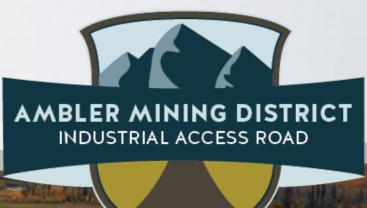


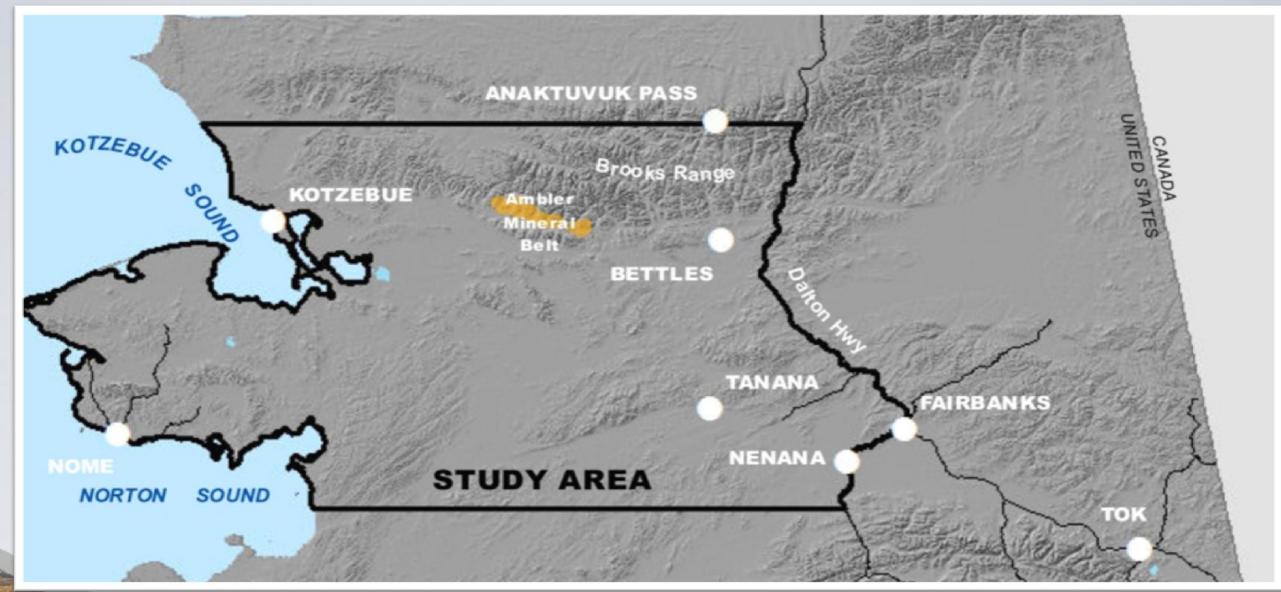
Purpose of the Project

- Construct surface access (industrial) to the Ambler Mining District
- Support exploration and development of mineral resources in the Ambler Mining District





Where is the Ambler Mining District?





Resource Rich Region

- 75 mile long Stateowned mineralized area,
- Copper, zinc, lead, silver and gold
- Key deposits:
 - Arctic (Nova Copper)
 - Sun (Andover Ventures)
 - Bornite (NANA)
 - Smucker (Teck Cominco)



Mine feasibility studies show overland transportation is required for mining to be economically feasible



Project Development To Date

- DOT&PF initiated transportation reconnaissance efforts in 2010
 - Community outreach/consultation
 - Project website, 20+ public meetings, newsletters/emails
- Preliminary engineering
 - Design criteria, corridor identification/analysis, cost estimating
- Preliminary baseline environmental research
 - Preliminary wetland/vegetation mapping, baseline biological studies
 - Socioeconomic analysis, subsistence study data gap analysis
- Other work completed
 - Aerial and contour mapping, geotechnical investigations
- Identified feasible routes



Analysis of Preliminary Corridors

- Preliminary corridors were evaluated on:
 - Corridor length
 - Federal Conservation System units (e.g. wildlife refuges)
 - Wild and Scenic Rivers
 - Salmon/sheefish habitats
 - Caribou habitats
 - Threatened/endangered species and critical habitats
 - Wetland habitats
 - Availability of material sites
 - Construction/maintenance cost



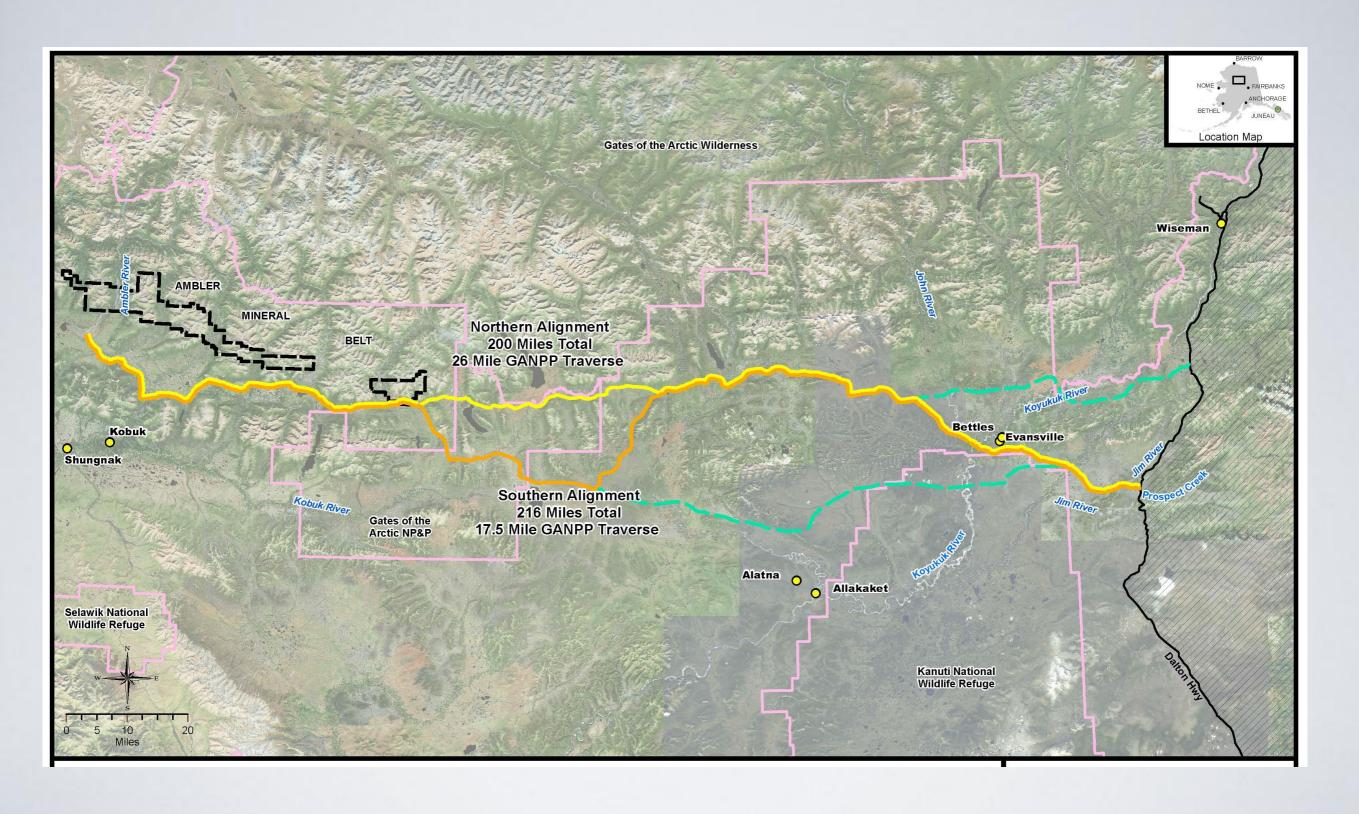


Brooks East Corridor

- 200+/- miles long
- Four maintenance stations
- 15 large bridges (>150 feet)
- Least caribou impacts, no endangered species impacts
- Least impact on salmon/sheefish habitats
- Corridor through Gates of the Arctic National Park & Preserve was reserved in ANILCA
- Generalized Land Status
 - 120+/- miles on State land
 - 20-30 miles on federal (NPS/BLM) land
 - 40+/- miles on ANCSA Corporation lands



Proposed Corridor and Alternatives



Community Input on Proposed Access

- High level of interest in communities throughout the region
- Many of the comments have centered on:
 - Subsistence impacts
 - Economic issues (employment, cost of living, etc.)
 - Access (restricted vs. public) and number of vehicles
 - Environmental issues (wilderness, asbestos, acid rock drainage)





Different than Dalton Highway

- Was constructed using a public ROW from BLM and closed by Commissioner of Transportation
- Dalton Highway ROW was owned by State and road was managed by DOT&PF – Commissioner had authority to open or close road
- Dalton Highway was placed on the Federal Aid Highway System – allowed federal funds to be used for maintenance

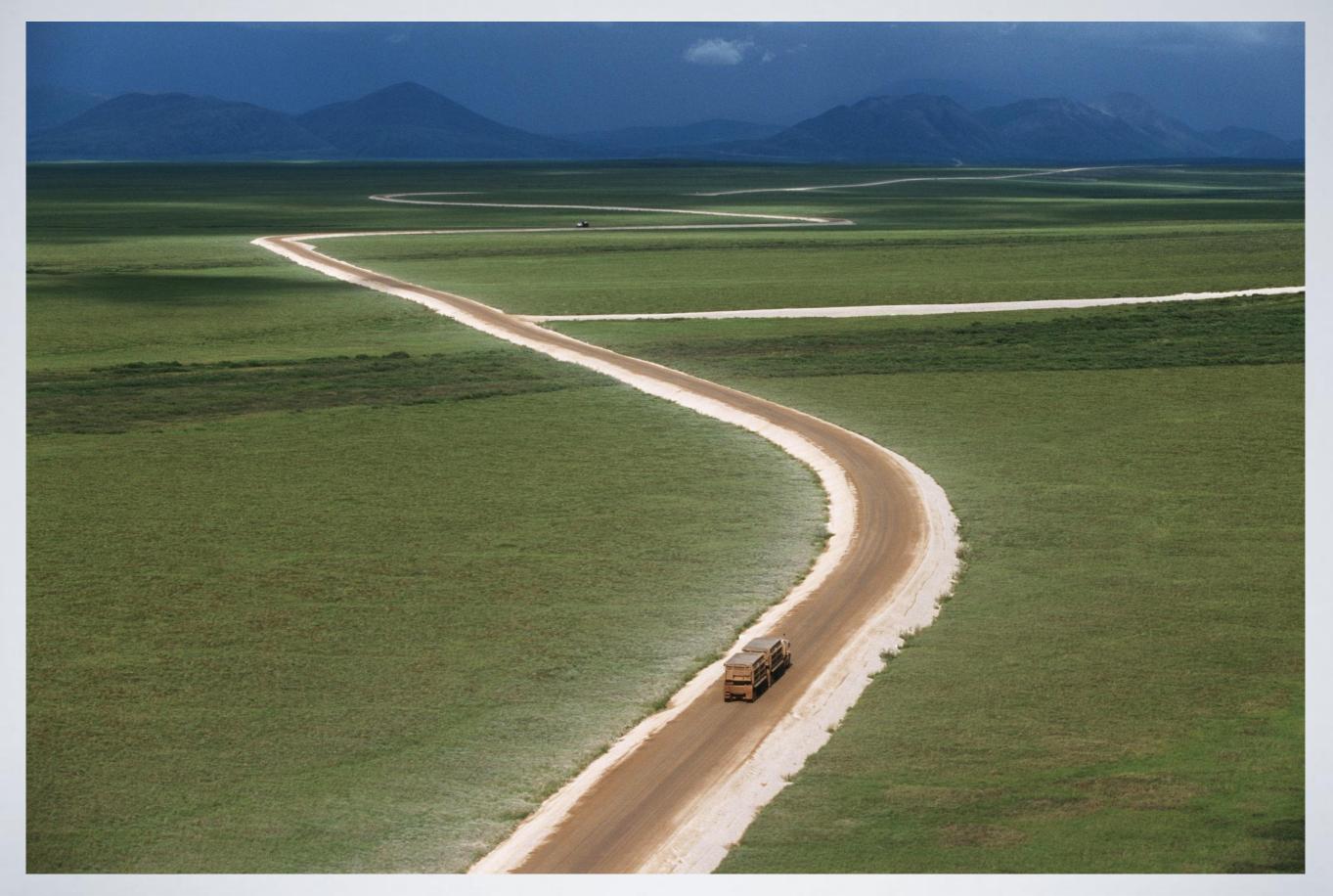


Similar to Red Dog Mine Road

- Controlled access for industrial use only
- Road is narrower and lower than public highway
- User tolls used to fund/repay construction and maintenance
- Lessons learned on Red Dog Mine Road:
 - How to deal with caribou crossing road
 - Working with local community to identify needed road crossings
 - Covered/closed containers to limit potential for dust
 - Commercial driver training/enforcement



Red Dog Mine Road



Proposed Project Schedule

- Community Outreach/Consultation
- Routing/Reconnaissance Studies
- Baseline Environmental
- Preliminary Engineering
- Submit permit app. to initiate EIS
- Public Private Partnership Development
- Permitting/Final Design
- Construction Start

- **2011-2018**
- **2010-2013**
- **2012-2015**
- **2013-2015**
- **2014**
- **2016**
- **2016-2018**
- **2019**



Proposed Tasks FY2015

- Environmental documentation/permitting
 - EIS coordination
 - Continued Agency consultations
- Community outreach/meetings
- Additional baseline studies
 - Additional hydrology studies (UAF, contractor)
 - Additional biological studies (ADF&G, contractors)
 - Cultural resources and subsistence studies (ADF&G, contractors)
 - Additional geotechnical studies (DOT&PF, contractor)
 - Additional economic/financial studies
- Preliminary engineering
 - Support for NEPA review (alignment refinement, alternative alignments)



FY15 Activities Funding

AGENCY	FY15	SCOPE OF WORK				
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Project Mgmt/Legal	\$1,250,000	AIDEA personnel charges, outside legal counsel for NEPA process.				
Public Outreach	\$700,000	PI services including local community liaison services.				
Third-Party EIS	\$1,000,000	Third-party contractor to work on EIS under lead federal agency direction.				
Hydrology Studies	\$600,000	Meteorological data collection, stream gauging on the 4-5 major rivers, snow surveys (snow depth and snow water equivalent), suspended/bedload sediment studies.				
Fisheries Studies	\$1,200,000	Fisheries and habitat studies by ADF&G over 2-3 years.				
Geotechnical Studies	\$1,000,000	DOT&PF geotechnical drilling and studies to identify material site, quantify material site quantities, and provide geotechnical recommendations.				
Health Impact Assessment	\$500,000	DNR OPMP project coordination manager and HIA development. HIA funding assumed to be split btw FY15 and FY16.				
Other Enviro/Engineering	\$1,250,000	Cultural resources, other environmental, engineering support for EIS and permitting.				
Federal Cost Reimbursement	\$1,000,000	NPS/FHWA cost recovery as allowed under federal law for processing ROW permit application on federal lands.				
TOTAL	\$8,500,000					

AMBLER MINING DISTRICT INDUSTRIAL ACCESS ROAD

Project Cost to Completion Estimates

Phase	FY15	FY16	FY17	FY18	FY19	Total
Pre-Design/Enviro	\$8.5	\$8.5	\$7.0	\$6.5		\$30.5
35% Design/Permitting				\$5	\$5	\$10
Right-of-Way					\$3.5	\$3.5
Design/Construction (Design/Build)					\$290-400	\$290-400
Total	\$8.5	\$8.5	\$7.0	\$11.5	\$298.5-408.5	\$334-444



Introduction to Public Private Partnerships (P3)

- P3 is a project delivery method
- Combines design, build, finance, operate & maintain functions
- Allocates different risks to the public & private sectors
- US leads the world in power P3 but lags in other sectors
- Transportation P3 now gaining momentum in US



Rationale for P3

- Transfer design, construction, O&M risk to private sector
- Provide incentives for cost control & proper maintenance
- Attract subordinate equity financing

Cash Flow Waterfall





Spectrum of P3 Options

