TDB Trends Research (Research & Summary for December 2017)

Business confidence of SMEs marked a record high

- Economic DI of 50.9, improvement for seven consecutive months -

(Companies researched: 23,113; Valid responses: 10,168; Response rate: 44.0%; Survey start date: May 2002)

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< Overview of December 2017: Expansion >

The economic diffusion index (DI) in December 2017 was 50.9, up 0.9 points from the previous month, and an improvement for seven consecutive months. Since February 2017, the DI has improved every month, except May in which the DI remained flat. With year-end demand in addition to a strong manufacturing industry, business confidence by industry and size was improved, and the domestic economy expanded.

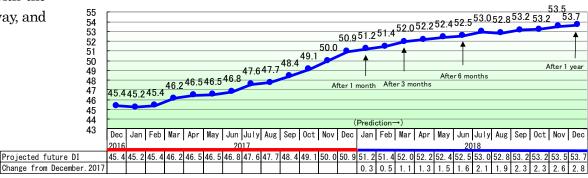
< Future outlook: Expansion continues >

The expansion in the domestic economy is expected to continue, with the corporate sector such as exports and capital investments leading the way, and is also supported by tax reform for domestic and foreign corporations.

By industry: Three industries such as "manufacturing" and "transportation and warehousing" marked a record high.

By size: Business confidence of "SMEs" and "small enterprises" marked a record high.

By region: Of the ten regions, six scored a DI of over 50, and the DI of "Kinki" went up to the 50s for the first time.



: Economic DIs are calculated based on the structural ARIMA model, in which economic statistics are incorporated to the ARIMA mode

Economic Diffusion Index (Economic DI)1/2

	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Ratio to the PrFDious Month
Total	45.4	45.2	45.4	46.2	46.5	46.5	46.8	47.6	47.7	48.4	49. 1	50.0	50.9	0. 9
Large Firms		48.2	48.3	48.9	49.4	49.9	49.8	50.3	50.5	51.3	51.6	52. 1	53.0	0. 9
Small to Medium-sized Firms	44. 5	44. 4	44.6	45.4	45.7	45.6	46.0	46.8	47.0	47.7	48.5	49.4	50.4	1.0
Micro Firms	43.9	43.5	44. 1	44. 4	44. 5	44. 4	44. 4	45.6	45.7	46.7	47. 6	48. 7	49.8	1. 1

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Ratio to the PrFDious Month
Agriculture,Forest	ry,Fisheries	47.3	43. 3	45. 1	45.5	47.0	45.4	45.3	44.9	44.5	45.6	47.5	46.7	49. 2	2. 5
Finance			46. 4	45.5	45.6	46.0	46.4	46.3	47.2	46.8	48.0	47.9	49.0	48. 9	▲ 0.1
Construction			49. 2	49.5	49.3	49.0	49.5	49.5	50.4	50.7	51.7	52.7	53. 7	54. 2	0. 5
Real Estate	Ceal Estate		49.3	49.9	49.4	49.7	50.7	49.4	49.6	49.3	49.9	50.9	50.3	51.3	1. (
	Food,BEWerages,Livestock Feed	43.4	41.9	42. 1	42.7	43.0	42.6	43.5	43.5	42.9	43.0	42.8	42.9	44.8	1. 9
	Textile, Textile Products, Clothing	38.0	36. 3	37. 7	38.6	38.8	39.4	37.8	37.9	38.4	37.7	38. 6	39. 6	42.0	2.
Manufacturing	Construction Materials, Furniture, Ceramics, Stone and Clay Products	43. 5	43. 3	42.8	43. 2	42. 4	43.4	43.4	45.3	45.9	45.6	47.0	46.8	48.0	1.
	Pulp, Paper and Paper Products	43.0	43.3	42.0	42.0	42. 9	42.5	43.4	43.8	41.9	44. 4	46.6	45.6	48.7	3.
	Publishing, Printing	35.7	33. 9	34.6	36.5	35. 6	33.4	35.1	34.2	34.6	36. 4	35. 7	35. 4	35.8	0.
	Chemical	48.2	47.5	47.9	48.5	49.9	50.3	50.2	51.4	50.5	51.8	52.5	53.3	54. 1	0.
	Steel, Nonferrous Metals, Mining	45.7	45.9	46.2	47.0	47.5	47.3	49.6	51.1	51.6	53.0	54.3	56.6	56.3	▲ 0.
	General Machinery	50.3	49. 9	51.1	52.9	54. 1	54.5	54.8	56.5	56.2	57. 2	59.3	59.3	60.8	1.
	Electrical Machinery	45.5	46.3	47. 1	47.8	48.6	49.3	49.7	50.3	51.5	52. 2	53.7	54. 5	55. 7	1.
	Transportation Machinery, Equipment	48.6	49.5	49.3	52. 5	50.3	52.0	52.7	52.2	54.7	54.8	54. 2	58.6	56. 9	▲ 1.
	Precision Machinery, Medical Instruments and Equipment	46.3	46. 7	49. 4	48. 1	50.0	51.7	51.5	50.4	51.8	51.5	53. 2	55. 1	54. 7	▲ 0.
	Other	39.6	39. 2	41.3	41.3	40.1	38.2	38.5	40.3	39.7	41.6	39. 6	40.9	42.6	1.
	Total	45.2	44.8	45.4	46.3	46.7	46.9	47.5	48.5	48.6	49.4	50.3	51.2	52.1	0.
	Food,BEWerages	41.5	40.6	40.4	41.0	41.7	42.7	41.8	42.2	41.3	41.6	41.1	42.4	43.5	1.
	Textile,Textile Products,Clothing	34.0	33. 7	33.4	32.6	34. 7	34.5	35.0	34.3	34.2	35. 3	35. 4	36. 1	37.4	1.
	Construction Materials, Furniture, Ceramics, Stone and Clay Products	43. 2	42. 1	42.6	42.8	41.8	43.2	42.8	43.0	43.8	44.0	44. 2	45. 1	46. 7	1.
Wholesale	Paper Products,Stationery,Books	37.7	38. 6	38. 4	38. 3	38. 5	36.1	38.4	37.4	35.7	38.8	38. 4	38. 9	38. 4	▲ 0.
	Chemical	43.1	44. 4	42.8	44.5	46.0	45.1	45.3	46.5	47.2	47.5	48. 1	48.6	50.7	2.
	Recycled Resources	49.5	49. 1	50.0	54. 9	49.5	49.0	51.8	49.5	55.4	52.4	51.6	57.8	58. 3	0.
	Steel,Nonferrous Metals, Mining Products	42.6	42. 5	42. 9	44. 0	43.5	41.3	43. 1	45. 1	45.6	46. 2	49. 5	50. 5	52. 3	1.
	Machinery, Equipment	44. 2	44.8	44. 3	45.8	46.3	46.1	46.6	48.0	48.2	48. 5	49.3	50.9	52.1	1.
	Other	39. 9	40.1	39.2	39.9	41.1	42.0	41. 4	42. 1	41.3	42.0	42.0	42.7	43.7	1.
	Total	42.1	42.2	41.8	42.8	43. 2	43.1	43.4	44. 2	44.3	44.8	45.5	46.5	47.9	1.

Economic Diffusion Index (Economic DI)2/2

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Ratio to the PrFDious Month
	Food,BEWerages 4		37.4	41.5	41.4	39.0	39. 9	42. 9	41.1	44.3	44.4	42.1	45.2	45.3	0.1
	Textile, Textile Products, Clothing	31.3	32.7	29.0	30.9	31.8	33. 9	34. 4	34.6	35.1	34.4	37.5	32.7	35.6	2. 9
	Drugs, Sundries	42.0	43.5	46.0	44.3	46.0	46.4	44. 4	43.8	46.8	44.2	44.9	46.2	44.4	▲ 1.8
	Furniture	30.0	33.3	38. 1	33.3	35.7	35.7	40.7	39.6	37.5	41.7	40.9	45.0	40.7	▲ 4.3
Retail	Electrical Household Appliances, Information Machinery and Equipment	38. 6	40.5	39. 9	43.0	41.7	38. 1	41. 9	41. 7	44. 6	40. 2	43. 9	43. 9	47. 7	3.8
	Motor Vehicles, Motor Vehicle Parts	41.0	43.5	46.3	47.7	41.9	41.5	44. 4	44. 4	45.5	46.2	45.3	45.6	44. 2	▲ 1.4
	Special Merchandise	37.1	38.3	39. 1	38.8	38.3	39. 1	39.8	39.7	39.8	39.7	39.6	38.8	41.5	2. 7
	Various Merchandise	44.6	42.0	45.3	44.6	44.3	45.0	48.7	46.5	45.8	45.7	46.3	45.7	46.4	0.7
	Other	46.7	45.8	45.8	40.0	40.0	41.7	41.7	38. 9	44.4	46.7	46.7	43.3	50.0	6. 7
	Total		39.4	40.9	41.1	39.8	40.2	42. 1	41.5	42.7	42.2	42.4	42.4	43.4	1.0
Transportation	on,Warehousing	46.1	45.0	43.8	45.6	47.0	46.8	45.7	47.7	48.4	49.0	49.9	50.7	52.5	1.8
	Restaurants	37.5	42.3	39.0	45.1	45.0	41.1	43.0	43.9	41.9	45.2	45.1	42.9	44. 9	2.0
	Postal, Telecommunications	46.2	55.1	52.8	58.3	54. 2	51.3	56. 9	55.6	54.2	59.1	54.5	57.7	56.4	▲ 1.3
	Electricity,Gas,Water,Heat	41.7	50.0	52.4	47.2	52.4	52.4	57.1	52.4	52.8	57.1	58.3	59.5	54.2	▲ 5.3
	Leasing,Rentals	48.9	47.9	48.2	50.1	48.9	50.2	50.0	50.6	49.7	52.0	54.2	54.9	55.9	1.0
	Lodging, Hotels	47.5	43.5	45.6	49.4	48.9	49.4	47. 9	46.9	47.4	41.7	43.6	51.9	48.0	▲ 3.9
	Recreation	36. 9	37.7	37. 1	39. 2	39. 1	40.9	40.8	40.1	38.3	40.0	39. 1	39.0	42.2	3.2
	Broadcasting	49.0	45.6	47.8	47.8	47.8	46.7	42. 9	46.2	47.2	47.2	46.2	44. 4	47.6	3. 2
Service	Maintenance, Guarding, Testing	47.1	47.4	47.8	48.6	49.4	48.9	49.7	50.2	51.4	51.3	50.3	51.6	50.3	▲ 1.3
	Advertising	40.9	38.6	39.8	41.0	42.3	41.8	40.6	41.0	41.9	40.5	43.6	41.8	41.5	▲ 0.3
	Information	53.2	54.3	54.8	55.3	56.1	55.6	55.7	56.6	56.1	57.2	57.9	57.6	58.4	0.8
	Labor Dispatching	54.4	54.4	50.8	54.6	55.8	52.3	54.8	54.8	58.6	57.5	58.2	59.0	57.9	▲ 1.1
	Special Services	52.8	51.9	51.8	52.6	53.2	52.3	52.3	52.6	53.4	53.2	53.3	53.2	55.5	2.3
	Medical,Welfare,Public Health	44.0	43.6	44.7	46.4	47.7	47.9	48.3	45. 2	46.1	47.4	44. 1	47.9	48.3	0.4
	Education	43.7	46.7	44.4	43.7	41.1	43.5	42. 1	42.5	42.5	41.7	41.0	40.5	42.4	1. 9
	Other	47.9	47.1	49.6	50.1	50.0	49.3	50.8	50.2	50.5	50.7	50.6	53.9	52.6	▲ 1.3
	Total	48.7	48.8	49.1	50.4	50.9	50.4	50.7	50.9	51.1	51.5	51.8	52.5	53.0	0.5
Other		39.5	39.9	40.8	40.2	42.1	41.7	42.2	41.7	42.4	43.6	43.3	47.9	48.2	0.3

	Dec-16	Jan-17	Feb 17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Ratio to the PrFDious Month
Hokkaido	42.6	42.2	43.2	43.9	44. 3	46. 1	45.7	48.4	48.8	48.6	48.6	48.6	48.4	▲ 0.2
Tohoku	44.6	44.2	43.6	44.7	45.2	45.4	45.4	45.7	45.4	45.9	45.9	47.2	47.9	0.7
kitakanto	45.0	44. 9	44. 2	45.4	46.6	46.4	47.0	48.3	47.8	49.1	50.2	51.2	52.9	1.7
minamikanto	46. 1	46.3	46.5	47.1	47.4	47.3	47.7	48.2	48.2	49. 1	49.7	50.5	51.3	0.8
Hokuriku	43.0	43.4	42.8	44. 1	44.3	45.3	45.9	47.5	48.0	48.8	49.3	49.0	49.9	0.9
Tokai	46.4	45.7	45.9	46.6	46.8	46.4	47.3	48.1	48.8	49.2	50.0	51.2	52.5	1.3
Kinki	43.7	43.7	44. 1	45.1	45.2	44.7	44. 9	45.6	46.1	46.7	48.0	49.0	50.8	1.8
Chugoku	45.8	44.6	45.1	46.3	46. 1	46.0	46.5	47.0	47.7	47.8	48.6	50.1	50.6	0.5
Shikoku	47.2	46. 2	46.5	46. 1	46. 9	46.8	47.0	47.0	46.8	48.5	48. 2	48.5	49.0	0.5
Kyushu	48.0	48.1	49.0	48.7	49.1	49.5	48.9	49.4	49.4	49.9	50.5	51.3	51.7	0.4

Appendix

1.Research Subjects(Companies Researched 23,113; Valid responses: 10,168; Response rate: 44.0%)

Appendix

1.Region

Hokkaido	524	Tokai	1,135
Tohoku	636	Kinki	1,727
kitaKanto	720	Chugoku	573
minamikanto	3,230	Shikoku	312
Hokuriku	563	Kyushu	748
		Total	10,168

2.Industry (10 Industries 51 Lines of business)

Agriculture,For	estry,Fisheries	59
Finance		122
Construction		1,482
Real Estate		318
	Food,Beverages,Livestock Feed	330
	Textile, Textile Products, Clothing	109
Manufacturing 3,223	Construction Materials, Furniture, Ceramics, Stone and Clay Products	220
	Pulp, Paper and Paper Products	103
	Publishing, Printing	188
	Chemical	419
	Steel,Nonferrous Metals,Mining	504
	General Machinery	440
	Electrical Machinery	342
	Transportation Machinery, Equipment	102
	Precision Machinery, Medical Instruments and Equipment	7
	Others	80
	Food, Beverages	36
	Textile, Textile Products, Clothing	179
	Construction Materials, Furniture, Ceramics, Stone and Clay Products	32'
Wholesale	Paper Products, Stationery, Books	10
3,959	Chemical	28
	Recycled Resources	35
	Steel,Nonferrous Metals,Mining Products	312
	Machinery, Equipment	914
	Others	34'

	Food,Beverages	64
	Textile, Textile Products, Clothing	30
	Drugs,Sundries	24
Retail	Furniture	9
480	Electrical Household Appliances, Information Machinery and Equipment	37
	Motor Vehicles, Motor Vehicle Parts	60
	Special Merchandise	132
	Various Merchandise	46
	Others	4
ransportation	n, Warehousing	436
	Restaurants	39
	Telecommunications	13
	Electricity,Gas,Water,Heat	8
	Leasing,Rentals	110
	Lodging, Hotels	25
	Recreation	64
Service	Broadcasting	14
1,384	Maintenance,Guarding,Testing	157
	Advertising	100
	Information	419
	Labor Dispatching	53
	Special Services	241
	Medical,Welfare,Public Health	100
	Education	24
	Others	146
thers		46
	Total	10.168

3.Size

Large Firms	2,106	20.7%
Small to Medium-sized Firms	8,062	79.3%
micro Firms	2,660	26.2%
Total	10,168	100.0%

2.Research Items

*Business Confidence (current, in 3 months, in 6 months, in 1 year)

*Business Conditions (sales, purchasing and selling unit price, inventory, capacity utilization ratio, number of employees, overtime work hours)

3. Research Period and Methodology

Internet-based survey conducted December 18 2017–January 9 2017

The explanation of the Economic Diffusion Index

Research Purpose/Researched Terms

TDB Economic Trend Research (started from May 2002) is a monthly statistical survey conducted for over 20,000 nationwide corporations on their general business activities including the current condition and future outlook of the industry business performance and operating climate. The primary purpose of such a survey is to assess the current state of Japan's economy.

Selection of the Subject Corporations

Companies of all sizes in all domestic industries are eligible to participate in the survey.

DI Formula

The DI (Diffusion Index) is calculated by attaching a number (in parenthesis in the diagram below) to each of seven possible responses. Then multiplying the percentage of each response by the appropriate number, and adding the results.

Very Bad	Bad	Moderately Bad	Neither Good or Bad	Moderately Good	Good	Very Good
(0)	(1/6)	(2/6)	(3/6)	(4/6)	(5/6)	(6/6)
0	16.7	33.3	DI=50 Dividing point	66.7	83.3	100

A DI over 50 is in the range of "Good." A score under 50 is "Bad." The number 50 is the dividing point ("Neither Good or Bad"). All numbers are rounded off to the hundredth. It should be noted that no weight is given to a company's responses based on its size. Calculations are made according to a "one company, one vote" rule.

For example, all corporations rated 'Very Good'.

DI=6/6x100(%)=100

All corporations rated 'Neither Good nor Bad'.

DI=3/6x100(%)=50

Size Classification

Industry	Large Firms	Small to Medium-Sized Firms (Micro Firms included)	Micro Firms
Manufacturing and	Capital: More than 300 million yen	Capital: Below 300 million yen	
Other Industries*	and	or	No. of Employee: Below 20
	No. of Employee: Over 300	No. of Employee: Below 300	
Wholesale Trade	Capital: More than 100 million yen	Capital: Below 100 million yen	
	and	or	No. of Employee: Below 5
	No. of Employee: Over 100	No. of Employee: Below 100	
Retail Trade	Capital: More than 50 million yen	Capital: Below 50 million yen	
	and	or	No. of Employee: Below 5
	No. of Employee: Over 50	No. of Employee: Below 50	
Service**	Capital: More than 50 million yen	Capital: Below 50 million yen	
	and	or	No. of Employee: Below 5
	No. of Employee: Over 100	No. of Employee: Below 100	

Note1: Large Firms refer to companies that rank in the top 3% in terms of sales volume according to the type of business, among small to midium-sized corporations excluding micro firms, which are defined in Small and Medium Enterprises Basic Act.

Note2: Small to Medium-Sized Firms refer to companies that rank in the bottom 50% in terms of sales volume according to the type of business, among those not categorized as small to midium-sized corporations in Small to Medium-Sized Enterprises Basic Act.