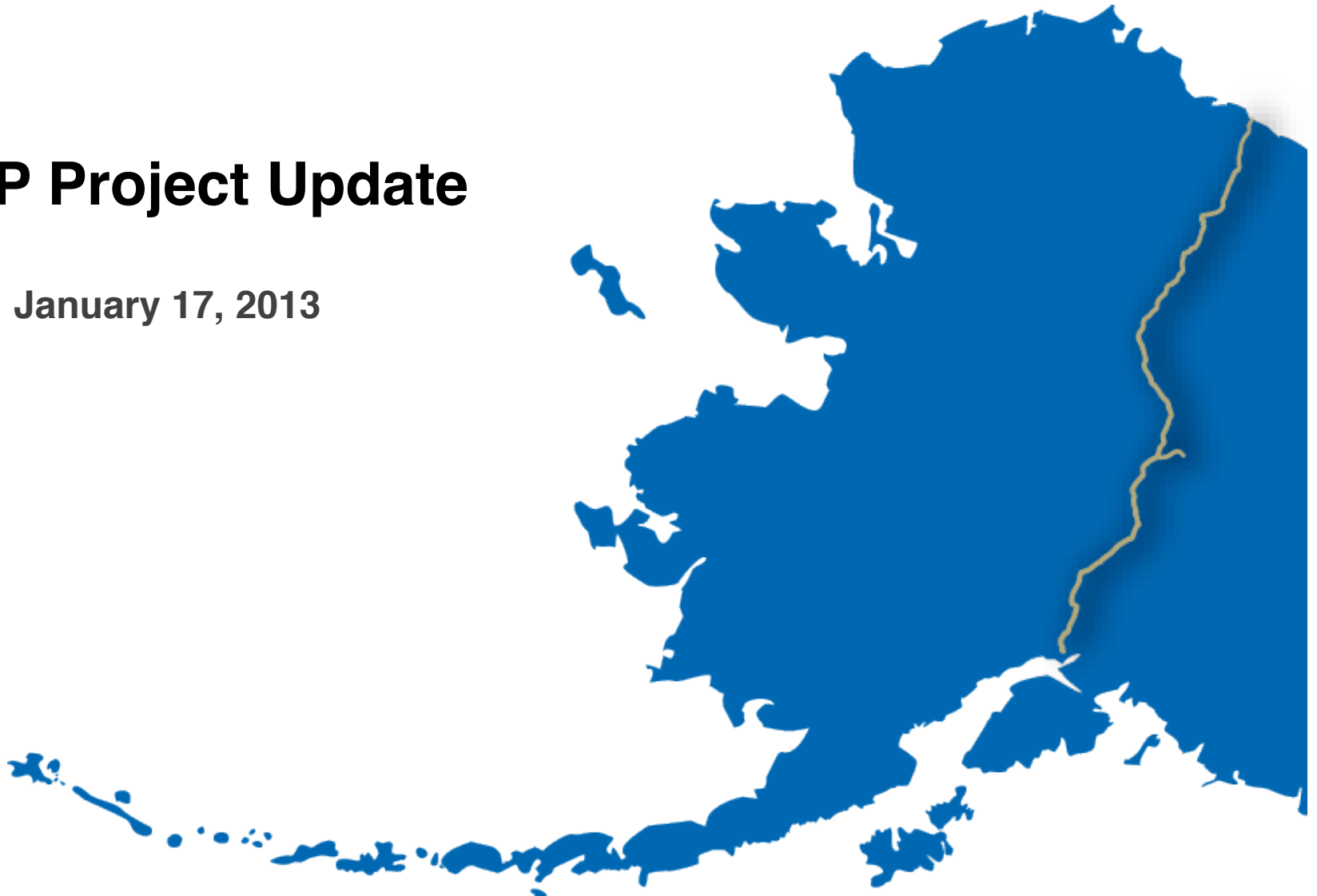


ASAP

Alaska Stand Alone Gas Pipeline

ASAP Project Update

January 17, 2013



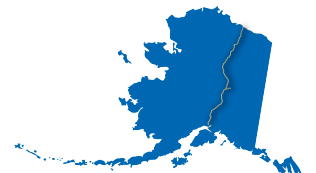
Who? AGDC and What? ASAP

April 2010: HB 369 mandated that **Alaska Housing Finance Corporation (AHFC)** facilitate development of a plan for an in-state pipeline *project*.

July 2010: AHFC established the **Alaska Gasline Development Corporation (AGDC)** as a subsidiary corporation to take over *project* planning and execution.

ASAP is that *project*: the **Alaska Stand Alone Pipeline**.
Also known as the in-state pipeline.

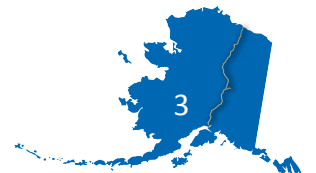
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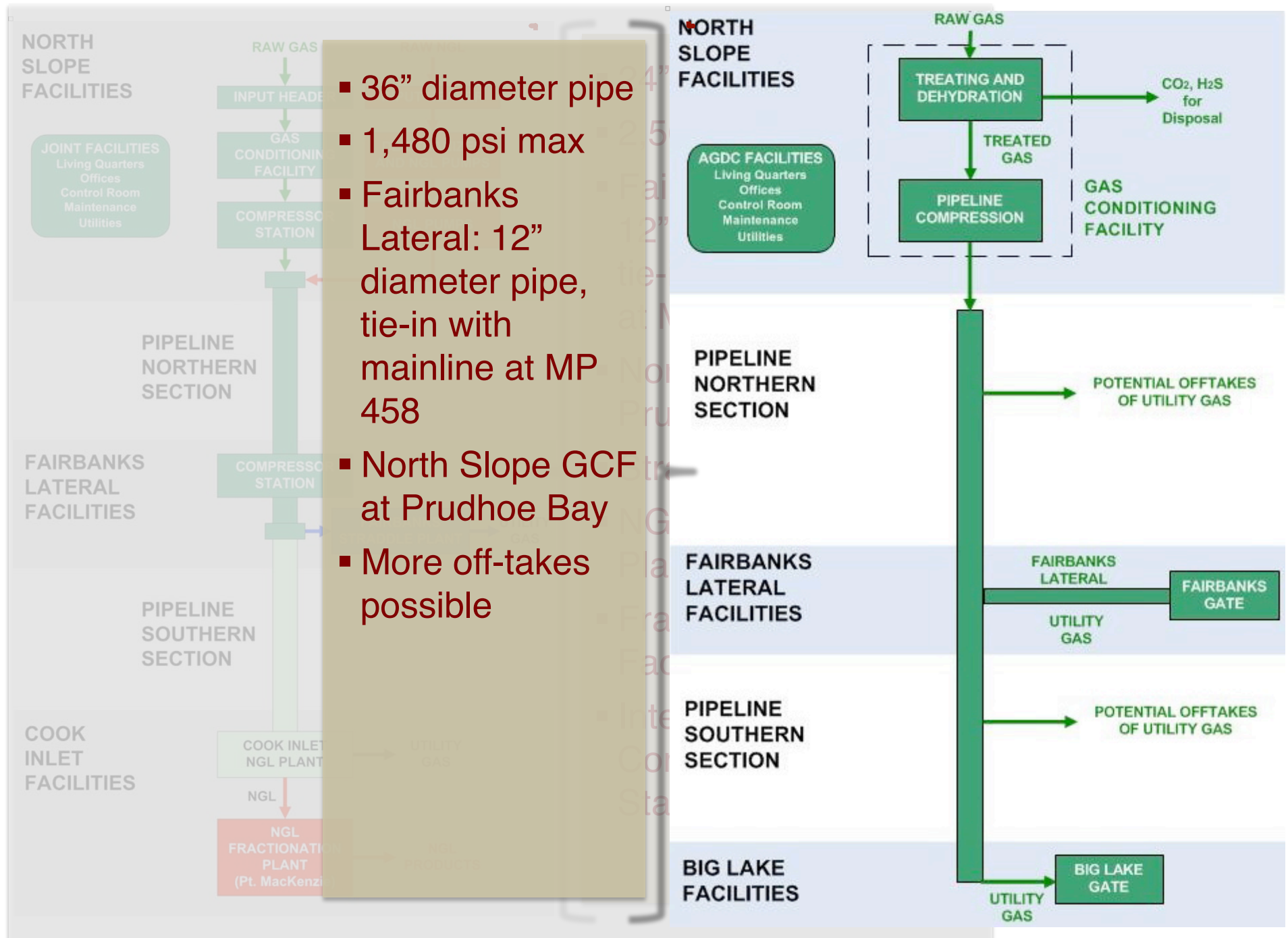
ASAP Progress Up-date

- 604 miles of State Right-of-Way lease; includes Fairbanks lateral
- Final Environmental Impact Statement (FEIS) completed November 2012
- FEIS Record of Decision expected January 2013
- 100 miles of federal Right-of-Way expected
- AGDC team optimized the project plan to Lean Gas
- Up-dated capital costs and tariff models
- Contracted a facility design firm
- Identified enabling legislation required to move ASAP forward

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2011 Plan vs. Optimized Project Plan

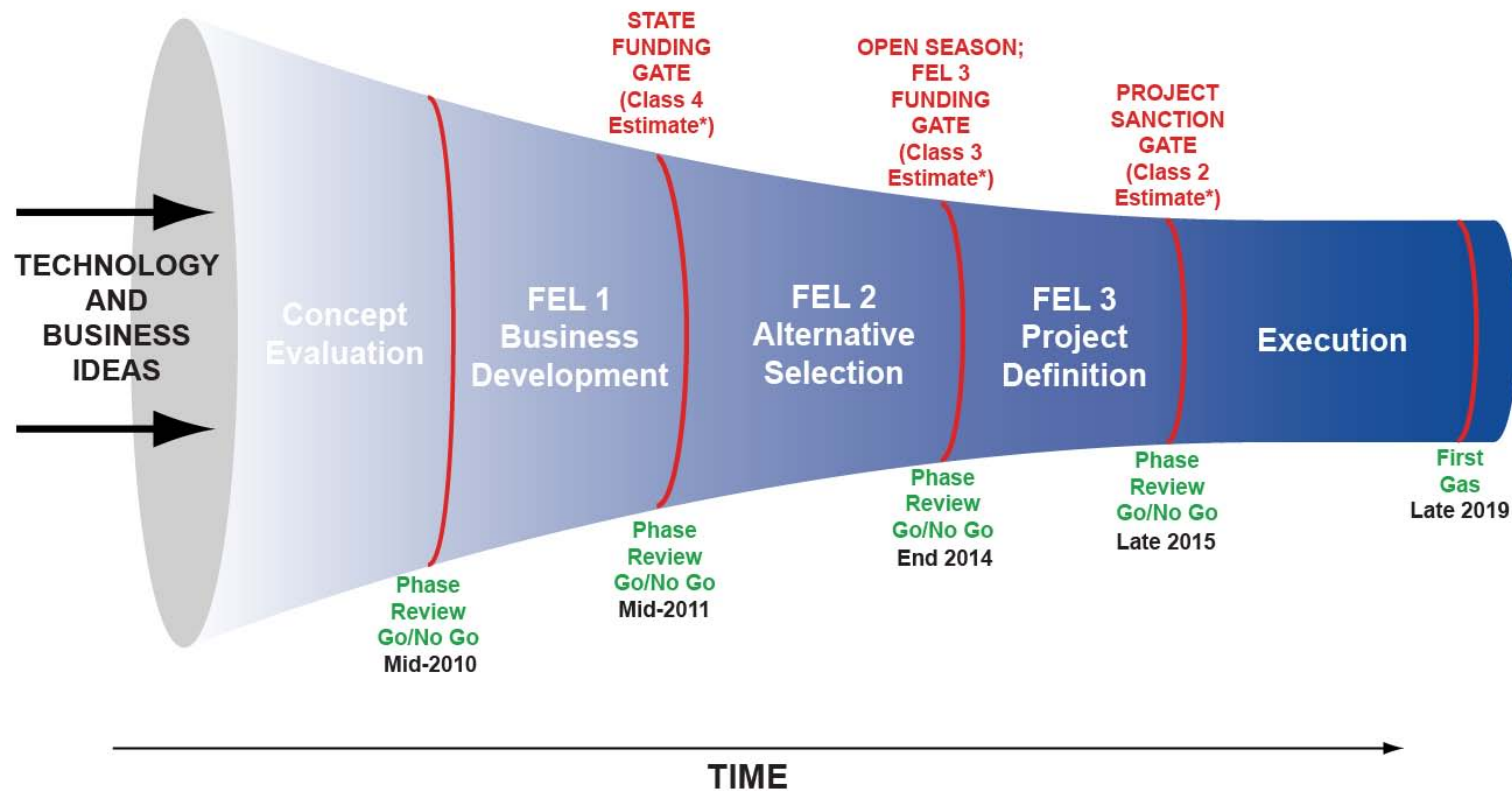


Optimized Project Plan Benefits

Issues	Optimized Project Plan (Lean Gas)	July 2011 Project Plan
Customers	<ul style="list-style-type: none"> ▪ Easier and less expensive connections ▪ More off-take points ▪ More potential customers and greater access ▪ Deliver natural gas to Alaskans by 2019 	<ul style="list-style-type: none"> ▪ Costly connections ▪ Fewer off-take points for Alaskans
EIS/Permits	<ul style="list-style-type: none"> ▪ Supplemental environmental document required with minimal impact to schedule ▪ Smaller footprint and reduced carbon impacts 	<ul style="list-style-type: none"> ▪ Risk of carbon tax ▪ More permits; greater complexity/impact ▪ FEIS complete (November 2012)
Complexity	<ul style="list-style-type: none"> ▪ Less risk — One facility (GCF) with standard pressure & equipment ▪ Design process less costly ▪ Propane extraction still available for in-state demand 	<ul style="list-style-type: none"> ▪ 5 + facilities with high pressure pipeline and specialized materials and equipment required
Tariff	<ul style="list-style-type: none"> ▪ Lower tariff 	<ul style="list-style-type: none"> ▪ Higher tariff
Cost	<ul style="list-style-type: none"> ▪ \$7.7B (+/- 30%) in \$2012 ▪ Lower construction risk ▪ Lower O&M costs 	<ul style="list-style-type: none"> ▪ \$7.5B (+/- 30%) in \$2011 (<u>\$7.7B in @2012</u>) ▪ Higher construction risk ▪ Higher O&M costs
Political / External	<ul style="list-style-type: none"> ▪ Improved economics for Interior users ▪ Increased customer base with ease of connections ▪ Requires enabling legislation to more effectively and efficiently advance the project and schedule ▪ NOT viewed as competition to AGIA 	<ul style="list-style-type: none"> ▪ Petrochemical plant ambitions ▪ Lack of market for by-products ▪ Efficiencies not realized ▪ NOT viewed as competition to AGIA

Stage Gate Approach

Front-End Development Progressively Narrows Uncertainty of Cost and Schedule



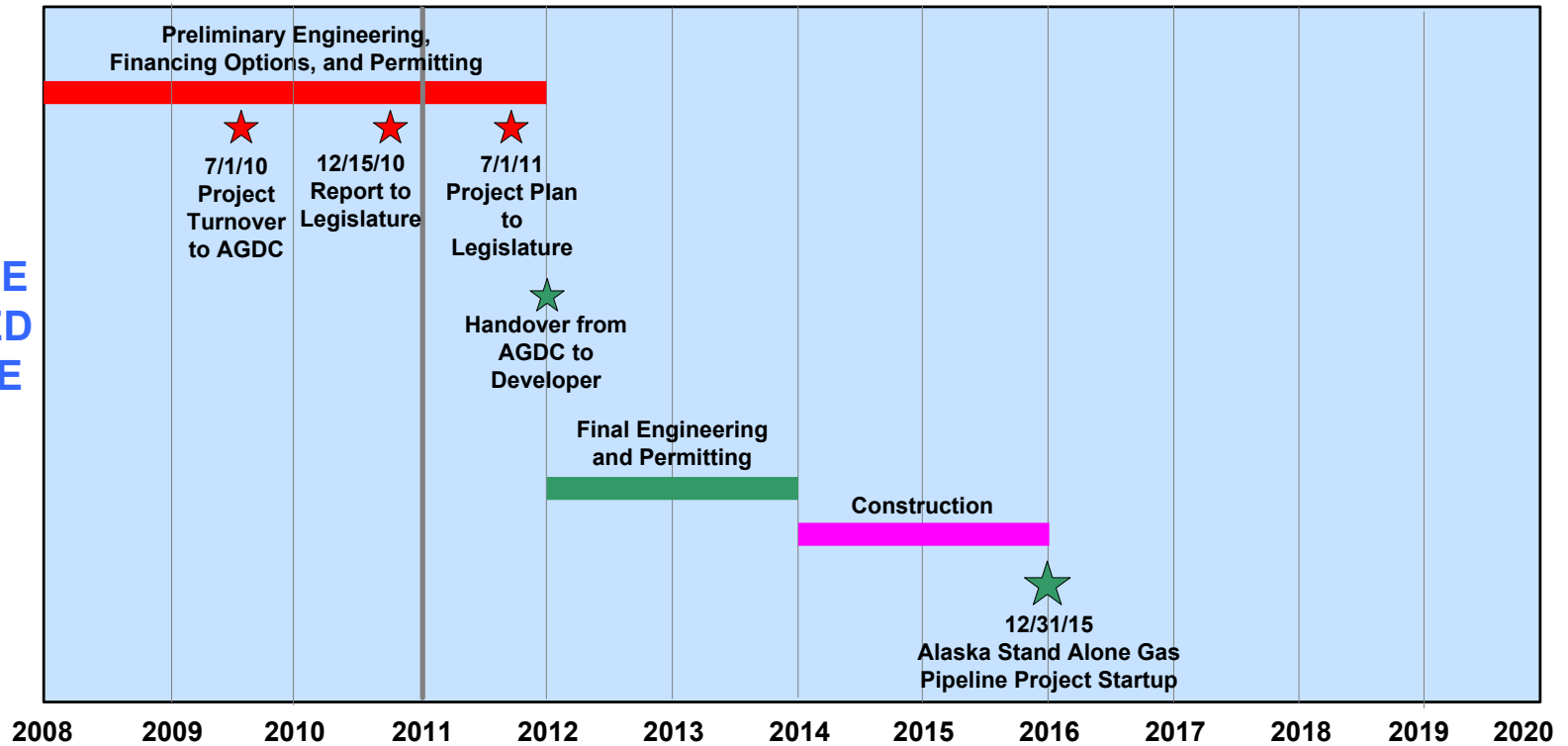
*Refers to AACE cost estimate classes (Association for the Advancement of Cost Engineering). The lower the class number, the higher the confidence in the accuracy of the estimate.

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ASAP Optimized Project Schedule

**SCHEDULE
MANDATED
BY HOUSE
BILL 369**



**OPTIMIZED
SCHEDULE
(Front-end loaded)**



Rev. 9/24/12

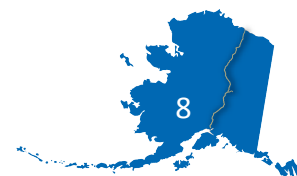
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Optimized Project Tariff Update

- Longer term: 30-year levelized vs. original 20-year
- Updated capital cost estimates with more appropriate contingency
 - ✓ Pipeline now 10% vs. 5% (facilities 30%)
- Equity share and return on equity adjusted
 - ✓ Debt/equity split now 75/25 vs. 70/30
 - ✓ ROE 11% vs. 12%
- Year delay (\$2011 -> \$2012)
- 2.5% inflation per year

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Tariff Assumptions Comparisons

	Alaska Gasline Tariffs - Key Assumptions			
	APP 2010	Denali 2010	ASAP July 2011	ASAP 2012
Levelized term	20-35 yr (80% over 25 yrs)	20 yrs min (80% of capex)	20 years	30 years
Debt/Equity (Long term)	75/25	75/25	70/30	75/25
Debt/Equity (During Construction)	70/30* (For later capex or expansion)	70/30	70/30	75/25
Return on equity	12%	12-14%	12%	11%
Cost of debt	5.10%	5.10%	5.70%	5.70% (3.75% during construction)
Compounding			Semi-annual	Annual
State Contribution	-	-	\$400 MM	\$400 MM
Depreciation	25 years	25 years	20 years	30 years
Inflation	-	-	3%	2.50%
Property taxes	-	-	2% of total capex (flat)	2% of total capex (flat)
Operating costs	-	-	2%	2%
Pipe	48"	48"	24"	36"
Volume	4.5-5.9 BCFD (3 BCFD to Valdez)	4.5-5.6 BCFD	500 MMSCFD	500 MMSCFD
Pressure (Max)	2500 psi	2500 psi	2500 psi	1480 psi
Gas (BTU/Mscf)	1117 MMBTU	1117 MMBTU	1218 MMBTU	1068 MMBTU
Capex	\$32-41 Bn (\$2009) (Valdez: \$20-26 Bn)	\$35.5 Bn (\$2009)	\$7.52 Bn (\$2011) [\$7.75 Bn (\$2012)]	\$7.7 Bn (\$2012)

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Tariff Comparison

2012 Tariff Comparison Original Project Plan vs. Optimized Project Plan		
	ASAP 2011 Project Plan \$/MMBtu	Optimization Update \$/MMBtu
\$ Levelized at Project Startup (Uninflated/Constant)	\$2011	\$2012
Fairbanks	\$6.45	\$4.25 to \$6.00
Big Lake	\$5.63	\$5.00 to \$7.25
\$ Levelized at Project Startup (Inflated/Nominal)		
Fairbanks	\$8.99	\$4.75 to \$6.50
Big Lake	\$7.75	\$5.75 to \$8.00
Cost Drivers		Tariff Impact
Capital cost : +/- \$1 Billion for pipeline		
	Fairbanks	+/- \$.50/MMBtu
	Big Lake	+/- \$.80/MMBtu
State of Alaska Contribution : +\$1 Billion		- \$.45/MMBtu
Rate of return on equity (ROE): +/- 1%		+/- \$0.20/MMBtu
Useful life (bond length): + 10 years		- \$0.75/MMBtu
Cost of 1 Yr. Delay to Entire Construction Schedule		+\$0.20/MMBtu

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ASAP Costs

- **Cost to Alaskans:** \$400M up-front cost to be recovered through gas royalty and taxes
- **Cost Benefit:** Long term natural gas supply for Alaskans
- **Project Cost:** \$7.7 Billion* in 2012 dollars, +/- 30%
- **Cost of Gas to Consumers** (burner tip)

Anchorage

- Optimized \$ 9 - 11.25/MMBtu in 2012 dollars
- Base case \$ 9.63/MMBtu in 2011 dollars

Fairbanks

- Optimized \$ 8.25 - 10/MMBtu in 2012 dollars
- Base Case \$ 10.45/MMBtu in 2011 dollars

*Each year the project is delayed, 2.5% inflation is added to the cost of the project

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Funding Required to Advance

- Achieving legislative objectives to advance an in-state natural gas pipeline for Alaskans is **contingent on legislative funding**
- Full funding will keep project on schedule
 - ✓ Advance facilities and pipeline engineering
 - ✓ Regulatory permitting activities and agency engagement
 - ✓ Engineering field investigations
- Partial funding will cause schedule delays
 - ✓ Limited pipeline and facilities engineering
 - ✓ Limited field investigation

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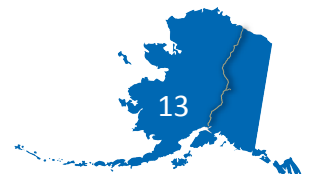


ASAP Requires Enabling Legislation

Critical legislation components:

- Ability to enter into confidential agreements
- Contract carrier status is needed to allow AGDC to enter into long-term contracts
- Authority to determine ASAP ownership structure is key to attracting shippers/buyers; financing; and pipeline tariffs
- Enabling legislation will significantly advance meeting the purpose of the original legislation: “. . . deliver natural gas to as many communities as practicable along the route ..”

ASAP



Thank You

Alaska Gasline Development Corporation

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