



# Germany Trade & Investment Profile

MARCH 2023

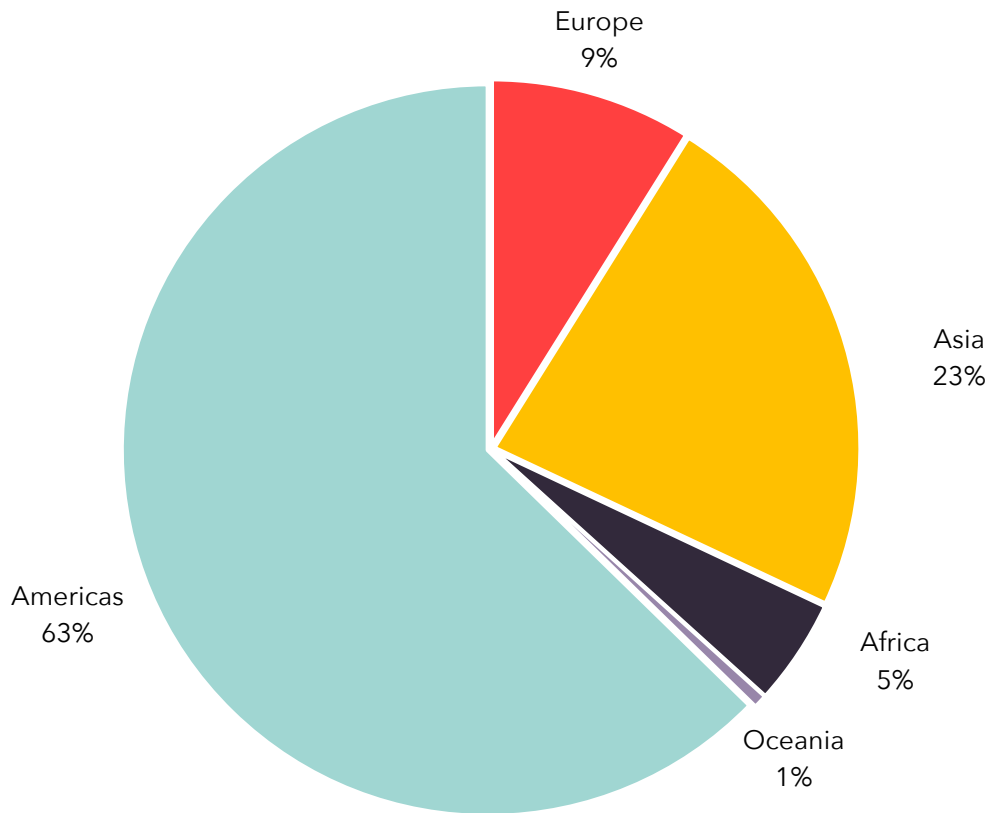
MARCH 2023

# German Population in Arizona

The table and graph below illustrate the number of people born in Germany that currently reside in Arizona and the United States.

Population	Arizona	United States
Total Foreign Born	915,934	45,269,644
German Born	12,386	540,203
% of Total Foreign Born	1.4%	1.2%

## Place of Birth of Foreign-Born Population in Greater Phoenix



# Top Exports

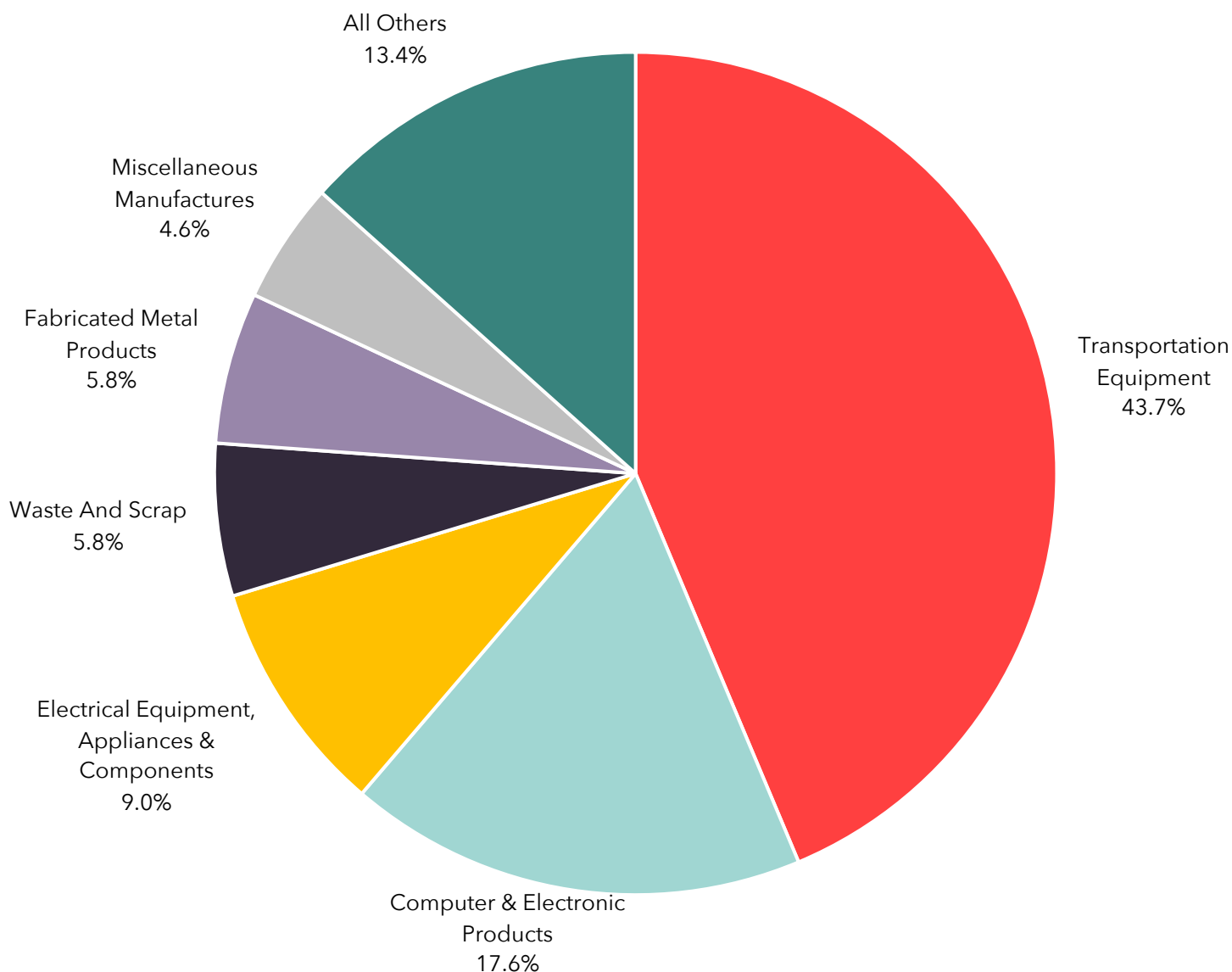
The table below shows the top exports by value in 2022 from Arizona to Germany.

AZ Exports	2017	2022	Percent Change
Transportation Equipment	\$341,161,108	\$298,646,349	-12.5%
Computer & Electronic Products	\$140,537,487	\$120,279,470	-14.4%
Electrical Equipment, Appliances & Components	\$50,810,453	\$61,812,191	21.7%
Waste And Scrap	\$3,976,464	\$39,996,155	905.8%
Fabricated Metal Products	\$30,878,765	\$39,785,676	28.8%
Miscellaneous Manufactures	\$24,606,848	\$31,748,723	29.0%
Machinery, Except Electrical	\$26,185,042	\$31,709,347	21.1%
Chemicals	\$19,171,128	\$21,140,774	10.3%
Other Special Classification Provisions	\$20,502,289	\$15,595,252	-23.9%
Plastics & Rubber Products	\$2,344,070	\$5,370,736	129.1%
All Others	\$32,037,214	\$17,708,383	-44.7%
<b>Total</b>	<b>\$692,210,868</b>	<b>\$683,793,056</b>	<b>-1.2%</b>

# Top Exports

The graph below shows the top exports by value in 2022 from Arizona to Germany.

Top Exports by Value, 2022



# Top Growing Exports

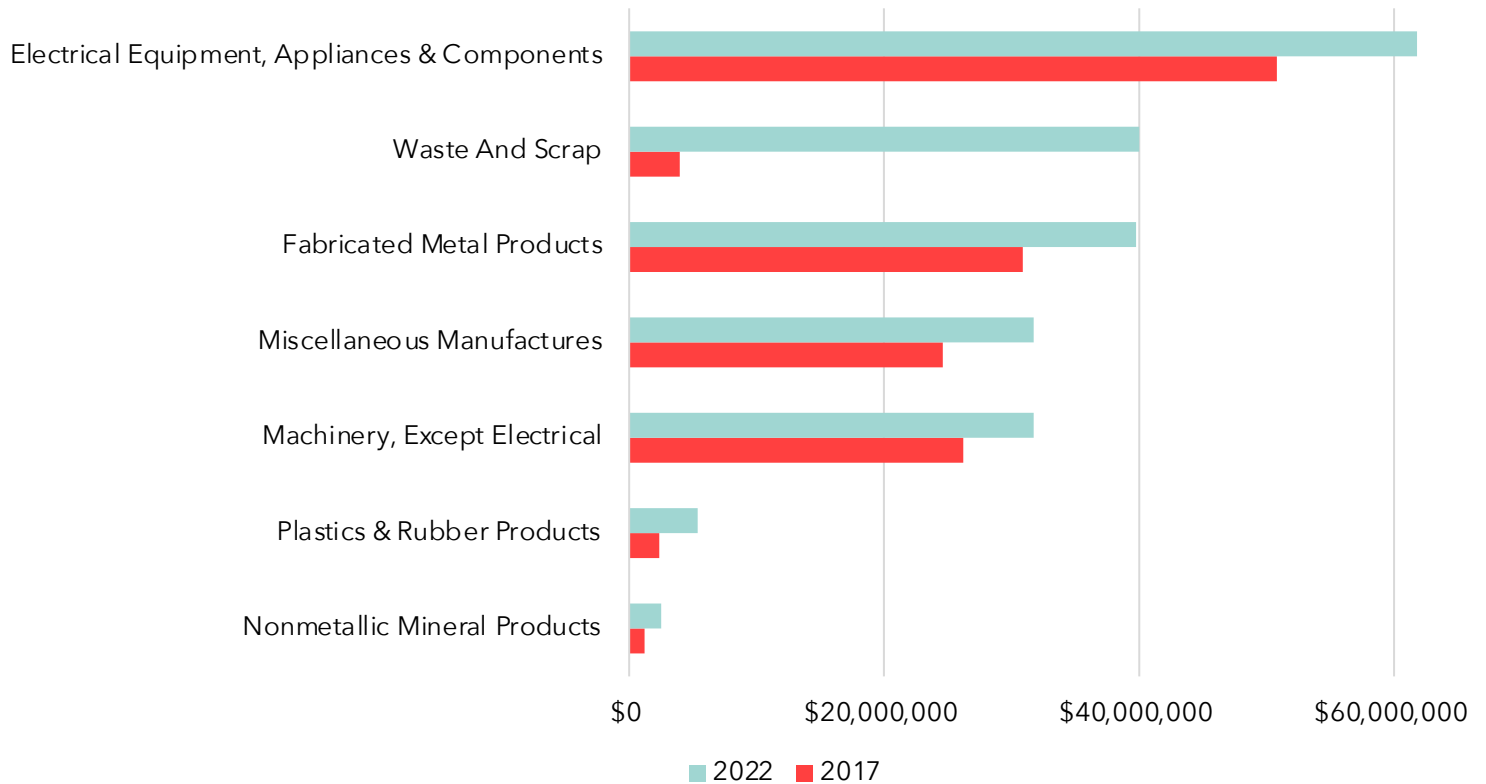
The table below shows the top growing exports by percent change from 2017 to 2022 from Arizona to Germany.

Exports	2017	2022	Percent Change
Apparel & Accessories	\$17,247	\$384,308	2,128%
Waste And Scrap	\$3,976,464	\$39,996,155	906%
Textiles & Fabrics	\$163,670	\$657,074	301%
Plastics & Rubber Products	\$2,344,070	\$5,370,736	129%
Paper	\$624,018	\$1,363,040	118%
Nonmetallic Mineral Products	\$1,210,138	\$2,512,195	108%
Miscellaneous Manufactures	\$24,606,848	\$31,748,723	29%
Fabricated Metal Products	\$30,878,765	\$39,785,676	29%
Electrical Equipment, Appliances & Components	\$50,810,453	\$61,812,191	22%
Machinery, Except Electrical	\$26,185,042	\$31,709,347	21%
<b>Total</b>	<b>\$140,816,715</b>	<b>\$215,339,445</b>	<b>53%</b>

# Top Growing Exports: Goods

The graph below shows the top growing exports by percent change in terms of total value from 2017 to 2022 from Arizona to Germany.

**Growing Exports from Arizona to Germany**

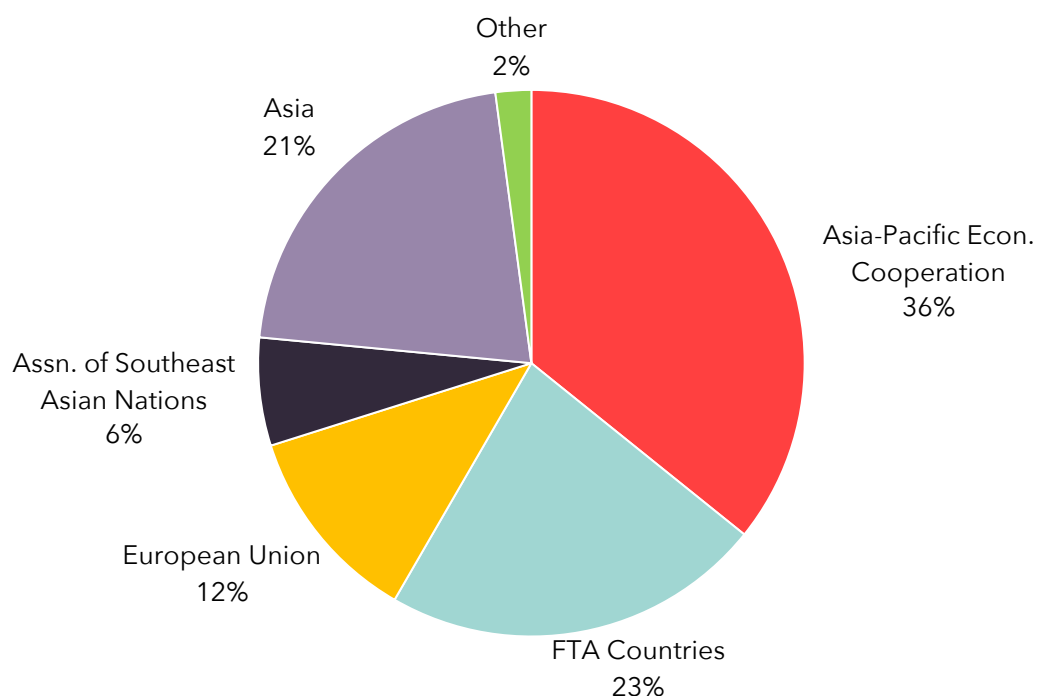


# Greater Phoenix Exports

The table and graph below illustrate Greater Phoenix export data.

Exports	2021
Computer and Electronic Products	\$5,238,965,269
Transportation Equipment	\$2,782,948,891
Machinery	\$883,984,189
Chemicals	\$756,925,185
All Other	\$4,502,261,866
<b>Total</b>	<b>\$14,165,085,400</b>

## Top Trade Destinations



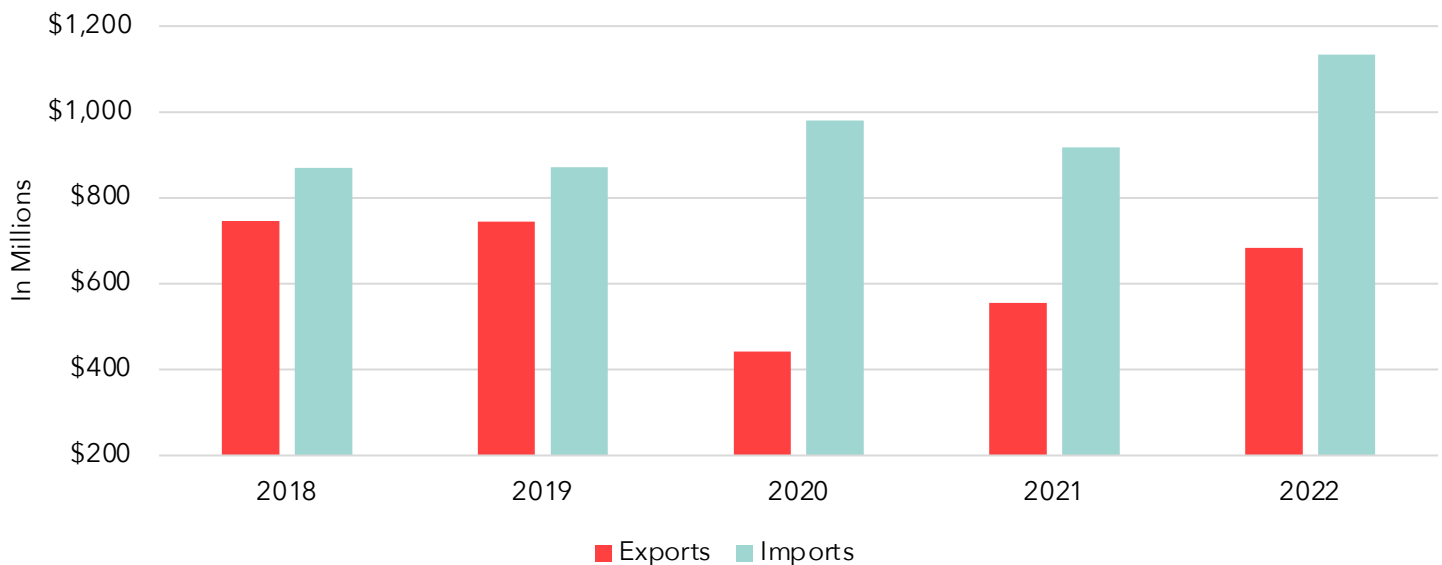
# Trade Rank

In 2022 Germany ranked as the 5<sup>th</sup> largest exporter and 6<sup>th</sup> largest importer to the US. In Arizona, Germany ranked as the 6<sup>th</sup> largest exporter and the 11<sup>th</sup> largest importer. The impacts of the COVID-19 pandemic are highlighted in grey.

## US Trade with Germany



## Arizona Trade with Germany





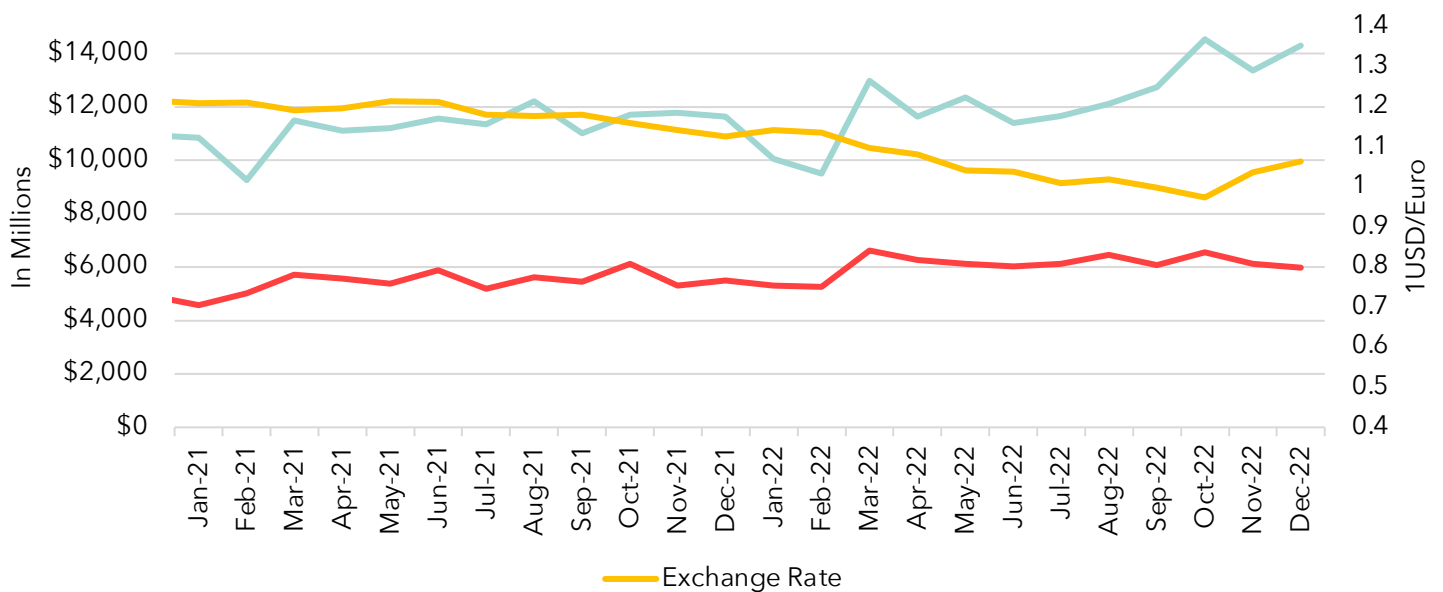
# Exchange Rate and Exports

The graphs below show the effect of fluctuations in the USD/Euro exchange rate on trade between Germany and the US. The USD strengthens as the number of Euros per 1 USD increases. Essentially, the US decreases exports to DE and favors imports as the USD strengthens, since exports from the US become more expensive.

## US Trade with Germany

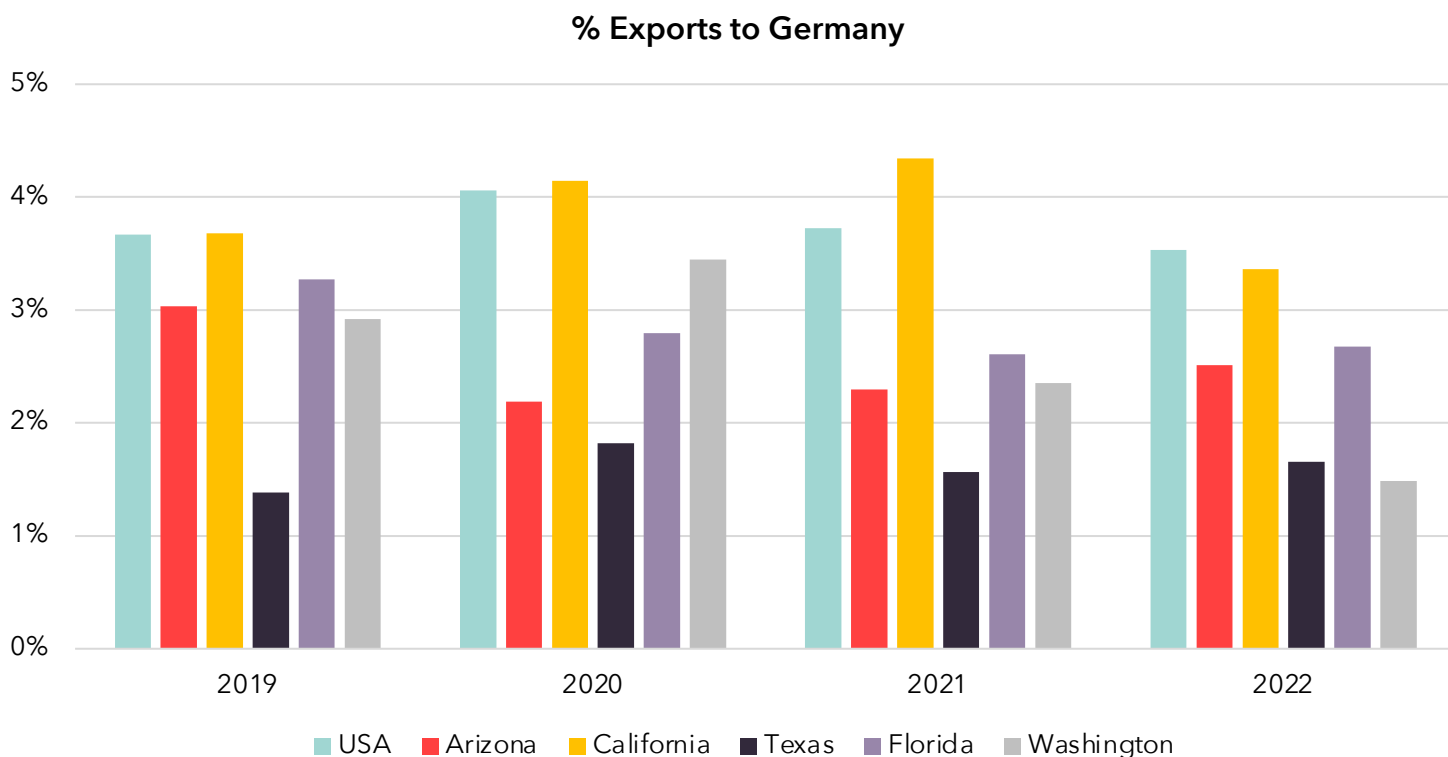


## Exports



# Export Comparisons

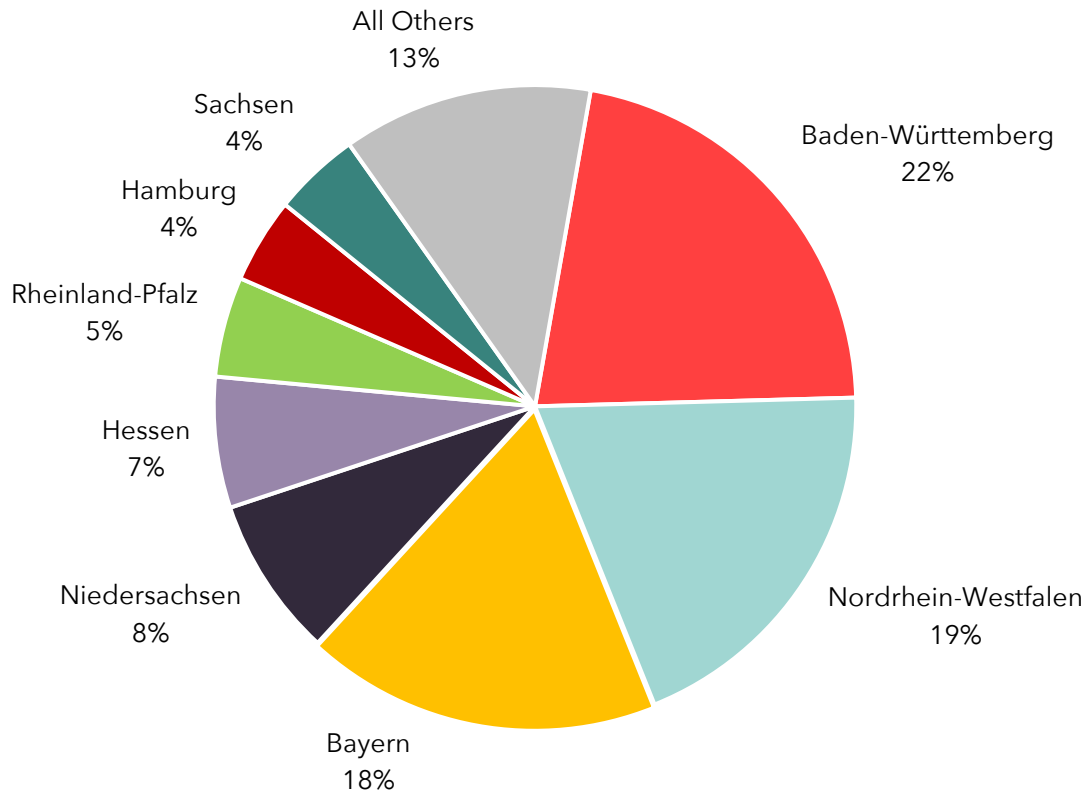
The graph below shows exports to Germany as a % of total exports for the US, Arizona, and selected states from 2019-2022.



# Trade: Bundesländer

The graphs below show trade data broken down by the German Federal States.

## 2022 Share of Total Exports



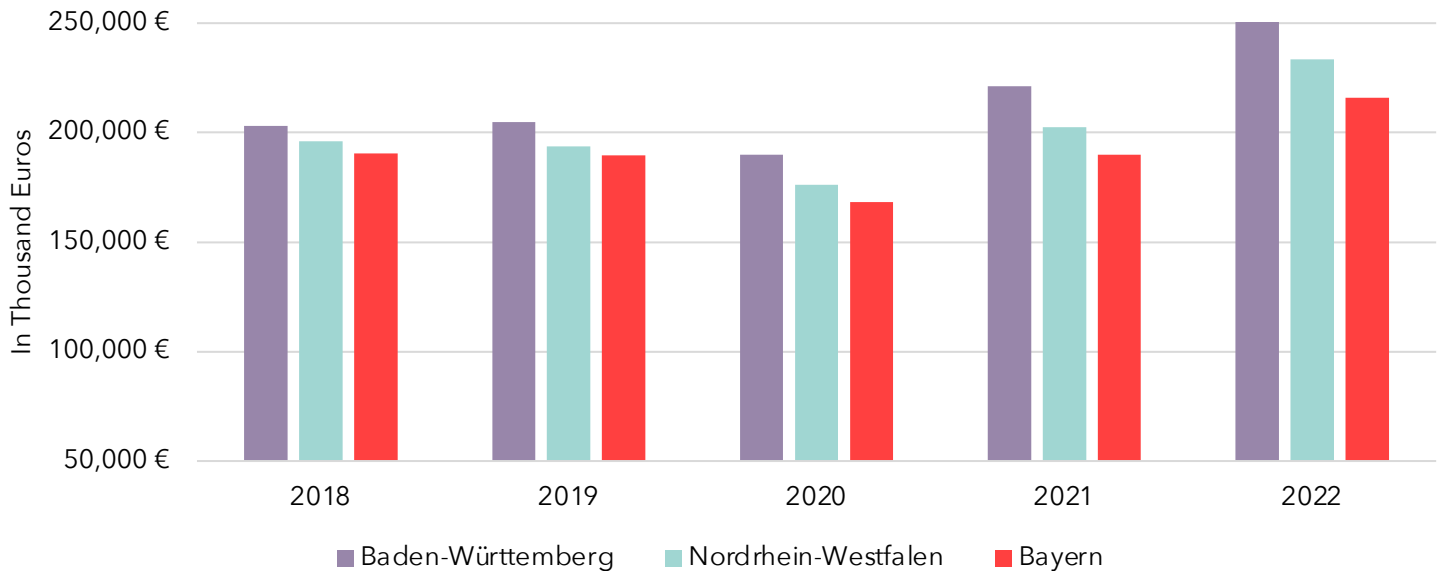
## 2022 Trade by Largest Exporters



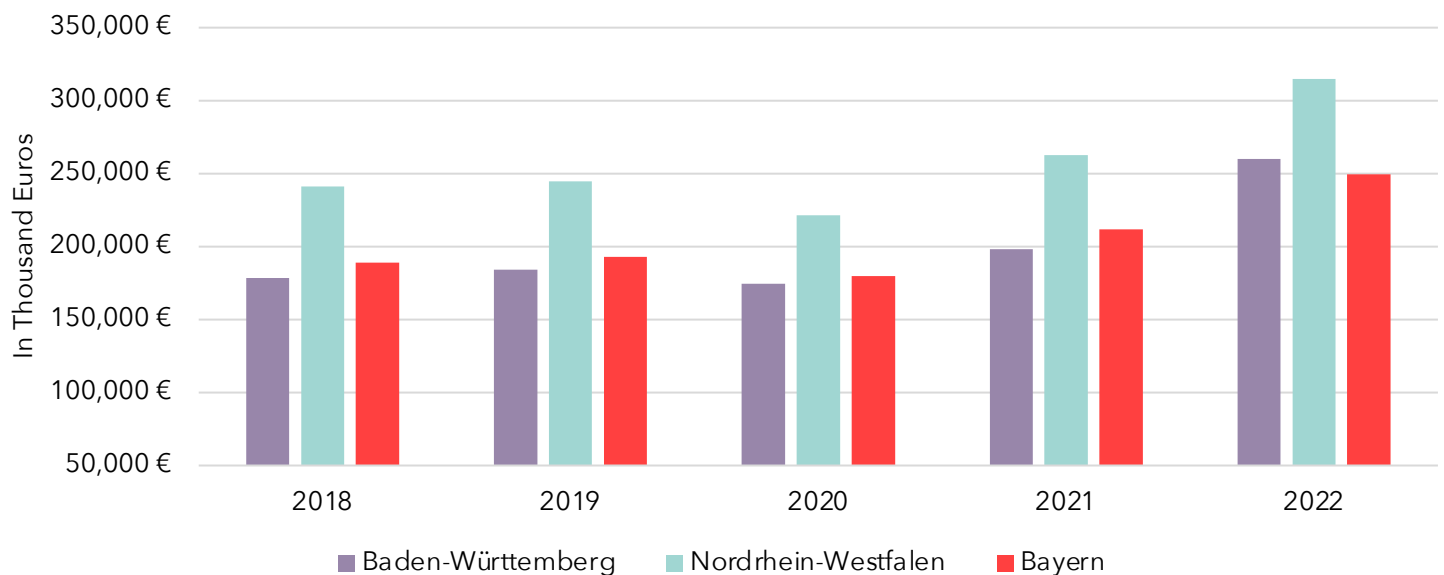
# Trade: Bundesländer (Cont.)

The graphs below show trade data broken down by the top German Federal States by exports.

## Exports



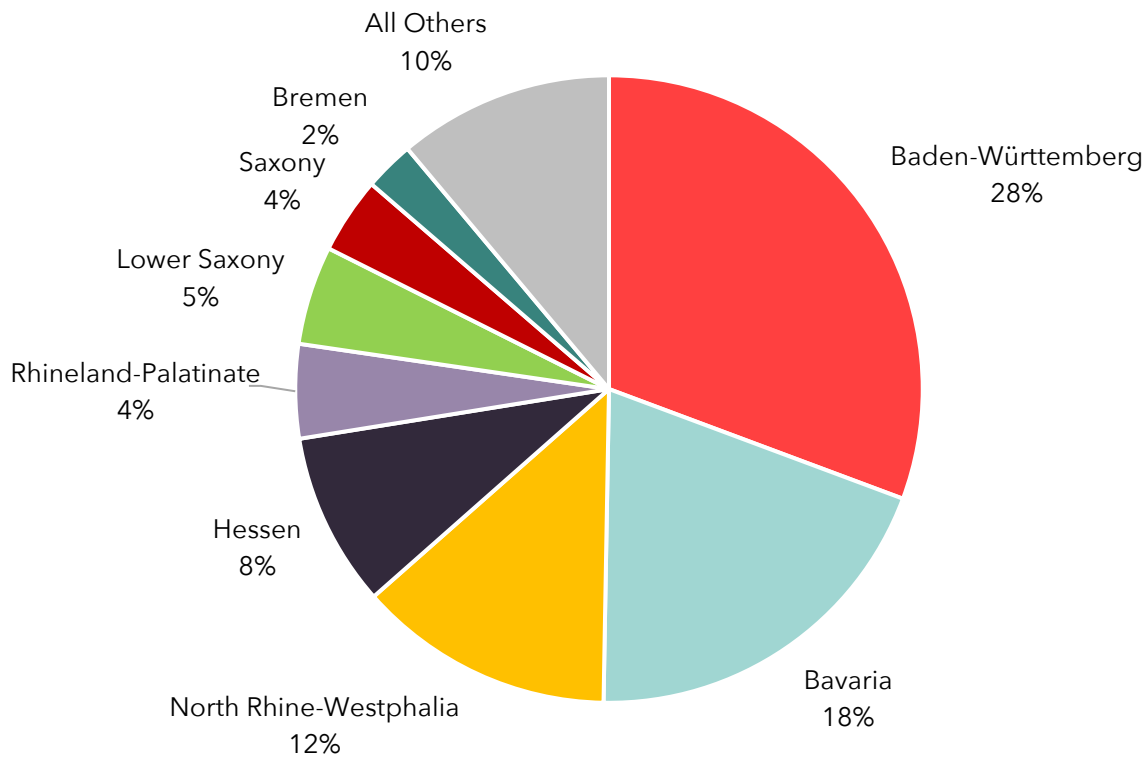
## Imports



# Trade: Bundesländer & USA

The graphs below show trade data between the US and the German Federal States.

## 2022 Share of Total Exports to the US



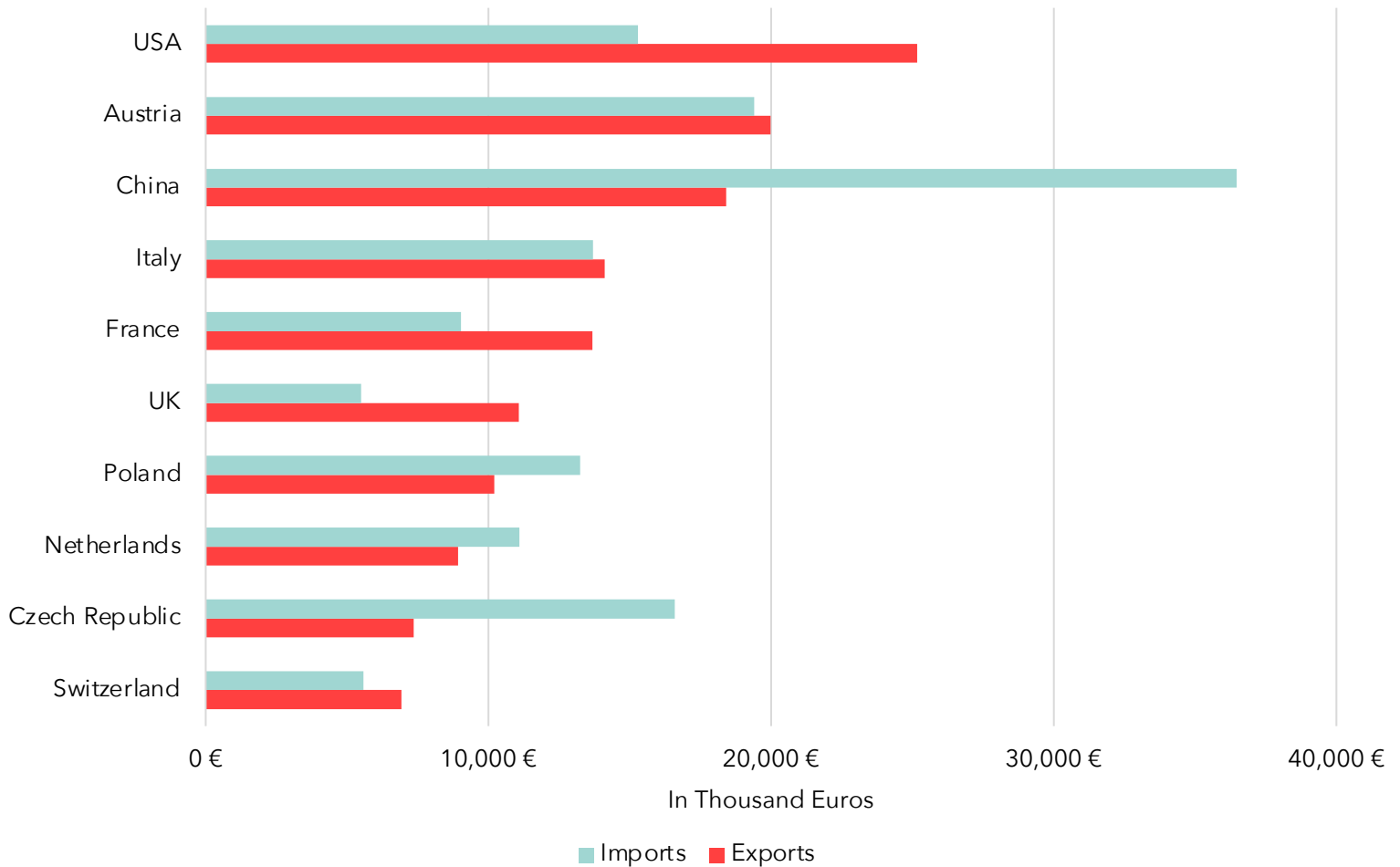
## 2022 Trade with US by Largest Exporter



# Trade: Bavaria

The graphs below show trade data for Bavaria. Bavaria's top export destination is the US.

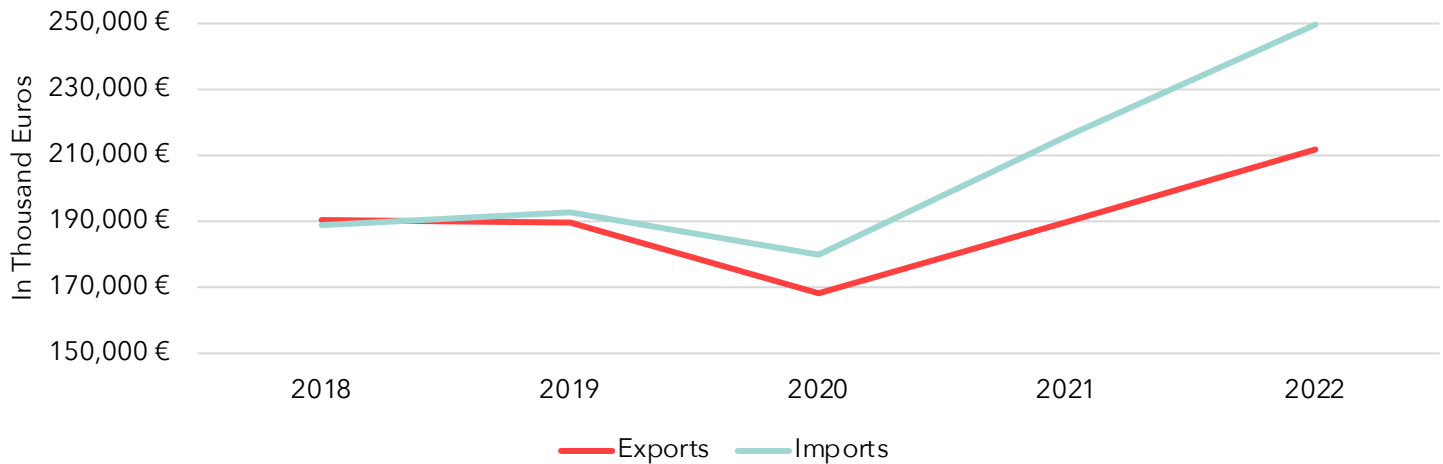
## Bavaria's Top Trade Partners 2022



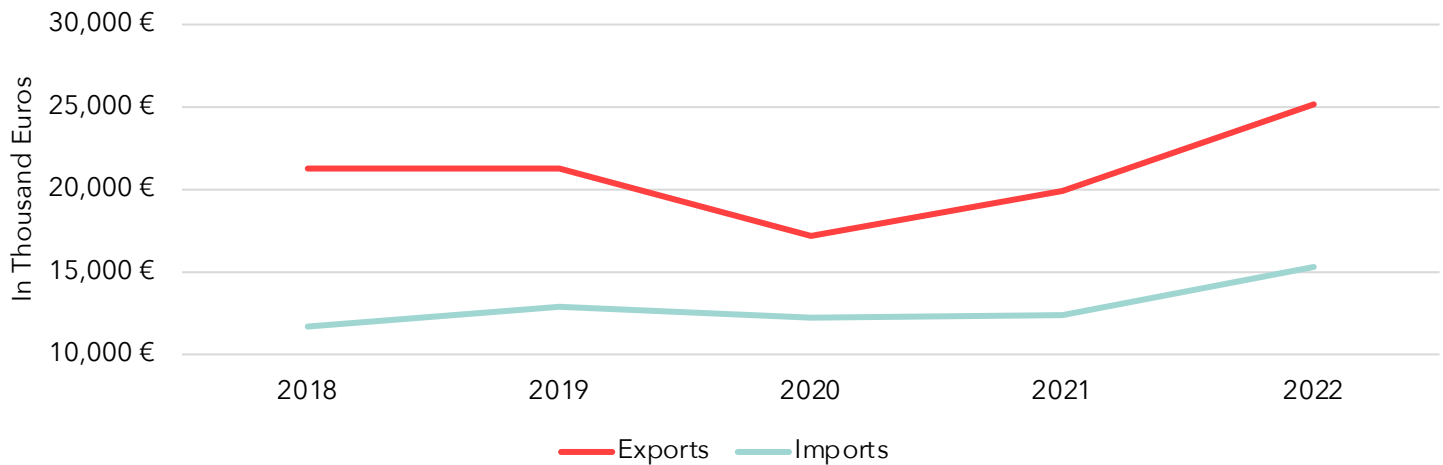
# Trade: Bavaria & USA

The graphs below show trade data for Bavaria. Bavaria is the 3<sup>rd</sup> largest exporter and 2<sup>nd</sup> largest importer of the German federal States with the US.

## Bavaria Trade



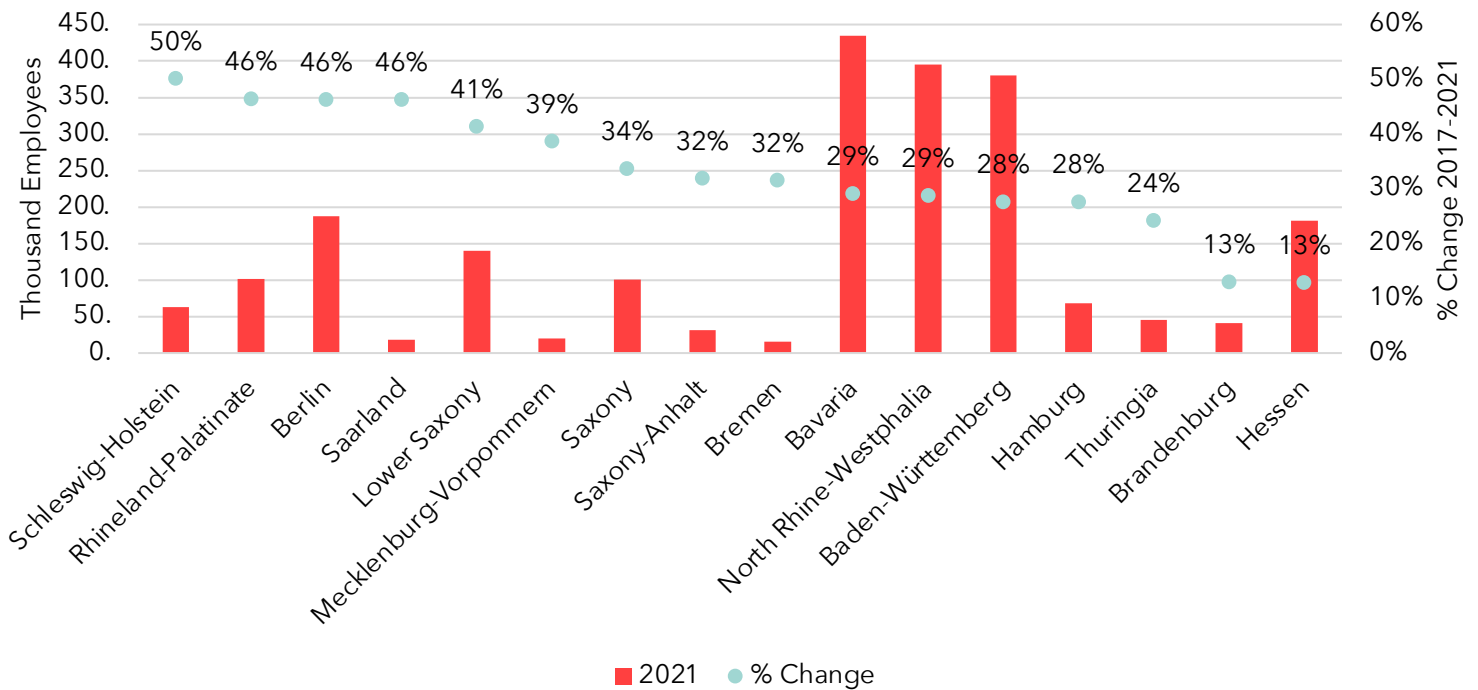
## Bavaria Trade with US



# Employment in High Tech Sectors

The graph and table below show employment in High Tech Sectors (technology and knowledge-intensive sectors). Bavaria has experienced 29% growth since 2017, compared to 30% nationally.

## Employment in Technology and Knowledge-Intensive Sectors



Region	2017	2021	% Change
European Union	7,612	9,411	24%
Euro Area	5,895	7,348	25%
Germany	1,704	2,223	30%
United Kingdom	1,546	-	-
France	1,078	1,266	17%

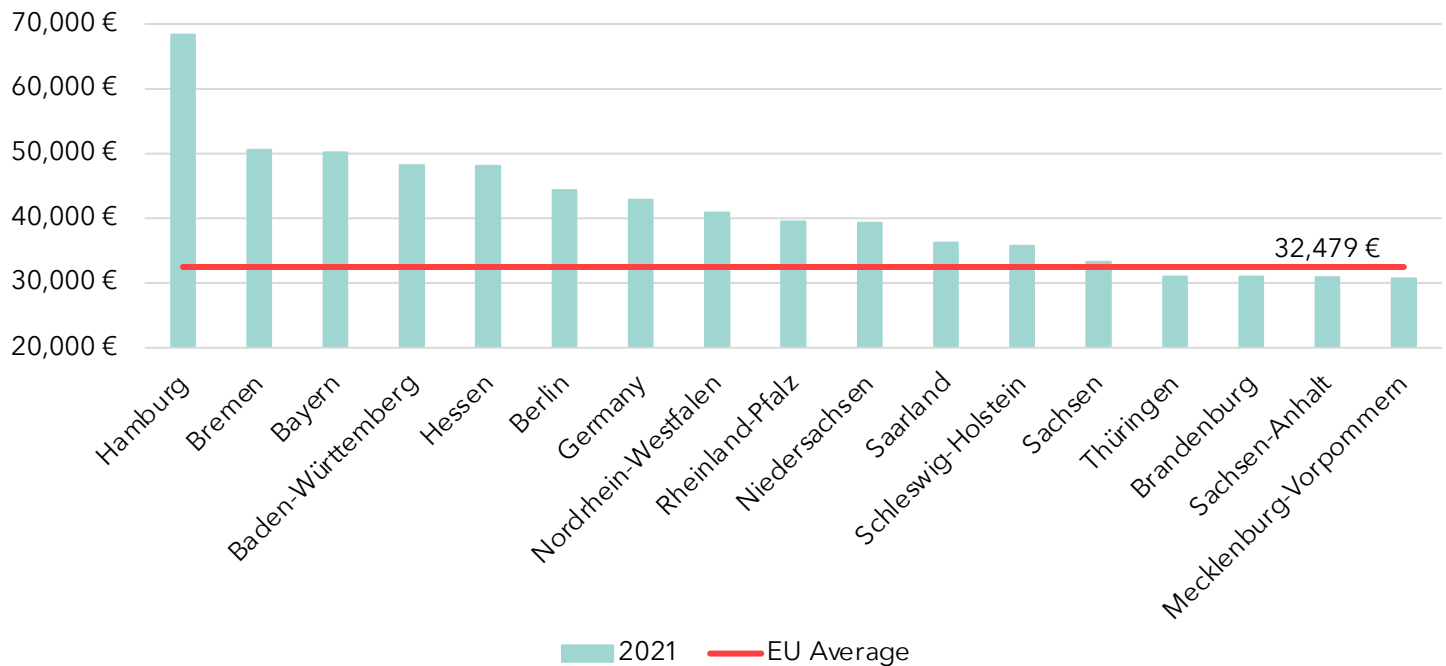
\*Thousand Employees



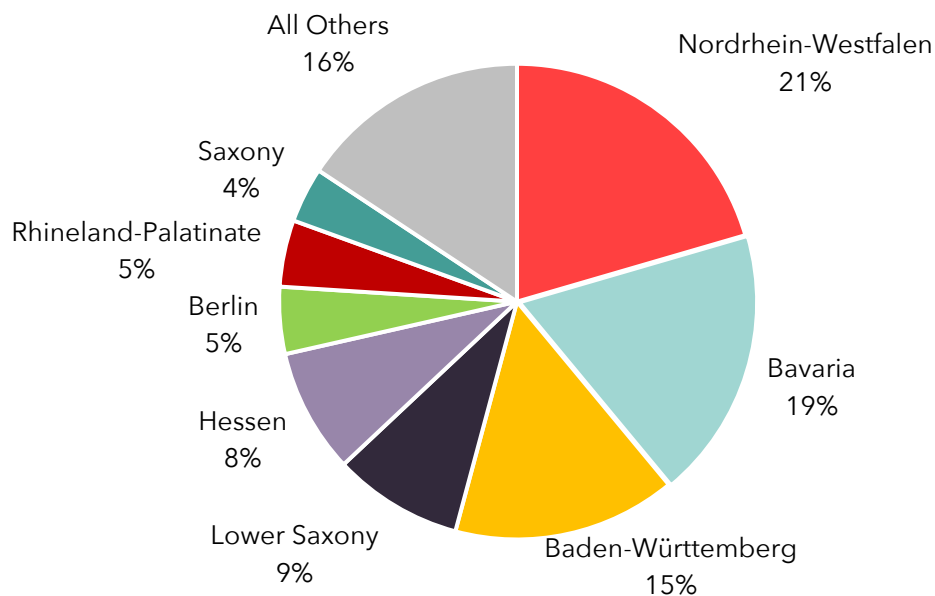
# GDP Per Capita

The graphs below illustrate regional GDP. In 2021, 12 of the 16 German Federal States had a GDP per capita above the European Union average.

## GDP Per Capita



## % National GDP, 2021



# Company List

The table below lists the top 20 German-owned businesses by employment in Arizona. There are 71 German companies in Arizona employing over 12,000 people.

Company	Employment	Address	City	NAICS 6 Description
T-Mobile	2,318	4823 N. 20th St	Phoenix	Wireless Telecommunications Carriers (except Satellite)
Fresenius Medical Care	1,695	1650 Price Rd	Chandler	Kidney Dialysis Centers
Trader Joes	1,048	6202 N. Scottsdale Rd	Scottsdale	Supermarkets and Other Grocery (except Convenience) Stores
DHL Express	801	1910 W. Rio Salado Pkwy	Tempe	Couriers and Express Delivery Services
Hellofresh	750	1850 S. 71st Ave	Phoenix	Perishable Prepared Food Manufacturing
Infineon	674	1333 S. Spectrum Blvd	Chandler	Semiconductor and Related Device Manufacturing
TRW Vehicle Safety Systems	470	11202 E. Germann Rd	Mesa	Other Motor Vehicle Parts Manufacturing
Hanson Aggregates	382	4127 E. Van Buren St	Phoenix	Ready-Mix Concrete Manufacturing
Caps Pharmacy	350	2200 S. 43rd Ave	Phoenix	Pharmacies and Drug Stores
Kinetic Systems	280	9025 S. Kyrene Rd	Tempe	Plumbing, Heating, and Air-Conditioning Contractors
SAP America	250	1101 W. Washington St	Tempe	Custom Computer Programming Services
Climatec	227	2851 W Kathleen Rd	Phoenix	Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers
Freightliner	223	9899 W. Roosevelt St	Tolleson	Motor Vehicle Supplies and New Parts Merchant Wholesalers

## Company List (Cont.)

The table below lists the top 20 German-owned businesses by employment in Arizona. There are 71 German-owned companies in Arizona employing over 12,000 people.

Company	Employment	Address	City	NAICS 6 Description
Siemens	184	4025 E. Cotton Ctr Blvd	Phoenix	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
LSG Sky Chefs	180	3555 S. 28th St	Phoenix	Food Service Contractors
Versum Materials	164	8555 S. River Pkwy	Tempe	Industrial Gas Manufacturing
Crate and Barrel	152	2110 S. 7th Ave	Phoenix	General Warehousing and Storage
Volkswagen Group of America	150	17169 N. Murphy Rd	Maricopa	Automobile and Other Motor Vehicle Merchant Wholesalers
Continental Automotive Systems	110	220 N. Freeport Dr	Nogales	Motor Vehicle Electrical and Electronic Equipment Manufacturing
Finetech	100	544 W. Iron Ave	Mesa	Semiconductor and Related Device Manufacturing
<b>Total</b>	<b>10,508</b>	-	-	-

# Industry Analysis

The table below shows industry statistics for the top 20 German industries in Greater Phoenix.

Industry	Employment	2022 LQ	Competitive Effect	2022 GRP
Wireless Telecommunications Carriers (except Satellite)	2,318	1.71	-204	\$2,299,243,350
Kidney Dialysis Centers	1,743	1.08	-14	\$271,446,381
Supermarkets and Other Grocery (except Convenience) Stores	1,048	1.01	1,029	\$2,320,499,136
Semiconductor and Related Device Manufacturing	781	7.08	-195	\$6,355,604,798
Perishable Prepared Food Manufacturing	750	2.03	-164	\$168,940,391
Couriers and Express Delivery Services	691	1.01	37	\$1,133,231,790
Other Motor Vehicle Parts Manufacturing	470	0.60	84	\$178,371,978
Pharmacies and Drug Stores	350	1.01	14	\$956,936,008
Plumbing, Heating, and Air-Conditioning Contractors	320	1.31	360	\$2,420,896,522
Ready-Mix Concrete Manufacturing	298	1.40	-24	\$333,347,418
Custom Computer Programming Services	250	0.78	-600	\$2,226,986,976
Freight Transportation Arrangement	232	0.81	-42	\$436,422,719
Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers	227	1.36	16	\$307,025,079

# Industry Analysis (Cont.)

The table below shows industry statistics for the top 20 German industries in Greater Phoenix.

Industry	Employment	2022 LQ	Competitive Effect	2022 GRP
Motor Vehicle Supplies and New Parts Merchant Wholesalers	185	0.80	48	\$558,596,559
Food Service Contractors	180	0.99	83	\$511,301,143
Industrial Gas Manufacturing	168	1.22	-1	\$72,963,910
Shoe Stores	159	0.90	57	\$118,258,898
Automobile and Other Motor Vehicle Merchant Wholesalers	150	0.67	-22	\$348,836,100
Current-Carrying Wiring Device Manufacturing	139	0.19	-9	\$14,996,963
Motor Vehicle Electrical and Electronic Equipment Manufacturing	110	0.19	-18	\$22,798,380
<b>Total</b>	<b>10,569</b>	<b>-</b>	<b>-</b>	<b>-</b>

# Greater Phoenix Greater Together