

FOR RELEASE: 10:00 A.M. (BRUSSELS TIME), WEDNESDAY, MAY 28, 2014

The Conference Board®
Euro Area Business Cycle Indicators<sup>SM</sup>

# THE CONFERENCE BOARD LEADING ECONOMIC INDEX® (LEI) FOR THE EURO AREA

AND RELATED COMPOSITE ECONOMIC INDEXES FOR APRIL 2014

BRUSSELS, May 28, 2014...The Conference Board Leading Economic Index<sup>®</sup> (LEI) for the Euro Area declined 0.1 percent and The Conference Board Coincident Economic Index<sup>®</sup> (CEI) remained unchanged in April.

- The Conference Board LEI for the Euro Area decreased slightly in April, with the Markit business expectations index (services) and the economic sentiment index making the largest negative contributions. Between October 2013 and April 2014, the leading economic index increased by 2.6 percent (about a 5.2 percent annual rate), down from an increase of 3.4 percent (about a 7.0 percent annual rate) over the prior six months. In addition, the strengths among the leading indicators have remained very widespread, with all seven components advancing over the past six months.
- The Conference Board CEI for the Euro Area, a measure of current economic activity, was unchanged in April, according to preliminary estimates. In the six-month period ending in April, the coincident economic index increased 0.4 percent (about a 0.8 percent annual rate), up moderately from a 0.1 percent increase (about a 0.2 percent annual rate) during the previous six months. In addition, the strengths among the coincident indicators have become very widespread, with all components advancing over the past six months. Meanwhile, real GDP rose by 0.8 percent (annual rate) in the first quarter of 2014, following an increase of 0.9 percent (annual rate) in the fourth quarter of 2013.
- The LEI has been relatively flat in 2014, after trending upwards in the second half of 2013. As a result, its six-month growth rate has moderated in recent months. The CEI has improved slightly over the past several months, as has its six-month growth rate. Taken together, the recent behavior of the composite indexes suggests that economic growth is not likely to accelerate, but will remain moderate in the near term.

<u>LEADING INDICATORS</u>. Four of the seven components in The Conference Board LEI for the Euro Area increased in April. The positive contributors — in order from the largest positive contributor to the smallest — were the interest rate spread, the EURO STOXX® Index, real money supply\*, and the Markit Purchasing Managers' Index (manufacturing). Negative contributors — in order from largest to smallest — are the Markit business expectations index (services), the Economic Sentiment Index, and residential building permits\*.

With the 0.1 percent decrease in April, The Conference Board LEI for the Euro Area now stands at 111.4 (2004=100). Based on revised data, this index increased 0.2 percent in March and increased 0.1 percent in February. During the six-month span through April, the index increased 2.6 percent, with seven components increasing (diffusion index, six-month span equals 100.0 percent).

<u>COINCIDENT INDICATORS.</u> Of the four components that make up The Conference Board CEI for the Euro Area, only employment\* increased in April. Retail trade\* declined, while industrial production\* and manufacturing turnover\* remained unchanged in April.

With no change in April, The Conference Board CEI for the Euro Area now stands at 101.4 (2004=100). Based on revised data, the index was unchanged in March and increased 0.1 percent in February. During the six-month period through April, the index increased 0.4 percent, with all four components increasing (diffusion index, six-month span equals 100.0 percent).

\* See notes under data availability.

#### FOR TABLES AND CHARTS, SEE BELOW

<u>DATA AVAILABILITY</u> The data series used to compute **The Conference Board Leading Economic Index**® (LEI) for the Euro Area and **The Conference Board Coincident Economic Index**® (CEI) for the Euro Area reported in this release are those available "as of" 10:00 A.M. ET May 22, 2014. Some series are estimated as noted below.

NOTES: Series in The Conference Board LEI for the Euro Area that are based on our estimates are real money supply, and residential building permits. Series in The Conference Board CEI for the Euro Area that are based on our estimates are employment, industrial production, retail trade and manufacturing turnover.

# For more information:

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THE CYCLICAL INDICATOR APPROACH. The composite economic indexes are the key elements in an analytic system designed to signal peaks and troughs in the business cycle. The leading and coincident economic indexes are essentially composite averages of several individual leading or coincident indicators. (See page 3 for details.) They are constructed to summarize and reveal common turning point patterns in economic data in a clearer and more convincing manner than any individual component—primarily because they smooth out some of the volatility of individual components.

Historically, the cyclical turning points in The Conference Board LEI for the Euro Area have occurred before those in aggregate economic activity, while the cyclical turning points in The Conference Board CEI for the Euro Area have occurred at about the same time as those in aggregate economic activity.

Further explanations of the cyclical indicator approach and the composite economic index methodology appear in The Conference Board's *Business Cycle Indicators* report and website: http://www.conference-board.org/data/bci.cfm.

Euro Area Composite Economic Indexes: Components and Standardization Factors

	<u>Leading Economic Index</u>	<u>Factor</u>
1	Yield Spread cumulated, 10 year minus policy rate	0.2069
2	Economic Sentiment Index	0.1189
3	Markit Purchasing Managers' Index (Manufacturing)	0.1476
4	Markit Business Expectations Index (Services)	0.0804
5	EURO STOXX® Index	0.0403
6	Money Supply	0.3752
7	Residential Building Permits	0.0307
	Coincident Economic Index	
1	Employment	0.7459
2	Industrial Production	0.0766
3	Retail Trade	0.1131
4	Manufacturing Turnover	0.0644

#### Notes:

The standardization factors are inversely related to the standard deviation of the month-to-month changes in each component. They are used to equalize the volatility of the contribution from each component and are "normalized" to sum to 1.

These factors were revised effective with the release in January 2014, and all historical values for the two composite indexes were revised at this time to reflect the changes. (Under normal circumstances, updates to the leading and coincident indexes only incorporate revisions to data over the past six months.) The factors above were calculated using 2000-2012 as the sample period for measuring volatility for The Conference Board LEI for the Euro Area. Separate sets of factors for 1987-1993, 1994-1995, 1995-1997, 1997-1998 and 1998-2000 are available upon request. The factors above for The Conference Board CEI for the Euro Area were calculated using 1995-2012 as the sample period. A separate set of factors is available for 1987-1995. These multiple sample periods are the result of different starting dates for the component data. When one or more components are missing, the other factors are adjusted proportionately to ensure that the total continues to sum to 1. For additional information on the standardization factors and the index methodology visit our website: http://www.conference-board.org/data/bci.cfm.

The trend adjustment factors for The Conference Board LEI for the Euro Area are -0.3282 calculated over 1987-1996 and -0.3899 calculated over 1997-2012.

To address the problem of lags in available data, those leading and coincident indicators that are not available at the time of publication are estimated using statistical imputation. An autoregressive model is used to estimate each component. The resulting indexes are constructed using real and estimated data, and will be revised as the data unavailable at the time of publication become available. Such revisions are part of the monthly data revisions, now a regular part of the U.S. Business Cycle Indicators program. The main advantage of this procedure is to utilize in the leading economic index the data, such as stock prices, that are available sooner than other data on "real" aspects of the economy, such as new orders and changes in inventory. Empirical research by The Conference Board suggests there are real gains in adopting this procedure to make all the indicator series as up-to-date as possible.

# **NOTICES**

The 2014 schedule for "**The Conference Board Leading Economic Index**® (LEI) for the Euro Area" news release is:

April 2014	 Thursday, June 26, 2014
May 2014	 Friday, July 25, 2014
June 2014	 Wednesday, August 27, 2014
July 2014	 Friday, September 26, 2014
August 2014	 Monday, October 27, 2014
September 2014	 Wednesday, November 26, 2014
October 2014	 Tuesday, December 23, 2014

All releases are at 10:00 A.M. (Brussels Time)

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# The Conference Board Euro Area Business Cycle Indicators

Table 1.-Summary of Euro Area Composite Economic Indexes

	1		uro Area Comp				
		2013				2014	
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Leading index	108.6	109.1	109.4	111.2 r	111.3 p	111.5 p	111.4 p
Percent change	0.5	0.5	0.3	1.6 r	0.1 p	0.2 p	-0.1 p
Diffusion index	71.4	71.4	71.4	100.0	50.0	71.4	57.1
Coincident index	101.0	101.3	101.2 p	101.3 p	101.4 p	101.4 p	101.4 p
Percent change	-0.1	0.3	-0.1 p	0.1 p	0.1 p	0.0 p	0.0 p
Diffusion index	12.5	87.5	37.5	62.5	62.5	37.5	37.5
	Apr to	May to	Jun to	Jul to	Aug to	Sep to	Oct to
	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Leading index							
Percent change	3.4	3.9	3.8	4.2 r	3.5 p	3.1 p	2.6 p
Diffusion index	85.7	100.0	100.0	100.0	100.0	100.0	100.0
Coincident index							
Percent change	0.1	0.3	0.2 p	0.4 p	0.2 p	0.3 p	0.4 p
Diffusion index	62.5	100.0	75.0	100.0	75.0	100.0	100.0

p Preliminary. r Revised (both noted only for index levels and one-month percent changes).

CALCULATION NOTE: The diffusion indexes measure the proportion of the components that are rising. Components that rise more than 0.05 percent are given a value of 1.0, components that change less than 0.05 percent are given a value of 0.5, and components that fall more than 0.05 percent are given a value of 0.0.

For more information, visit our Web site at https://www.conference-board.org/data/bci.cfm?

Source: The Conference Board

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# The Conference Board Euro Area Business Cycle Indicators

Table 2.-Data and Net Contributions for Components of the Euro Area Leading Economic Index

Table 2Data and Net Continuations	2013			2014					
Component	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.		
	Euro Area Leading Economic Index component data								
Yield Spread, 10 year ECB Benchmark Rate minus ECB Minimum Bid Rate	2.66	2.67	3.06	2.96	2.84	2.64	2.36		
Economic Sentiment Index (Index of five sentiment surveys)  Average value 1990-2012 = 100	98.1	98.8	100.4	101.0	101.2	102.5 r	102.0		
Markit Purchasing Managers' Index (Manufacturing)*** 50 = Balanced Positive and Negative Responses	51.30	51.62	52.68	54.00	53.17	53.03	53.36		
Markit Business Expectations Index (Services) 50 = Balanced Positive and Negative Responses	60.10	59.36	60.70	62.60	62.42	63.99	60.99		
Stock Price (Average Closing Price) EURO STOXX® Index, 12/31/1991=100	301.44	308.72	304.74	314.73	315.91	316.98	323.24		
Money Supply (M2) In Billions of 2005 Euros	7832.84 r	7875.228 r	7795.8 r	7920.37 r	7920.43 r	7863.5 r	7879.01 **		
Index of Residential Building Permits (Index, 2010 = 100) Square meters of usable floor area	80.68 r	79.42 r	79.89 r	87.23 r	84.76 **	85.38 **	85.02 **		
LEADING INDEX (2004=100)  Percent change from preceding month	<b>108.6</b> 0.5	<b>109.1</b> 0.5	<b>109.4</b> 0.3	<b>111.2 r</b> 1.6 r	<b>111.3 p</b> 0.1	<b>111.5 p</b> 0.2 p	<b>111.4 p</b> -0.1 p		
	Euro Area Leading Economic Index net contributions								
Yield Spread, 10 year ECB Benchmark Rate		Luio F	trea Leading L	_conomic inde	X TICL CONTINUAL	10113			
ECB Minimum Bid Rate		0.55	0.63	0.61	0.59	0.55	0.49		
Economic Sentiment Index (Index of five sentiment surveys)  Average value 1990-2012 = 100		0.08	0.19	0.07	0.02	0.15 r	-0.06		
Markit Purchasing Managers' Index (Manufacturing)*** 50 = Balanced Positive and Negative Responses		0.05	0.16	0.19	-0.12	-0.02	0.05		
Markit Business Expectations Index (Services) 50 = Balanced Positive and Negative Responses		-0.06	0.11	0.15	-0.01	0.13	-0.24		
Stock Price (Average Closing Price) EURO STOXX® Index, 12/31/1991=100		0.10	-0.05	0.13	0.02	0.01	0.08		
Money Supply (M2) In Billions of 2005 Euros		0.20	-0.38	0.59	0.00 r	-0.27 r	0.07 **		
Index of Residential Building Permits (Index, 2010 = 100) Square meters of usable floor area		-0.05 r	0.02 r	0.27 r	-0.09 **	0.02 **	-0.01 **		

- p Preliminary. r Revised. s.a. Seasonally Adjusted
- \* Inverted series; a negative change in this component makes a positive contribution to the index.
- \*\* Statistical Imputation (See page 2 for more details)
- Q Quarterly series; these series are converted to monthly through a linear interpolation.

#### Data Sources: Eurostat, ECB, Haver Analytics, Markit Economics, STOXX Limited

CALCULATION NOTE--The percent change in the index does not always equal the sum of the net contributions

of the individual components (because of rounding effects and base value differences).

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<sup>\*\*\*</sup>Data used in the calcualtion of the LEI are for the EA16.

# The Conference Board Euro Area Business Cycle Indicators

Table 3.-Data and Net Contributions for Components of the Euro Area Coincident Economic Index

	2013								
Component	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.		
_	Euro Area Coincident Economic Index Component Data								
Number of Employees									
Thous. Of Employees, S.A. Q	145825.2	145860.5	145893.9 **	145925.6 **	145955.6 **	145984.0 **	146010.8 **		
Industrial Production, Volume Index (2010=100). S.A.	99.9 r	101.3 r	101.0	100.9 r	101.1 r	100.8 r	100.8 **		
Retail Trade, Volume Index (2010=100). S.A.	96.5 r	97.5 r	96.3 r	97.2	97.3 r	97.6 r	97.5 **		
Manufacturing Turnover, Index (2010=100). S.A.	100.7	102.2	102.3 r	103.1	102.9 r	102.7 r	102.7 **		
COINCIDENT INDEX (2004=100)	101.0	101.3	<b>101.2</b> p	<b>101.3</b> p	<b>101.4</b> p	<b>101.4</b> p	<b>101.4</b> p		
Percent change from preceding month	-0.1	0.3	-0.1 p	0.1 p	0.1 p	0.0 p	0.0 p		
-	Euro Area Coincident Economic Index net contributions								
Number of Employees Thous. Of Employees, S.A. Q		0.02	0.02 **	0.02 **	0.02 **	0.01 **	0.01 **		
Industrial Production, Volume Index (2010=100). S.A.		0.11 r	-0.03	-0.01 r	0.02	-0.03 г	0.00 **		
Retail Trade, Volume Index (2010=100). S.A.		0.12	-0.14	0.11	0.01 r	0.03 r	-0.01 **		
Manufacturing Turnover, Index (2010=100). S.A.		0.09	0.01 r	0.05 r	-0.01 r	-0.02 r	0.00 **		

p Preliminary. r Revised. s.a. Seasonally Adjusted

#### Data Sources: Eurostat

CALCULATION NOTE--The percent change in the index does not always equal the sum of the net contributions of the individual components (because of rounding effects and base value differences).

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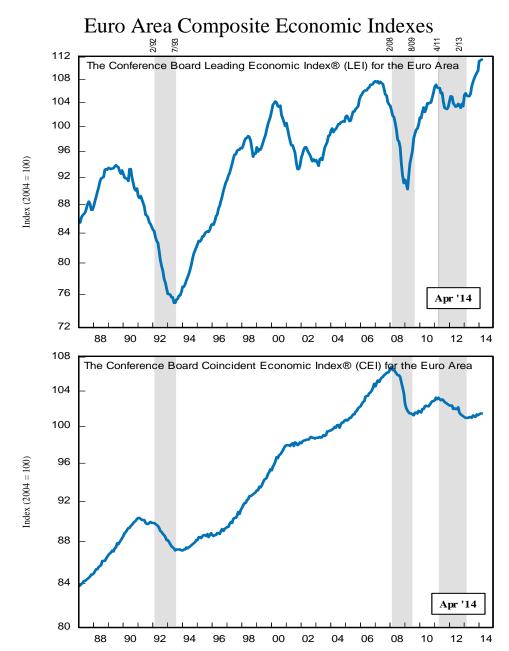
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<sup>\*</sup> Inverted series; a negative change in this component makes a positive contribution to the index.

<sup>\*\*</sup> Statistical Imputation (See page 2 for more details)

Q Quarterly series; these series are converted to monthly through a linear interpolation.



Note: The shaded areas represent business cycle recessions. The peaks and troughs are designated by The Conference Board based on the coincident index and real GDP.

Source: The Conference Board

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