

# Infrastructure project for the equality of education at disadvantaged area

With **W-OAM PHS**

Collaboration project : Yamagata Prefecture / Shinjo City / Willcom, Inc.

## Disadvantaged area

Region that cannot correspond with broadband service, due to depopulated area, mountainous district,.....

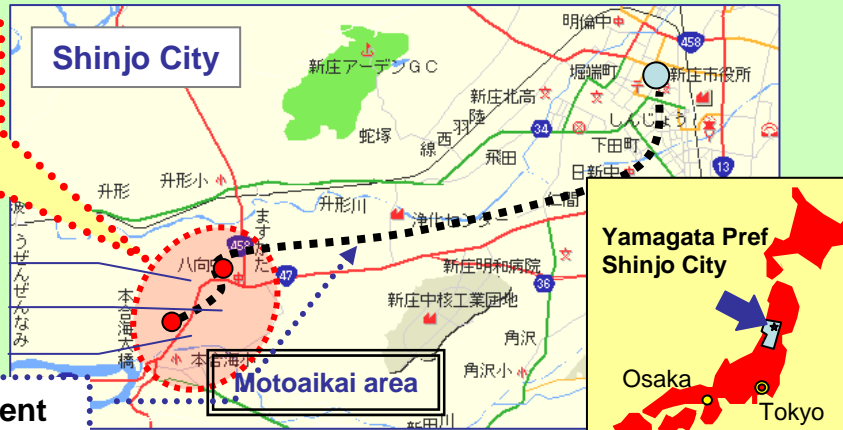
### Motoaikai etc...

Yamukai Junior high school

Motoaikai Elementary school

Other Community in region...

## Optical fiber of joint investment



## Digital divide

- It tends to delay the spread of the Internet in solitary island / ravine region.
- It means there is a major handicap in the education / community health.
- Moreover, the network infrastructure has great influence on the growth of the regional economy.
- However, it is necessary for the disadvantaged area to spend huge cost on the infrastructure preparation.

## Why PHS is chosen

- The large area coverage is possible in a short term due to the wireless feature.
- It is possible to provide not only packet data but also high quality voice service.
- Equipment is comparatively cheap.
- In addition, service will be started in a short term because equipment is portable.
- It has compatibility with XGP, and when broadband service will be introduced in the future, the backbone network can be shared.

## Effect

- Computer education same as that in the city became possible in elementary / junior high schools because of the cordless Internet connection environment equipped
- Data transmission speed became faster than existing ISDN Network, which is about eight times or more (measurement comparison)
- The call charge became cheap as flat-rate can be arranged from the meter rate system.

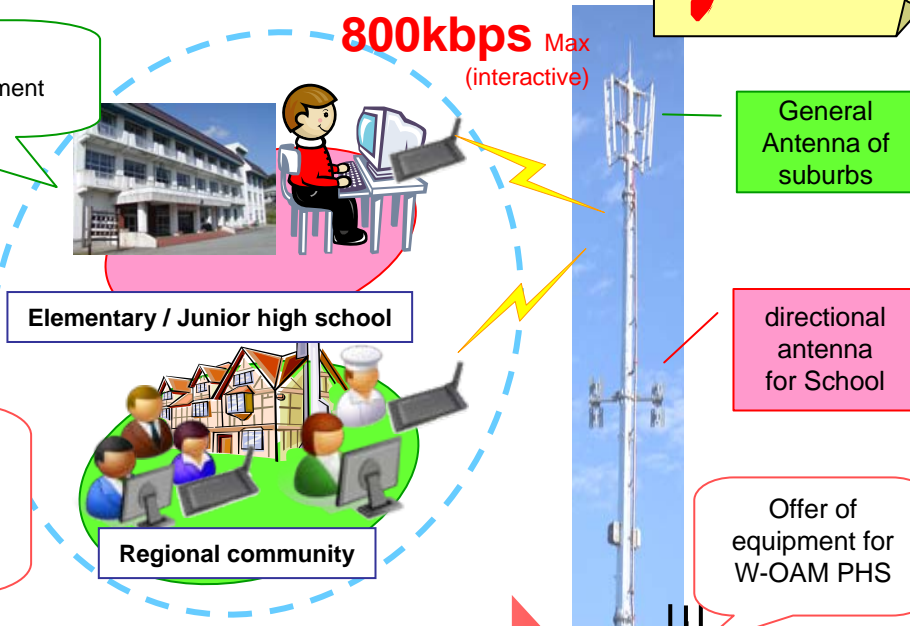
## Regional demand

- ① Information educational environment
- ② The Internet use environment

Demand to the municipality

## Responsibility of municipality

- Equality of opportunity to the education
- regional gap of infrastructure



• Yamagata Pref  
• Shinjo City

Common enterprise  
Network construction that correspond to BWA in the near future

