

## C. Executive Summary

### Executive Summary of Project for BIP and BTOP:

#### 8. Infrastructure Projects Executive Summary

a) Opportunity the proposed system seeks to address: Ten Florida counties in Central Florida have poor quality, erratic service and best efforts bandwidth. The community anchors institutions are subjected to inadequate broadband and telecommunications to operate efficiently. The overall drain on capacity slows down the economic engine of central Florida. The project will establish a minimum of 100 advanced Wireless Infrastructure-mesh Architecture Advantage Platform Backhaul Solutions, mixed with fiber wired connections in ten counties. Included in this end user projection are 35,000 community anchor institutions in central and east coast Florida. Providing each with deep discount pricing of 25% to 60% of current market pricing, but in a majority of installations, bandwidth in these target market counties will increased upgrading these underserved rural, remote areas.

The project will proceed as a public private partnership. The project is lead by an Application Services Provider (ASP) and a Wireless Internet Services Provider, (WISP). The ASP and WISP have over ten years in the telecommunication services industry. The WISP currently designed and operates a 15,000 square miles wireless network in central Florida. Servicing subscribers such as NOAA and NASA. Leading name partners and alliances of the project include [REDACTED], University of [REDACTED], [REDACTED], the [REDACTED], the [REDACTED] Foundation and the [REDACTED] Foundation.

#### Project Summary:

Optimize the current WISP's footprint of 15, 000 square miles of operational wireless Infrastructure-mesh Architecture Advantage Platform Backhaul Solutions, mixing fiber wired connections to provide services to central and east coast Florida. Establish an initial target market of ARRA eligible —residential-rural-underserved and —community anchor institutions rural-underserved'. Upgrade State-designated economic zone, Economic Development Districts, Renewal Community or Empowerment Zone designated by the HUD, or Enterprise Community designated by the USDA. The project will execute two strategies: the priority emphasis will service the health care industry, and the second will develop a strategy to service community anchor institutions that reach out to rural, underserved and low income residents. Both will receive deep discounted pricing and bundling of services.

The network will establish network operation centers, i.e. collocation data hosting facilities, classified under the security level of U. S. Government DoD Information Technology Security Certification and Accreditation Process (DITSCAP) and DoD Information Assurance Certification and Accreditation Process (DIACAP). Data hosting will create a high-level security facility to maintain business continuity, disaster recovery and back up data for commercial, public and private use in full compliance with all federal privacy laws. The collocation facility assure full compliance with interoperability, and federal government's rigorous FIPS 140-2, HIPPA, Federal Financial Institutions Examination Council's (FFIEC), Gramm-Leach-Bliley Financial Services Modernization Act – (GLBA), Sarbanes-Oxley Act of 2002 (SOX) and North American Electric Reliability Corporation (NERC). The network will coordinate with the requirements of CCHIT Certified Commission Health Information Security Exchange.

**b)** A general description of the proposed funded service areas (location, number of communities, etc.) The project places emphasis on central Florida, as defined by Census Tract County ID # - FL,12,053, Hernando,H1, FL,12,057, Hillsborough,H1, FL,12,081, Manatee,H1, FL,12,095, Orange,H1, FL,12,097, Osceola,H1, FL,12,101,Pasco,H1, FL,12,103, Pinellas,H1, FL,12,105, Polk,H1, FL,12,117, Seminole,H1.

**c)** Number of households and businesses passed: Households are approximately 2,266,845 with 413,536 businesses

**d)** Number of community anchor institutions, public safety entities, and critical community organizations passed and/or involved with project There are approximately 35,000 entities that share this definition.

**e)** Proposed services and applications for the proposed funded service areas and users Medical facilities, educations facilities and municipal agencies, public safety or primary community anchor institutions. Medical facilities, include Hospitals, Federally Qualified Health Clinics (FQHC), and Look-a-like Clinics. PreK-12 schools will be offered FREE wireless connectivity to all buildings in the schools district for exchange of access to rooftop space and land deployments. The project will optimize School District FCC allocation of EBS to assist in their conversion to a VOIP telephone system and internet installation. The project will supports services with Indian Tribal Resources. The project will include Electrical Rural Coop's to provide Broadband over Power Lines to problem servicing areas. The wireless network will make use of Two Radio Meshed WiFi Network with 4.9GHz for Public Safety. The gateway access points meet the government's rigorous FIPS 140-2 (Federal Information Processing Standards) security-validation program and maintains compliance with the HIPAA and can service those Federally Qualified Health Center, Migrant Health Centers, Health Care for the Homeless programs, Public Housing Primary Care programs, and Urban Indian and Tribal Health Centers.

The project offering will provide internet, VOIP and Video conferencing as standard services. With data hosting and backup, disaster recovery and business continuity services. The project will develop work force development centers, in conjunction with educational facilities, libraries and training centers to promote broadband adoption and job creation by training and educating those who need these services.

**g)** Type of broadband system that will be deployed (network type and technology standard) Wireless Infrastructure-mesh Architecture Advantage Platform Backhaul Solutions, mixing fiber wired connections. The network architecture is an upgraded IPv6 protocol replacing IPv-4 with a modern, next-generation Internet Protocol accommodating the need for more devices, faster speeds, greater mobility, enhanced connectivity, integrated security, enforceable privacy, and easier management. Creating solutions for a wide range of business profiles with support for SONET speeds from Broadband over Powerlines (BPL), DSL, T1, DS3, OC3, OC12 to OC24. Using security protocols of Advanced Encryption Standard (AES), and Public Key Infrastructure, products which provide and manage X.509 certificates for public key cryptography. Biometric technology, standards-based security solutions prevent identity theft

install biometric personal authentication Face, Fingerprint & Palm prints, Hand and Finger Geometry, Handwriting, Iris, Multimodal, Retinal, Vein, Voice/Speaker, Other Modalities for subscribers.

**h)** Qualifications of the applicant that demonstrate the ability to implement and operate a broadband infrastructure, and/or be a sustainable broadband services provider: - The management team is balanced with education and experience, Education & Certifications include Indiana University, BS Finance & Marketing, PhD Economics; University of Kentucky, Jurist Degree; University of Michigan, MS accounting, CPA; Researcher at Kent Ridge Digital Labs and Information Technology Institute, and Space Research Institute in Moscow. A Ph.D. and MS in Mathematics & Computer Science from Moscow State University (Russia) Columbia University School of Engineering & Applied Sciences, Bachelor of Sciences in Electrical Engineering Polytechnic University of New York, Masters of Science (MS) in Technology Management, MIT – MS Computer Sciences, Bachelor of Sciences in Electrical Engineering (BSEE), University of Maryland, Computer Science BS, University of Maryland European Program. The management team has over 25 years of R&D, product management, marketing, and business development experience. This current Management team is the ONLY current team to operate a wireless network of 15,000 miles square for more than eight years.

MANAGEMENT TEAM - Alfred Barr, – General Manager GWC, [REDACTED] – Lead Network Engineer architect, Chief of Engineering, [REDACTED], Leonid Kasperovich is Lead Programmer Software, Harrison Clark, CLU, CEBS, CPA – Comptroller GWC, Paul S. Walken, ChFC, Esq. – Legal Counsel, GWC, [REDACTED] – Program Manager, [REDACTED], [REDACTED] – Program Manager, [REDACTED], David Allen – System Analysis, GWC, Eric Thomas – Research & Development, GWC.

**i)** Overall infrastructure cost of the broadband system: \$30,485,100.00

**j)** Overall expected subscriber projections for the project: 1,026,048

**k)** Number of jobs estimated to be created or saved as a result of this project:

The project will create approximately 30 to 150 jobs immediately and retain 50 to 80 jobs for permanent operation.

The project optimizing its Public Computer and Sustainable Broadband Adoption will train 5,000 first year trainees and students. The project will renovate the State-City HUB zone areas to mature into the most technologically sound and advanced areas of the State. Statistics show for every dollar invested in broadband the economy sees a ten-fold return on that investment. Ancillary job creation will establish approximately 1,000 jobs in medical and education. A current offering in EHR PaperFree Tampa Bay anticipates the program will create 132 new jobs: 111 trainers and 21 support staff. For every dollar invested in broadband the economy sees a ten-fold return on that investment. The project estimates it will effect 7,000 to 10,000 jobs retention and creation in Medical, Public safety and education, along with trained employees and start up new business using the upgrade telecommunications.