





















Latt	ice P	Analy	SIS: I	-ixec	a Por	tion					
	NET REVENUE Fixed No Option										
	Year O	1	2	3	4	5					
	\$0	\$508,728	\$572,749	\$643,502	\$721,697	\$808,116					
		\$398,384	\$450,800	\$508,728	\$572,749	\$643,502					
			\$350,957	\$398,384	\$450,800	\$508,728					
				\$308,043	\$350,957	\$398,384					
					\$269,212	\$308,043					
						\$234,077					
	REVENUE Probability Contributions Fixed										
	Year O	1	2	3	4	5					
	\$0	\$381,546	\$322,171	\$271,478	\$228,349	\$191,770					
		\$99,596	\$169,050	\$214,620	\$241,628	\$254,510					
			\$21,935	\$56,023	\$95,091	\$134,137					
				\$4,813	\$16,451	\$35,014					
					\$1,052	\$4,512					
						\$229					
JCF	\$0	\$481.142	\$513,156	\$546.933	\$582.571	\$620.172					
)iscounted	\$0	\$429.591	\$409.085	\$389,296	\$370.234	\$351,902					
-[Rev]	\$1.950,109										

Latti	ttice	Ana	YSIS:	Flex	(ible)	Porti	ON de what				
is the	e best ch	oice aiver	n Expecte	d future	values						
15 (11)		giver			laides		1				
	PV Net Revenue: Elexible Strategy										
	Year O	1	2	3	4	5					
	\$1,970,457	\$2,335,524	\$2,158,187	\$1,864,914	\$1,426,594						
		\$1,821,074	\$1,686,806	\$1,465,080	\$1,126,806						
			\$1,313,232	\$1,141,816	\$681,361						
				4003,340	\$527,740						
	Exercise Option? Exercise one time option when yellow										
	Year O	1	2	3	4	5					
	FALSE	FALSE									
			FALSE	FALSE	TRUE						
				FALSE	FALSE						
					FALSE						
	L						1				
		E[NPV] for Flexible Strate(\$1,970,457									
		Value of Opt			-						
MIT SI Engine	ering System	s Division									



Conclusion Model assumptions matter Lattice analysis implies significant assumptions, such as ٠ demand growing exponentially from year to year • Stage analysis is less restrictive since one can use whichever decision rules and distributions that apply specifically to the situation Value of Option depends on parameters used in this system • % Demand Increase parameter and Volatility change option value • To extend this model to real life application, the true nature of demand in the Junin province must be ascertained. Despite the modeling and application challenges, there exists real possibility to incorporate very valuable options. Engineering Systems Division