# Germany's Economy 2025: In-Depth Analysis of Growth, Inflation, and Sectoral Transformation

## Introduction

In the second quarter of 2025, the German economy has entered a comprehensive strategic restructuring process, influenced by both global and domestic dynamics. During this period, significant developments have been observed in economic growth, inflation rates, and sectoral performance. As Europe's locomotive economy, Germany stands out with intensive investments and digitalization-focused advancements, particularly in strategic areas such as defense, green energy, automotive, plastics, software, healthcare, fintech, and food technologies. Compared to previous years, this period marks a shift towards intensified public and private investment and accelerated integration.

## **Macroeconomic Indicators and Economic Outlook**

In the second quarter of 2025, the German economy grew by approximately 0.7% compared to the same period in the previous year, with seasonally adjusted quarterly growth reaching 0.1%. The main factors limiting this growth were weak private consumption expenditure and stagnation in the construction sector. However, public investments in the automotive and defense industries provided a boost to overall growth.

Inflation, by the end of Q2 2025, had fallen to 2.4% on an annual basis, a notable decrease from 5.8% in the same period of 2024. The moderate trend in food and energy prices significantly eased overall price pressures.

Germany's industrial production index showed limited signs of recovery in the second quarter of 2025, with a 0.9% increase compared to Q2 2024. This growth was particularly evident in the production of machinery manufacturing, defense systems, and electric vehicle components.

Ifo Business Climate Index: Announced at 88.4 in June, rising from 87.5 in May and exceeding expectations of 88.2. This marks the sixth consecutive month of improvement.

Business Expectations Index: Climbed to 90.7, surpassing May's 89.0, indicating an enriched outlook, especially within the services sector.

PMI Indicators (HCOB): The composite PMI, which includes both manufacturing and services, increased to 50.4 in June (from 48.5 in May). The manufacturing sector rose to 49.0, while services strengthened to 49.4. These figures suggest that the economic contraction is coming to an end.

Sector	2024 (Annual Average	2025 Q2 (Annualized Growth
	Growth %)	Estimate %)
Defense Industry	5.2%	12.5%
Software and Digital	7.8%	9.1%
Technology		
Plastics Industry	3.1%	4.8%
Automotive	4.6%	6.3%
Manufacturing	1.9%	2.4%

Germany: Sectoral Growth Comparison

# Plastics and Materials Technologies Sector: Growth Driven by Lightweighting and Sustainability

Germany stands as Europe's largest plastics producer, with the automotive sector being one of its biggest end-users. As of 2025, the automotive industry is a primary driver of increased plastic consumption in Germany.

In electric vehicles (EVs), range depends not only on battery capacity but also on the vehicle's total weight. Consequently, automotive manufacturers are focusing on lightweight material strategies to extend range, with the use of plastics at the core of these initiatives.

The plastics sector, which grew by 3.1% in 2024, saw its growth accelerate to 4.8% in Q2 2025. Revenue growth recorded 5.5% during the same period, with the sector demonstrating a stable outlook and an 8.4% profit margin.

As of 2025, the average passenger car produced in Europe utilizes approximately 350–400 kg of plastic. This accounts for about 10–15% of the total vehicle weight; however, due to their significantly lower density compared to metal counterparts, plastics constitute over 50% of the components by volume.

Thermoplastic composites, replacing traditional metal materials, are gaining significant importance, particularly in sectors where lightweighting is critical, such as automotive and aerospace. In Germany, as of 2025, the use of these advanced materials in vehicle structures, interior trims, and battery housings is rapidly increasing.

#### Sustainable Practices and Regulatory Drivers

The European Union's Green Deal, launched in 2019, has mandated the use of recycled materials to achieve carbon neutrality in industry. Germany, as one of the quickest countries to adapt to this process, is rapidly increasing the use of regranulate plastics, especially in the automotive, packaging, and consumer goods sectors.

EU Recycling Mandates: As of 2025, automotive suppliers are required to use a minimum of 25% recycled plastic in vehicle component materials.

German Automotive OEMs (VW, BMW, Daimler): These companies have set their own "PCR (post-consumer recycled) content" targets within their supply chains. For instance, VW aims to use an average of 300 kg of recycled material per vehicle by 2030.

Industry Associations: Organizations like PlasticsEurope and the Circular Plastics Alliance are actively promoting regranulate use through various projects.

#### Production Methods and Innovation

As of 2025, injection molding remains the leading method in Germany's and the broader European plastics processing industry in terms of production volume and variety. This method is estimated to account for approximately 45% of the entire plastics processing market. High-quality molds are used for complex automotive parts such as bumpers, dashboards, and air intake systems.

Germany is rapidly implementing strategies that prioritize sustainability and environmental responsibility in the plastics sector. This includes:

Significant public and private investment and incentives flowing into companies engaged in sustainable plastic production.

Circular Plastics, a platform supported by the European Commission, operates with the goal of closing the plastic loop (circular economy). Under this initiative, Germany provides financial and technical support to SMEs and scale-ups that develop recycling technologies and produce regranulate.

In 2025, the plastics sector has received support from specialized funds focused on the circular economy and sustainability. Under Germany's national program, the "Circular Plastics Initiative," approximately €400 million in funding has been allocated to companies developing bio-based polymers, recycled plastics (regranulate), and low-carbon production technologies. This support covers areas such as technology modernization, process improvement, quality standard enhancement, and supply chain integration. Additionally, increasing the recycled content of plastics and establishing pilot facilities for industrial-scale applications are being encouraged.

## Automotive Sector and Accelerating Electric Vehicle (EV) Transformation

Germany is one of the European countries most comprehensively and aggressively managing the transition to electric vehicles (EVs) in its automotive industry. Major OEMs like Volkswagen, BMW, and Mercedes-Benz are planning to largely cease production of internal combustion engine (ICE) vehicles by 2030.

The automotive sector, which grew by 4.6% in 2024, continued its upward trend in the second quarter of 2025 with an annualized growth of 6.3%. During this period, the sector's revenue increased by 8.1%, and the average profit margin reached 9.2%.

This transformation brings about radical changes in production technologies and material selection, particularly increasing the demand for plastic materials both in terms of volume and technological requirements.

Electric vehicles have a different architecture than internal combustion engines. This architectural difference increases the strategic importance of plastics.

In electric vehicles, the "metal-to-plastic transition" is preferred not only for lightweighting but also to support new functionalities.

High-performance composites (e.g., carbon fiber-reinforced thermoplastics) are increasingly aimed at replacing structural metal parts.

Plastic-metal hybrid technologies will become more widespread for integrated solutions in areas requiring strength and rigidity.

The use of recycled engineering plastics in EV production will be encouraged in line with the EU Green Deal objectives.

## **Chemicals Sector: A Key Economic Driver**

The chemicals sector is navigating a challenging period in 2025, influenced by both global and domestic dynamics. As Germany's third-largest industry, after automotive and machinery manufacturing, it makes significant contributions to the Gross Domestic Product (GDP). In the first quarter of 2025, the German chemical and pharmaceutical industry showed a remarkable recovery after a prolonged period of stagnation. Sector revenue increased by 4.4% from the previous quarter, reaching  $\xi$ 54.8 billion. Production figures also registered positive momentum with a 6.7% increase, while the chemicals sector's production alone rose by 4.7%.

A significant portion of the 85 projects expected to be completed across Europe in the chemicals sector in 2025 are located in Germany. Most of these projects are focused on biobased and circular economy initiatives, as well as energy-related investments. Projects for the production of substances like hydrogen, sustainable aviation fuel (SAF), and carbon dioxide are particularly prominent. Leading companies in the sector, such as BASF and Evonik, are undertaking restructuring and plant closures due to high energy costs and economic stagnation. However, this situation also offers these companies an opportunity to become leaders in sustainability.

## Software Sector: The Cornerstone of Digital Transformation

Germany is rapidly implementing digital transformation across its heavy industries, such as manufacturing and automotive. Software lies at the heart of this transformation.

Smart manufacturing systems are being shaped by software that monitors and optimizes production lines in real-time. The integration of Internet of Things (IoT) devices and platforms is increasing, leading to more widespread machine-to-machine communication and autonomous processes. Software developed in this area boosts production efficiency while reducing costs.

#### Growth Drivers and Strategic Advantages

The acceleration of digitalization continuously increases demand for software. Innovative software solutions in areas like Industry 4.0, electric vehicles, and sustainable technologies enable access to large markets.

Software development requires less physical infrastructure and production costs compared to other sectors. This fosters faster scaling and flexible business models. Because software products are digital, solutions developed in Germany can easily access global markets, accelerating return on investment and increasing growth opportunities.

Germany offers extensive R&D incentives, funds, and infrastructure support for innovative ventures in the software sector. These supports reduce risk, creating an attractive environment for investors. Software solutions are applicable across almost all sectors, including automotive, manufacturing, healthcare, finance, and defense. This allows investors to diversify their portfolios and seize opportunities in various industries.

Economic Performance and Investment

In the 2025 budget, the volume of investments in digital infrastructure reached a record level, increasing by approximately 40% compared to previous years.

The software sector maintained its momentum, growing from a strong 7.8% in 2024 to 9.1% in the second quarter of 2025. During the same period, annual revenue growth was recorded at 11.6%, and the sector achieved its highest average profit margin at 19.3%. This performance is a direct result of investments in cloud services, artificial intelligence solutions, cybersecurity systems, and public digitalization projects. Additionally, increasing incentives for startups are contributing to the emergence of new ventures and widespread profitability within the sector.

Under Germany's "Digitalstrategie 2025", public and EU-funded digitalization supports have increased. Notably, digital transformation grants for SMEs, R&D incentives, and investments in AI startups have risen. In 2025, the incentive budget allocated solely for federal software projects reached €3.5 billion.

#### **Cybersecurity: Protecting Data**

In today's world, where digitalization is accelerating and cyber threats are becoming increasingly complex, the cybersecurity sector holds strategic importance for the German economy.

The cybersecurity market in Germany is experiencing steady growth driven by accelerating digitalization, increasing cyberattacks, and a proliferation of regulatory requirements. The market is expected to grow significantly in 2025 and beyond. For example, the German

cybersecurity market reached an estimated USD 7.5 billion in 2024 and is projected to reach USD 13.6 billion by 2029, with a compound annual growth rate (CAGR) of 12.6% during the 2024-2029 period. This growth is supported by increased cybersecurity investments in both the public and private sectors, leading to an overall positive economic outlook for the industry.

The widespread adoption of technologies like Industry 4.0, autonomous driving, and artificial intelligence further boosts the demand for cybersecurity solutions. Germany's R&D expenditure and innovation capacity in this field also contribute to the sector's growth.

The digital transformation of the industrial sector is creating new market opportunities in areas such as industrial control systems (ICS) and operational technology (OT) security. The use of artificial intelligence (AI) and machine learning (ML) in cybersecurity solutions is enhancing threat detection and response capabilities. R&D in these areas is a significant growth factor for the sector. As companies transition to cloud-based services, the demand for cloud security solutions is also increasing. The German government views cybersecurity as a national priority and supports strategic investments. Institutions like the National Cyber Security Agency (BSI) play a vital role in strengthening national cybersecurity.

Germany has developed national cybersecurity strategies focused on protecting critical infrastructure, combating cybercrime, and enhancing cyber defense capabilities. As part of these strategies, the cybersecurity capacities of public institutions are being strengthened. Collaboration between the government and the private sector has led to education and certification programs aimed at closing the skilled labor gap in the cybersecurity field.

#### Regulatory Developments and Data Protection

Recently, significant developments and new implementations concerning GDPR have emerged from the European Data Protection Board (EDPB) and the European Commission. The EDPB has developed a new work program for 2024-2025, which aims to enhance cooperation and information exchange among data protection authorities and provide further guidance on key topics and concepts of EU data protection law.

The EU AI Act, which came into force in August 2024, aims to regulate AI systems based on their risks to individuals' fundamental rights, health, and safety. The EU Data Act, set to come into effect from September 12, 2025, introduces new rules regarding data access, sharing, and portability, particularly for connected devices and the Internet of Things (IoT).

The European Commission is considering simplifying GDPR, especially to reduce the burden on SMEs and small and medium-sized enterprises with fewer than 500 employees. This simplification aims to provide flexibility in areas such as record-keeping obligations while preserving the core principles of GDPR. These changes are expected to be reviewed as part of the "Digital Package" in the fourth quarter of 2025.

## Defense Industry: A Hub of High Technology and Strategic Investment

Germany's defense industry sits at the heart of high technology and innovation. Investments in this sector offer significant advantages, both in terms of long-term financial returns and

strategic technological advancements. Areas like materials, software, autonomous systems, and cybersecurity present the most attractive investment opportunities within the defense industry.

The defense industry, which grew by 5.2% in 2024, showed a remarkable leap in the second quarter of 2025, recording an annualized growth of 12.5%. During the same period, the sector's annual revenue growth reached 14.2%, with an average profit margin of 12.1%. This strong performance stems from Germany's substantial increase in its defense budget, the activation of the "Sondervermögen" special fund, and a prioritization of domestic military production. The high revenue growth highlights the expansion of public-backed large-scale projects and export potential within the sector.

#### Investment and Growth Drivers

Germany continued its large-scale defense investments in Q2 2025 under the €100 billion "Sondervermögen" (special defense fund) launched after 2022. The share of defense spending in the federal budget increased from approximately €55 billion in 2024 to over €60 billion in 2025.

As one of Europe's largest defense industry producers, Germany boasts a strong infrastructure and expertise in high-tech systems, electronic hardware, advanced material technologies, software, and autonomous systems. The increase in defense spending and EU-NATO collaborations are accelerating growth and modernization within the sector.

#### Economic Stability and Innovation Focus

Defense expenditures, being supported by government budgets, experience fewer demand fluctuations compared to other sectors. Defense industry products are high-tech and R&D-intensive, which translates to high-profit margins. Germany and the EU offer funding and joint research programs for strategically important defense projects. New ventures developing technology for the defense industry can benefit from state-backed funds and accelerator programs.

There's a growing demand for environmentally friendly and energy-efficient technologies within the defense sector, leading to increased investments in green defense technologies. The integration of artificial intelligence, big data, and autonomous systems to enhance defense capabilities is a key priority.

The cabinet has projected a defense budget of €95 billion for 2025 and is presenting a comprehensive funding package that will increase this amount to €162 billion by 2029. Defense expenditures are planned to reach 3.5% of GDP by 2029. While defense spending was 2% of GDP in 2024, it rapidly increased to 2.4–2.5% in 2025, exceeding 2% for the first time.



Defense Budget (€ billion)

## **Green Energy and Environmental Technologies: Investing in a Sustainable Future**

Germany is a leading country in Europe's climate neutrality goals, rapidly transitioning to renewable energy sources. Clean energy technologies like wind, solar, hydrogen, and biogas are becoming widespread. Energy storage systems and smart grids are becoming critical for energy supply security and efficiency. Innovative projects in environmental technologies, including waste management, water treatment, and carbon capture solutions, are also receiving support. The German government provides strong incentives for green energy investments, aligning with the EU Green Deal objectives.

#### Investment Appeal and Growth Areas

Globally, capital flow into sustainable and environmentally friendly projects is increasing, and Germany offers an ideal environment to attract this capital. Integrated solutions with other sectors like electric vehicles, smart cities, and building automation provide diversification opportunities for investors.

The use of hydrogen in industry, transportation, and energy production is planned to expand. Germany is both developing the technology and building the infrastructure for this. Through smart grids and data analytics, energy systems will become more efficient and flexible.

#### Capacity Growth and Financial Commitment

In 2024, installed renewable energy capacity increased by 12%, reaching almost 190 GW. In the first quarter of 2025, an average increase of 1.5 GW was observed each month. The combined share of solar, wind, hydro, and biomass in total energy production reached 59%, with the renewable energy share climbing to 65% in Q2 2025.

In 2024, €32 billion was invested in this sector. As of the first quarter of 2025, €100 billion of a private €500 billion investment package has been allocated to green energy.



Energy Capacity Increase

# Healthcare and Biotechnology: Momentum Through Innovation and Digitalization

Germany, as one of Europe's largest healthcare markets, boasts a robust infrastructure in health technologies and biotechnology. Sub-sectors such as digital health applications, medical devices, biopharmaceuticals, and gene therapies are rapidly expanding.

The budget allocated to R&D in healthcare and biotechnology in Germany is exceptionally high, which fosters the development of innovative products and solutions. The efficiency of clinical testing and trial processes enables new treatments to quickly reach the market. The sector is further encouraged by investments through funds, grants, and collaborative projects.

Notably, biotechnology R&D investments have seen a 15% increase compared to previous years, benefiting from green and digital transformation funds.

#### Metal Industry: Cornerstone of the Automotive Sector

Germany's advanced automotive, machinery, and engineering sectors consistently drive demand for high-quality metal products. The metal industry, as a critical supplier to these sectors, holds a significant place in the economy. In 2024, the German metal industry demonstrated a strong performance, recording an approximate 3% annual increase in production volume. The sector's total turnover reached &280 billion, while net profit margins remained in the 6-7% range, despite fluctuations in raw material prices.

Germany also benefits from various EU funds and programs, with sources like Horizon Europe and European Structural and Investment Funds providing support for technology and sustainability projects within the metal industry.

## Fintech and Digital Finance: An Evolving Market and Increasing Demands

Germany, as Europe's largest economy, has become a significant hub for Fintech. Concentrated in cities like Berlin, Frankfurt, and Munich, FinTech startups are offering innovative solutions across various sub-sectors, including:

Digital payment systems, Blockchain technology, Robo-advisory services, Lending Technologies, Insurance technologies (Insurtech)

The ongoing digitalization is transforming the traditional financial sector, driving up the demand for FinTech solutions. Germany is actively developing specific regulations and oversight mechanisms for FinTech firms, which, in turn, fosters innovation.

Digital financial products can easily transcend geographical boundaries, reaching a broad customer base. Moreover, funding and incentives are available for R&D and innovation projects in this field.

In the first two quarters of 2025, cloud-based and API-based solutions have been widely implemented across the entire banking system, particularly in major financial centers.

# Food Technologies and Agriculture Sector: A Transformation Driven by Innovation and Sustainability

Germany's food technologies and agriculture sector is undergoing a significant transformation, with developments focused on innovation and sustainability. Investments in digital agriculture and alternative proteins offer growth opportunities on both local and global scales. This sector continues to be attractive for investors, leveraging technologies aimed at increasing efficiency while reducing environmental impact.

Germany is one of Europe's largest agricultural and food producers. In recent years, sustainability, efficiency, and innovation have come to the forefront in food technologies. Digital agriculture (agritech), plant-based and lab-grown alternative proteins, as well as food safety and processing technologies, are rapidly developing.

#### Key Drivers and Investment Landscape

The demand for sustainable, healthy, and environmentally friendly foods is rapidly increasing. Germany boasts a strong infrastructure that encourages R&D investments in agricultural and food technologies. Alternative proteins and sustainable agricultural products are experiencing high international demand. Technology-based agricultural practices are helping to both reduce production costs and minimize environmental impact.

Precision farming applications gained momentum in 2025, boosted by EU-supported investment plans.

## Sector Performance in Q2 2025 and Future Outlook

Here's an overview of key German sectors' performance in the second quarter of 2025 and their future expectations

Sector	2025 Q2 Development Compared to	Assessment
	Previous Years	
Defense	Budget grew exponentially; debt	Rapid, record investment
	flexibility provided.	wave.
Green Energy	Capacity increased by over 12%;	Continued ascent, strong
	record production levels.	momentum.
Software	Record investments in digital	Industry integration
	infrastructure.	accelerated.
Automotive (EV)	Charging infrastructure expanded;	EV era accelerated.
	materials & software developed.	
Health &	Increase in digital health; R&D	Gaining momentum, but
Biotechnology	grew.	still in early stages.
Fintech	Digital payments & blockchain	Maturing, developing its
	applications becoming widespread.	domestic market.
Food Technologies &	Digital agriculture funds provided.	New but rapidly taking
Agriculture		shape.
Plastics & Materials	Investment in recycling and	Sustainable transformation
Technologies	bioplastics gained momentum.	continues.

## Who is Düsseldorf Consulting?

Düsseldorf Consulting doesn't just help you establish your company and create your business plan, or manage your work and residence permit processes. We go further by enabling you to understand the essential "codes" needed for your company to thrive, grow, and generate profitability within the German business environment.

## Why Düsseldorf Consulting?

Düsseldorf Consulting offers a comprehensive solution for businesses looking to establish and grow in Germany's dynamic economic environment. We help companies become "German - Global Companies" by leveraging Germany's central location in Europe, its skilled workforce, and advanced infrastructure. The advantages offered by the North Rhine-Westphalia (NRW) state and its capital, Düsseldorf, make Düsseldorf Consulting a strategic partner for businesses. NRW is Germany's largest state, home to diverse sectors like automotive, chemicals, energy, and services. Düsseldorf, with its international trade fair and convention centers, enables companies to access global markets.

Düsseldorf Consulting's services include: Establishment consulting Proactive operational consulting Lead generation consulting State, federal, and city grants and support consulting M&A consulting Finance and investment consulting Franchise setup and/or expansion consulting Innovative startup growth consulting

This wide range of services helps companies comply with German legal and financial regulations, achieve tax advantages, and benefit from investment incentives and financial support mechanisms.

The German economy recorded approximately 0.7% growth in the second quarter of 2025, with inflation declining to 2.4%. Strategic sectors such as automotive, defense, software, and green energy are showing significant growth. Düsseldorf Consulting provides expertise to companies in leveraging opportunities within these growing sectors. Furthermore, Germany's digitalization and sustainability goals, along with record investments in the software sector and regulations like the EU Green Deal (which mandates the use of recycled materials), enhance the importance of the environmental and technological compliance consulting offered by Düsseldorf Consulting. We also provide financial advantages to our clients, such as benefiting from the Republic of Turkey's support for companies expanding abroad and Germany's long-term, low-interest loans.

## **Düsseldorf Consulting Team**

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This content was created with the support of artificial intelligence during its preparation.