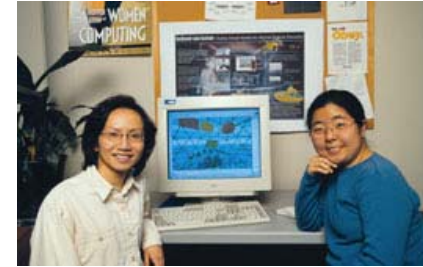# What is an Intelligent Community?

- Communities <u>responding to the challenge</u> of local economic development in the broadband economy

- Working to <u>maintain a high quality of life</u> - as places where the next generation can find a good job, make a home and raise their children

- <u>Leveraging</u> their unique qualities and traditional <u>strengths</u> in a new economic environment

INTELLIGENT
COMMUNITY
FORUM

What is an Intelligent Community?
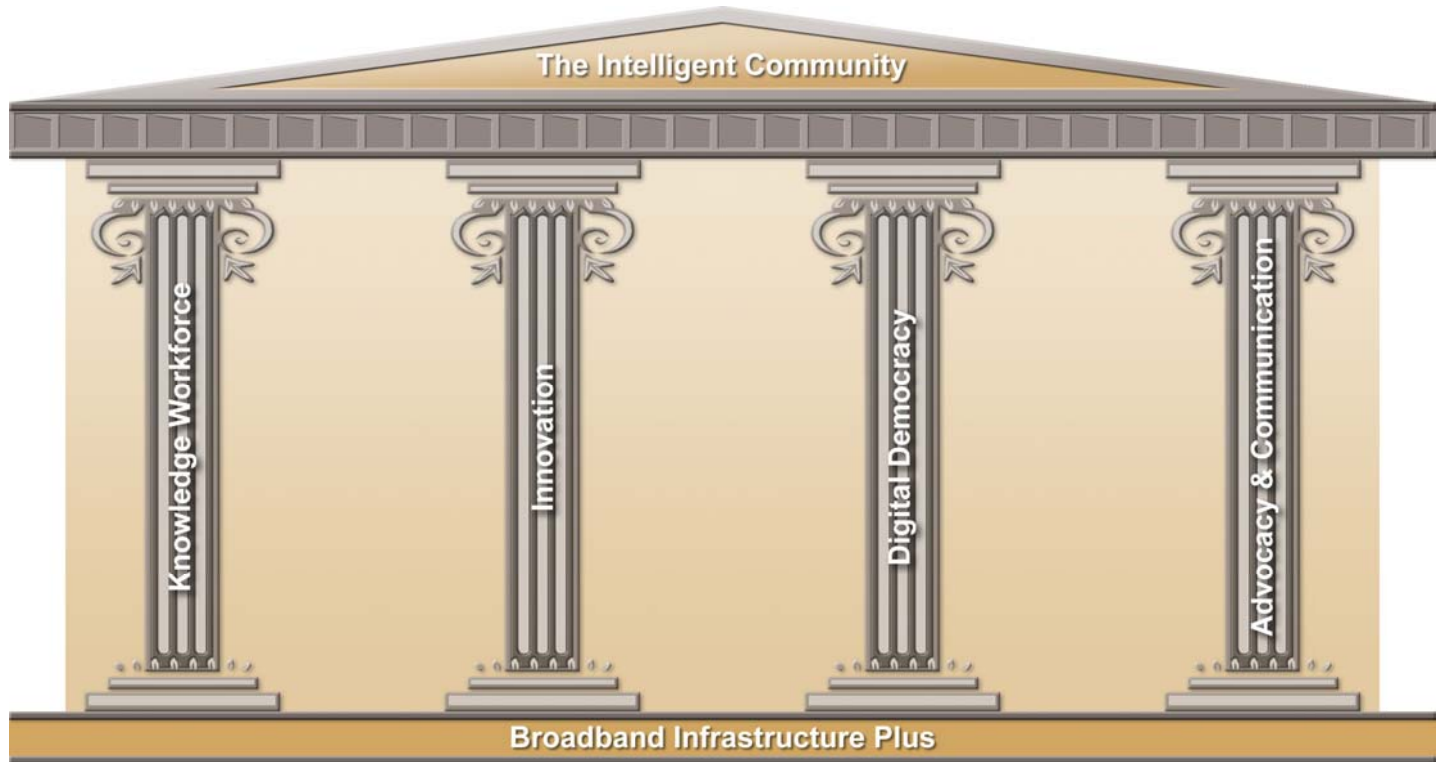
- **Intelligent Communities –**
  - Recognize the **impact of broadband** and its role as an essential utility for job creation and economic growth
  - Work to create a **culture of use** among citizens, businesses and government to stimulate economic development and political participation
  - Ensure that low-income and at-risk populations can **participate** in the broadband economy
- **Being "wired" isn't enough**
  - Without non-technology efforts, the broadband revolution risks –
    - **Worsening social inequality**
    - **Reducing economic opportunity**
    - **Constricting political participation**

INTELLIGENT
COMMUNITY
FORUM

What is an Intelligent Community?

Pillars of the Intelligent Community

Intelligent Community Indicators

- ## Broadband infrastructure
  - Developing clear vision / realistic policies to encourage deployment
  - Identifying and striving to fill "broadband gaps"
  - Collaborating with the private sector

- ## Knowledge-based workforce
  - Create, attract and retain a workforce that can perform "knowledge work" (in universities; primary schools; factories & R&D labs)

- ## Innovation
  - Changing people's lives; efficient services; e-government; community culture of use

- ## Digital democracy
  - Ensure that the benefits of the new economy reach all rungs of the economic ladder

- ## Marketing and Advocacy
  - Globalization of markets, capital and business operations puts a premium on ability of communities to market their "intelligence"
  - Intelligent Communities market themselves effectively, based on needs of growth industries and competitive offerings of other communities
  - Opportunity for "Communications and Advocacy" as well as "BRANDING"

Framework for action

- Indicators are key areas of focus in effort to build prosperous communities in the broadband economy

- Gap analysis can reveal opportunities for action

- Foundation-building approach: each layer depends on strength of supporting layers

- Other Considerations:
  - **Leadership and Public Policy**
  - **Applications / Content Development**
  - **Investment and Risk**
  - **Sustainability**
  - **Collaboration**
  - **Culture of Use**

INTELLIGENT
COMMUNITY
FORUM

The Top Seven of 2006

Waterloo, Canada

Manchester, UK

Gangnam District, Seoul, Korea

Tianjin, China

Cleveland, USA

Taipei, Taiwan

Ichikawa, Japan

INTELLIGENT
COMMUNITY
FORUM

Waterloo, Ontario, Canada

- **334 technology companies - 45% of job growth** although employing 10% of the labor force
- **Entrepreneurial**: Research in Motion; Sybase, Open Text, etc.
- **Knowledge Creation:** University of Waterloo, largest post-secondary co-op education program
  - allows students and faculty members to own rights in intellectual property they developed
  - wave of entrepreneurship - pushed tech innovation from academia into community
  - Today, the University spins off 22% of all new technology start-ups in Canada
- **Waterloo is a Broadband Economy success story**
  - diverse mix of manufacturing and service companies,
  - well-educated population (more than 25% of residents are post-secondary students) and
  - effective economic development collaboration among academia, business and government.
- **Waterloo Region Education and Public Network** - high-speed connections to 247 schools
- **ORION** 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

• ICF recognizes 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.

Population
10,800

Labor Force
5,551

Top Industries
education,
insurance,
financial
services,
information and
telecom
technology

INTELLIGENT
COMMUNITY
FORUM
ICF

Taipei, Taiwan

Taipei is a **major global technology leader**:
• world's largest producer of laptop, notebook computers and computer motherboards.
• Taipei Technology Corridor - two major science and technology parks; third in development
• Employs 85,000 knowledge workers in 2,200 companies (annual revenues US$53 billion).
• One of the world's top three cities for broadband deployment
• PCs in 88% of homes and 77% of households connected to ADSL service.
• **Challenge: to run faster in a fast world** - to maintain/increase its competitive edge
• **Leadership:** in 1998 **Mayor Ma** challenged Taipei to become a **CyberCity.**
• *For its efforts, Taipei was named one of ICF's Top Seven Intelligent Communities of 2003:*
> • The **city invested in building broadband infrastructure and using the Internet to improv**
> **public services.**
> • **e-schools** - PCs with broadband connectivity in every classroom & computer labs
> • **e-communities** -free PC / Internet training to 240,000 people & 800 public Internet kiosks
> • Online Intelligent Transportation System monitors traffic flow & guides drivers
> • 5.7 million smart cards issued on Taipei's Mass Rapid Transit System

• *In 2006, ICF recognizes Taipei for taking its CyberCity program to the next level by maki*
broadband connectivity an essential component of life for its citizens and businesses, and using it
transform the economy of the city.
• **Integrated broadband and online services into citizens' lives**
• Cisco is implementing its Network Academy in Taiwan
• Microsoft selected Taipei as the world's first location for its **Future School Program**.
• IT-based platform for innovation including **wireless to 90% of city**
• **Digital equality**: 220,000 people trained
• 300 medical facilities linked in **e-healthcare** initiative, etc..

opulation
622,472

abor Force
183,000

op Industries
ervice
dustries (80%
total), manu-
cturing,(19%),
riculture

INTELLIGENT
COMMUNITY
FORUM