Executive Summary

Khanjee's Alaska Future Telecom ("AFT") team, which inter alia includes World Innovative Networks, Inc. ("WIN") is experienced in building, owning, and operating infrastructure projects, which include telecom systems for broadband applications. In accordance with the objectives of the broadband provisions of the Recovery Act, AFT is uniquely capable to develop, own, operate and build a wireless system to provide high-speed broadband connectivity to about 142 communities and 143 Federally Recognized Indian Tribes in western and northern Alaska ("Target Areas").

Alaska has more than 300 small and remote communities spread across a vast area of 652,425 square miles. Unfortunately, most of these communities suffer from an inadequate connectivity and high poverty rates. Our Target Areas comprises of about 236,590 square miles, with a population of 71,296 and 28,018 households. These are the primarily “unserved” communities to which AFT will bring affordable and reliable broad band through our proprietary "Last-Mile" solution. Phase One of the AFT plan will provide 50% coverage to the Target Areas.

Our proposal is based on the assumption, that a sub-marine fiber optic link will be approved and funded by BIP and/or BTOP to service the coast of Alaska which will be the platform for AFT’s service to the Target Areas. Fiber optic cable, terrestrial microwave and WiMax are taken for granted in the contiguous 48 states, but have yet to be implemented on a large scale in Alaska. Without a fiber optic cable, our Last-Mile solution is not financially feasible and cannot provide an alternative to the current satellite connections.

Section 254(b)(3) of the 1996 Telecommunications Act states that telecommunications infrastructure should include all parts of the nation, and that telecommunications services should be reasonably comparable for all Americans, yet a great disparity exists between the quality of internet available to Alaskans and that available elsewhere. Currently, most small communities are connected to metropolitan areas solely through satellite links. Satellite links are not well-suited for broadband service and do not constitute a high-speed backbone. In fact, throughout Alaska, satellite "backbone" is a choke point for Internet traffic.

Through the AFT Project, Khanjee proposes a genuine Last-Mile solution that will take broadband to the Target Areas using WiMax and Microwave technology. This technology is based on the IEEE 802.16 standard and allows for 3 Mbits/Second of broadband speed without the need for cables. WiMax technology has been tested and implemented in rough terrain and hard to reach areas for similar applications, around the world. The proposed system will serve as the main telecommunications link between a fiber optic cable and end users across. Build out of Last Mile infrastructure and designed to harness the power and bandwidth of the System, the AFT project will connect the region’s people, hospitals, medical clinics, schools, universities (remote campuses), research entities, NGOs, public safety and civil defense offices,
government institutions, U.S. Coast Guard communications sites, commerce and industry with real telecommunications and Internet services.

Providing much needed broadband service to small businesses, corporations, public institutions, government institutions, non profits and the general population of Alaska poses unique challenges. However, overcoming these challenges also develops new opportunities and creates new jobs. These challenges are unique and primarily geographic. In territory, Alaska’s is the largest state in the nation. It is severely dependent on network and telecommunications for public safety, commerce, government services, health and education services. However, despite its need, Alaska severely lacks a solid telecommunications infrastructure, the result of which is an expensive and inefficient satellite based telecommunications network in rural Alaska.

It is estimated that currently the cost of a T1 to a business in the Target Area is about $10,000 and the average user has broadband speed of 768 Kbps. Once our system is deployed, the cost to business end users is expected to go down by at 50% and speed capacity will double to 1.5 Mbps.

In order for the citizens of Alaska to effectively participate in the economic and civic life of our nation, they need reliable broadband access. Reliable, secure and fast broadband can assist citizens, local and state governments in overcoming their telecommunications infrastructure challenge so that they too can enjoy the same everyday conveniences, efficiencies and economies that are being enjoyed by the rest of the our nation. Reliable broadband service is an essential tool to help overcome some of these problems by expanding economic opportunity, improving health care delivery, extending modern government services, and improving the quality and quantity of educational opportunities and overall information to all citizens.

Providing enhanced broadband will have a tremendous impact for businesses and also on the daily lives of residents. Access to real-time information will empower every resident and community. With a WiMax network reaching every home and business, residents, local authorities and business will have access to real time, 24/7 information, including the latest news, traffic information, weather alerts, GPS, and simply a reliable way to communicate within and out of their communities. For instance, residents will have the ability to report emergencies immediately to authorities, and, authorities in turn will have the ability to respond quickly and effectively with the appropriate tools and information at hand.

The proposed network, once installed, has the ability to evolve with the needs of the communities it serves. A WiMax system not only ensures reliable broad band for online services, but will also allow its users to customize and add on value added applications such as Smart Grid & Utility Management, AMR and AMI Systems, Smart City Applications, University Applications, Mining Applications and renewable energy integration. Across the U.S and the world, cities and communities are adopting WiMax based applications to assist in managing its
valuable natural resources (such as energy), managing work force, enhancing health and safety, tracking weather and other essential data and using WiMax networks to assist their civil defense sectors in tracking and prohibiting crime, and with the latest in security tools making their cities more safe and friendly. Alaska, given its weather and scarce population, will benefit a great deal from such these applications. Once the AFT proposed network is built out and broadband is widely available, industries such as mining, processing, fishing will also be able to customize and install application using the WiMax backbone to fully harness the power of their connectivity.

The Khanjee Team has unique expertise in conceptualizing, developing and implementing “Last Mile Solutions” based on WiMax technology, and has developed an efficient “smart grid” WiMax system under a development agreement with World Innovative Networks, Inc. (“WIN”). Members of the Khanjee Team have also conceptualized and developed the commercialization models for the roll out of WiMax systems outside of the United States and for WIN in order to address needs of “underserved” and “unserved” markets.

With this experience, Khanjee's AFT Project is able to offer on-time and on budget delivery of the network solution. Khanjee envisions 50% Target Areas to have broadband service with 36 months of the date of completion of a fiber optic link along the western and northern areas of the state. We will work with existing QLEC’s to connect unserved areas first and in addition to just broadband connectivity, we will work with the QLECs to offer customers improved voice and data services. The life of our proposed network, when built, will be about 25 years. However, as WiMax technology improves, our system will also improve and its life will be elongated with upgrades and innovation. Value-added applications for consumers, the energy industry and the mining industry, among others, will be routinely added and maintained to enhance the Target Areas connectivity experience.

Through this BIP application, Khanjee, a minority owned business, seeks to demonstrate its commitment to Alaska’s telecommunications future. Indeed, our proposal is timely because a fiber optic cable solution exists today to service the Target Areas. The AFT Project creates the value proposition for the citizens of Alaska from the fiber optic cable.