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Industrial Communications Report - 2025

Part of the Future Factory Service Area Package

Insight, analysis and forecasts of industrial communications
that enables informed decision making



Industrial Communications: Our Expert Analyst



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Networking**



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As part of Omdia's Industrial IoT, Software, and Communications team, Katelyn focuses on industrial communications and industrial edge networking components. She covers trends in industrial networking components (e.g., IIoT gateways, routers, switches) and examines industrial communications standards and their implementation in manufacturing.

Industrial Communications: Research Coverage

Details

Frequency - Annual

- 2023 base year
- 5-year annual forecast (2024 - 2028)

Measures

- Node/Unit shipments
- Protocol market share

Regions

- North America
- Latin America & Caribbean
- EMEA
- Asia and Oceania

Communication Protocols and Emerging Technologies

Ethernet Variant

- PROFINET
- EtherNet/IP
- EtherCAT
- CC-Link IE
- Modbus TCP/IP
- Other
- POWERLINK
- Sercos III
- CC-Link IE TSN
- Hart-IP

Wireless Technologies

- WLAN
- WirelessHART
- Cellular
- ISA 100.11a
- WiMAX
- Bluetooth
- Bluetooth Low Energy
- Other

Other - Camera

Fieldbus Variant

- PROFIBUS
- CC-Link
- IO-Link
- DeviceNet
- Modbus
- CanOpen
- Hart
- AS-i
- ControlNet
- Interbus

Emerging Technologies

- OPC UA
- APL
- TSN
- 5G

Cloud Connectivity

- MQTT
- AMQP

Industrial Automation Devices and Industry Coverage

Motor, controls, and controlled equipment

- Servo drives
- MV motor drives
- Stepper drives
- LV motor drives
- Motion controllers
- Motors
- Pumps and compressors
- Generators and turbines
- Switchgear

Discrete control and visualization equipment

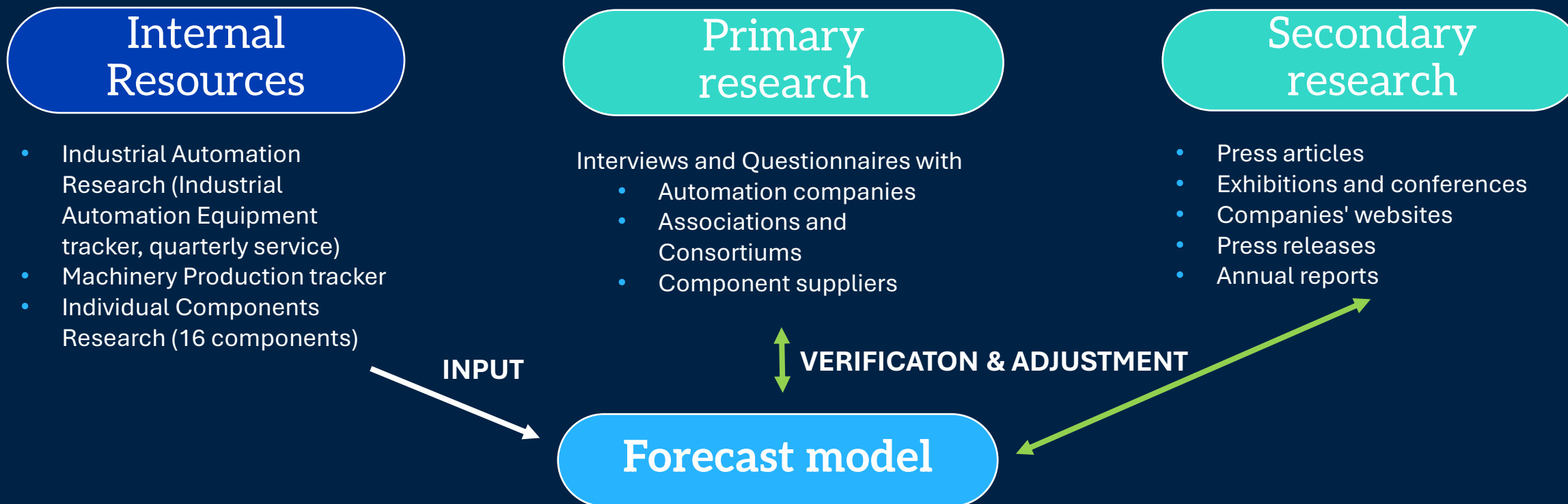
- Remote I/O
- IPCs
- Sensors
- PLCs
- Machine vision
- Operator terminals

Process control and instrumentation

Industry

- Materials handling equipment
- Automotive
- Robotics
- Semiconductor machinery
- Food, beverage and tobacco machinery
- Other discrete
- Oil & gas
- Power
- Other process
- Other sectors

Industrial Communications: Methodology



- Economic data published by international organizations, including the United Nations and OECD.
- Gross domestic product (GDP), industrial production, manufacturing, and machinery production growth rates. The growth rates were weighted as appropriate.
- For this report, Omdia considered that production and manufacturing growth rates carried more weight than GDP growth rates.

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