



# "CREATING AN INTELLIGENT CITY - THE GLOBAL ICF EXPERIENCE"



INTELLIGENT COMMUNITY FORUM  
[www.intelligentcommunity.com](http://www.intelligentcommunity.com)

**GLOBAL**  
**FORUM**  
Shaping the Future  
**2009**

Presented by  
**John G. Jung**  
Chairman and Co-Founder  
Intelligent Community Forum  
New York City

**ICT & THE FUTURE OF INTERNET**  
*Opportunities for Stimulating &  
Reshaping the Economy*  
**OCTOBER 19TH & 20TH, 2009**

**SESSION 11** *Dedicated to local Government* [3:00pm-  
5:00pm] **Strategies & Policies for Innovative Cities**  
Network



# Intelligent Cities in Saudi Arabia



Intelligent City Makkah/ King Abdullah Economic City

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# Gangnam District, Seoul, South Korea

## Intelligent Community of the Year, 2008

- Broadband penetration at 93%
- Strong government-business cooperation
- Ubiquitous technology
- Incentives-based Computer and
- IT literacy training (350,000)
- TV Government

### Markets with Highest Broadband

### Penetration of Households, 2007 Country

South Korea	93.0
Hong Kong	76.0
Netherlands	74.0
Switzerland	69.0
Canada	65.0
Taiwan	59.0
United Kingdom	58.0
France	58.0
Sweden	58.0
Singapore	57.0
Belgium	55.0
United States	54.0
Japan	54.0
Spain	54.0
Australia	52.0
Germany	49.0
New Zealand	43.0

Source: Gartner (July 2008)

• Speeds of 50 Mbps for under \$20/month



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# Taipei



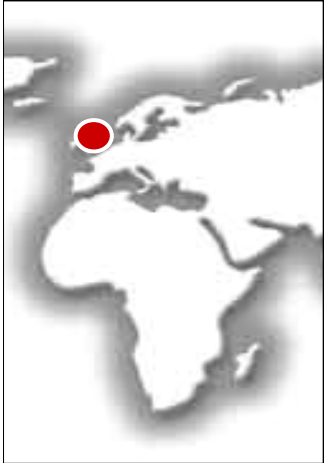
**Taipei's Challenge is to run faster in a fast world to maintain/increase its competitive edge.**

- **Taipei Technology Corridor: 3,200 companies employing 90,000**
- **World's largest Wireless Region**
- **Intelligent Nation Taiwan**
- **Investment of NT\$3.99 trillion within eight years**
- **Creating 120,000 jobs annually**

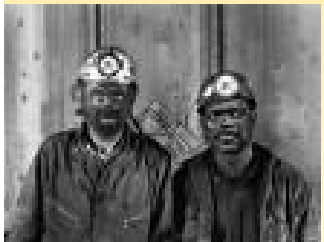


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**City of 280,000**  
in the shadow of  
Newcastle in  
northeastern UK



# Sunderland, United Kingdom

(Top 7 – 2001-2005)

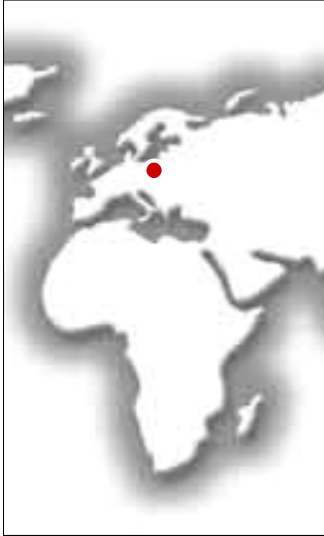


- **1980s: unemployment rate exceeds 30%**
- **In top 10% of UK “distressed districts”**
- **“Telematics Strategy”**
- **“peoplefirst”**
- **By 2003 : Over 12,000 new jobs in technology-driven businesses**
- **Reduction of unemployment rate from 30% to 4%**
- **Ranked one of top five most competitive business locations in UK by KPMG**



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# Tallinn, Estonia

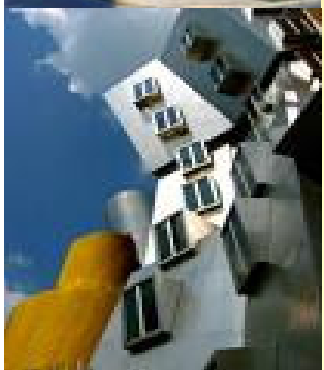
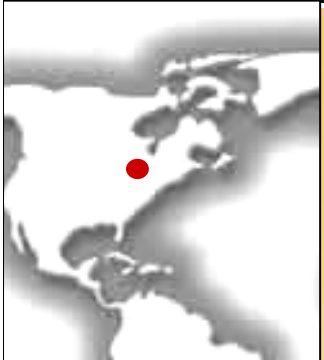


- Independence in 1991, hotbed of IT culture.
- Widespread free WIFI
- Banks initiated “Tiger Leap” initiatives with 16,000 teachers and 200,000 students
- Significant cultural change with technology and broadband related IT startups at its base: Skype, Hotmail, KaZaa, etc.
- E-Estonia: e-government services over internet and extensive ubiquitous mobile-based services over sms (112% coverage)
- 1 million (digital signatures) ID cards issued



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# Cleveland, Ohio, USA

## “One Cleveland” Applications Focus on Human Factors:

- **High-definition videoconferencing** connecting Clinic doctors to city schools for the delivery of healthcare.
- **Technology training** and network expansion.
- **Computer Learning in My Backyard (CLIMB)** tech and financial literacy training for low-income
- **Subsidized PC** and Internet access purchases.
- **Collaboration** among 66 regional foundations, engaging 50,000 area leaders in Internet-enabled "town meetings"
- **IBM selected Cleveland** as the Economic Development Grid
- **Home to Cisco's** wireless technology operations and research center





# Waterloo, Ontario

*ICF recognized Waterloo, not for efforts to transform a failing economy, but for its commitment to fostering institutions that drive technology innovation and share its benefits with the community at large.*



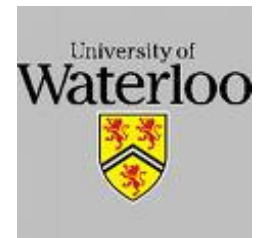
## Waterloo is a Broadband Economy Success Story

### Waterloo Region Education and Public Network

- High-speed connections to 247 schools
- Waterloo's 3 post-secondary institutions participate in ORION (Ontario Research and Innovation Optical Network), high-speed fiber network connecting 100 educational & research institutions

### Government and business have created more than 150 research institutes in the region:

- Perimeter Institute for Theoretical Physics
- Center for Wireless Communications
- Leitch-UW Multimedia Laboratory
- Nortel Networks Institute for Advanced Information Technology.
- 120-acre Research and Technology Park
- CIGI
- WATCar



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# What makes Cities Successful?

## “Future-Proofing” – Creating Intelligent Futures:

Building on a new economy with the following elements:

- High Quality **INFRASTRUCTURE** (incl **BROADBAND**)
- Exceptional **EDUCATION** creating, attracting and sustaining skilled workers
- Attracting **INNOVATION** and **CREATIVITY**
- Superior and inspiring **LEADERSHIP**
- Effective and stable **GOVERNANCE**
- Excellence in **ARCHITECTURE** and **URBAN DESIGN**
- Nurturing **CULTURE** and **DIVERSITY**
- Attracting **RISK CAPITAL**, Incubating and Commercializing
- Promoting **DIGITAL INCLUSION**
- Ensuring **SUSTAINABILITY**
- Building on **COLLABORATION**
- Ensuring **HEALTH** and **SAFETY**
- Effective **MARKETING** and **ADVOCACY**





# Intelligent Community Indicators

## The Virtuous Cycle





# Common factors of Intelligent Communities

- Big or small – most have a “sense of urgency” or pursuing a strategic direction
- Decision to actively adapt to new market and technology forces
- Leadership defined clear vision of the challenge and how it could be met
- Built public understanding of the challenge and communicated urgent need for action
- Spirit of collaboration manifested in forums and programs involving government, business, nonprofits and educators
- Embraced Intelligent Communities approach and not shy to globally market their successes



Named one of the Smart 21 or Top 7 Intelligent Communities of the Year by ICF... and so can your community!





## Mission of ICF

- Think tank studying the economic and social development of the 21<sup>st</sup> Century community
- Identifying and sharing best practices from the world's Intelligent Communities in adapting to the demands of the global Broadband Economy
- Helping communities find renewal and growth by:
  - Annual Awards program
  - Publishing: *Broadband Economies, E-Government and Economic Development, Top Seven Intelligent Communities*
  - Annual *Building the Broadband Economy* summit
  - Community Accelerator program
  - Immersion Lab tours of Intelligent Communities
  - Intelligent Community Association and Institutes



# ICF Annual Awards Program

- Smart21 Communities of the Year
  - From hundreds of submissions worldwide
- Top Seven Intelligent Communities of the Year
  - From the Smart21
  - January 20, 2010 at *PTC'10* in Honolulu, Hawaii
- Intelligent Community of the Year
  - From the Top Seven
  - May 21, 2010 at *Building the Broadband Economy*, Polytechnic Institute of New York University



**Stockholm**  
2009 Intelligent  
Community of the Year





# The Smart21 of 2010

- **Arlington Cty**, Virginia, USA
- **Ballarat**, Victoria, Australia
- **Bescançon**, Franche-Comté , France
- **Bristol**, Virginia, USA
- **Dakota Cty**, Minnesota, USA
- **Danville**, Virginia, USA
- **Dublin**, Ohio, USA
- **Dundee**, Scotland, USA
- **Eindhoven**, Netherlands
- **Gold Coast City**, Q, Australia
- **Moncton**, New Brunswick, Canada
- **Ottawa**, Ontario, Canada
- **Porto Alegre**, Brazil
- **Riverside**, CA, USA
- **Suwon City**, South Korea
- **Tallinn**, Estonia
- **Taoyuan Cty**, Taiwan
- **Tel Aviv**, Israel
- **Tianjin Binhai New Area**, China
- **Trikala**, Greece
- **Windsor**, Ontario, Canada





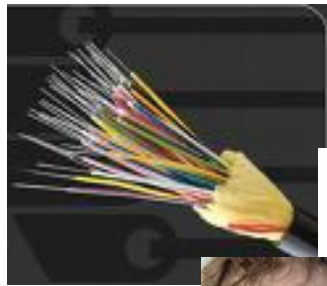
# ICF Intelligent Communities

2002 - 2010



# Thank you!

## Q&A



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