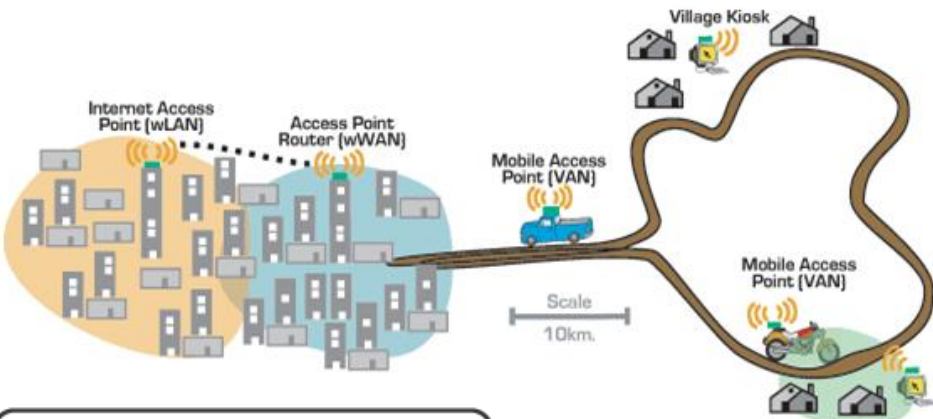# DakNet

1. Technology (How it Works)

Legend
- FMS VAN-APX Networking Kit
- WiFi Data Transmission
- WiFi Local Area Network (wLAN) and ISP
- WiFi Wide Area Network (wWAN)
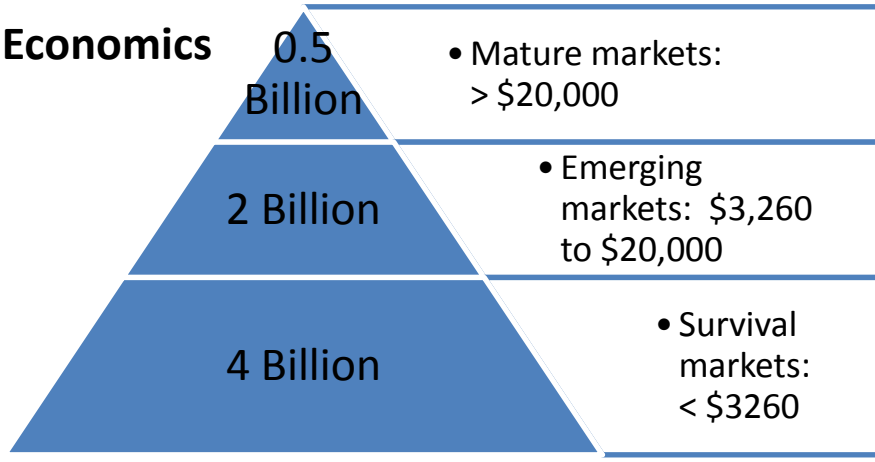- Village Area Network (Store-and-Forward)

Details

- Village Area Network (VAN)
- Asynchronous "Hub and Spoke" system
- Wireless link ←→ e-Postman ←→ Internet access point

Applications

- eGovernance, telemedicine, business, education
- Does not support real-time communication

2. Economics

0.5 Billion	• Mature markets: > $20,000
2 Billion	• Emerging markets: $3,260 to $20,000
4 Billion	• Survival markets: < $3260

Challenges

- **Infrastructure Cost**
  Income   Much larger in developing world
- Inefficient, government-run monopolies
- Low population densities in rural areas

Business Model

- High volume sales, *very* low marginal cost
- Hardware, software, installation, training, & maintenance
- For-profit and not-for-profit suppliers

Competition

- "Sneakernet" (CDs, thumb drives)
- Carrier Pigeons
- Line-of-Sight , Satellite/VSAT