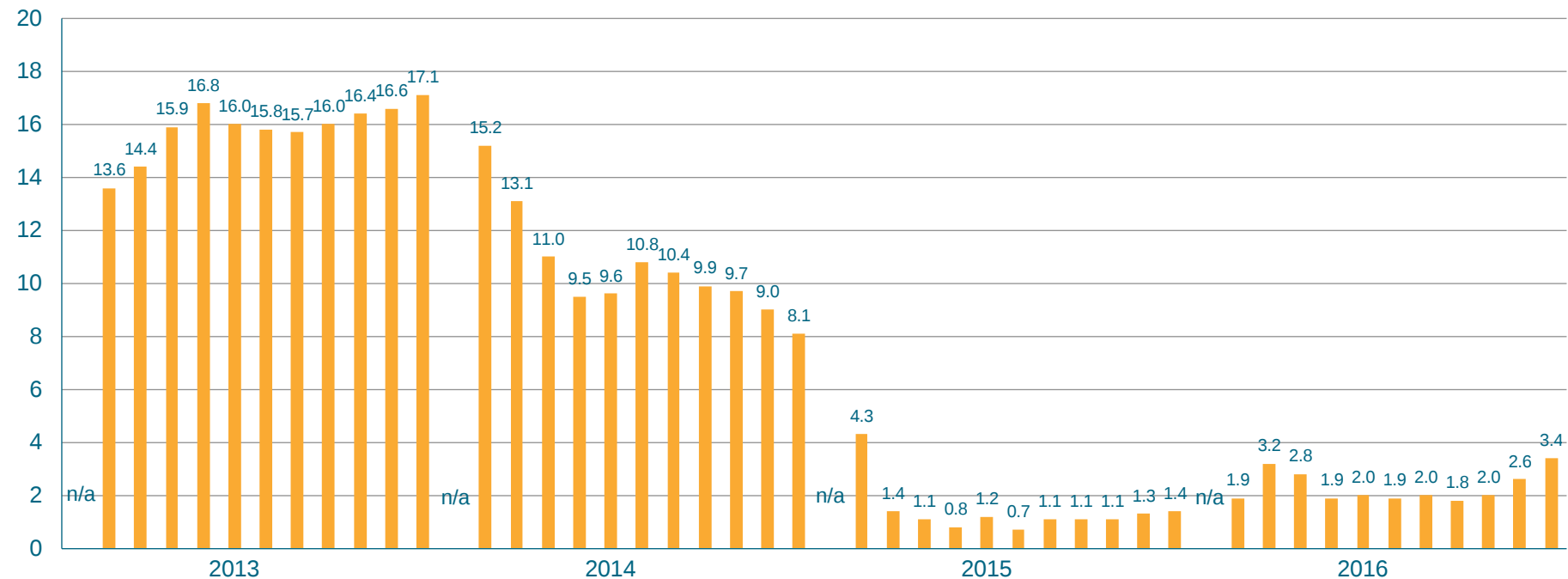


Global Mechanical Engineering Industry: Modest Growth Amid Uncertainty

Fluid Power Economic Meeting 2017
Hanover, April, 26th 2017

PR China: Nominal turnover mechanical engineering*

Nominal year-on-year percentage change of cumulated values in RMB (from January to...)

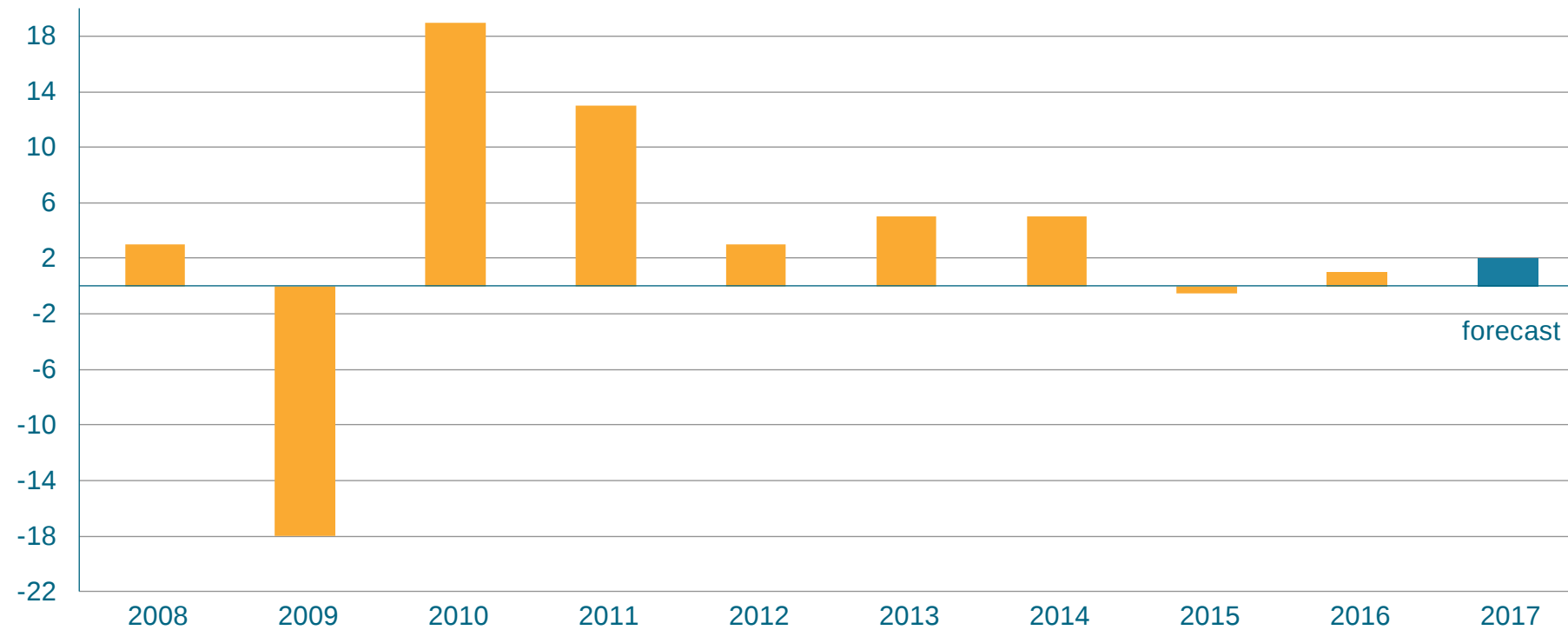


Source: China Machinery Industry Federation

* Mech. engineering according to VDMA definition; enterprises with annual turnover of more than 20 million RMB

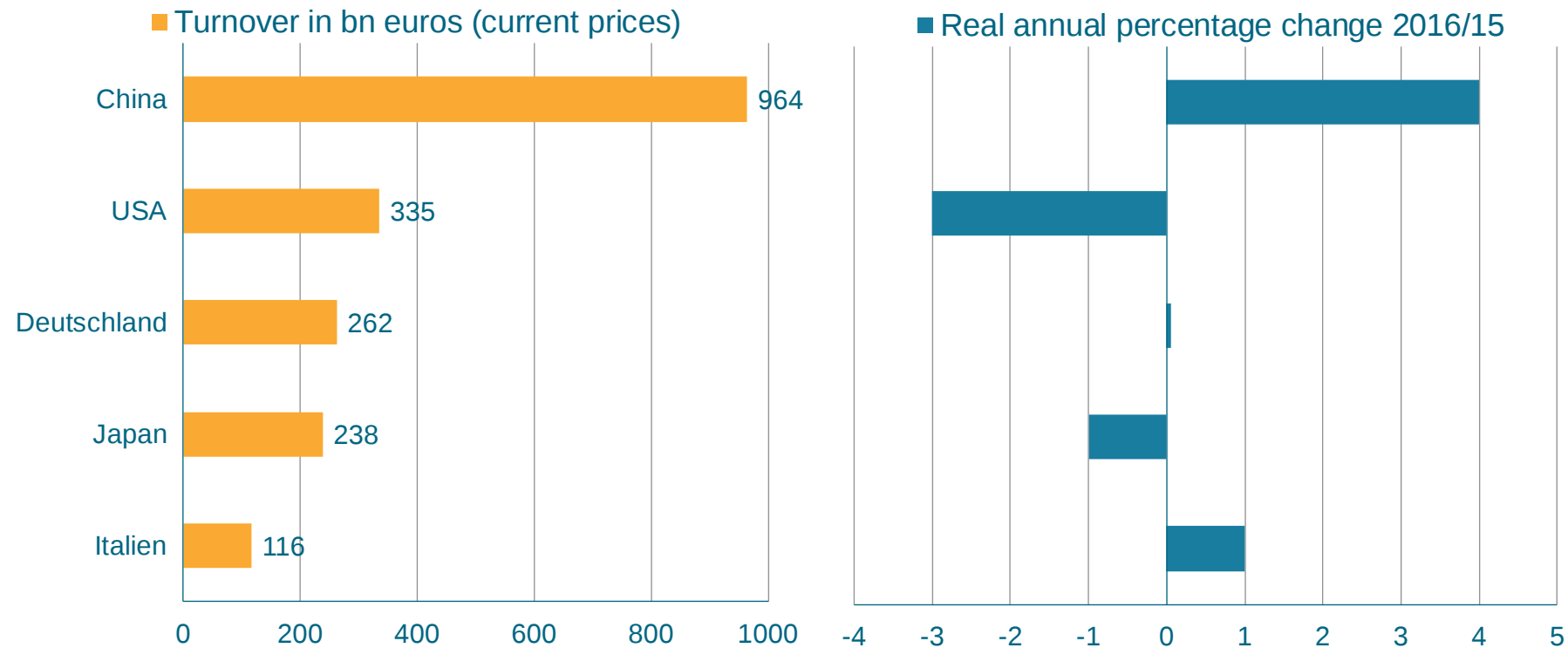
World: Development of machinery turnover

Real change against previous year in percent



Source: VDMA

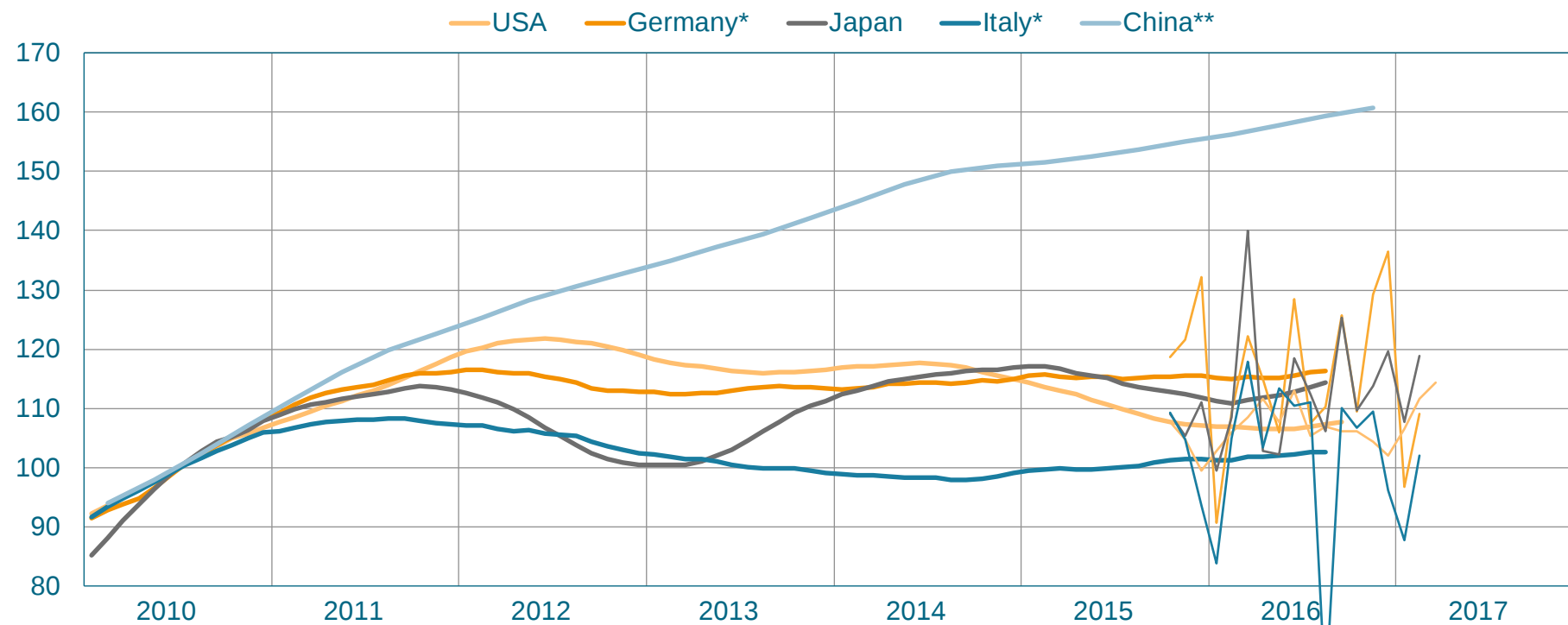
Turnover: top-5 countries in mechanical engineering 2016



Source: VDMA

Top-5 countries: Development of machine production

Volume index, 2010 = 100, 12-months moving average

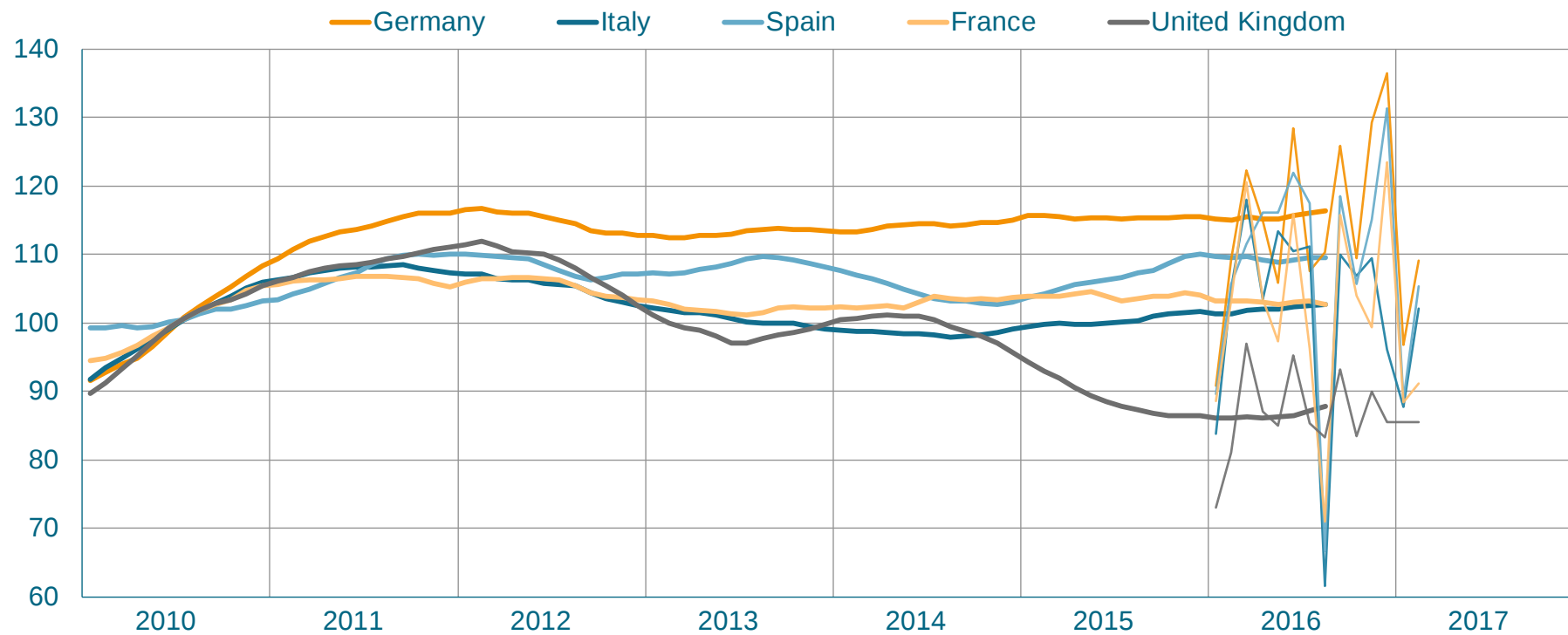


Source: Eurostat, Nat. Stat. Offices, Oxford Economics, VDMA

*) NACE rev. 2 28.
**) Oxford Economics, partly estimated with CMIF data

EU countries: Development of machine production*

Volume index, 2010 = 100, 12-months moving average

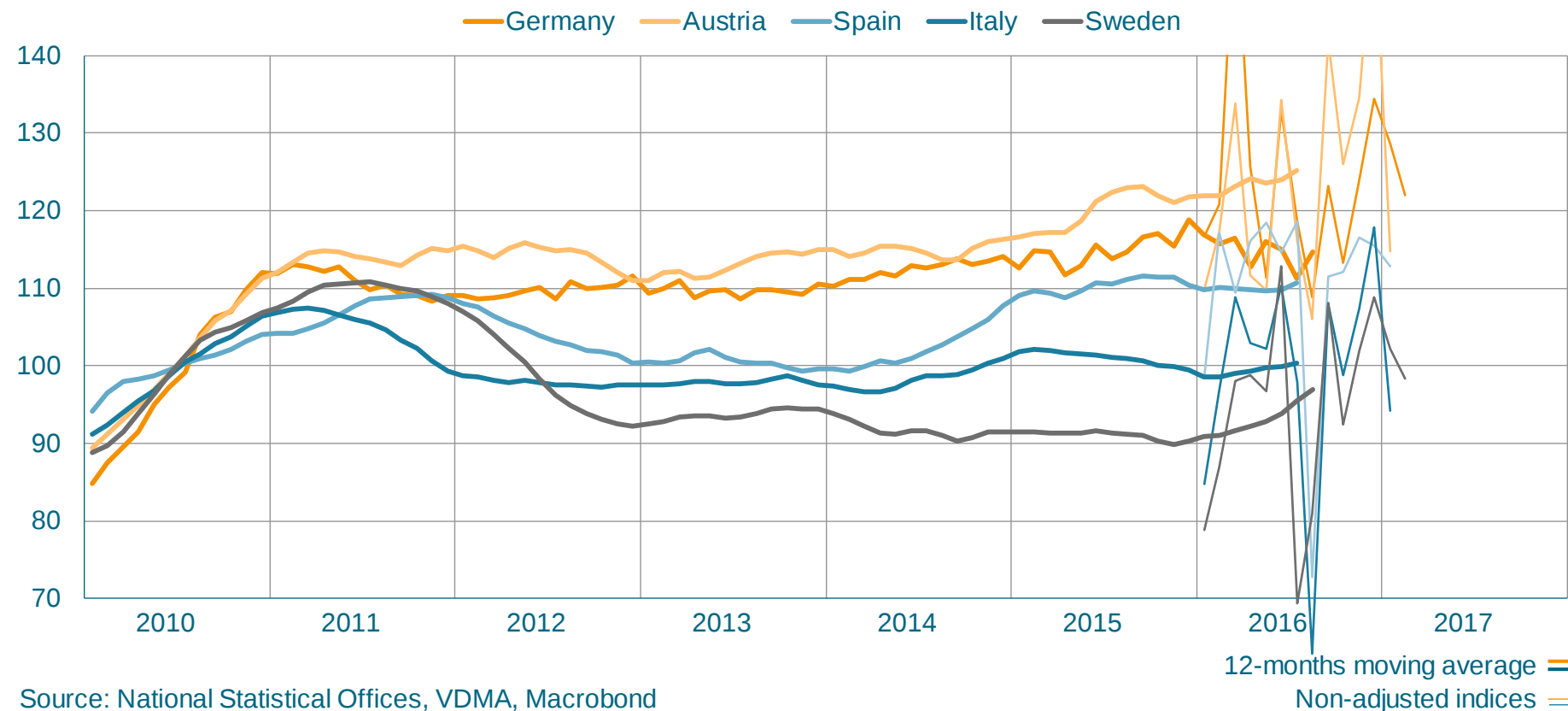


Source: National Statistics, VDMA

*) NACE rev. 2 28.

EU countries: New orders in mechanical engineering industry

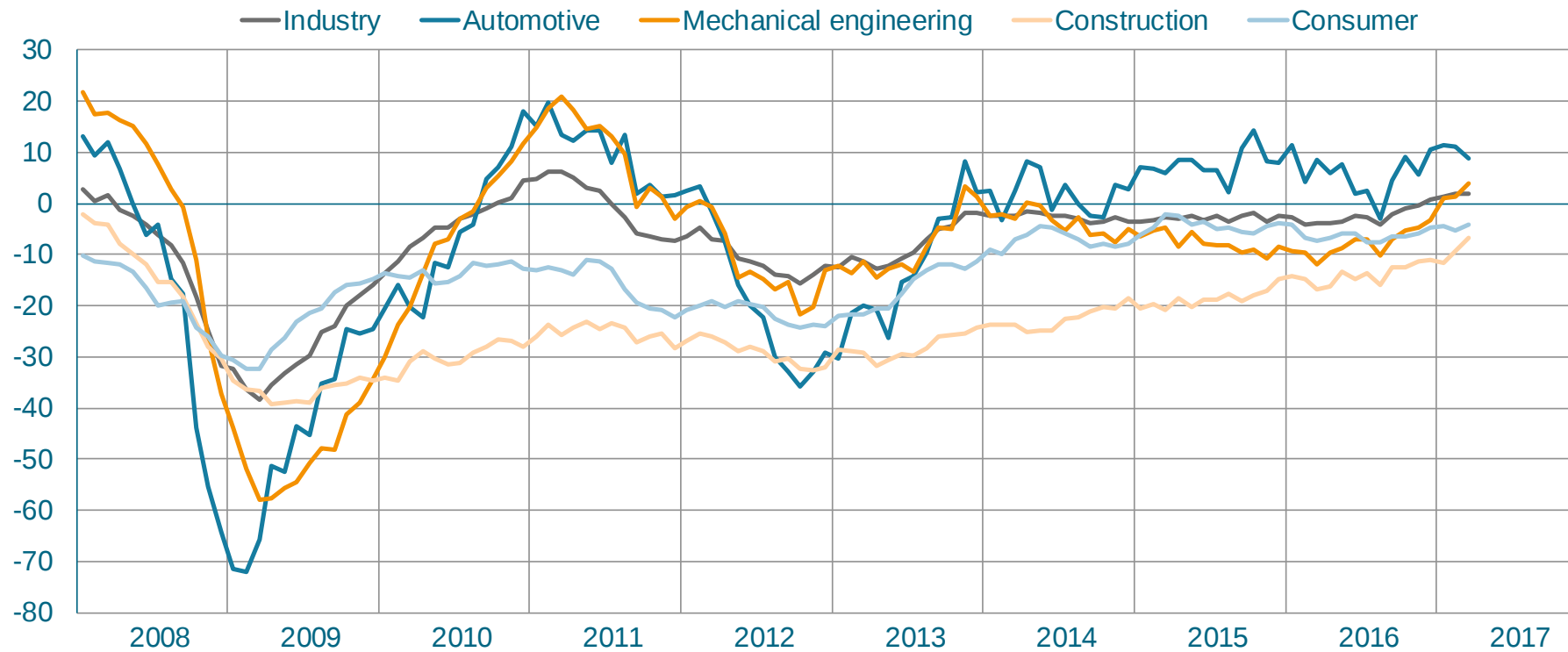
12-months moving average, Index 2010=100, nominal



Source: National Statistical Offices, VDMA, Macrobond

EU: Business climate in selected sectors

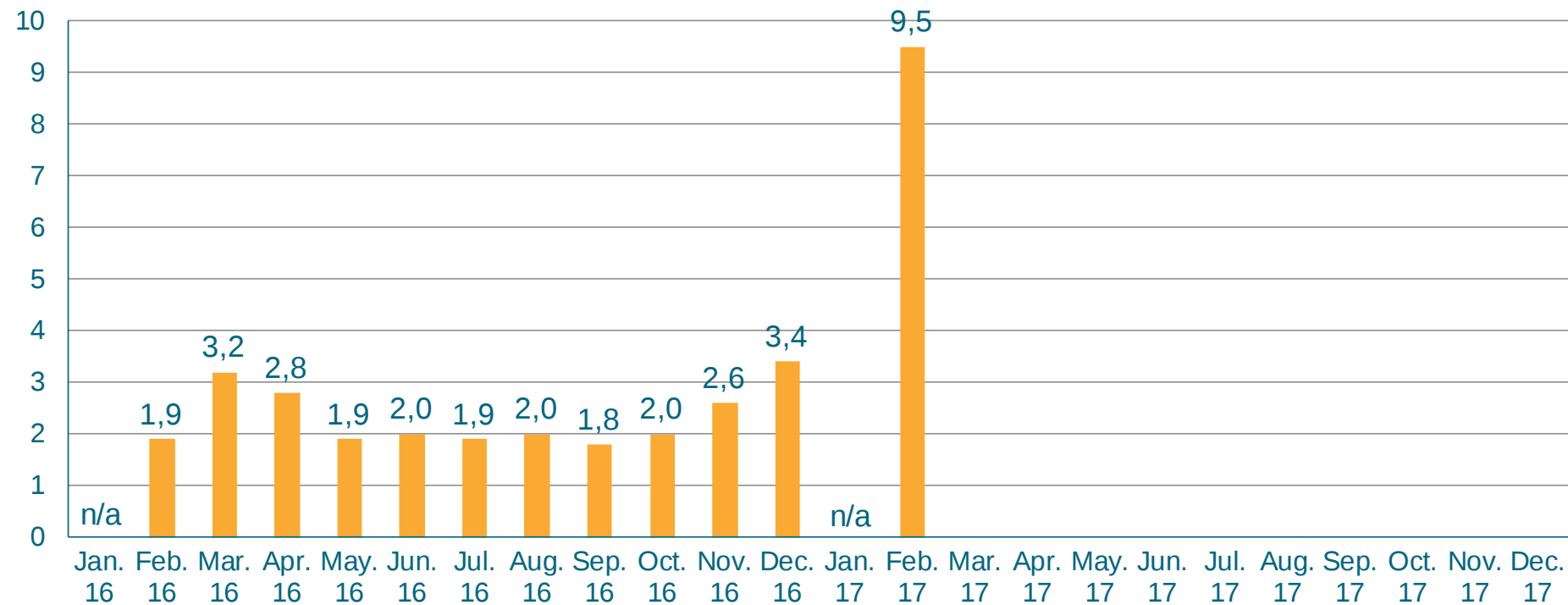
Seasonally adjusted, balance of positive and negative answers



Source: EU Commission, Macrobond

PR China: Nominal turnover mechanical engineering*

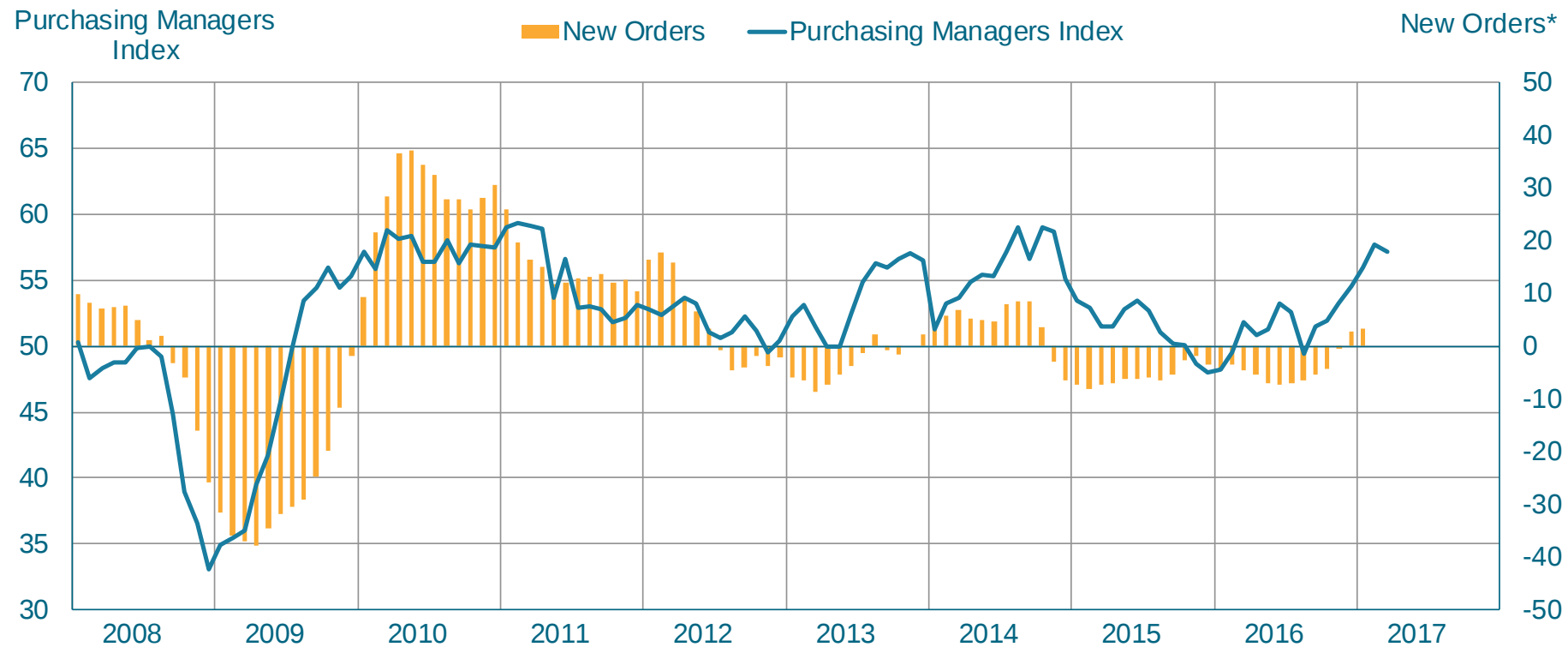
Nominal year-on-year percentage change of cumulated values in RMB (from January to...)



Source: China Machinery Industry Federation

* Mech. engineering according to VDMA definition; enterprises with annual turnover of more than 20 million RMB

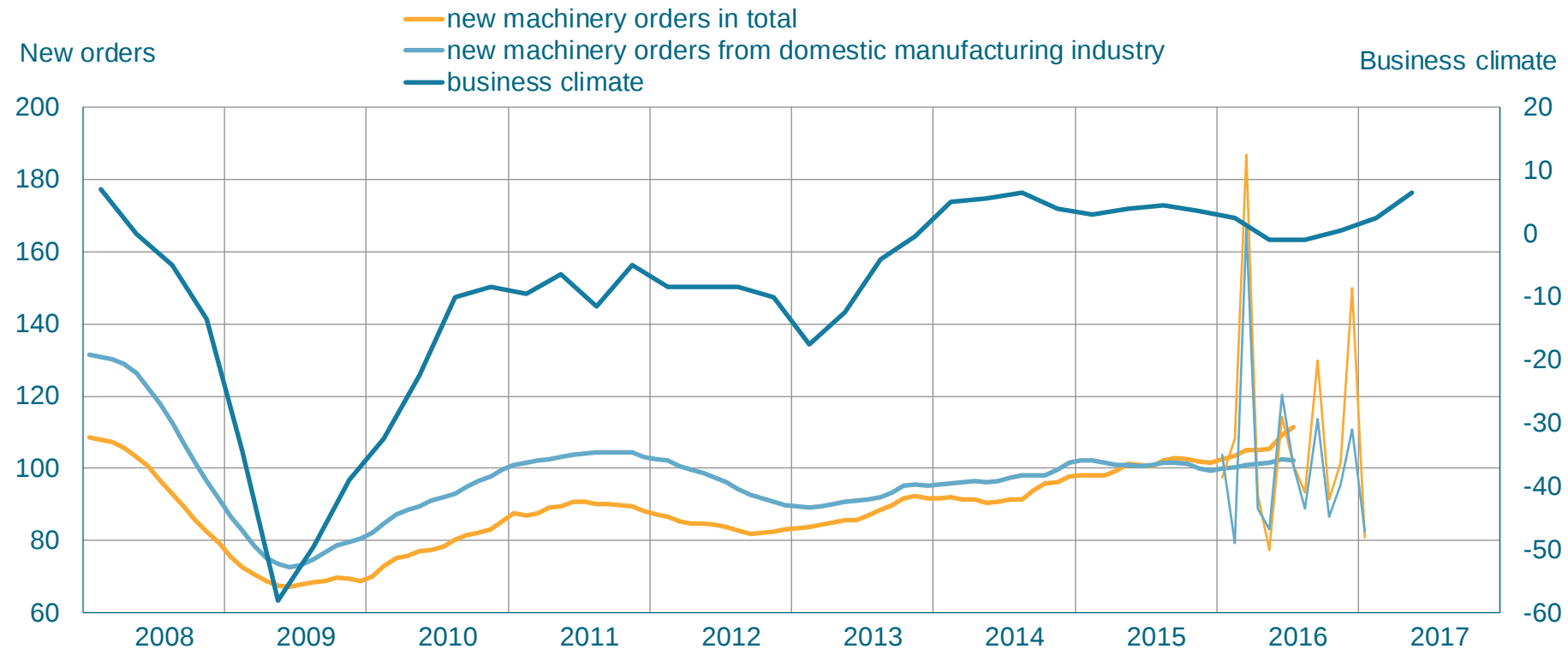
USA: Purchasing Managers Index (Manufacturing) and New Orders of US mechanical engineering



Source: ISM, Bureau of Census, VDMA

* Percent change against previous year of 3-months moving average.

Japan: Manufacturing business climate and machinery orders

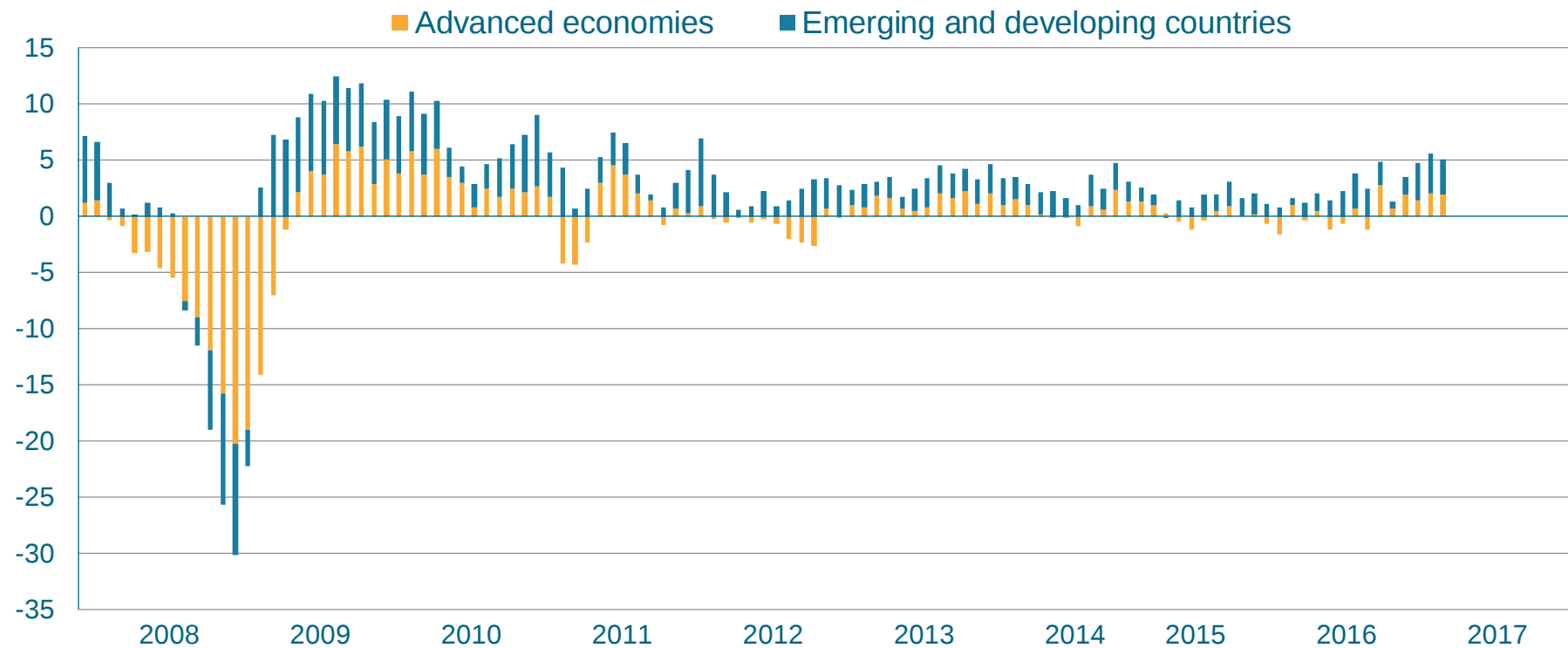


Source: TANKAN, ESRI, VDMA

Business Climate: Balance
New Orders: Indices 2015 = 100, price adjusted, smoothed line

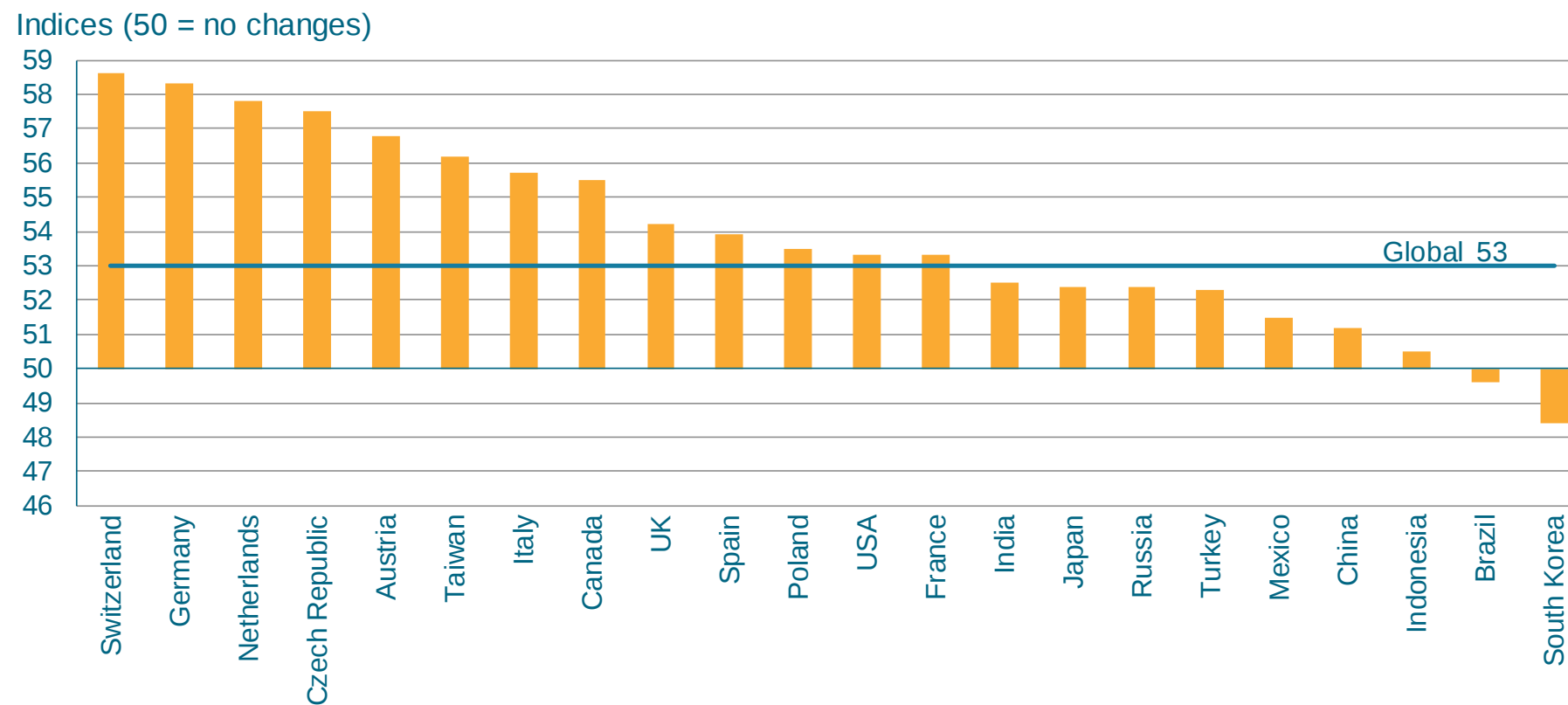
Global industrial production

Annualized growth rates in percent



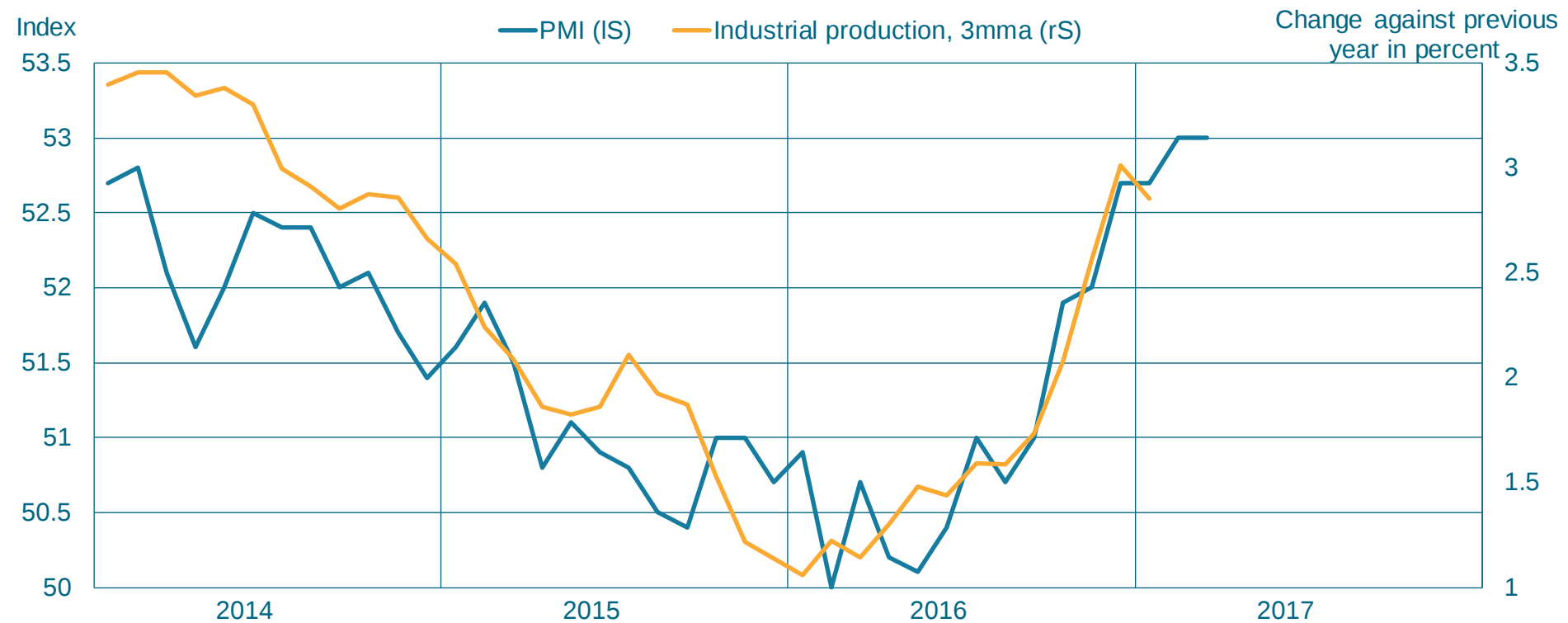
Source: CPB, Macrobond, VDMA calculations

Purchasing Managers Indices Manufacturing by Countries, March 2017



Source: IHS Markit, Macrobond

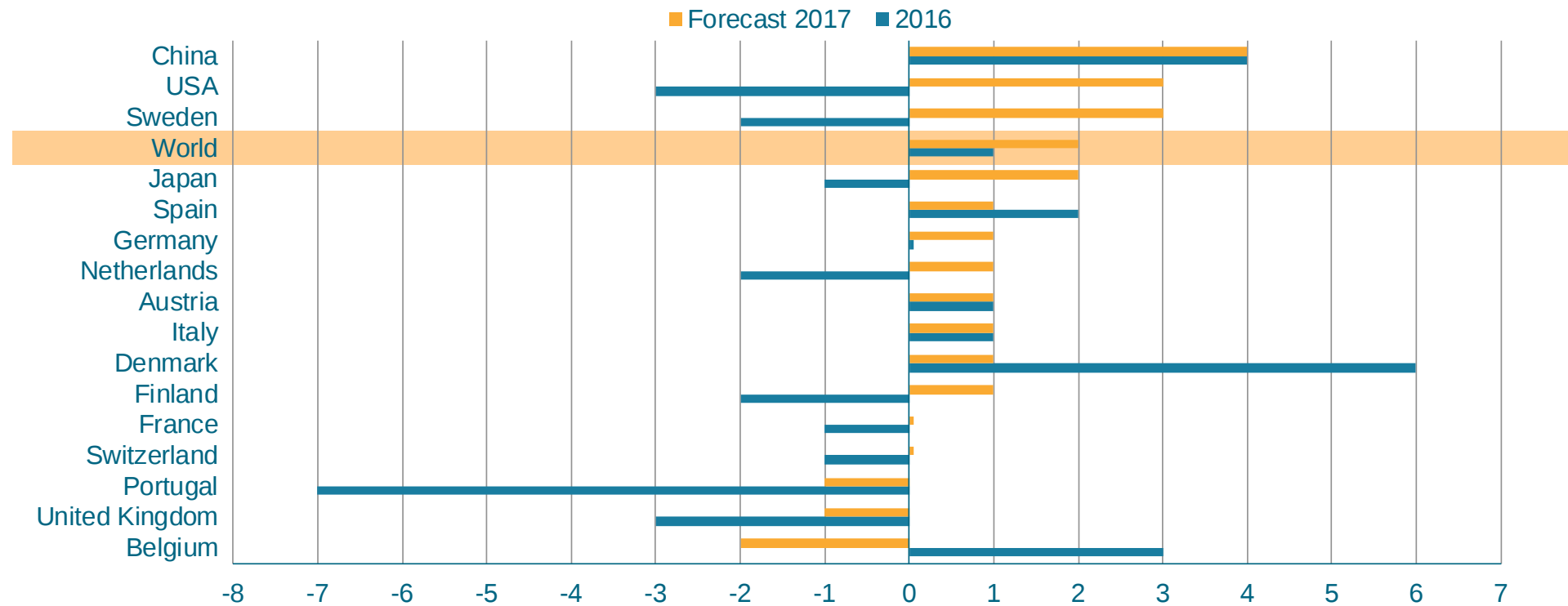
World: Industrial production and Purchasing Managers' Index



Source: Macrobond

Turnover in international mechanical engineering

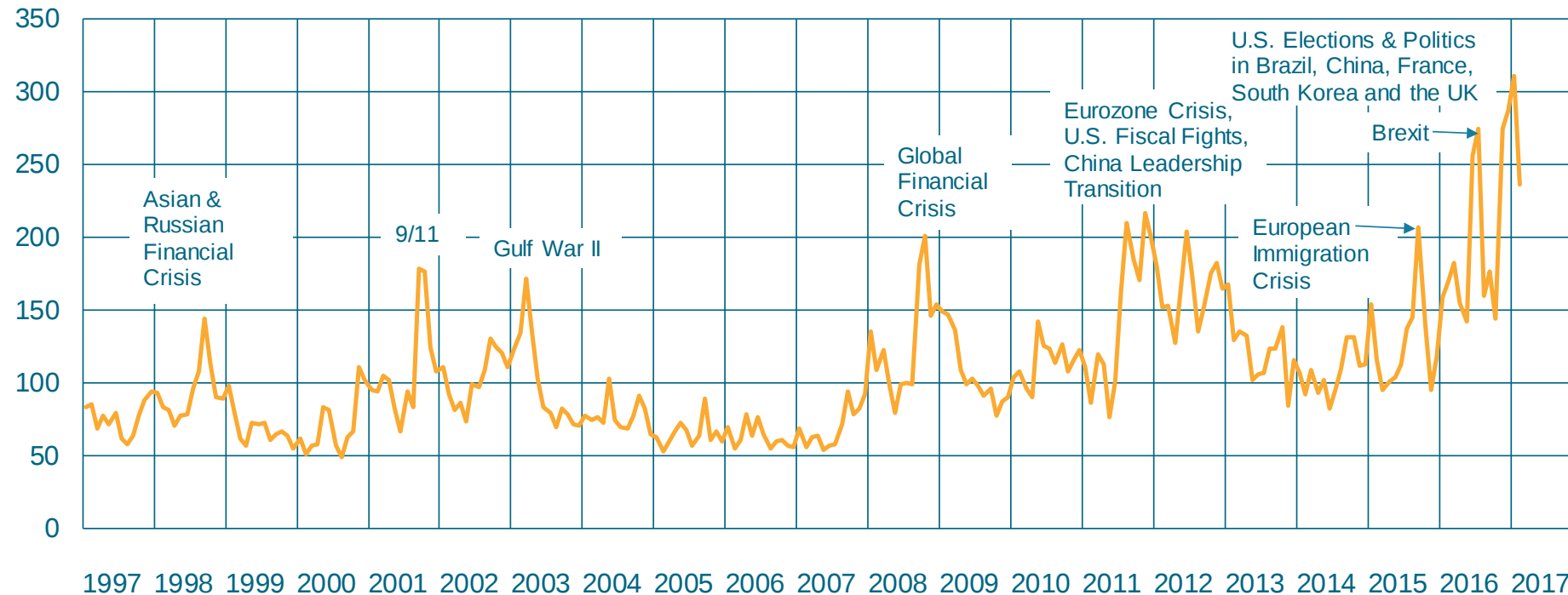
Real change against previous year in percent



Source: VDMA (March 2017)

Global Economic Policy Uncertainty Index

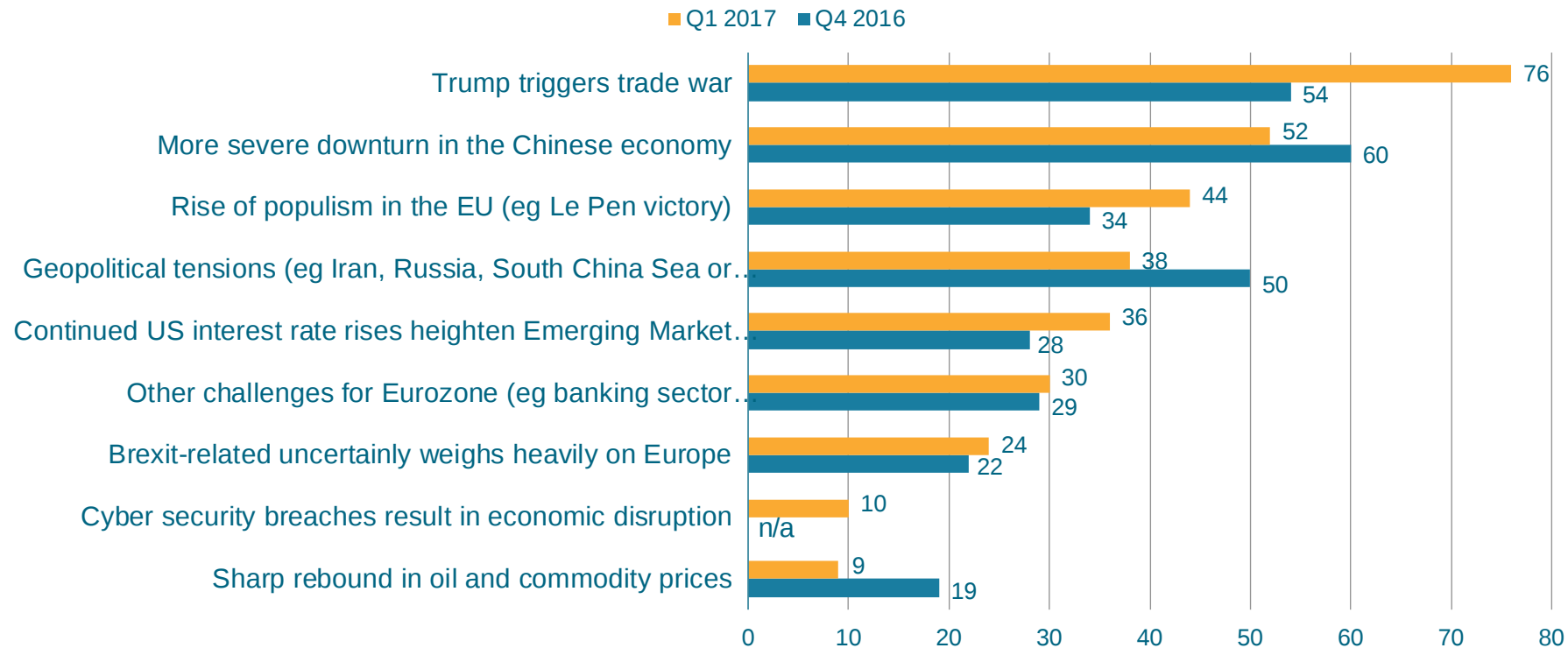
Index



Source: www.PolicyUncertainty.com, Macrobond
Includes news indices of 17 countries that account for 2/3 of global GDP

What do you see as the top three downside global economic risks over the next two years?

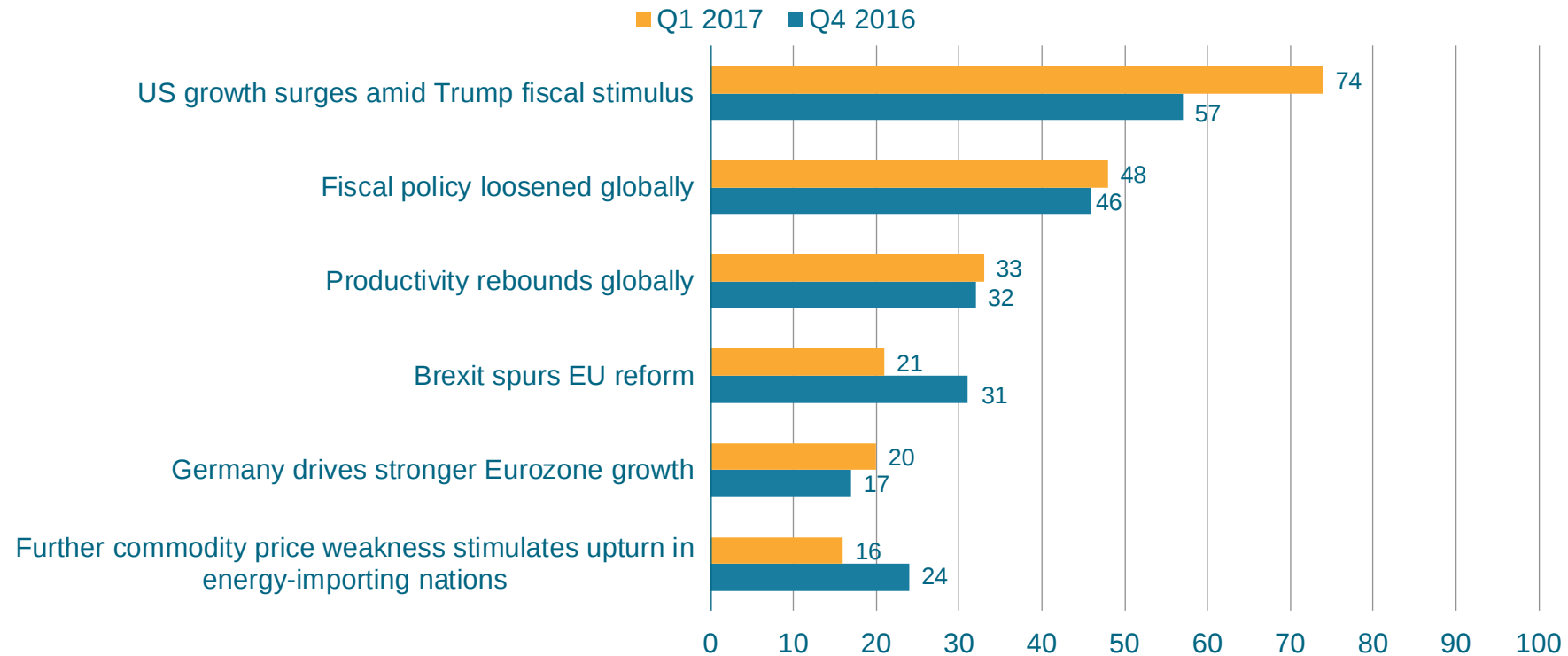
Percentage of respondents citing as a top risk



Source: Oxford Economics Global Risk Survey: Q1 2017

What do you see as the top upside global economic risks over the next two years?

Percentage of respondents citing as a top 2 risk



Source: Oxford Economics Global Risk Survey: Q1 2017



Thank you
Thank you
for your attention!