# MOODY'S

### **DETROIT-DEARBORN-LIVONIA MI**

Data Buffet® MSA code: IUSA\_DMDET

#### **ECONOMIC DRIVERS**







#### **EMPLOYMENT GROWTH RANK**

2014-2016 205 3rd quintile

2016 2014-2019 269 4th quintile Best=1, Worst=408 RELATIVE COSTS
LIVING BUSINESS
86% 96%

U.S.=100%

**ANALYSIS** 

VITALITY

RELATIVE RANK

61% 399

U.S.=100% Best=1, Worst=401

#### **BUSINESS CYCLE STATUS**



#### **STRENGTHS & WEAKNESSES**

#### **STRENGTHS**

- » Concentration of auto industry headquarters, production, and research and development.
- » High housing affordability.
- » Well-positioned for growth in green and advanced manufacturing.

#### **WEAKNESSES**

- » Below-average quality of life, high crime rate, and eroding infrastructure.
- » Challenging fiscal situation in the city.
- » Persistent out-migration.

#### **FORECAST RISKS**

**SHORT TERM** 

2015-2020

RISK EXPOSURE



LONG TERM

5th quintile Highest=1

Uiahost−1

### UPSIDE

- » Midtown investments attract more educated residents and spur corporate expansions.
- » Growing healthcare center helps retain more college graduates.

#### DOWNSIDE

- » Public safety and services decline further, amplifying out-migration.
- » The strong dollar and tepid global demand for capital goods and motor vehicles create downside

**MOODY'S RATING** 

COUNTY

Recent Performance. Detroit-Dearborn-Livonia's recovery lags well behind those of the state and the nation. The auto industry no longer packs the punch it did in the early stages of the recovery when sales were climbing from a very low base. Consumer industries are also struggling with high unemployment and an eroding population base. Local government, particularly in the city, is exerting a substantial drag on the economy. The housing market is also not faring much better, as homebuilding remains stuck near a post-recession low. The breadth of hiring remains narrow, with healthcare a key bright spot. At 7.2% in December, unemployment is the highest in the state, but the good news is that

the labor force is no longer contracting. **Auto.** Auto-related industries will benefit from improving domestic demand, but they will generate few net new jobs. Last year was the best year for the industry since 2006, and U.S. vehicle sales held above 17 million units at an annual rate in January and February despite financial turmoil. Low gasoline prices, greater construction, an improving labor market, and the availability of attractive financing are spurring vehicle sales. Prospects for domestic demand are favorable, and optimism shows up in the Southeast Michigan Purchasing Managers' Index. Although production, new orders and employment indexes fell in February, they all are in expansionary territory.

That said, now that much of the pent-up demand due to delays in replacing older vehicles has been satisfied, sales are unlikely to rise much further. Moreover, even after global growth picks up, the strong dollar will limit gains for exportoriented manufacturers. Efficiency improvements will also limit the extent of new job creation in the factory sector.

**Budget.** Better state fiscal conditions will help stabilize public sector payrolls, which have been shrinking for more than a decade. An improving

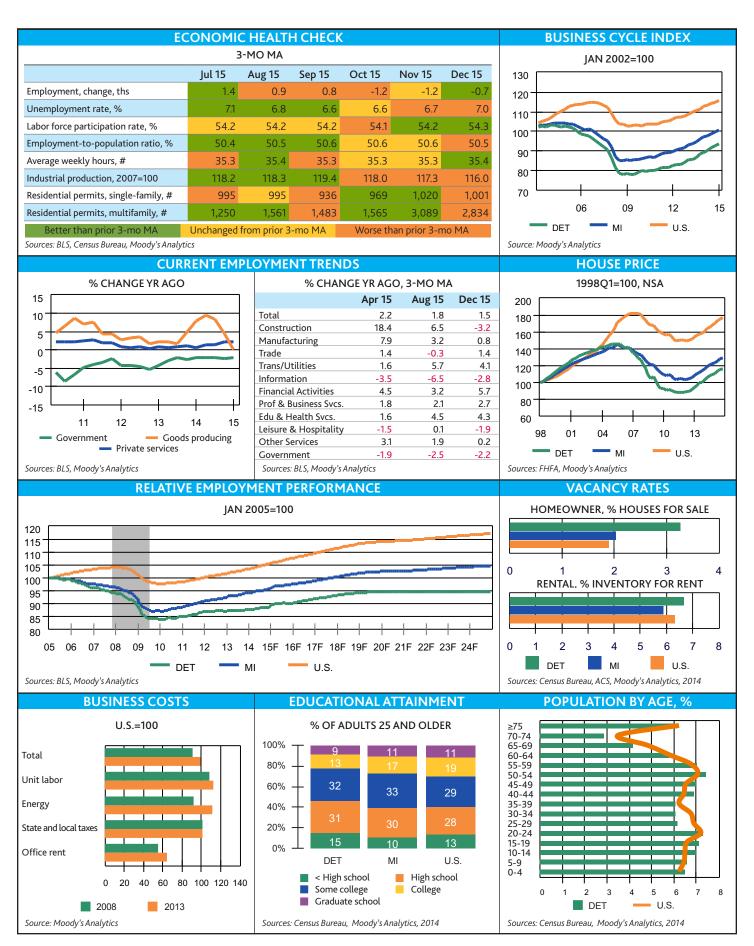
job market and a budget surplus underpin Governor Rick Snyder's proposal for a 0.8% increase in the fiscal 2016-2017 budget to \$54.9 billion. Snyder's budget devotes more to K-12 education and infrastructure and includes funds to help ameliorate Detroit public schools' debt crisis. Higher education's prospects are also bright. The proposed budget includes a 3.5% increase in funding for Wayne State University. Although the share of jobs in state and local government is the lowest in decades, the shift from outright cuts to stable employment will deliver a much needed boost to the economy. Public sector workers in DET earn one-third more, on average, than those in other nonfarm industries.

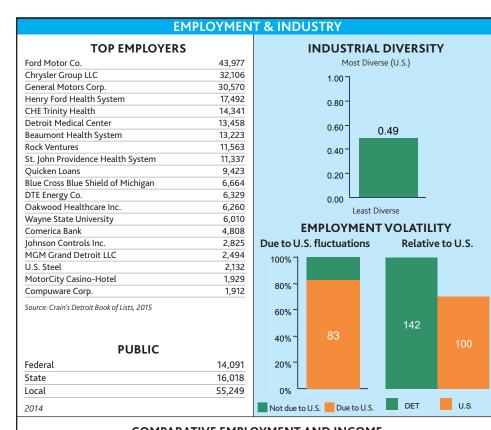
Long road back. DET is on the right path thanks to a revitalized motor vehicle industry, but its employment and population base will never recover fully. Its core auto industry is much smaller, and the metro division will struggle to diversify into life sciences and other high-value-added services. Weak demographics and high unemployment will remain long-term constraints to growth as the metro division's labor market recovery leaves many workers behind. Labor force participation in DET has fallen alongside unemployment, ending last year at just 54%, far below the U.S. figure of 63%.

The auto industry is a source of strength and will preserve Detroit-Dearborn-Livonia's recovery. However, manufacturers will add few jobs, and the strong dollar and tepid global demand for capital goods and motor vehicles create downside risk. Outside of autos, hospitals, the university and green technologies hold the most promise. Nonetheless, population decline limits the potential for services and DET will lag the nation in job growth over the extended forecast horizon.

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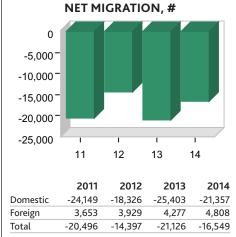
AS OF FEB 19, 2016		16		_	-							
2009	2010	2011	2012	2013	2014	INDICATORS	2015	2016	2017	2018	2019	2020
64.1	67.9	69.5	70.6	71.8	73.0	Gross metro product (C09\$ bil)	74.6	76.2	77.3	78.2	78.7	78.8
-10.6	5.8	2.4	1.7	1.6	1.7	% change	2.2	2.1	1.5	1.2	0.5	0.2
697.9	692.6	704.0	715.2	717.5	724.6	Total employment (ths)	738.7	748.0	759.8	770.0	775.4	775.8
-7.8	-0.8	1.6	1.6	0.3	1.0	% change	1.9	1.3	1.6	1.4	0.7	0.0
16.2	15.4	13.0	11.6	11.6	10.0	Unemployment rate (%)	7.2	7.0	6.9	6.9	7.1	7.4
-4.3	1.3	5.6	1.0	0.3	3.6	Personal income growth (%)	4.3	7.3	7.2	6.3	4.3	3.3
40.7	39.2	39.5	39.6	40.4	41.4	Median household income (\$ ths)	43.6	46.0	48.8	51.5	53.7	55.6
1,837.5	1,815.7	1,801.8	1,793.2	1,776.1	1,765.9	Population (ths)	1,762.8	1,754.8	1,745.6	1,735.9	1,726.2	1,716.6
-1.5	-1.2	-0.8	-0.5	-0.9	-0.6	% change	-0.2	-0.5	-0.5	-0.6	-0.6	-0.6
-34.7	-27.8	-20.5	-14.4	-21.1	-16.5	Net migration (ths)	-8.5	-13.2	-14.2	-14.7	-14.6	-14.3
264	470	476	672	819	704	Single-family permits (#)	1,001	1,146	1,457	1,560	1,444	1,393
24	265	229	185	206	297	Multifamily permits (#)	1,659	2,578	1,820	1,056	609	489
127.5	117.3	113.7	114.8	125.6	137.1	FHFA house price (1995Q1=100)	146.3	150.5	155.7	160.9	166.9	174.7





MIGRATION FLOWS						
INTO DETROIT MI						
	Number of					
	Migrants					
Warren MI	20,788					
Ann Arbor MI	3,813					
Monroe MI	1,424					
Atlanta GA	846					
Chicago IL	665					
New York NY	540					
Flint MI	513					
Lansing MI	503					
Phoenix AZ	464					
Grand Rapids MI	417					
Total in-migration	46,277					
FROM DETROIT MI						
Warren MI	33,607					
Ann Arbor MI	4,052					
Monroe MI	1,510					
Atlanta GA	1,023					
Chicago IL	888					
Phoenix AZ	655					
New York NY	581					
Lansing MI	578					
Flint MI	487					
Grand Rapids MI	486					
Total out-migration	64,469					
Net migration	-18,192					

#### COMPARATIVE EMPLOYMENT AND INCOME Sector % of Total Employment **Average Annual Earnings** DFT МІ DET MI U.S. U.S. Mining 0.1% 0.2% 0.6% \$85,962 \$46,433 \$108,705 Construction 3.4% 4.4% 2.6% \$71,229 \$55,851 \$61,655 Manufacturing \$78,447 11.7% 13.8% 8.8% \$91,509 \$79,353 Durable 84.0% 75 9% 63.0% \$81,429 \$80,476 nd Nondurable \$75,052 16.0% 24.1% 37.0% \$72,997 nd Transportation/Utilities 5.6% 3.1% 3.7% \$74,394 \$67,103 \$65,427 Wholesale Trade 4.1% 4.0% 4.2% \$88,759 \$82,582 \$83,751 Retail Trade 9.4% 11.0% 11.1% \$30,348 \$30,428 \$33,494 Information \$108,937 1.0% 1.4% 2.0% \$83,640 \$69,181 Financial Activities 4.6% 4.9% 5.7% \$42,258 \$54,020 \$51,061 Prof. and Bus. Services 16.7% 14.8% 13.7% nd \$58,965 \$65,204 Educ. and Health Services 17.9% 15.4% 15.4% \$51,144 \$49,358 \$52,501 Leisure and Hosp. Services 9.7% \$26,128 10.4% 10.6% \$30,660 \$20,872 Other Services 4.2% 4.1% 4.0% \$29,191 \$31,286 \$35,611 11.8% 14.3% 15.7% \$76,888 \$69,023 \$73,862 Sources: Percent of total employment — BLS, Moody's Analytics, 2014, Average annual earnings — BEA, Moody's Analytics, 2014



Sources: IRS (top), 2011, Census Bureau, Moody's Analytics

			PER	CAP	ITA	INC	OM	E			
					\$TH	S					
45-											
40-				<u>^</u>							
35 -				<u>^</u>	<u></u>	_					
30	4	1	+	+	$\overline{+}$	+	+	+	+	+	
201	05 4	06 DET \$:	07 36.84	08 4	09 MLS	10 40,74	11	12 U.S.	13 \$46,0	14	ıİ
	es: BE/				<u> </u>						

HIGH-TECH EMPLOYMENT					
	Ths	% of total			
DET	30.8	4.2			
U.S.	6,746.8	4.8			
	USING-I	RELATED MENT			
	MPLOY	MENT			
ı	Ths	MENT % of total			

		NAICS	Industry	Location Quotient	Employees (ths)		
ı		3363	Motor vehicle parts manufacturing	9.4	26.2		
l	픙	3361	Motor vehicle manufacturing	21.4	21.4		
l	≝	5511	Management of companies & enterprises	s 1.9	20.9		
ı		GVF	Federal Government	1.0	14.4		
١		GVL	Local Government	0.8	54.2		
Ì	₽	6221	General medical and surgical hospitals	2.1	48.0		
Ì	Σ	GVS	State Government	0.6	16.0		
l		7211	Traveler accommodation	1.2	11.6		
ı		7225	Restaurants and other eating places	0.9	46.3		
l	<b>%</b>	5613	Employment services	1.1	19.1		
l	2	4451	Grocery stores	0.7	10.0		
ı		4529	Other general merchandise stores	1.1	9.7		
	Source: Moody's Analytics, 2014						

LEADING INDUSTRIES BY WAGE TIER

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