



Tribal Broadband Discussion

Native American Development Corporation

Presentation

Billings, MT

May 19, 2016



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PRESENTER:

Anika Evans is the Program Manager for Nakaani Telecom, LLC, a subsidiary of Highliner Consulting Group, LLC.

Anika Evans has over eighteen (18) years experience in project management, business development and network engineering in the commercial and educational construction industries in both federal, local and tribal sectors.

Anika Evans has a public service record as a board member for Gila River Telecommunications, Inc. (GRTI) for seven years and Gila River Indian Community Utility Authority (GRICUA) for two years. She is a ½ Akimel O’Otham (Pima) tribal member in the Gila River Indian Community, south of Phoenix, AZ.

Anika Evans has a bachelors degree in Agribusiness from Arizona State University, as well as extensive undergraduate studies in computer systems engineering at ASU and professional studies in veterinary medicine at Colorado State University.

Highliner Consulting’s Project Management Team consists of professionals who hold Project Management Professional (PMP), Six Sigma as well as Master Degrees in Project Management. This training also incorporates elements of our collective team input and experience.

FEDERAL RESOURCES

- Federal Communications Commission (FCC)
- Universal Service Administration Corp (USAC)
- U.S. Department of Agriculture (USDA)
 - Rural Utility Services
- U.S. Department of Commerce (DOC)
 - National Telecommunications and Information Administration (NTIA)
- U.S. Department of Homeland Security (DHS)

FCC

- Eligible Telecommunications Carrier (ETC status)
 - Federal Designation vs. State Corporation Commission
 - Required for Landline and Cellular Providers
- Office of Native Affairs and Policy (ONAP)
- 2011 USF Reform Order
 - Tribal Engagement: USF, Lifeline & Link-Up

FCC

- Connect American Fund (CAF)
 - 2011 Tribal Mobility Fund: Round 1 - 2013, \$50M; Redundant Rounds - \$100M (Dates TBA)
 - 2013 Database implemented to identify Lifeline recipients and prevent abuse
 - 2013 FCC started implementing harsh fines for abusers (more than one line per subscriber)
 - 2014 FCC Developing E-Rate III

USAC

- Administers all service providers and recipients of CAF monies
- E-Rate Administration
 - Supplements cost of delivery for broadband access for schools, libraries and health care facilities

USDA

- Rural Utility Services Loans
 - Telecommunications: Eligible Telecommunications Carriers (ETC)
 - Local Exchange Carriers: Incumbent/Competitive
 - Electrification
- Rural Development
 - Community Connect Grants (Due 6/17/2016)

NTIA

- Administrator of all U.S. Spectrum Interests
- Broadband Technology Opportunities Program (BTOP)
 - BTOP recipients and subrecipients:
<http://broadbandworkshop.pbworks.com/w/page/44990123/FrontPage>. If you do not have access, click “request access” and a username and password will be granted to you shortly.

UNITED STATES FREQUENCY ALLOCATIONS THE RADIO SPECTRUM

RADIO SERVICE COLOR LEGEND

Aeronautical mobile (AM)	Broadcast auxiliary (BA)	Broadcast radio (BR)
Aeronautical mobile (A1)	Broadcast radio (B1)	Broadcast radio (B2)
Aeronautical mobile (A2)	Broadcast radio (B3)	Broadcast radio (B4)
Aeronautical mobile (A3)	Broadcast radio (B5)	Broadcast radio (B6)
Aeronautical mobile (A4)	Broadcast radio (B7)	Broadcast radio (B8)
Aeronautical mobile (A5)	Broadcast radio (B9)	Broadcast radio (B10)
Aeronautical mobile (A6)	Broadcast radio (B11)	Broadcast radio (B12)
Aeronautical mobile (A7)	Broadcast radio (B13)	Broadcast radio (B14)
Aeronautical mobile (A8)	Broadcast radio (B15)	Broadcast radio (B16)
Aeronautical mobile (A9)	Broadcast radio (B17)	Broadcast radio (B18)
Aeronautical mobile (A10)	Broadcast radio (B19)	Broadcast radio (B20)
Aeronautical mobile (A11)	Broadcast radio (B21)	Broadcast radio (B22)
Aeronautical mobile (A12)	Broadcast radio (B23)	Broadcast radio (B24)
Aeronautical mobile (A13)	Broadcast radio (B25)	Broadcast radio (B26)
Aeronautical mobile (A14)	Broadcast radio (B27)	Broadcast radio (B28)
Aeronautical mobile (A15)	Broadcast radio (B29)	Broadcast radio (B30)
Aeronautical mobile (A16)	Broadcast radio (B31)	Broadcast radio (B32)
Aeronautical mobile (A17)	Broadcast radio (B33)	Broadcast radio (B34)
Aeronautical mobile (A18)	Broadcast radio (B35)	Broadcast radio (B36)
Aeronautical mobile (A19)	Broadcast radio (B37)	Broadcast radio (B38)
Aeronautical mobile (A20)	Broadcast radio (B39)	Broadcast radio (B40)
Aeronautical mobile (A21)	Broadcast radio (B41)	Broadcast radio (B42)
Aeronautical mobile (A22)	Broadcast radio (B43)	Broadcast radio (B44)
Aeronautical mobile (A23)	Broadcast radio (B45)	Broadcast radio (B46)
Aeronautical mobile (A24)	Broadcast radio (B47)	Broadcast radio (B48)
Aeronautical mobile (A25)	Broadcast radio (B49)	Broadcast radio (B50)
Aeronautical mobile (A26)	Broadcast radio (B51)	Broadcast radio (B52)
Aeronautical mobile (A27)	Broadcast radio (B53)	Broadcast radio (B54)
Aeronautical mobile (A28)	Broadcast radio (B55)	Broadcast radio (B56)
Aeronautical mobile (A29)	Broadcast radio (B57)	Broadcast radio (B58)
Aeronautical mobile (A30)	Broadcast radio (B59)	Broadcast radio (B60)
Aeronautical mobile (A31)	Broadcast radio (B61)	Broadcast radio (B62)
Aeronautical mobile (A32)	Broadcast radio (B63)	Broadcast radio (B64)
Aeronautical mobile (A33)	Broadcast radio (B65)	Broadcast radio (B66)
Aeronautical mobile (A34)	Broadcast radio (B67)	Broadcast radio (B68)
Aeronautical mobile (A35)	Broadcast radio (B69)	Broadcast radio (B70)
Aeronautical mobile (A36)	Broadcast radio (B71)	Broadcast radio (B72)
Aeronautical mobile (A37)	Broadcast radio (B73)	Broadcast radio (B74)
Aeronautical mobile (A38)	Broadcast radio (B75)	Broadcast radio (B76)
Aeronautical mobile (A39)	Broadcast radio (B77)	Broadcast radio (B78)
Aeronautical mobile (A40)	Broadcast radio (B79)	Broadcast radio (B80)
Aeronautical mobile (A41)	Broadcast radio (B81)	Broadcast radio (B82)
Aeronautical mobile (A42)	Broadcast radio (B83)	Broadcast radio (B84)
Aeronautical mobile (A43)	Broadcast radio (B85)	Broadcast radio (B86)
Aeronautical mobile (A44)	Broadcast radio (B87)	Broadcast radio (B88)
Aeronautical mobile (A45)	Broadcast radio (B89)	Broadcast radio (B90)
Aeronautical mobile (A46)	Broadcast radio (B91)	Broadcast radio (B92)
Aeronautical mobile (A47)	Broadcast radio (B93)	Broadcast radio (B94)
Aeronautical mobile (A48)	Broadcast radio (B95)	Broadcast radio (B96)
Aeronautical mobile (A49)	Broadcast radio (B97)	Broadcast radio (B98)
Aeronautical mobile (A50)	Broadcast radio (B99)	Broadcast radio (B100)
Aeronautical mobile (A51)	Broadcast radio (B101)	Broadcast radio (B102)
Aeronautical mobile (A52)	Broadcast radio (B103)	Broadcast radio (B104)
Aeronautical mobile (A53)	Broadcast radio (B105)	Broadcast radio (B106)
Aeronautical mobile (A54)	Broadcast radio (B107)	Broadcast radio (B108)
Aeronautical mobile (A55)	Broadcast radio (B109)	Broadcast radio (B110)
Aeronautical mobile (A56)	Broadcast radio (B111)	Broadcast radio (B112)
Aeronautical mobile (A57)	Broadcast radio (B113)	Broadcast radio (B114)
Aeronautical mobile (A58)	Broadcast radio (B115)	Broadcast radio (B116)
Aeronautical mobile (A59)	Broadcast radio (B117)	Broadcast radio (B118)
Aeronautical mobile (A60)	Broadcast radio (B119)	Broadcast radio (B120)
Aeronautical mobile (A61)	Broadcast radio (B121)	Broadcast radio (B122)
Aeronautical mobile (A62)	Broadcast radio (B123)	Broadcast radio (B124)
Aeronautical mobile (A63)	Broadcast radio (B125)	Broadcast radio (B126)
Aeronautical mobile (A64)	Broadcast radio (B127)	Broadcast radio (B128)
Aeronautical mobile (A65)	Broadcast radio (B129)	Broadcast radio (B130)
Aeronautical mobile (A66)	Broadcast radio (B131)	Broadcast radio (B132)
Aeronautical mobile (A67)	Broadcast radio (B133)	Broadcast radio (B134)
Aeronautical mobile (A68)	Broadcast radio (B135)	Broadcast radio (B136)
Aeronautical mobile (A69)	Broadcast radio (B137)	Broadcast radio (B138)
Aeronautical mobile (A70)	Broadcast radio (B139)	Broadcast radio (B140)
Aeronautical mobile (A71)	Broadcast radio (B141)	Broadcast radio (B142)
Aeronautical mobile (A72)	Broadcast radio (B143)	Broadcast radio (B144)
Aeronautical mobile (A73)	Broadcast radio (B145)	Broadcast radio (B146)
Aeronautical mobile (A74)	Broadcast radio (B147)	Broadcast radio (B148)
Aeronautical mobile (A75)	Broadcast radio (B149)	Broadcast radio (B150)
Aeronautical mobile (A76)	Broadcast radio (B151)	Broadcast radio (B152)
Aeronautical mobile (A77)	Broadcast radio (B153)	Broadcast radio (B154)
Aeronautical mobile (A78)	Broadcast radio (B155)	Broadcast radio (B156)
Aeronautical mobile (A79)	Broadcast radio (B157)	Broadcast radio (B158)
Aeronautical mobile (A80)	Broadcast radio (B159)	Broadcast radio (B160)
Aeronautical mobile (A81)	Broadcast radio (B161)	Broadcast radio (B162)
Aeronautical mobile (A82)	Broadcast radio (B163)	Broadcast radio (B164)
Aeronautical mobile (A83)	Broadcast radio (B165)	Broadcast radio (B166)
Aeronautical mobile (A84)	Broadcast radio (B167)	Broadcast radio (B168)
Aeronautical mobile (A85)	Broadcast radio (B169)	Broadcast radio (B170)
Aeronautical mobile (A86)	Broadcast radio (B171)	Broadcast radio (B172)
Aeronautical mobile (A87)	Broadcast radio (B173)	Broadcast radio (B174)
Aeronautical mobile (A88)	Broadcast radio (B175)	Broadcast radio (B176)
Aeronautical mobile (A89)	Broadcast radio (B177)	Broadcast radio (B178)
Aeronautical mobile (A90)	Broadcast radio (B179)	Broadcast radio (B180)
Aeronautical mobile (A91)	Broadcast radio (B181)	Broadcast radio (B182)
Aeronautical mobile (A92)	Broadcast radio (B183)	Broadcast radio (B184)
Aeronautical mobile (A93)	Broadcast radio (B185)	Broadcast radio (B186)
Aeronautical mobile (A94)	Broadcast radio (B187)	Broadcast radio (B188)
Aeronautical mobile (A95)	Broadcast radio (B189)	Broadcast radio (B190)
Aeronautical mobile (A96)	Broadcast radio (B191)	Broadcast radio (B192)
Aeronautical mobile (A97)	Broadcast radio (B193)	Broadcast radio (B194)
Aeronautical mobile (A98)	Broadcast radio (B195)	Broadcast radio (B196)
Aeronautical mobile (A99)	Broadcast radio (B197)	Broadcast radio (B198)
Aeronautical mobile (A100)	Broadcast radio (B199)	Broadcast radio (B200)

ACTIVITY CODE

Aeronautical mobile (AM) Broadcast radio (BR)

ALLOCATION USAGE DESIGNATION

ALLOCATION	CLASSIFICATION	OPERATIONAL
Primary	Secondary	Shared
Exclusive	Non-exclusive	Co-primary
Priority	Non-priority	Co-secondary
Special	Non-special	Co-priority
Reserved	Non-reserved	Co-secondary
...

U.S. DEPARTMENT OF COMMERCE
National Telecommunications and Information Administration
Office of Spectrum Management
August 2011



NTIA

- Tribal Mobility Fund: \$100M annual funding
 - Eligibility is based on census block population
 - Reverse Auctions: lowest bidder awarded the project
 - Tribe must have access to spectrum (51% partner)
 - Must provide a letter of credit
 - Must have ETC status

NTIA

- FirstNet: First Responders Network
 - 2012 Middle Class Relief and Job Creations Act
 - Nationwide ubiquitous network – 4G/LTE, to provide first responders with high-speed, broadband network dedicated to public safety.
 - 700 MHz D block allocated for disaster response and public safety

Do NOT allow them to classify Alaska as “Frontier.”

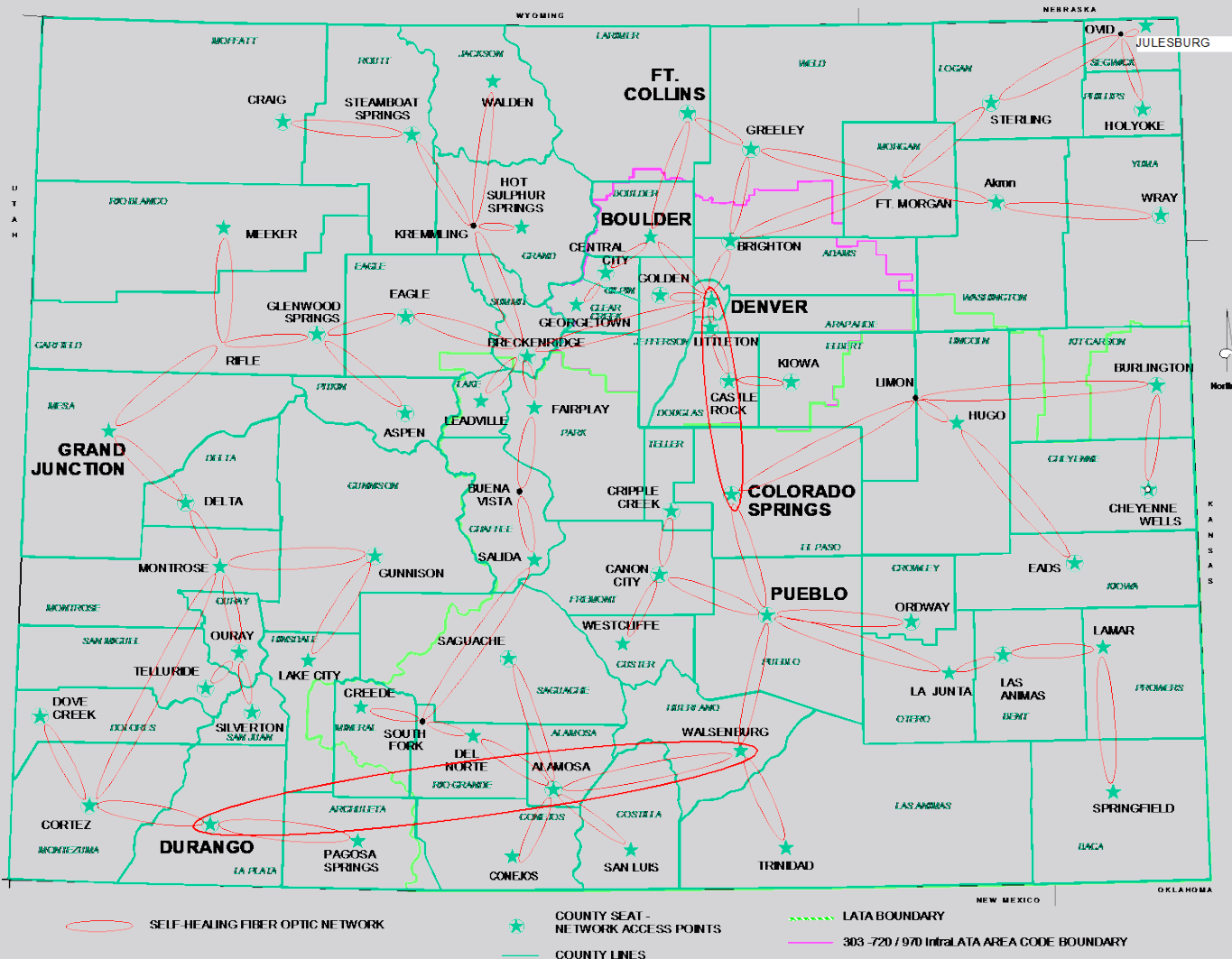
DHS

- Northwest Borderland Communications Group
 - Interactive group identifying used and usable spectrum technologies along U.S. borders
 - Negotiates with Canada and Russia on all wireless network communications, including radio and television broadcast

OTHER RESOURCES

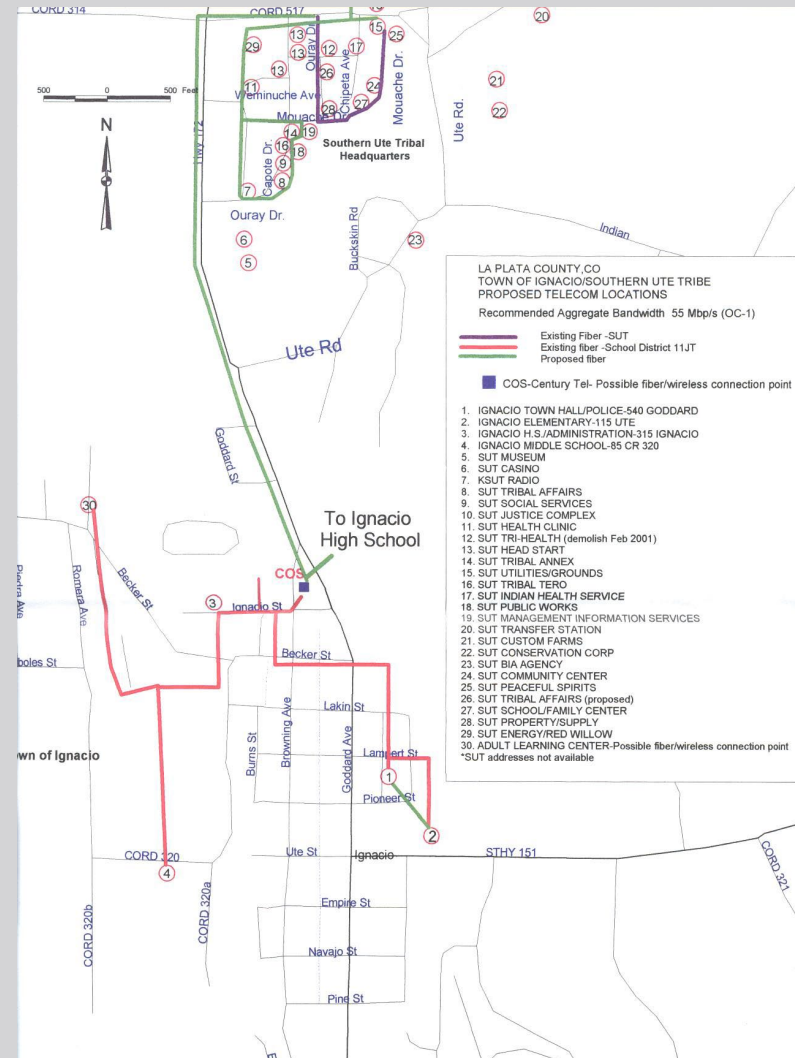
- Competitive Local Exchange Carriers (CLEC)
 - Alaska Telephone Association
 - GCI: in certain locations
 - ACS: in certain locations
- Local cable companies
- Satellite services: Earth Stations
- Wireless providers: Spectrum Licenses
 - Potential partners for Tribal Consortia

COLORADO HIGH SPEED DIGITAL NETWORK



Southern Ute Tribe

■ Ignacio



CHALLENGES

- Active Volcanoes
- Aleutian Trench
 - Located along major tectonic plates
 - Earthquake zone
 - Tidal wave zone
- Active Fishing Industries

OUR SERVICES

- Business Plan Development
 - Feasibility studies
- Project Development, Design & Management
 - Contract management
- Consortium Negotiation
 - Regional Tribal Corporations
 - Alaskan Telecommunication Carriers
 - State Options
 - Federal Legislation & Policy

OUR SERVICES

- Identification of Funding Sources
 - Grant application and administration
 - Investor identification and relations



TRIBAL BROADBAND DISCUSSION
Questions – Feedback - Follow-up

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**THANK YOU FOR YOUR TIME AND
PARTICIPATION**

QUESTIONS



RESOURCES

FCC Office of Native Affairs

<http://www.fcc.gov/native>

Tribal Engagement

http://hraunfoss.fcc.gov/edocs_public/attachmatch/FC-C-11-161A1.pdf