

# Monthly PMI Bulletin

## Global output contraction deepens to start the fourth quarter

### Monthly summary

The global slowdown deepened at the start of the fourth quarter with both manufacturing and services performance deteriorating and output contracting at a faster rate. Demand conditions worsened while prices remained elevated despite inflationary pressures easing. Concurrently, business confidence fell sharply in October.

The [J.P.Morgan Global Composite Output Index](#) – produced by S&P Global – posted 49.0 in October, down from 49.6 in September. This marked the third straight month of global contraction and at the fastest pace since June 2020, albeit still mild overall.

A faster contraction in demand in October, weighed on global private sector output with the [S&P Global Sector PMI](#) data showing only two of the eight sector groups tracked – technology and healthcare – registering growth in output.

National PMI data meanwhile highlighted that economic activity declined in most major economies including the US, China, the euro area, UK, Russia and Australia. On the other hand, Japan, India and Brazil saw private sector output expand.

Amid the decline in output, and alongside improved logistics, upward pressure on raw material prices and shipping rates cooled, altogether leading to slower input cost and output price inflation in the month of October. To some extent, this is reflective of central bank tightening taking effect to rein in inflation, although the still-elevated inflation rates warrant continued attention on the monetary policy front. The amalgamation of prospects for further rate rises and the backdrop of faltering global demand therefore do little to support confidence as business optimism slipped to an over two-year low at the start of the fourth quarter.

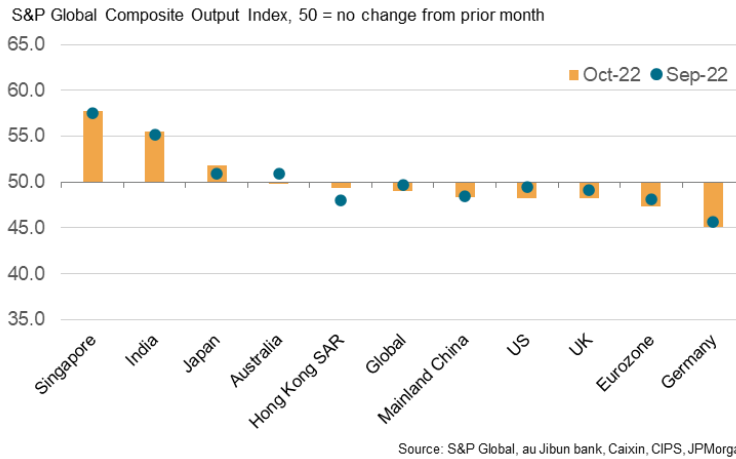
In short, our key takeaways from the October PMI are:

- 1) Price pressures have further eased, moving in the direction nudged by rising interest rates, although we may not be near the end of tightening with prices still elevated
- 2) The rate of contraction in global demand meanwhile picked up pace in October, affected by the rising interest rate environment, and outlined the risks of recession faced by major developed economies around the world
- 3) Future outlook for global private sector output deteriorated to the worst in over two years alluding to the potential for further downturn in the near term

JPMorgan Global Composite PMI

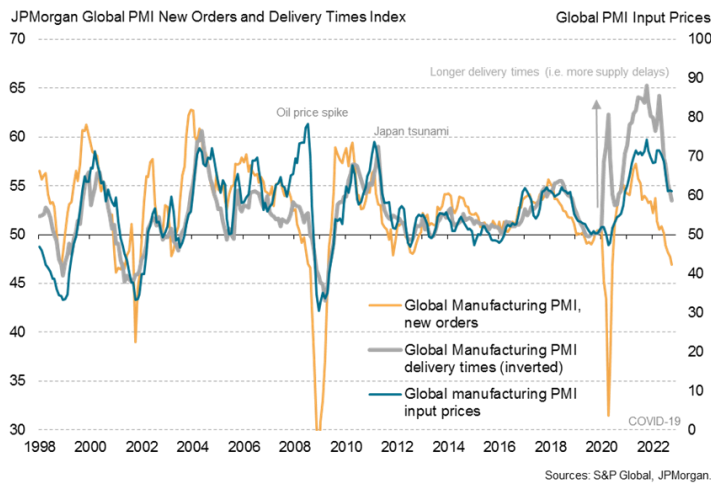


## Regional comparisons



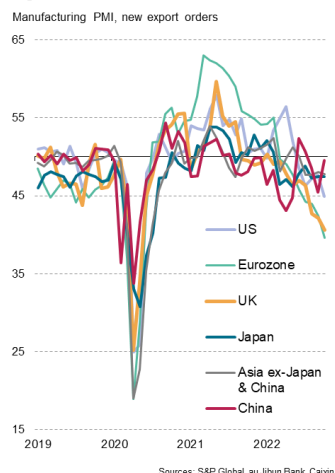
## The Good, the Bad and the Ugly | Key PMI developments

### The Good: Price pressures on the ease



- The JPMorgan Global Composite PMI showed both input price and output charge inflation easing in the month of October, sinking down to 19-month lows.
- Deep diving into the sectors, price inflation declined on both the input and output end across the manufacturing and service sectors, contributing to the overall receding of price pressures. As mentioned above, the fall in prices were attributed to both the cooling of demand at the start of the fourth quarter and improvements in logistics, whereby manufacturing suppliers’ delivery times lengthened at the slowest pace since August 2020.
- That said, price pressures remain elevated with inflation rates well above the long-run average to reflect the likelihood of further monetary policy tightening worldwide to tame inflation.

## The Bad: Demand falters, shrinking in major developed countries



- While the easing of demand is arguably expected given central bank tightening, the pace at which new orders declined had been the fastest since the global financial crisis, barring pandemic-related shutdown months. Such a quick downturn outlines the heightened risks of recession for the global economy, a trend warranting greater caution.
- Specifically, global trade has also shown greater signs of deterioration at the start of Q4. New export business was seen falling at a faster rate compared to overall new business while manufacturing new export orders declined sharply across various developed countries, particularly in Europe and US.

## The Ugly: Business optimism at 28-month low



- Business confidence across both the global manufacturing and service sectors weakened to the lowest point in over two years in October. The PMI panel comment tracker further reflected a jump in concerns over greater economic uncertainty and mentions of 'recession' as a reason for the moderation in optimism.
- Given the Future Expectations Index as an indication of private sector expectations on output performance over the next 12-months, the latest dip suggests that further deterioration in conditions may only follow in the coming months.

**Global PMI heatmap**

**Manufacturing**

		Nov'21	Dec'21	Jan'22	Feb'22	Mar'22	Apr'22	May'22	Jun'22	Jul'22	Aug'22	Sep'22	Oct'22
Global	Global												
Americas	Canada												
	US												
	Brazil												
	Colombia												
	Mexico												
Europe	Eurozone												
	Austria												
	Czech Republic												
	Denmark												
	France												
	Germany												
	Greece												
	Ireland												
	Italy												
	Netherlands												
	Poland												
	Spain												
UK													
Asia Pacific	Australia												
	China (Mainland)												
	India												
	Indonesia												
	Japan												
	Kazakhstan												
	Malaysia												
	Myanmar												
	Philippines												
	Russia												
	South Korea												
	Taiwan												
	Thailand												
Vietnam													
Middle East	Turkey												

Source: S&P Global in association with relevant sponsors.

**Services**

		Nov'21	Dec'21	Jan'22	Feb'22	Mar'22	Apr'22	May'22	Jun'22	Jul'22	Aug'22	Sep'22	Oct'22
Global	Global												
Americas	US												
	Brazil												
Europe	Eurozone												
	France												
	Germany												
	Ireland												
	Italy												
	Spain												
	UK												
Asia Pacific	Australia												
	China (Mainland)												
	India												
	Japan												
	Russia												

Source: S&P Global in association with relevant sponsors.

**Manufacturing indices**

- Output\*
- New orders\*
- New export orders
- Backlogs of work
- Employment\*
- Input prices
- Output prices
- Future expectations
- Quantity of purchases
- Suppliers' delivery times\*
- Stocks of purchases\*
- Stocks of finished goods

\*PMI components

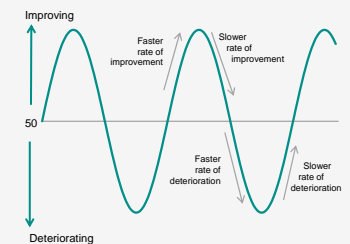
**Services indices**

- Business activity
- New business
- New export orders
- Outstanding business
- Employment
- Input costs
- Prices charged
- Future expectations

Read more about the headline PMI™ and its subindices [here](#).

**Key:**

Improving at a faster rate	
Improving at a slower rate	
At neutral 50.0 mark	
Deteriorating at a slower rate	
Deteriorating at a faster rate	



To receive underlying PMI data, please contact: [economics@ihsmarkit.com](mailto:economics@ihsmarkit.com)

**Composite / Whole Economy**

		Nov'21	Dec'21	Jan'22	Feb'22	Mar'22	Apr'22	May'22	Jun'22	Jul'22	Aug'22	Sep'22	Oct'22
Global	Global												
Americas	Brazil												
	US												
Europe	Eurozone												
	France												
	Germany												
	Ireland												
	Italy												
	Spain												
	UK												
Asia Pacific	Australia												
	China (Mainland)												
	Hong Kong SAR												
	India												
	Japan												
	Khazakistan												
	Russia												
Middle East	Singapore												
	Lebanon												
	Qatar												
	Saudi Arabia												
Africa	UAE												
	Ghana												
	Kenya												
	Mozambique												
	Nigeria												
	South Africa												
	Uganda												
Zambia													

Source: S&P Global in association with relevant sponsors

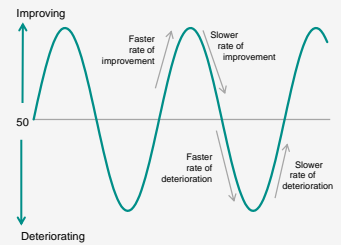
**Composite indices comprise:**

- Output/business activity
- New business
- New export orders
- Outstanding business
- Employment
- Input costs
- Output prices
- Future expectations

Read more about the headline PMI™ and its subindices [here](#).

**Key:**

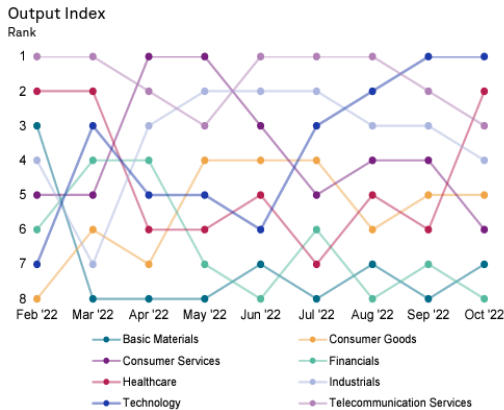
Improving at a faster rate	
Improving at a slower rate	
At neutral 50.0 mark	
Deteriorating at a slower rate	
Deteriorating at a faster rate	



To receive underlying PMI data, please contact: [economics@ihsmarkit.com](mailto:economics@ihsmarkit.com)

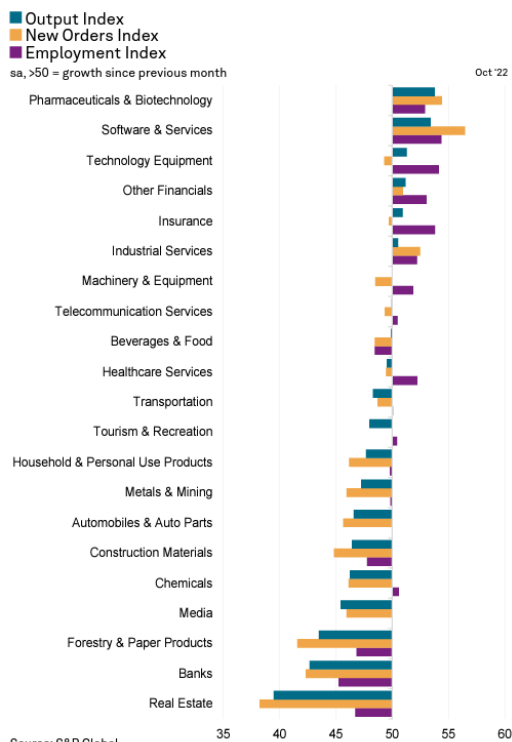
## Global Sector PMI

Latest S&P Global Sector PMI™ data signalled persistent downturn across the majority of sectors tracked in October. *Financials* sank again to the bottom position amongst the **eight industry groups** tracked while *Technology* retained the lead.



Source: S&P Global.

Meanwhile amongst the sectors, *Real Estate* continued to lead the downturn in activity and this was followed by *Banks*, both feeling the strain of tighter monetary policy conditions. The *Real Estate* sector notably also saw the quickest rise in input costs amongst the 21 monitored sectors.



Source: S&P Global.

For more global sector PMI details, please visit [here](#) or contact [economics@ihsmarkit.com](mailto:economics@ihsmarkit.com) to receive underlying PMI data.

Sector data is also available for US, Europe and Asia. Read more about using PMI data in active investment strategies [here](#).

## Recent PMI and economic analysis from S&P Global Market Intelligence

Global	<a href="#">Global manufacturing PMI slips further into contraction territory as new orders decline solidly</a>	3-Nov	Jingyi Pan
	<a href="#">Flash PMI data signalled heightened recession risks in the US and Europe</a>	25-Oct	Chris Williamson
	<a href="#">Demand Shortfall indices suggest manufacturing downturn could accelerate rapidly</a>	20-Oct	David Owen, Maryam Baluch
	<a href="#">Flash PMI data to highlight recession risks and varying inflation trends at start of fourth quarter</a>	18-Oct	Chris Williamson
	<a href="#">Strength in official manufacturing data not set to last</a>	17-Oct	Chris Williamson
	<a href="#">Monthly PMI Bulletin: October 2022</a>	17-Oct	Lewis Cooper
	<a href="#">Global economy contracts for second month running amid tightening financial conditions</a>	10-Oct	Chris Williamson
	<a href="#">Global economy contracts for second month running amid tightening financial conditions</a>	10-Oct	Chris Williamson
	<a href="#">Worldwide industrial price pressures rise as higher energy costs and strong dollar offset impact of cooling supply chains</a>	4-Oct	Chris Williamson
	<a href="#">Global manufacturing PMI falls into contraction territory for first time since 2020 lockdowns</a>	4-Oct	Chris Williamson
EMEA	<a href="#">Germany leads steepening eurozone downturn in October</a>	24-Oct	Chris Williamson
	<a href="#">Flash UK PMI data signal increasing economic stress as downturn intensifies</a>	23-Sep	Chris Williamson
	<a href="#">Upcoming PMI data in focus as UK recession risks intensify amid market turmoil</a>	14-Oct	Chris Williamson
US	<a href="#">Flash US PMI falls sharply in to contraction territory in October as optimism and demand slumps</a>	26-Oct	Chris Williamson
APAC	<a href="#">Flash PMIs show renewed contraction of the Australian economy in October while Japan's service sector powers growth</a>	24-Oct	Jingyi Pan
	<a href="#">Australian economy under pressure amid strong inflation, but signs of price peak appear</a>	17-Oct	Laura Denman

For PMI use-case illustrations, visit our [use-case library](#).

## Release calendar

UTC		Local		Product
08 Nov 15:00	08 Nov 10:00	UTC-5	EST	US Investment Manager Index
22 Nov 22:00	23 Nov 09:00	UTC+11	AEDT	Flash Australia PMI*
23 Nov 08:15	23 Nov 09:15	UTC+1	CET	Flash France PMI*
23 Nov 08:30	23 Nov 09:30	UTC+1	CET	Flash Germany PMI*
23 Nov 09:00	23 Nov 10:00	UTC+1	CET	Flash Eurozone PMI*
23 Nov 09:30	23 Nov 09:30	UTC	GMT	Flash UK PMI*
23 Nov 14:45	23 Nov 09:45	UTC-5	EST	Flash US PMI*
24 Nov 00:30	24 Nov 09:30	UTC+9	JST	Flash Japan PMI*
28 Nov 09:00	28 Nov 10:00	UTC+1	CET	Austria Manufacturing PMI
30 Nov 22:00	01 Dec 09:00	UTC+11	AEDT	Australia Manufacturing PMI
01 Dec 00:30	01 Dec 09:30	UTC+9	JST	Japan Manufacturing PMI
01 Dec 00:30	01 Dec 08:30	UTC+8	CST	Taiwan Manufacturing PMI
01 Dec 00:30	01 Dec 07:00	UTC+6.5	MMT	Myanmar Manufacturing PMI
01 Dec 00:30	01 Dec 07:30	UTC+7	ICT	Thailand Manufacturing PMI
01 Dec 00:30	01 Dec 08:30	UTC+8	MYT	Malaysia Manufacturing PMI
01 Dec 00:30	01 Dec 07:30	UTC+7	WIB	Indonesia Manufacturing PMI
01 Dec 00:30	01 Dec 07:30	UTC+7	ICT	Vietnam Manufacturing PMI
01 Dec 00:30	01 Dec 09:30	UTC+9	KST	South Korea Manufacturing PMI
01 Dec 00:30	01 Dec 08:30	UTC+8	PHT	Philippines Manufacturing PMI
01 Dec 00:30	01 Dec 07:30	UTC+7	ICT	ASEAN Manufacturing PMI
01 Dec 01:01	01 Dec 01:01	UTC	GMT	Ireland Manufacturing PMI
01 Dec 01:45	01 Dec 09:45	UTC+8	CST	China General Manufacturing PMI
01 Dec 05:00	01 Dec 10:30	UTC+5.5	IST	India Manufacturing PMI
01 Dec 06:00	01 Dec 12:00	UTC+6	ALMT	Kazakhstan Manufacturing PMI
01 Dec 06:00	01 Dec 09:00	UTC+3	MSK	Russia Manufacturing PMI
01 Dec 07:00	01 Dec 10:00	UTC+3	TRT	Turkey Manufacturing PMI
01 Dec 08:00	01 Dec 09:00	UTC+1	CET	Netherlands Manufacturing PMI
01 Dec 08:00	01 Dec 09:00	UTC+1	CET	Poland Manufacturing PMI
01 Dec 08:15	01 Dec 09:15	UTC+1	CET	Spain Manufacturing PMI
01 Dec 08:30	01 Dec 09:30	UTC+1	CET	Czech Republic Manufacturing PMI
01 Dec 08:45	01 Dec 09:45	UTC+1	WAT	Nigeria PMI
01 Dec 08:45	01 Dec 09:45	UTC+1	CET	Italy Manufacturing PMI
01 Dec 08:50	01 Dec 09:50	UTC+1	CET	France Manufacturing PMI
01 Dec 08:55	01 Dec 09:55	UTC+1	CET	Germany Manufacturing PMI
01 Dec 09:00	01 Dec 11:00	UTC+2	EET	Greece Manufacturing PMI
01 Dec 09:00	01 Dec 10:00	UTC+1	CET	Eurozone Manufacturing PMI
01 Dec 09:30	01 Dec 09:30	UTC	GMT	UK Manufacturing PMI
01 Dec 13:00	01 Dec 10:00	UTC-3	BRT	Brazil Manufacturing PMI
01 Dec 14:30	01 Dec 09:30	UTC-5	EST	Canada Manufacturing PMI
01 Dec 14:45	01 Dec 09:45	UTC-5	EST	US Manufacturing PMI
01 Dec 15:00	01 Dec 10:00	UTC-5	COT	Colombia Manufacturing PMI
01 Dec 15:30	01 Dec 09:30	UTC-6	CST	Mexico Manufacturing PMI
01 Dec 16:00	01 Dec 11:00	UTC-5	EST	Global Manufacturing PMI
04 Dec 22:00	05 Dec 09:00	UTC+11	AEDT	Australia Services PMI*
05 Dec 00:30	05 Dec 08:30	UTC+8	SST	Singapore PMI
05 Dec 00:30	05 Dec 08:30	UTC+8	HKT	Hong Kong SAR PMI
05 Dec 00:30	05 Dec 09:30	UTC+9	JST	Japan Services PMI*
05 Dec 01:01	05 Dec 01:01	UTC	GMT	Ireland Services PMI*
05 Dec 01:45	05 Dec 09:45	UTC+8	CST	China General Services PMI*



05 Dec 04:15	05 Dec 06:15	UTC+2	EET	Egypt PMI
05 Dec 04:15	05 Dec 07:15	UTC+3	AST	Saudi Arabia PMI
05 Dec 05:00	05 Dec 10:30	UTC+5.5	IST	India Services PMI*
05 Dec 06:00	05 Dec 12:00	UTC+6	ALMT	Kazakhstan Services PMI*
05 Dec 06:00	05 Dec 09:00	UTC+3	MSK	Russia Services PMI*
05 Dec 06:00	05 Dec 09:00	UTC+3	EAT	Uganda PMI
05 Dec 06:00	05 Dec 08:00	UTC+2	CAT	Mozambique PMI
05 Dec 07:15	05 Dec 09:15	UTC+2	SAST	South Africa PMI
05 Dec 07:30	05 Dec 10:30	UTC+3	EAT	Kenya PMI
05 Dec 08:15	05 Dec 09:15	UTC+1	CET	Spain Services PMI*
05 Dec 08:30	05 Dec 10:30	UTC+2	CAT	Zambia PMI
05 Dec 08:45	05 Dec 09:45	UTC+1	CET	Italy Services PMI*
05 Dec 08:50	05 Dec 09:50	UTC+1	CET	France Services PMI*
05 Dec 08:55	05 Dec 09:55	UTC+1	CET	Germany Services PMI*
05 Dec 09:00	05 Dec 11:00	UTC+2	EET	Lebanon PMI
05 Dec 09:00	05 Dec 12:00	UTC+3	AST	Qatar PMI
05 Dec 09:00	05 Dec 10:00	UTC+1	CET	Eurozone Services PMI*
05 Dec 09:30	05 Dec 09:30	UTC	GMT	UK Services PMI*
05 Dec 13:00	05 Dec 10:00	UTC-3	BRT	Brazil Services PMI*
05 Dec 14:45	05 Dec 09:45	UTC-5	EST	US Services PMI*
05 Dec 14:45	05 Dec 09:45	UTC-5	EST	US Sector PMI
05 Dec 16:00	05 Dec 11:00	UTC-5	EST	Global Services PMI*
06 Dec 00:30	06 Dec 08:30	UTC+8	HKT	Asia Sector PMI
06 Dec 08:30	06 Dec 09:30	UTC+1	CET	Italy Construction PMI
06 Dec 08:30	06 Dec 09:30	UTC+1	CET	France Construction PMI
06 Dec 08:30	06 Dec 09:30	UTC+1	CET	Germany Construction PMI
06 Dec 08:30	06 Dec 09:30	UTC+1	CET	Eurozone Construction PMI
06 Dec 09:00	06 Dec 09:00	UTC	GMT	Ghana PMI
06 Dec 09:30	06 Dec 09:30	UTC	GMT	UK Construction PMI
06 Dec 09:30	06 Dec 09:30	UTC	GMT	Europe Sector PMI
06 Dec 09:30	06 Dec 09:30	UTC	GMT	Global Sector PMI
07 Dec 04:15	07 Dec 08:15	UTC+4	GST	United Arab Emirates PMI
07 Dec 07:00	07 Dec 07:00	UTC	GMT	UK House Price Index
07 Dec 09:00	07 Dec 09:00	UTC	GMT	Global Aluminium Users PMI
07 Dec 09:00	07 Dec 09:00	UTC	GMT	Global Copper Users PMI
07 Dec 09:00	07 Dec 09:00	UTC	GMT	Global Steel Users PMI
07 Dec 09:30	07 Dec 09:30	UTC	GMT	Global Electronics PMI
08 Dec 01:01	08 Dec 01:01	UTC	GMT	UK & English Regions Report on Jobs
08 Dec 01:01	08 Dec 01:01	UTC	GMT	Scotland Report on Jobs
12 Dec 00:01	12 Dec 00:01	UTC	GMT	UK Regional PMI
12 Dec 01:01	12 Dec 01:01	UTC	GMT	Ireland Construction PMI
13 Dec 04:15	13 Dec 08:15	UTC+4	GST	Dubai PMI

## Notes

Press release of indices produced by S&P Global and relevant sponsors can be found at <https://www.pmi.spglobal.com/Public/Release/PressReleases>.

Dates are provisional and subject to change \*includes composite PMI.

Last updated: 17 October 2022.

The intellectual property rights to the data provided herein are owned by or licensed to S&P Global and/or its affiliates. Any unauthorised use, including but not limited to copying, distributing, transmitting or otherwise of any data appearing is not permitted without S&P Global's prior consent. S&P Global shall not have any liability, duty or obligation for or relating to the content or information ("data") contained herein, any errors, inaccuracies, omissions or delays in the data, or for any actions taken in reliance thereon. In no event shall S&P Global be liable for any special, incidental, or consequential damages, arising out of the use of the data.

Purchasing Managers' Index™ and PMI™ are either registered trade marks of Markit Economics Limited or licensed to Markit Economics Limited and/or its affiliates.

## Links to more resources

- [Sign up to receive updated commentary in your inbox here.](#)
- [Calendar of upcoming PMI releases](#)
- [Running commentary on the PMI survey findings](#)
- [PMI Frequently Asked Questions](#)
- [Background to the PMIs \(video\)](#)
- [Understanding the headline PMI and its various subindices](#)
- [PMI data use-case illustrations](#), from nowcasting to investment strategy
- [PMI podcasts](#)
- [How to subscribe](#) to PMI data

## CONTACT US

### Jingyi Pan

Economics Associate Director  
S&P Global Market Intelligence  
Singapore

T : +65 6439 6022

[jingyi.pan@spglobal.com](mailto:jingyi.pan@spglobal.com)

### The Americas

+1-877-863-1306

### EMEA

+44-20-7176-1234

### Asia-Pacific

+852-2533-3565

[ihsmarkit.com/products/pmi](https://ihsmarkit.com/products/pmi)