaul, Super WIFI, 4G, etc. might be the prerequisite for effective smart learning, let alone increasing the environmental resiliency of community people.
- The case of Korea: Broadband network deployment in local areas -> minimize digital divide -> add on contents (education, media, etc.) -> now commerce model of local areas (Information Network Village)
- Infrastructure should be carefully designed associated with local area economic growth and development plan

Smart Learning/Education can be types of contents which can be delivered on the information infrastructure! And more…

1. Invil AS-IS Analysis (http://www.invil.org)



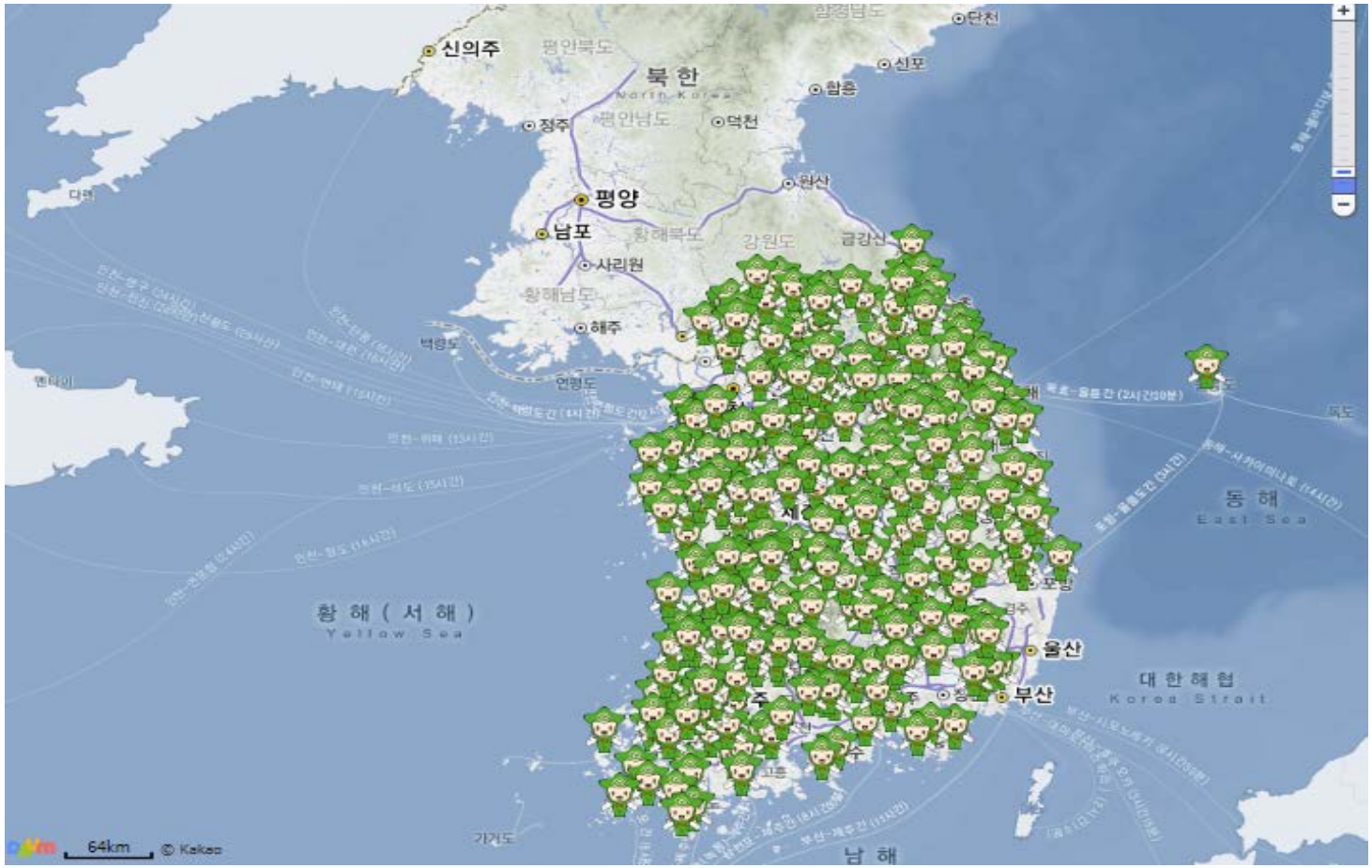
2. Invil Shopping

2. Invil Shopping

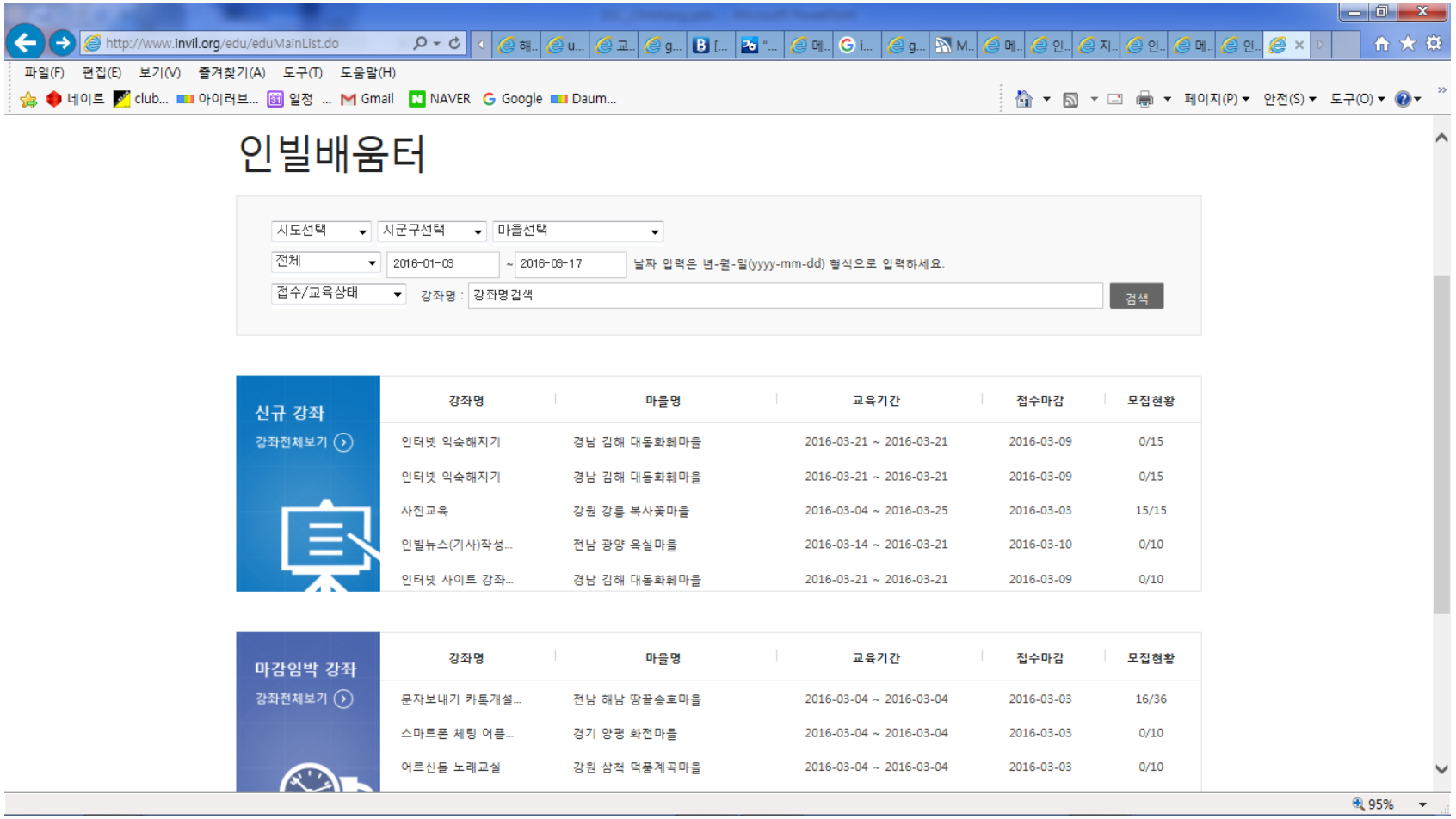
- Price is competitive
- Local farms are also focusing upscale items (such as organic food) for market differentiation

3. Invil Experience Sites

3. Invil Experience Sites

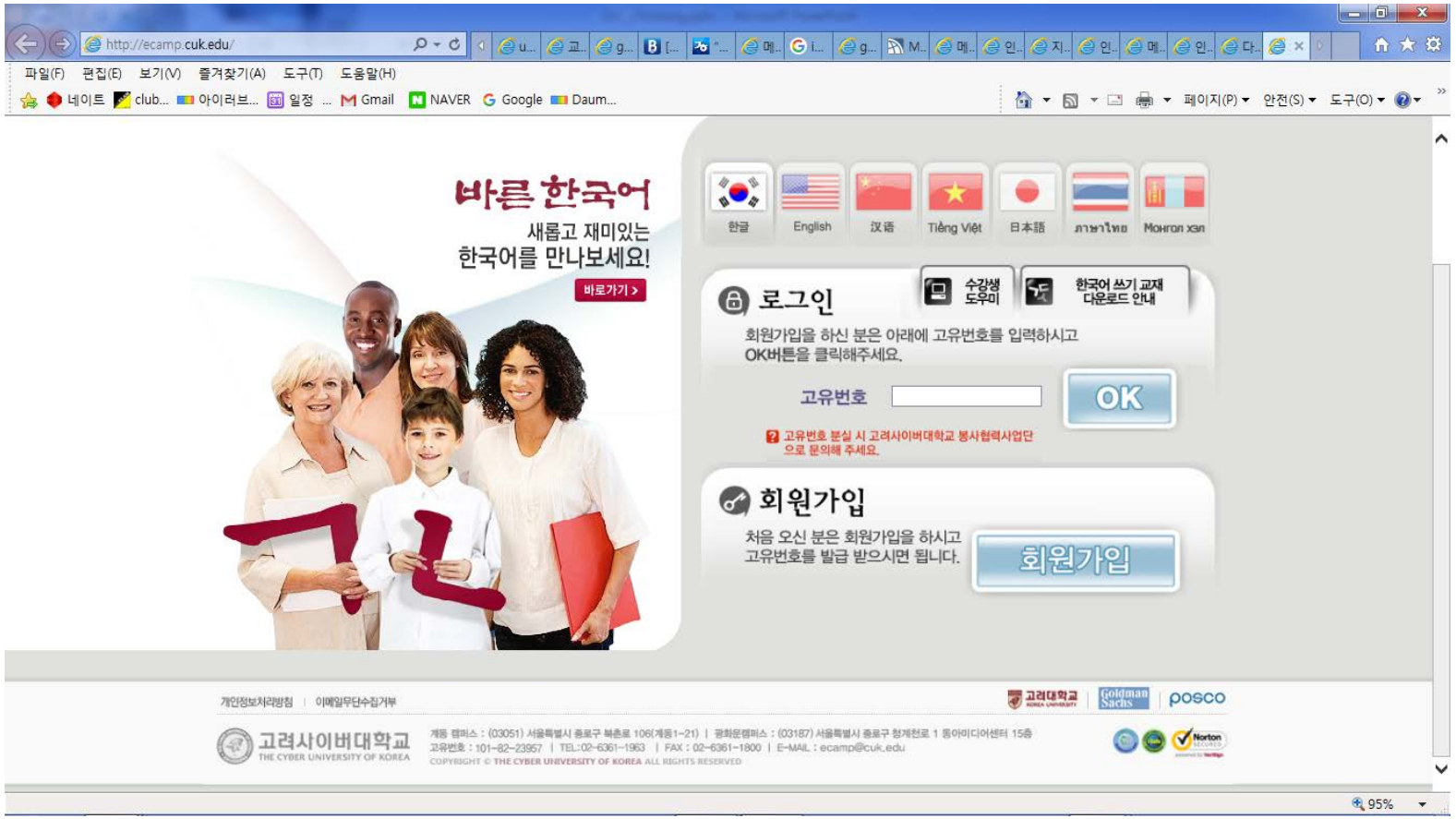


4. Invil Learning



4. Invil Learning

Cyber Learning for multi-culture home



Infrastructure Alternatives

- Solar Powered Movable Internet School
- For three African countries (Ghana, Ethiopia, Kenya) by KERIS and Samsung Electronics

Infrastructure Alternatives

- Satellite Internet in some of African countries

Infrastructure Alternatives

- Peer-to-Peer Wireless Backhaul system

IV Conclusion and a way forward

- **Firm Connectivity and broadband network can be the basis for any forms of smart education / training**
- **Once information infrastructure has been built, there are many ways for utilizing the system - only important factor is the maintenance of the system**
- **Often, the maintenance of the system are not well recognized – must be separately budgeted**
- **Once stable connection has been established, local areas may find diverse way to utilize their connectivity including shopping, experience site, education, healthcare, etc. (As is Korea's case)**

Thank You!

Questions and Comments

chriskang@klid.or.kr