

# Use of Economic Tendency Surveys

International Workshop Beijing

Klaus Abberger

Swiss Economic Institute (KOF) of the ETH Zurich

**ETH**

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

## Outline

- 1 Measurement of Assessments and Expectations of the Businesses and the Consumers
  - Aims of ETS
  - Qualitative data
  - Customers of ETS results
- 2 Composite Indicators
  - Motivation
  - Classical Approach (NBER)
  - Factor Analysis
- 3 Special Graphical Representations
- 4 Publication Strategy
- 5 Forecasting
- 6 Economic Research

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# Aims of Economic Tendency Surveys

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  - **assessment of stocks**

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  - **expectations about price changes**

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  - **plans about employment**

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  - assessment of stocks
  - expectations about price changes
  - plans about employment
  - **capacity utilization**

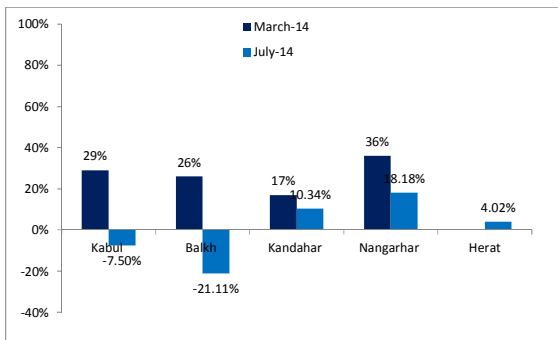
# Aims of Economic Tendency Surveys

The information covered by ETS goes beyond topics which are usually captured by conventional quantitative statistics.

Examples include

- assessments (e.g. capacities, stocks)
- plans and expectations
- bottlenecks

# Business Climate in Afghanistan



Graph 1b- Business Climate by Regions, Oct 2013 and March 2014

Source: Afghanistan Chamber of Commerce and Industries

# Quantitative data versus qualitative data

- **easier for respondents**

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- can be completed quickly
- timely results
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- less seasonal distortion
- **reduced influence of outliers**

# Customers of ETS results

## ■ Respondents

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- Respondents
- **Enterprises**

# Customers of ETS results

- Respondents
- Enterprises
- **Public and Media**

# Customers of ETS results

- Respondents
- Enterprises
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- **Policymakers**

# Customers of ETS results

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- Experts
- **Researchers**

# Customers of ETS results

Two broad categories of users according to their needs:

- **'Executives'** (e.g. senior business executives, politicians, senior civil servants responsible for government policy, senior personal in banks and financial institutions and the press and other media)

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- **'Analysts'** (e.g. economists and researchers operating in the academia, research institutions and governmental bodies)

# Financial Times

August 14, 2014 5:04 pm

## Russian shadow unsettles German business confidence

By Stefan Wagstyl and Chris Bryant in Berlin

**FT**.com  
FINANCIAL TIMES

# Financial Times

August 4, 2014 12:02 am

## UK business confidence dips for first time in two years

By Brian Groom, Business and Employment Editor

**FT.com**  
FINANCIAL TIMES

Any questions? Ask Customer Services

# Financial Times

July 30, 2014 11:59 pm

## UK consumer confidence falls for first time in six months

By Emily Cadman

**FT**.com  
FINANCIAL TIMES

Any

# Financial Times

Last updated: July 1, 2014 5:07 am

## Japan's Tankan business survey falls after consumption tax rise

By Ben McLannahan in Tokyo

**FT**.com  
FINANCIAL TIMES

Any questions?

# The Economist

The screenshot displays the top navigation bar of the The Economist Intelligence Unit website. The bar includes the 'The Economist' logo, the 'Intelligence Unit' name, and three tabs: 'Country' (selected), 'Industry', and 'Risk'. Below the navigation bar is a cookie consent banner. The main content area shows a breadcrumb trail: 'My EIU > Country > Hong Kong > Economy: Recent developments'. The title 'Hong Kong' is prominently displayed. Below the title is a sub-navigation bar with tabs: 'Summary', 'Politics', 'Economy' (selected), and 'Risk'. The article list shows 'Displaying article 1 of 4 articles' with a date of 'January 26th 2012'. The article title is 'Poor business confidence points to challenges ahead'.

The Economist Intelligence Unit

Country Industry Risk

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My EIU > Country > Hong Kong > Economy: Recent developments

## Hong Kong

Summary Politics Economy Risk

Displaying article 1 of 4 articles ▶▶

January 26th 2012

### Poor business confidence points to challenges ahead

# The Economist

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The Economist Intelligence Unit

Country Industry Risk Special rep

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My EIU > Country > Cabo Verde > Economy: Forecast

## Cabo Verde

Summary Politics Economy

Displaying update 1 of 1 updates

August 12th 2014 [Print](#)

### Business confidence falls to ten-year low

# The Wall Street Journal

THE WALL STREET JOURNAL. ☰

CHF1

TOP STORIES IN WSJ 1 of 12

 Autopsy Finds Six Shots Struck Teen

 Federal Authorities Wade Deeper Into Te...

2 of 12

 Missouri Gov Deploys Natic Guar...

## ECONOMY

### Euro-Zone Consumer Confidence Keeps Climbing

Sentiment at Strongest Level Since Before Financial Crisis

# The Wall Street Journal

THE WALL STREET JOURNAL. ≡

CHF1 A W

TOP STORIES IN WSJ

1 of 12



Autopsy Finds Six Shots Struck Teen

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Federal Authorities Wade Deeper Into Te...

3 of 12





Missouri Governor Deploys National Guar...

## ECONOMY

## South Africa Business Confidence Falls to 15-Year Low

## Strikes Have Been a Drag on Economic Growth

## Reuters

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[HOME](#) [BUSINESS](#) [MARKETS](#) [WORLD](#) [POLITICS](#) [TECH](#) [OPINION](#) [BREAKINGVIEWS](#) [MONEY](#) [LIFE](#) [PICTURES](#)  
**REUTERS VIDEO**  
The Latest in Business, Finance & Technology News  




Economy | Tue Apr 28, 2015 7:01pm EDT

# UK consumer confidence falls as election nears

## -YouGov/Cebr

LONDON, APRIL 29

## Reuters

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**REUTERS VIDEO**  
The Latest in Business,  
Finance & Technology News  


Economy | Wed Apr 29, 2015 5:12am EDT


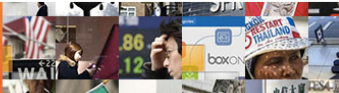
Re

# UPDATE 1-UK consumer confidence falls as election nears -YouGov/Cebr



(Adds European Commission consumer confidence survey)

## Reuters

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[HOME](#) [BUSINESS](#) [MARKETS](#) [WORLD](#) [POLITICS](#) [TECH](#) [OPINION](#) [BREAKINGVIEWS](#) [MONEY](#)  
**REUTERS VIDEO**  
The Latest in Business,  
Finance & Technology News  


Markets | Tue Apr 28, 2015 10:13am EDT

# U.S. consumer confidence sinks in April

NEW YORK

# Reuters

**Markets** | Tue Apr 28, 2015 3:11am EDT

## French consumer confidence at highest in five years

PARIS

— — — — —

## Reuters

Markets | Fri Apr 24, 2015 3:00am EDT

Related: CURRENCIES, MARKETS

# Euro rises to two-week high ahead of German IFO survey

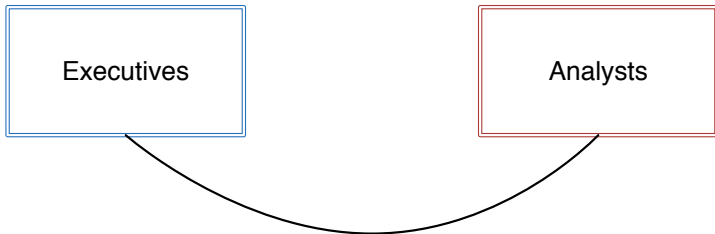
LONDON, APRIL 24

## Executives

## Analysts

# Users of ETS

Users of economic tendency surveys



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Economic Tendency Survey data results are a popular ingredient of composite indicators.

The advantage of composite indicators over the individual component series are:

- **fewer false alarms and fewer missed turning points than its individual components**

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The advantage of composite indicators over the individual component series are:

- fewer false alarms and fewer missed turning points than its individual components
- more stable lead-times
- capacity to react to various sources of economic fluctuations
- **resilient to perturbations affecting only one of the components**

# Composite Indicators

- **Soft/general questions vs. hard specific questions**

# Composite Indicators

- Soft/general questions vs. hard specific questions
- **Selection of indicators**

# Composite Indicators

- Soft/general questions vs. hard specific questions
- Selection of indicators
- **Aggregation of indicators**

## Soft questions: Business Climate

### Current Situation (CS)

We assess our current business situation for xy as

good

satisfactory

bad



### Expectations for the next 6 months (EX)

Our business situation for XY will be – excluding seasonal fluctuations –

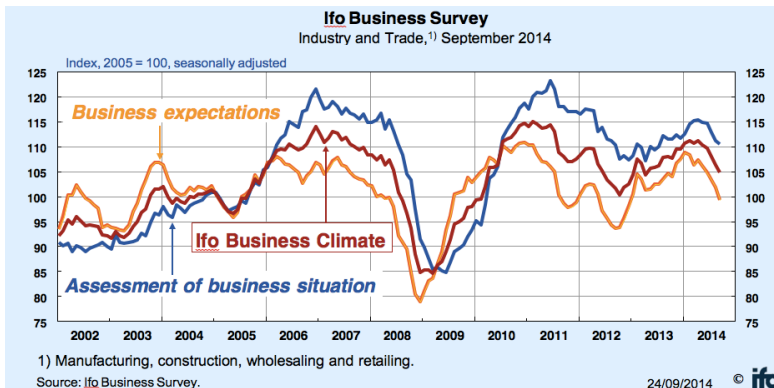
better

about the same

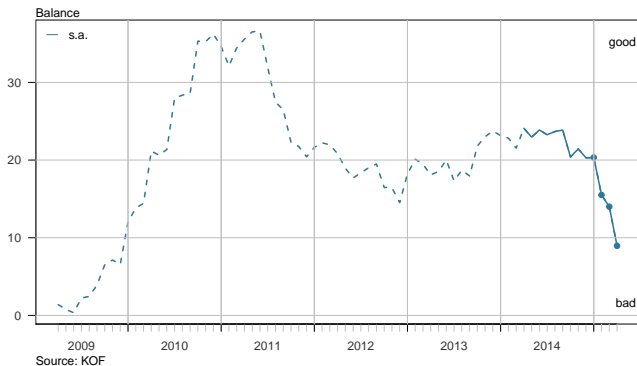
worse



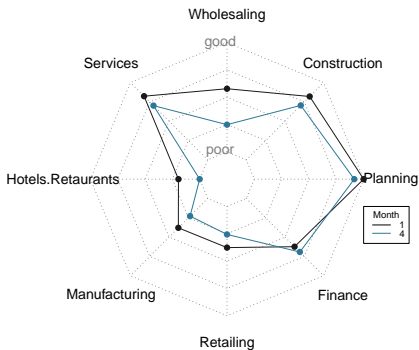
# Ifo Business Climate



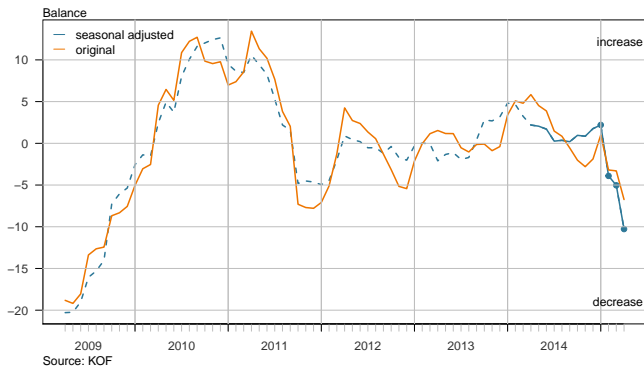
# KOF Business Situation



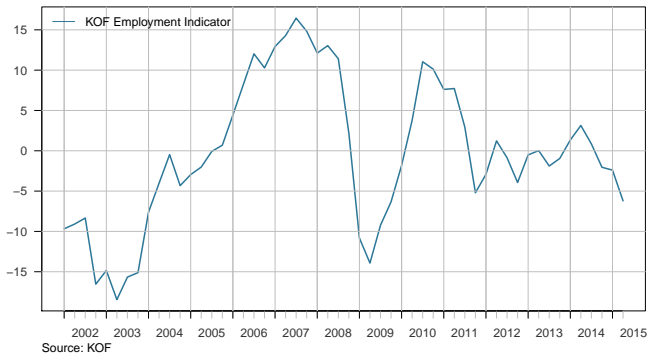
# KOF Business Situation Radar



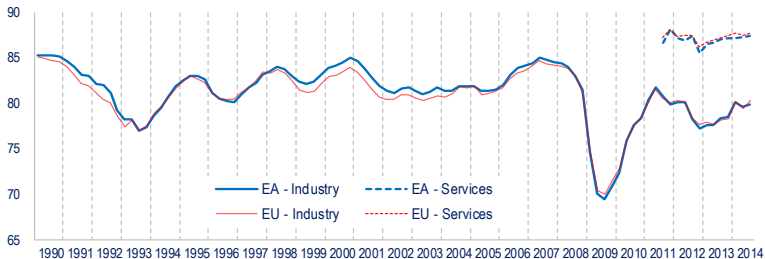
# KOF Employment Plans



# KOF Employment Indicator



## DG EFCIN Capacity utilisation in %



Source: DG ECFIN

# Hard questions: European Union

## Industrial Confidence

- Assessment of order books
- Assessment of current stock of finished goods
- Production expectations

# Hard questions: European Union

## Service Confidence

- Development of business situation
- Development of demand
- Expected demand

# Hard questions: European Union

## Retail Trade Confidence

- Development of business activity
- Assessment of stock of goods
- Expected business activity

# Hard questions: European Union

## Construction Confidence

- Assessment of order books
- Employment plans

# Hard questions: European Union

## Consumer Confidence

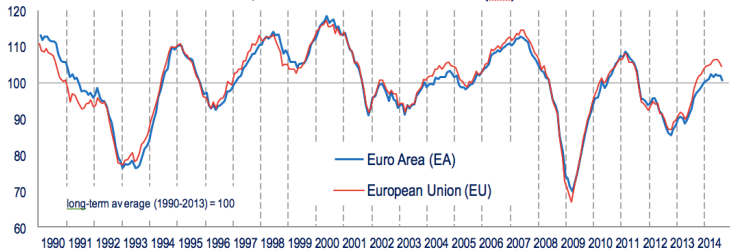
- Expected financial position of household
- Expected general economic situation
- Expected number of people unemployed
- Household intention to save

# DG EFCIN Economic Sentiment



## **BUSINESS AND CONSUMER SURVEY RESULTS**

Graph 1: Economic sentiment indicator (s.a.)



source: European Commission services

# Approaches

## Question:

How can we condense information contained in various indicators into one (or at least in a view) indicator(s)?

- Classical (NBER)
- Factor analysis

# Classical Approach

## Steps in Classical Approach

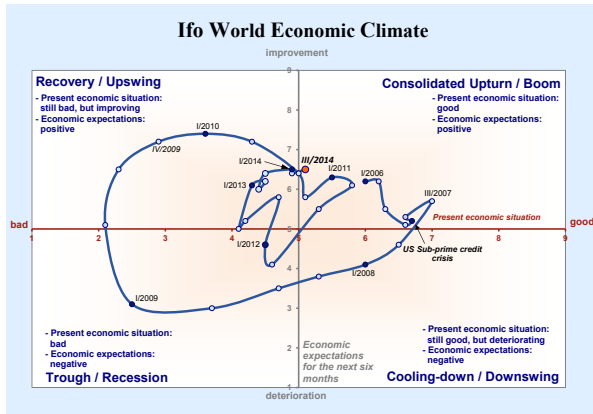
- Choose and classify indicators (de-trending, cross-correlations, turning points, co-spectral analysis)
- Standardize indicators
- Average indicators (and standardize)



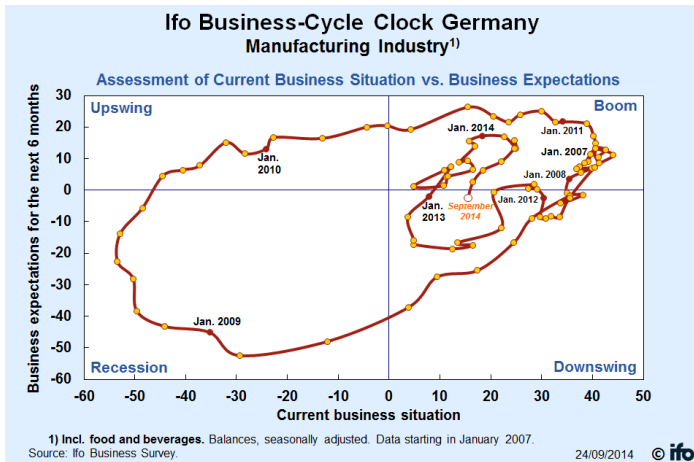
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# Ifo Business Cycle Clock



# Ifo Business Cycle Clock

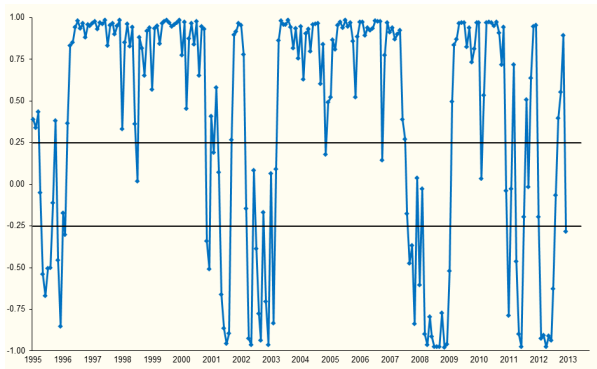


## Example of a Business Monitor (Clock)

German Federal Statistical Office: [Business Cycle Monitor](#)

Statistics Netherlands: [Business Cycle Tracer](#)

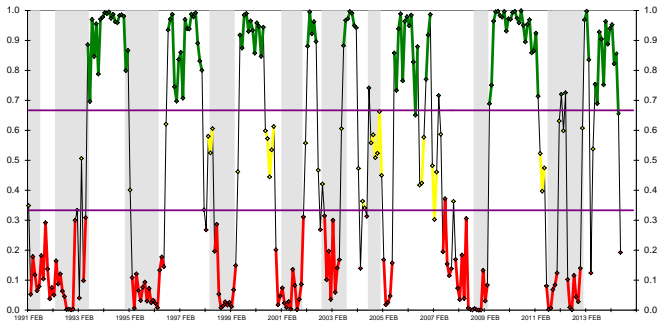
# DG EFCIN Turning point indicator for the euro area



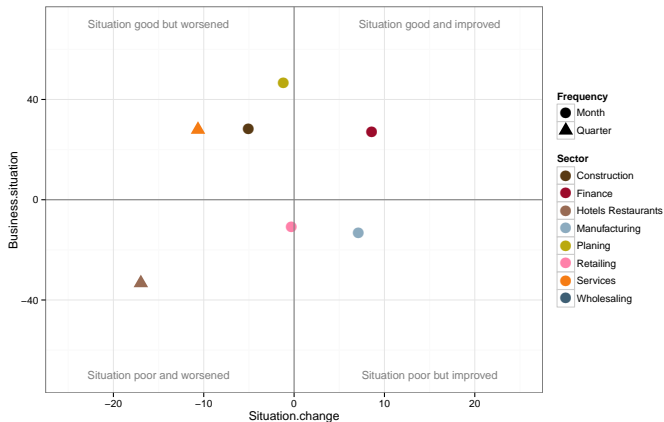
Probability for upswing minus probability for downswing

Source: OECD

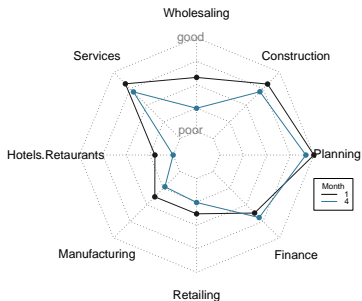
# Ifo Business Cycle Traffic Lights



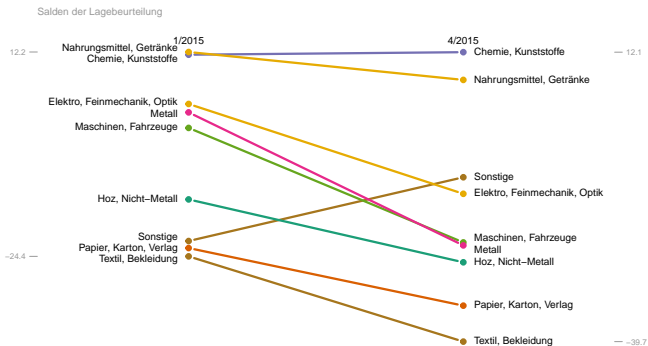
# KOF Business Situation Matrix



# KOF Business Situation Radar



# KOF Business Situation Altimeter for Industries

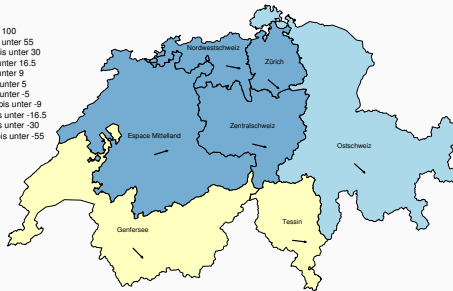


# KOF Business Situation Map

## KOF Geschäftslage der Unternehmen der Privatwirtschaft

### Salden

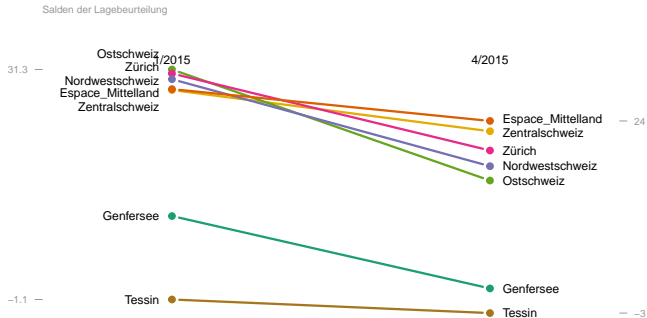
- 55 bis 100
- 30 bis unter 55
- 16.5 bis unter 30
- 9 bis unter 16.5
- 5 bis unter 9
- -5 bis unter 5
- -9 bis unter -5
- -16.5 bis unter -9
- -30 bis unter -16.5
- -55 bis unter -30
- -100 bis unter -55



Die Winkel der Pfeile spiegeln die Veränderung der Geschäftslage  
im Vergleich zum Vormonat wider

Quelle: KOF

# KOF Business Situation Altimeter for Regions



Quelle: KOF

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## Targeted audience

Usually various user groups are targeted. One has to decide for each user group how to address them in the best way. Typical audiences targeted are

- The general public. The public can be reached directly (e.g. via the internet) or with the help of the media by using journalists as a kind of conduit.
- The media
- Expert users (analysts, scientists, well informed public)
- The survey respondents

## Elements of a publication strategy

Nowadays statistical information is mainly distributed via two channels: The internet and the media.

- Transparent publication calendar (and systematic)
- Published information must be accurate and neutral. The given information may not reveal information on individual companies or persons.
- Try to write an interesting story.
- Give the date of the release and a contact.

Often the "inverted pyramid" style is used . Simply, you write about your conclusions at the top of the story, and follow with secondary points in order of decreasing importance throughout the text.

## Elements of a publication strategy

The availability of statistics also depends on the extent to which survey respondents understand that data serve an important purpose by providing a mirror on the world in which we live. The more a statistical agency can show the relevance of its data, the more respondents will be encouraged to provide the data.

# DG ECFIN Publication schedule



European  
Commission

BUSINESS AND CONSUMER SURVEYS

## Publication dates 2015

Flash Consumer Confidence Indicator

Month	Publication		
	Day	Date	Time
January	Thursday	22 January 2015	16h00
February	Thursday	19 February 2015	16h00
March	Monday	23 March 2015	16h00
April	Wednesday	22 April 2015	16h00
May	Thursday	21 May 2015	16h00
June	Monday	22 June 2015	16h00
July	Thursday	23 July 2015	16h00
August	Friday	21 August 2015	16h00
September	Tuesday	22 September 2015	16h00
October	Thursday	22 October 2015	16h00
November	Friday	20 November 2015	16h00
December	Monday	21 December 2015	16h00

Economic Sentiment Indicator & Business Climate Indicator

Month	Publication		
	Day	Date	Time
January <sup>1)</sup>	Thursday	29 January 2015	11h00
February	Thursday	26 February 2015	11h00
March	Monday	30 March 2015	11h00
April <sup>1) 2)</sup>	Wednesday	29 April 2015	11h00
May	Thursday	28 May 2015	11h00
June	Monday	29 June 2015	11h00
July <sup>1)</sup>	Thursday	30 July 2015	11h00
August	Friday	28 August 2015	11h00
September	Tuesday	29 September 2015	11h00
October <sup>1)</sup>	Thursday	29 October 2015	11h00
November <sup>2)</sup>	Friday	27 November 2015	11h00
December	Thursday	07 January 2016	11h00

<sup>1)</sup> includes quarterly surveys of manufacturing industry, services and consumers

<sup>2)</sup> includes investment survey

# Ifo Press release



## Ifo Business Climate Germany Results of the Ifo Business Survey for March 2015

### Ifo Business Climate Index Rises

The Ifo Business Climate Index for German trade and industry rose to 107.9 points in March from 106.5 points last month. The index reached its highest level since July 2014. Companies were more satisfied with their current business situation. They also expressed greater optimism about future business developments. The German economy continues to expand.

In manufacturing the climate indicator rose once again. Manufacturers were more satisfied with their current business situation. They were also clearly more optimistic about future business developments. Production plans reached their highest level since May 2014.

In wholesaling the business climate also improved. Assessments of the current business situation were far more favourable, while wholesalers scaled back their slightly optimistic business expectations. In retailing the business climate also continued to brighten. After falling in February, the business situation indicator rose again. Retailers expressed greater confidence in future business developments.

In construction, by contrast, the business climate indicator continued to fall, but remains at a high level. Contractors assessed both their current business situation and their business outlook less favourably than last month. There is still a boom in construction, but it is weakening.

Hans-Werner Sinn  
President of the Ifo Institute



### Germany (Index, 2005 = 100, seasonally adjusted)

Month/year	03/14	04/14	05/14	06/14	07/14	08/14	09/14	10/14	11/14	12/14	01/15	02/15	03/15
<b>Climate</b>	110.7	110.3	110.1	109.4	108.0	106.5	105.5	103.4	104.6	105.5	106.7	106.8	107.9
<b>Situation</b>	113.3	112.3	114.8	114.7	113.2	110.8	110.7	108.0	109.2	109.8	111.2	111.3	112.2
<b>Expectations</b>	105.4	106.0	105.5	104.2	103.0	102.7	100.4	98.0	100.1	101.2	102.0	102.1	103.9

Source: Ifo Business Survey

For long time-series in Excel format consult [www.ceifo-group.de/eng/infocenter](http://www.ceifo-group.de/eng/infocenter)

# KOF Press release

**ETH**

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zürich

KOF Konjunkturforschungsinstitut  
KOF Swiss Economic Institute  
ETH Zürich  
LGG G 116  
Leonhardstrasse 21  
8092 Zürich  
Tel.: +41 44 632 40 61  
kofi@kof.ethz.ch

**KOF**

## Press Release

Zürich, 3 March 2015, 9 a.m.

### Results of the KOF Business Tendency Surveys of February 2015

#### Consequences of the Decision by the SNB Become Apparent

According to the most recent KOF Business Tendency Surveys, the economic outlook of Swiss businesses cooled significantly in February. The current results provide the first comprehensive indications regarding the new currency situation, since in January almost 94% of participants filled in the questionnaire before the exchange rate floor on the franc was removed. In all areas of the economy covered by the survey – manufacturing, retail trade, finance, construction and the architectural and engineering sector – the economic outlook deteriorated. The position worsened particularly for manufacturers.

#### Breakdown according to sector

All economic sectors questioned by the KOF considered their economic outlook to be less favourable in February than in January. The fall was significant for the construction industry and the architectural and engineering sector, although did not occur on an extraordinary scale. The economic outlook indicator had improved significantly in the architectural and engineering sector in January, which means that the fall in February only partially reverses this rise. The direct consequences of the increase in the value of the franc should be limited in the construction industry.



# GfK Press release



## Press release

The next GfK Consumer Climate report will be published on  
Thursday, April 23, 2015, 8.00 a.m.  
press embargo: March 26, 2015, 8.00 a.m.

### Bright prospects for German consumer climate

Findings of the GfK Consumer Climate study for Germany for  
March 2015

March 26, 2015

Karl Bött  
T +49 911 389 3030

Ulrich Pöhlmann  
Consumer Communications  
T +49 911 389 2703

Nuremberg, March 26, 2015 – German consumers are becoming ever more optimistic. Following a value of 9.7 points in March 2015, the overall indicator is forecasting 10.0 points for April. Increases were once again recorded in both economic and income expectations as well as willingness to buy.

The tug of war in Europe over the future of Greece is currently having no impact whatsoever on the consumer mood of Germans. Consumers consider the German economy to be on clear upward trend based on a weak euro, which is boosting exports, and lower energy costs. In the wake of an improving economic outlook, income expectations and willingness to buy also rose further to again surpass the record value of the previous month.

#### Economic expectations: upswing is stabilizing

In March, the upward movement in economic expectations continued unabated. The indicator rose by 9.6 points to 36.8 points. This is the fourth consecutive increase for the indicator. A higher value of 45.9 points was last recorded in July 2014. The indicator's upward trend has therefore clearly stabilized.

The low interest rate policy of the European Central Bank (ECB) has placed the euro under great pressure of devaluation. This has therefore significantly improved the competitiveness of German exports outside the eurozone. In addition, the effect of exceedingly low energy costs for households and companies is similar to a mini economic stimulus program.

Consequently, economic experts now regard the original growth forecast of 1.5 percent for gross domestic product (GDP) this year as too conservative. They are now forecasting an increase of almost 2 percent.

Companies also clearly consider the German economy to be on an upward trend, as is reflected in the fifty successive increase in the Ifo Business Climate Index in March.

GfK SE  
Helmweg 101  
90769 Regensburg  
Germany

T +49 911 389-0  
Management Board  
Marlene Wehmann (CEO)  
Christian Deusch (CFO)  
Dr. Stefan Hoeselinger  
Detlev A. Pöhl

Chairman of the  
Supervisory Board  
Dr. Arno Matzert

Commercial register  
Nuremberg HRB 20214

# GfK Press release



## Income expectations: upward trend continues

Given the significant improvement in the economic outlook, income expectations have also risen. After rising by 2.5 points, the indicator is now at 53.1 points. This is the third consecutive increase on an already extremely high level.

The combination of rising employment, good collective wage agreements and very low inflation have caused consumers' income optimism to rise further. And not without reason: the first collective wage agreements in the metal and electronics industries amounted to 3.4 percent. This will certainly give an indication to employees in other industries. They can expect significant increases in real income this year. As pensions are closely linked to the development of salaries and wages, pensioners can also be hopeful of considerable real income rises. According to information provided by the government, pensions look set to increase by 2.1 percent in western Germany and 2.5 percent in the new eastern federal states with effect from July 1, 2015.

## Willingness to buy: sixth consecutive rise

After a sixth consecutive rise, willingness to buy has once again surpassed its eight-year high. Following an increase of 3.9 points, the indicator is now at 63 points. The propensity to consume is therefore 1.4 points below its highest ever value of 64.4 points in October 2008, shortly before the VAT increase.

The reasons for the excellent development of willingness to buy are obvious: rising employment and income prospects coupled with low energy prices are giving consumers planning security and the financial means for making major purchases with renewed vigor.

In addition, the ECB's monetary policy which aims to push interest rates to rock bottom is also boosting the spending mood, because the alternative of saving is currently not very appealing. The propensity to save remains extremely low, although a slight increase was recorded in March.

## Consumer climate: highest value in 13 years

Following a value of 9.7 points in March 2015, the overall indicator is forecasting 10.0 points for April. This is its highest value since October 2001, when the indicator was at 11.0 points. The consumer climate in Germany is therefore continuing its upward trend.

GfK confirms its forecast issued at the start of the year that private spending in Germany will increase by around 1.5 percent in real terms in 2015. It will therefore be a key pillar of the German economy.

Despite the positive outlook, there are still some risks. Although Germans are currently not affected, the current battle on the future of Greece could

# GfK Press release



cause uncertainty in Germany in the coming months as well as the risks are difficult to assess. If a Grexit, where Greece renounces the euro and subsequently leaves the eurozone, were in fact to materialize, the German economy could suffer a severe setback as a result.

**PLEASE NOTE:** publication date for April has changed:  
Thursday, April 23, 2015, 8 a.m.

Provisional publication dates for 2015

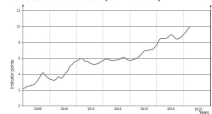
Thursday, March 26, 2015, 8 a.m.	Thursday, April 23, 2015, 8 a.m.
Wednesday, May 27, 2015, 8 a.m.	Thursday, June 25, 2015, 8 a.m.
Wednesday, July 29, 2015, 8 a.m.	Friday, August 21, 2015, 8 a.m.
Thursday, September 24, 2015, 8 a.m.	Wednesday, October 28, 2015, 8 a.m.
Thursday, November 26, 2015, 1 p.m.	Tuesday, December 22, 2015, 8 a.m.

The following table shows the development of the individual indicators in March in comparison with the previous month and prior year:

	March 2015	February 2015	March 2014
Economic expectations	36.9	27.2	33.2
Income expectations	53.1	50.6	45.6
Willingness to buy	63.0	59.1	55.5
Consumer climate	9.7	9.3	8.3

The following graph shows the development of the consumer climate indicator over the past few years:

GfK Consumer Climate indicator (as at: March 2015)



# GfK Press release



## About the study

These findings are extracts from the "GfK Consumer Climate MAXX survey", which is based on around 2,000 consumer interviews conducted each month on behalf of the European Commission. The report contains charts, forecasts and a detailed commentary regarding the indicators. In addition, the report includes information on proposed consumer spending in 20 different areas of the consumer goods and services markets. The GfK Consumer Climate survey has been conducted since 1980.

The consumer climate explicitly refers to all private consumer spending. However, depending on the definition, only 30 percent of private consumer spending is accounted for retail. The remainder is attributable to services, travel, rent, health services and the entire personal care segment.

GfK is predicting a rise in private consumption of 1.5 percent for 2015. Again, this does not relate to just retail sales, but to all consumer spending. Last year, GfK also forecast that private spending would increase by 1.5 percent. According to figures from the Federal Statistical Office, private spending grew by 1.2 percent in 2014.

Willingness to buy is a mood indicator, as are all the other indicators. It examines whether consumers think it is advisable to make major purchases at present. Even if they answer "yes", two further requirements need to be fulfilled for a purchase to be made: consumers must have the money that is required for such a major purchase and also regard this acquisition to be necessary. In addition, it only relates to consumer durables, which require a greater budget.

The findings of the consumer climate survey based on around 2,000 interviews conducted each month on a representative sample of the German population. This survey tool is subject to continuous quality controls, especially in relation to the representativeness. The fact that the results are used and recognized in the field of empirical legal research (for example, the likelihood of confusion between products) is a testament to the exceptionally high quality of this survey. This means that the results are quality approved by experts and must stand up in court.

Further information: Rolf Birk, Tel. +49 911 395-3056,  
[rolf.birk@ufz.com](mailto:rolf.birk@ufz.com)

# GfK Press release



The table below provides an overview of the following indicators:

Economic expectations	This index is based on the following question to consumers: "How do you think the general economic situation will develop in the next 12 months?" (improve – stagnate – deteriorate)
Income expectations	This index is based on the following question to consumers: "How do you think the financial situation of your household will develop in the next 12 months?" (improve – stagnate – deteriorate)
Consumption and buying willingness	This index is based on the following question to consumers: "Do you think it is advisable to make major purchases at the moment?" (good time – neither good nor bad time – bad time)
Consumer climate	This index is used to describe private consumption. Key factors are income expectations, buying willingness and savings trends. The economic outlook has a more indirect effect on the consumer climate, generally as a result of income expectations.

## About GfK

GfK is the trusted source of relevant market and consumer information that enables its clients to make smarter decisions. More than 13,000 market research experts combine their passion with GfK's long-standing data science experience. This allows GfK to deliver vital global insights matched with local market intelligence from more than 100 countries. By using innovative technologies and data sciences, GfK turns big data into smart data, enabling its clients to improve their competitive edge and enrich consumers' experiences and choices.

For more information, please visit [www.gfk.com](http://www.gfk.com), or follow GfK on Twitter: [www.twitter.com/gfkgk\\_en](https://twitter.com/gfkgk_en)

Responsible under press legislation:  
GfK SE, Corporate Communications  
Jan Sauger  
Nordwestring 101  
90410 Nuremberg  
Germany  
T +49 911 365 4387

# OECD Press release



Paris, 9 March 2015  
OECD Composite Leading Indicators  
News Release

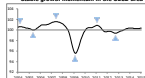
## Composite leading indicators point to positive change in growth momentum in the euro area

Composite leading indicators (CLIs), designed to anticipate turning points in economic activity relative to trend, point to positive change in growth momentum in the **euro area**, and stable growth momentum in most other major economies and the **OECD area** as a whole.

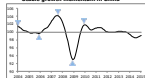
In **Germany**, the CLI confirms the positive change in momentum that was tentatively flagged in last month's assessment. The outlook for **Italy** and **France** has also improved, with the CLIs now showing tentative signs of a positive change in momentum.

Stable growth momentum is anticipated amongst most other major economies, including the **United States**, the **United Kingdom**, **Canada**, **Japan**, **China** and **Brazil**. In **India**, the CLI continues to indicate firming growth, while in **Russia** the CLI still points to a loss in growth momentum.

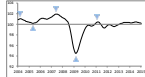
Stable growth momentum in the OECD area



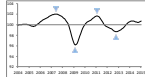
Stable growth momentum in China



Stable growth momentum in the United States



Positive change in momentum in the Euro area



The above graphs show country specific composite leading indicators (CLIs). Turning points of CLIs tend to precede turning points in economic activity relative to trend by approximately six months. The horizontal line at 100 represents the trend of economic activity. Shaded triangles mark confirmed turning points of the CLI. Blank triangles mark provisional turning points that may be reversed.

### Methodological Notes

The CLI methodological notes are available at: [www.oecd.org/dataoecd/44/28/44728410.pdf](http://www.oecd.org/dataoecd/44/28/44728410.pdf)

Watch our videos explaining the CLIs: [www.oecd.org/dataoecd/44/28/44728410.pdf](http://www.oecd.org/dataoecd/44/28/44728410.pdf)

Access data: <http://data.oecd.org/indicators/Composite-Leading-Indicators/>

### Contacts

For further information journalists are invited to contact the OECD's Media Relations Division on

(33) 1 45 24 97 00 or e-mail [media@oecd.org](mailto:media@oecd.org)

For technical questions contact [stat.contact@oecd.org](mailto:stat.contact@oecd.org)

Next release: 9 April 2015

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

# Making Data Meaningful



## Part 1

A guide to writing stories  
about numbers



UNITED NATIONS



## The lead: The first paragraph

The first paragraph, or lead, is the most important element of the story. The lead not only has to grab the reader's attention and draw him or her into the story, but it also has to capture the general message of the data.

The lead is not an introduction to the story. On the contrary, it should tell a story about the data. It summarizes the story line concisely, clearly and simply.

It should contain few numbers. In fact, try writing the first sentence of the lead using no figures at all.

Don't try to summarize your whole report. Rather, provide the most important and interesting facts. And don't pack it with assumptions, explanations of methodology or information on how you collected the data.

## The lead: The first paragraph

The lead paragraph should also place your findings in context, which makes them more interesting. Research shows that it is easier to remember a news report if it establishes relevance, or attempts to explain a particular finding. Exercise caution, though. It is not a good idea to speculate, especially if your statistical office cannot empirically establish causality, or does not produce projections.

Give enough information so the reader can decide whether to continue reading. But keep it tight. Some authors suggest five lines or fewer - not five sentences - for the opening paragraph.

# Graphs

A picture is indeed worth a thousand words, or a thousand data points. Graphs (or charts) can be extremely effective in expressing key results, or illustrating a presentation.

An effective graph has a clear, visual message, with an analytical heading. If a graph tries to do too much, it becomes a puzzle that requires too much work to decipher. In the worst case, it becomes just plain misleading.

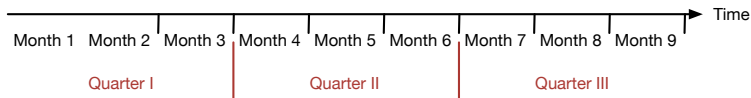
# Tables

Good tables complement text. They should present numbers in a concise, well-organized fashion to support the analysis. Tables help minimize numbers in the statistical story. They also eliminate the need to discuss insignificant variables that are not essential to the story line.

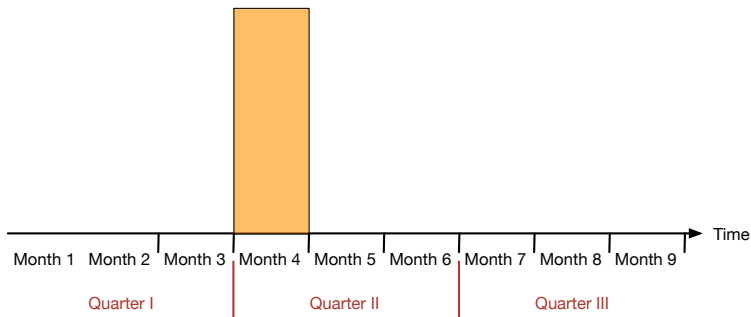
# Outline

- 1 Measurement of Assessments and Expectations of the Businesses and the Consumers
- 2 Composite Indicators
- 3 Special Graphical Representations
- 4 Publication Strategy
- 5 Forecasting**
- 6 Economic Research

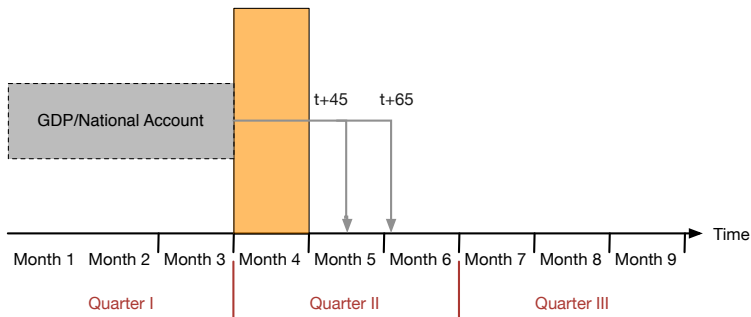
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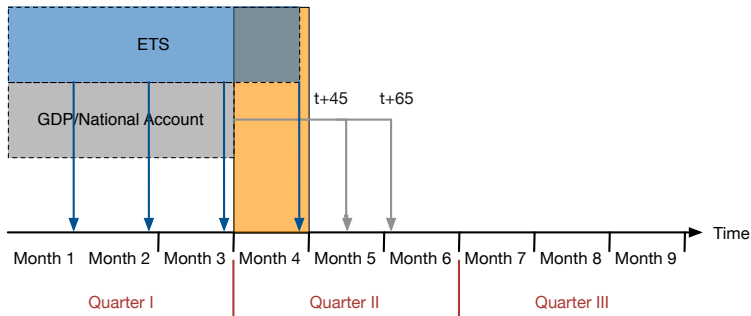
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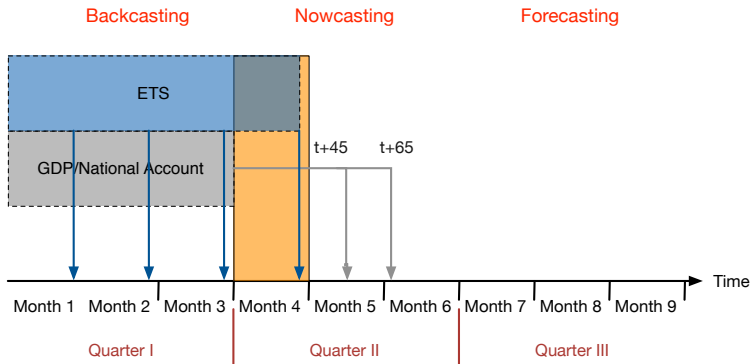
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# Outline

- 1 Measurement of Assessments and Expectations of the Businesses and the Consumers
- 2 Composite Indicators
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- 6 Economic Research**

## Economic research (macro and micro)

Expectation formation  
(on which information base?)

## Epidemiological Expectations Hypothesis

## Status Quo Bias

## Economic research (macro and micro)

## Permanent income hypothesis

Credit access/  
credit crunch indicators

## Transmission of shocks (industries/international)

