

ECONOMETRIC SEMICONDUCTOR FORECAST

ECONOMIC DRIVERS • GLOBAL TRENDS
• TECHNOLOGY • SEMICONDUCTOR DEMAND

The Econometric Semiconductor Forecast (ESF) provides a forward-looking view of global silicon wafer demand using econometric models that incorporate macroeconomic conditions, technology spending, industry indicators, economic uncertainty, and global shocks. The report helps organizations anticipate semiconductor market cycles and assess how changes in the broader economy may affect wafer demand.

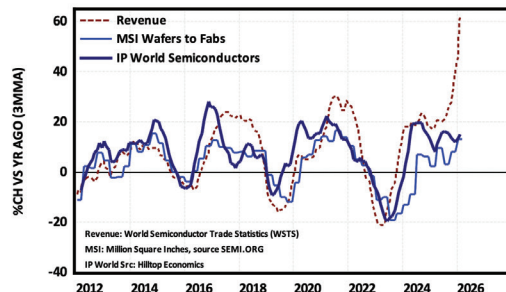
Each month, ESF provides two economic-based forecasts: one using Hilltop Economics' global outlook and an alternative scenario based on consensus expectations. A third time-series forecast is updated quarterly following the latest MSI release. Together, these forecasts provide a range of perspectives to support demand planning, investment decisions, market analysis, and strategic planning.

VIEW MORE
DETAILS



Aggregate Semiconductor Measures Strong *AI a strong driver through compute and store. Risk of a bubble exists*

Semiconductor Revenue, Output and Wafer MSI



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BENEFITS

- **Proactive Planning**
Anticipate short and long-term fluctuations in the semiconductor industry for enhanced demand planning.
- **Scenario Analysis**
Compare alternative economic outlooks and assess the impact of changing macroeconomic conditions.
- **Risk Mitigation**
Anticipate shifts from economic shocks and policy changes to minimize losses.
- **Strategic Planning**
Monitor economic drivers and market risks to support business and investment decisions.
- **Timely Updates**
Receive monthly forecast updates and quarterly time-series analysis based on the latest industry data.

METHODOLOGY

SEMI employs Hilltop Economics' demand-driven econometric model, which integrates macroeconomic conditions, economic uncertainty, and global shocks to forecast global MSI. The model captures over 98% of long-term industry variation, providing a robust foundation for forward-looking analysis.

The ESF forecast also serves as a foundation for other reports, including the Wafer Fab Materials Quarterly and Materials Market Data Subscription.



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ECONOMETRIC SEMICONDUCTOR FORECAST

REPORT HIGHLIGHTS

- **What's Included**

Monthly forecasts (Hilltop Economics & Consensus).

- Quarterly ARIMA time series forecast.
- Annual forecasts of key economic and semiconductor demand drivers.
- Long-term quarterly MSI outlook for enterprise clients.

- **Critical Sectors**

Coverage includes silicon area forecasts, economic drivers, and monthly indicators.

- **Monthly Trends**

Key semiconductor-related indicators influencing forecast, selected from 450+ global monthly data series tracked by Hilltop Economics.

- **Economic Forecast Drivers**

Growth metrics on global real GDP, consumption, investment, PCs and smartphones.

- **Extensive Insights**

U.S. consumer and business spending on technology goods and inventory-to-shipments ratios.

- **Holistic Analysis**

Assess how semiconductor demand responded during major economic disruptions, including the global financial crisis and COVID-19.

- **Forecast Evaluations**

Quarterly reviews of the prior quarter's forecast that assess the source of errors in the economic outlook, markets, assumptions, or models to give a comprehensive view of the forecast performance.

Enterprise-wide license customers receive two advisory calls during the subscription period. Single-license clients can direct brief questions to our team, but detailed presentations are for enterprise customers only. For licensing details and pricing, contact mktstats@semi.org.

DETAILS:

- **Publication Schedule:** Monthly
- **Format:** Adobe® PDF (.pdf), Excel spreadsheet of MSI forecasts for site-license clients.
- **Principal Analysts:** Duncan Meldrum, Chief Economist, Hilltop Economics, LLC.

APPLICABLE TO: Semiconductor manufacturing equipment and materials suppliers, IDMs, foundries, fabless, EDA, semiconductor IP, design & verification services, other suppliers of goods and services to the semiconductor design and manufacturing ecosystem. Market analysts, strategic and technical consulting firms, investors and investment banks. Executives, sales and marketing, business development, supply chain management, engineers, and strategic planning organizations.