The Economic Effects on Michigan of the Location of a New Facility for Mobius Microsystems, Inc.

Prepared by the Michigan Economic Development Corporation utilizing Regional Economic Models, Incorporated (REMI) software.

Abstract

Mobius Microsystems, Inc. is considering building a research and manufacturing facility in Detroit, Michigan. This facility would design and produce micro-processing "chips". The new facility would employ up to 500 people by the end of 2014. We estimate that by 2014, this location will have generated a total of 1594 jobs in the state. Total state government revenues through 2014, net of MEGA costs and adjusted for inflation, would increase by \$21.53 million (2004 dollars) due to the location of the new facility.

The purpose of this study is to estimate the potential economic and fiscal benefits to Michigan of Mobius Microsystems, Inc. locating a design and manufacturing facility in Detroit. Investment activity would take place between 2005 and 2014 with an investment of \$12 million. The facility would employ an additional 500 people and would be at full production by 2014.

The estimates of the benefits attributable to the project include the total number of jobs created in Michigan (by major industry, including spin-off jobs), and the associated personal income and state government revenue. Benefits net of the MEGA incentive package, from 2005 to 2014, are shown in the attached table. The MEGA incentive package includes a tax credit to the company equal to 100 percent of the state income tax rate on the payroll (gross wages) of employees hired at the facility for the period 2005 to 2014.

The total employment effects, reported in the first line of the table, include the direct jobs created at the facility itself plus spin-off jobs. The spin-off jobs are created from two sources, increased purchases from Michigan suppliers and spending by people who receive income due to the increased economic activity. In 2014, the first year of full operations, an additional 1594 jobs are generated in the state. The total number of jobs (direct plus spin-off) for every direct job introduced constitutes the "employment multiplier." The employment multiplier for the expansion averages 1.23 over the period 2005 to 2014. Sectoral detail on the employment is also shown in the table.

Personal income is shown in the next section of the table. Personal income is defined as the income of Michigan residents from all sources, after deduction of contributions to social insurance programs but before deduction of income tax and other personal taxes. As shown in the table, if Mobius Microsystems, Inc. were to locate in Michigan under the incentive program, state personal income in 2014 would be higher by \$108.5_million (in current dollars) than it would be without the facility. Adjusted for inflation, this number in 2004 dollars would be \$91.93 million in 2014.

The gain in economic activity results in higher government revenues. We estimate that in 2014, the first year of full operations without investment activity, the facility would generate \$8.36 million in additional gross state revenue, and that the MEGA package

would provide a \$1.33 million incentive to Mobius Microsystems, Inc. Thus, the new Mobius Microsystems, Inc. facility would increase state revenues in 2014 by \$7.03 million, net of MEGA costs.

Over the period 2005 to 2014 state government revenue is projected to increase by \$29.61 million (in current dollars) due to the new Mobius Microsystems, Inc. facility. The MEGA incentive package for the company is forecast to cost \$4.99 million over the period, resulting in a net increase in state government revenue of \$24.62 million. Adjusted for inflation, the total net increase in state government revenue from 2005 to 2014 would be \$21.53 million in 2004 dollars. These calculations do not include any revenue losses due to the property tax abatement or the investment tax credit. If the costs of the abatement and the tax credit were included, the net revenue gain to state government would be slightly less.

None of the estimates include the nonmeasurable effects that would produce additional economic and fiscal benefits for Michigan, such as the intangible advantages of influencing other location and expansion decisions.

Economic and Fiscal Effects on Michigan - Net Benefits with the Incentive Package Mobius Microsystems, Inc.

Economic/Fiscal Indicator	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	LetoT
								3.03	0 04	103	ıolai
Total Employment	17	25.	99	156	977	202	0		,		
	- '	5	3	2	4 5	282	700	1,128	1,266	1,594	
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Non-Manufacturing	16	30	64	152	434	582	844	1 108	770	7 1 1 0	
Retail Trade	۳,	ď	,		1	1 7		2 1	++>'.	000'	
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Services	10	20	45	117	325	442	645	850	963	1.218	
Other	က	4	6	9	52	99	94	119	129	160	
In Current Dollars (Thousands):					-						
Personal Income	\$046	£4 084	42 027	00 100	000	000	1				
	0100	100.	108'00	90,70	\$23,320	\$33,420	\$50,720	\$69,820	\$83,190	\$108.500	\$384,565
Gross State Revenue	73	153	303	672	1.796	2 573	3 905	5 376	8,408	0 255	20,640
Mega Cost	43	w w	737	200	ccc	Î	0 0	0 0	2016	500	23,012
	2	3	<u>+</u>	707	767	4	070	826	1,010	1,325	4.993
State Revenue Net of MEGA Cost*	\$30	\$67	\$169	\$465	\$1,504	\$2,157	\$3,280	\$4,520	\$5,396	\$7,030	\$24,619
Adjusted for Inflation											
(Thousands of 2004 Dollars):											
Personal Income	\$931	\$1,921	\$3.750	\$8.177	\$21.490	830 290	\$45.212	\$64.200	£74 704	000	0.000
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Gloss state revenue	7.)	148	289	930	1,655	2,332	3,481	4 713	5.522	7.079	25,921
Mega Cost	43	84	127	194	269	377	557	750	274	1 100	10.01
State Revenue Net of MEGA Cost*	\$20	\$64	\$162	6/36	97 700		5 6	0 0	200	07',	4,593
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* These estimates do not include any state government revenue losses due to the Investment Tax Credit, the Renaissance Zone Credit or the property tax abatement.