

Final Presentation

Turkey Analysis: Trade Balance and Partners

Group Yellow Submarine

MEF University

2024-01-04

Key Takeaways

Net Importer Position: Import Dependency on Intermediary Goods

Trade Partner Concentration Risk: 200+ Total Partners, Limited Ones on Strategic Product Categories

Product Category Risk: More than 80% of Total Exports/Imports coming from Top 10 Product Categories

Stagnant Revenue Streams : Stagnant Growth in Top Export Product Categories

Reliance on Intermediates: Heavy Intermediate Use, Low level of Local Input Production

New Economic Model Needed: Investments on R&D, Innovation Emphasis, Diversification of Import & Export Sources

Introduction

Group members are Sezer Türkmen, Sezgi Ayhan

Our group project, "Turkey Analysis: Trade Balance & Partners" delves into the details of Turkey's international trade landscape from 2002 to 2020.

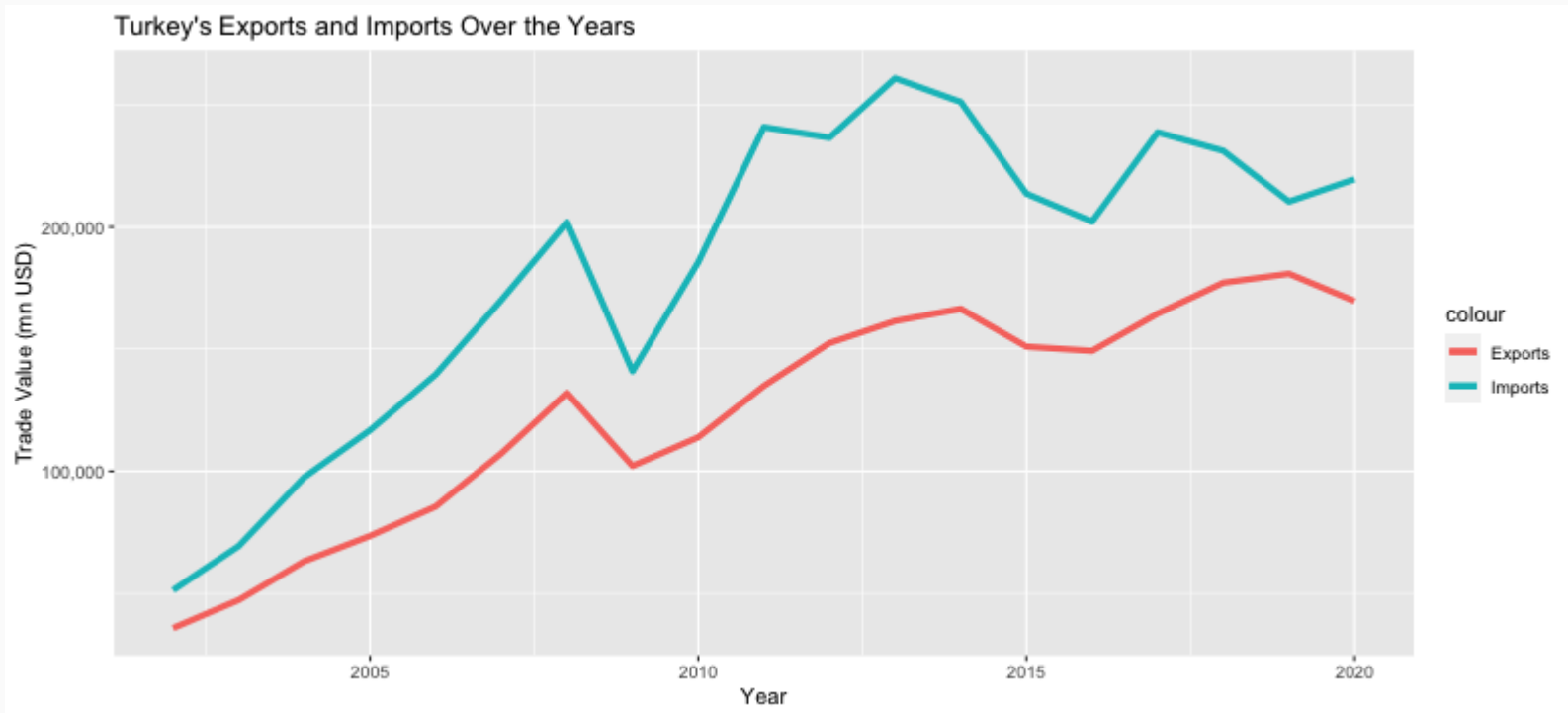
The data, sourced from a package developed by a team led by Mauricio Vargas provides a comprehensive overview of Turkey's trade dynamics. With this study, we have;

Explored certain sectors, like textiles and machinery, significantly contribute to Turkey's export revenue. On the import side, machinery and base metals play a crucial role.

Delved into the trends of these categories over the years, identifying fluctuations and their potential drivers.

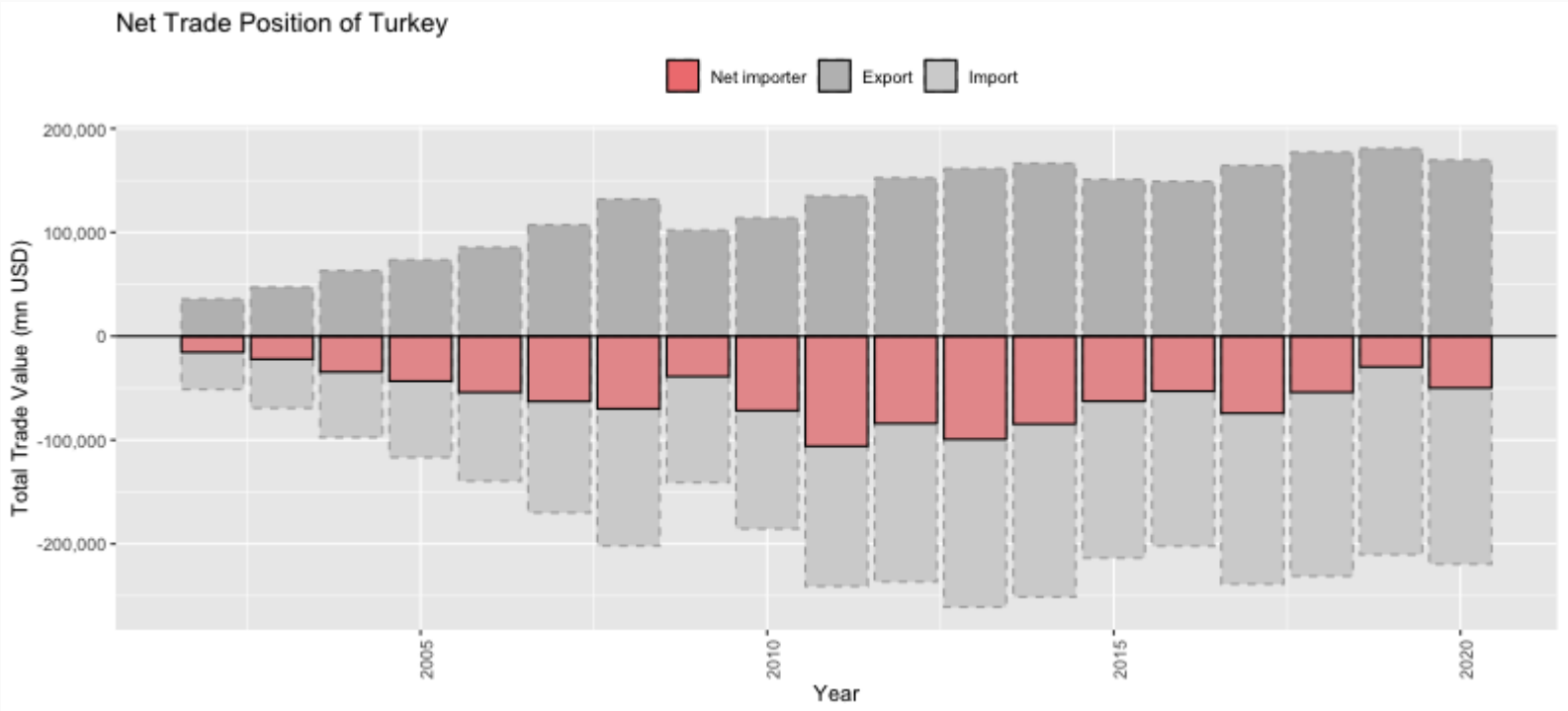
Explored Turkey's trade partnerships, highlighting the country's diverse range of trading allies.

Exports & Imports Analysis



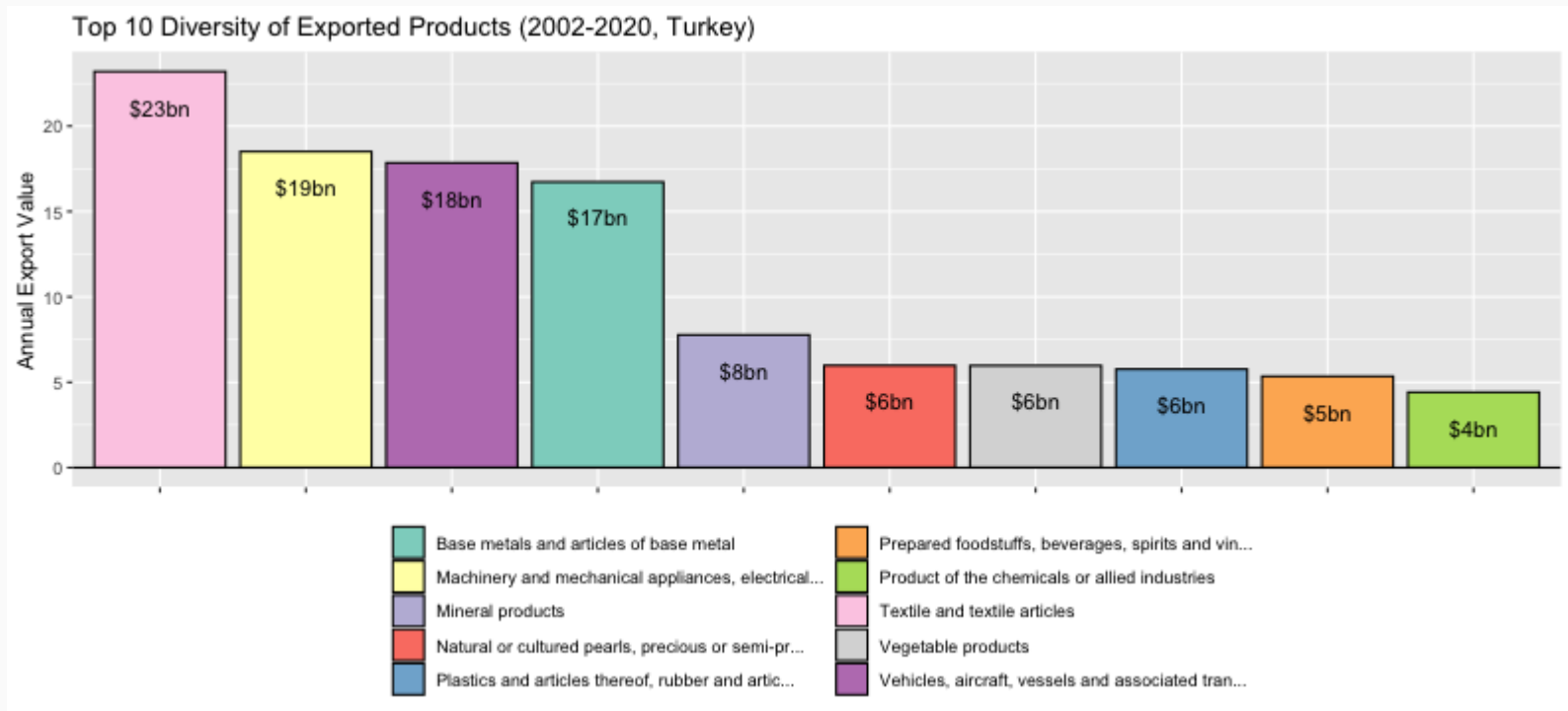
Turkey has experienced an upward trajectory in both exports and imports from 2002 to 2020, influenced by factors such as global crisis, commodity shocks and changes in macroeconomic policies and currency exchange rates.

Net Trade Position of Turkey



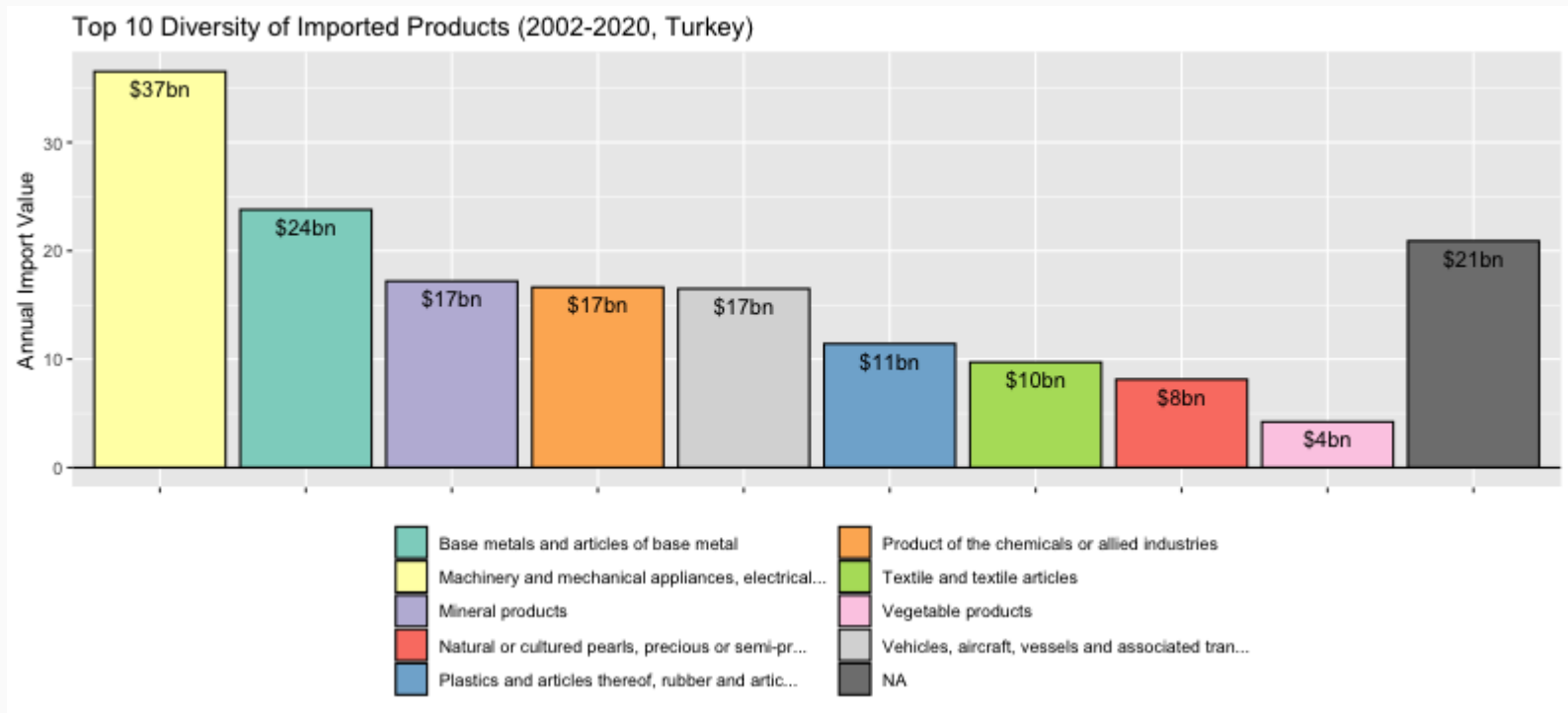
Turkey has always registered net foreign trade deficit throughout the analysis period.

Top Export Product Categories



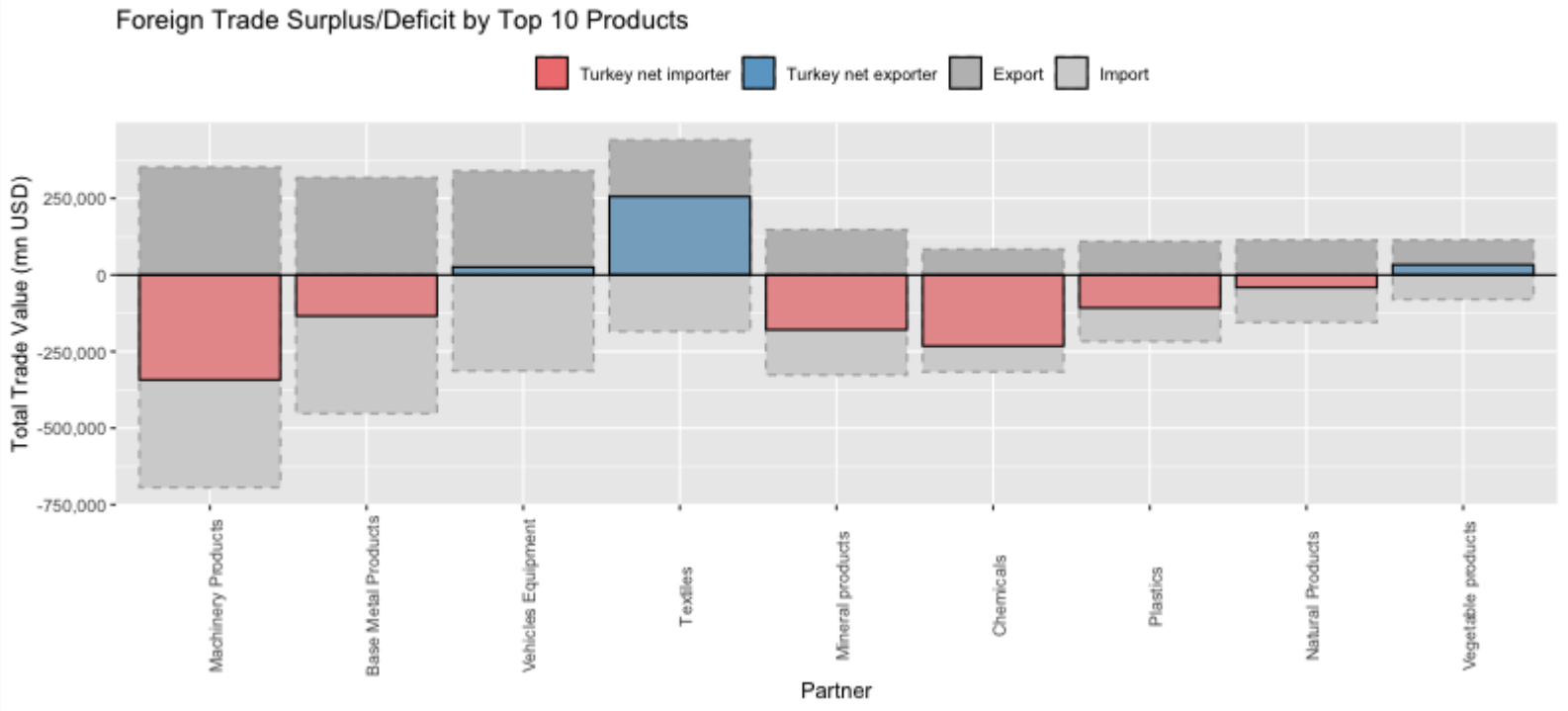
Turkey's annual export revenue on average throughout the analysis period is ~125bn USD.
Turkey's top 10 export revenues constitute 89% of total export income.

Top Import Product Categories

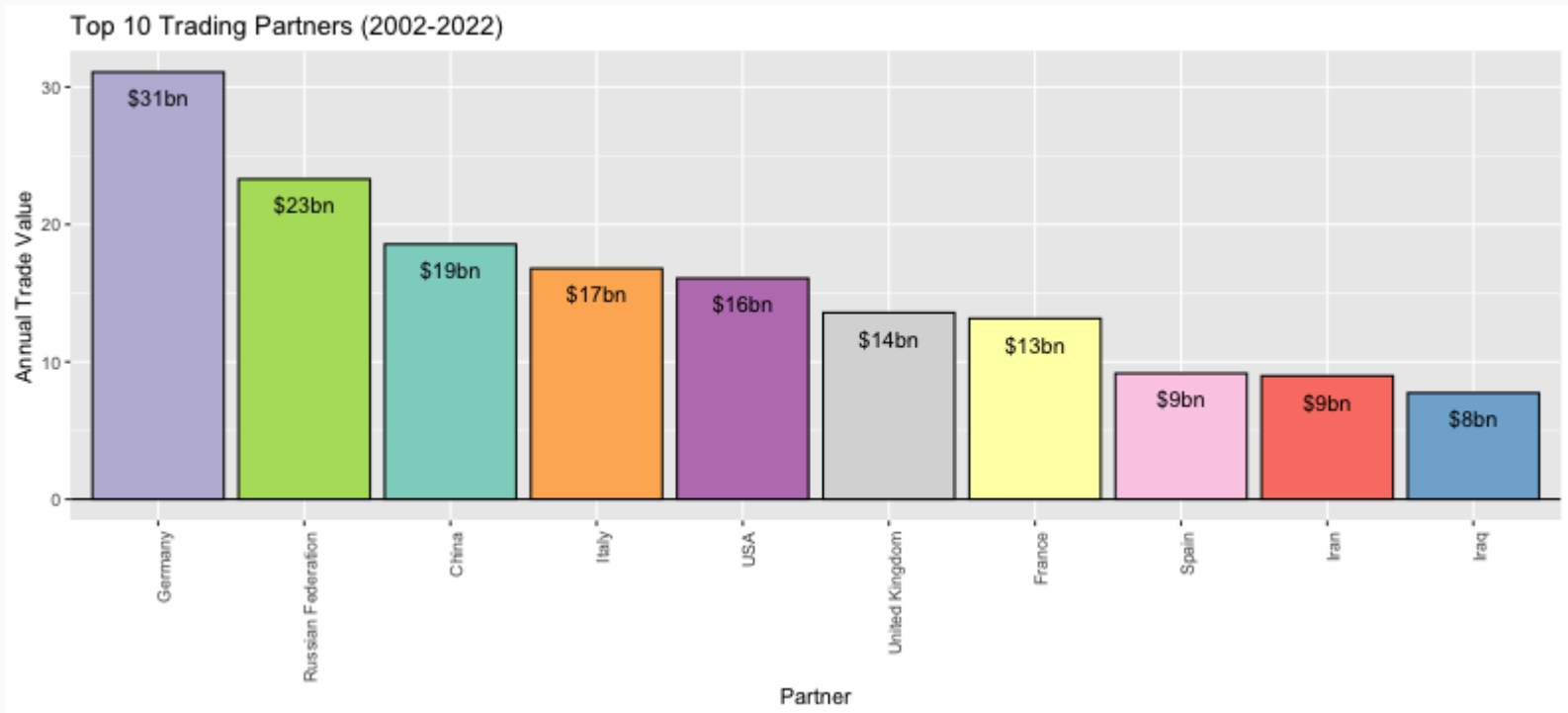


Turkey's import value on average throughout the analysis period is ~183 bn USD. Turkey's top 10 import value constitute 81% of total imports.

Product Category Analysis

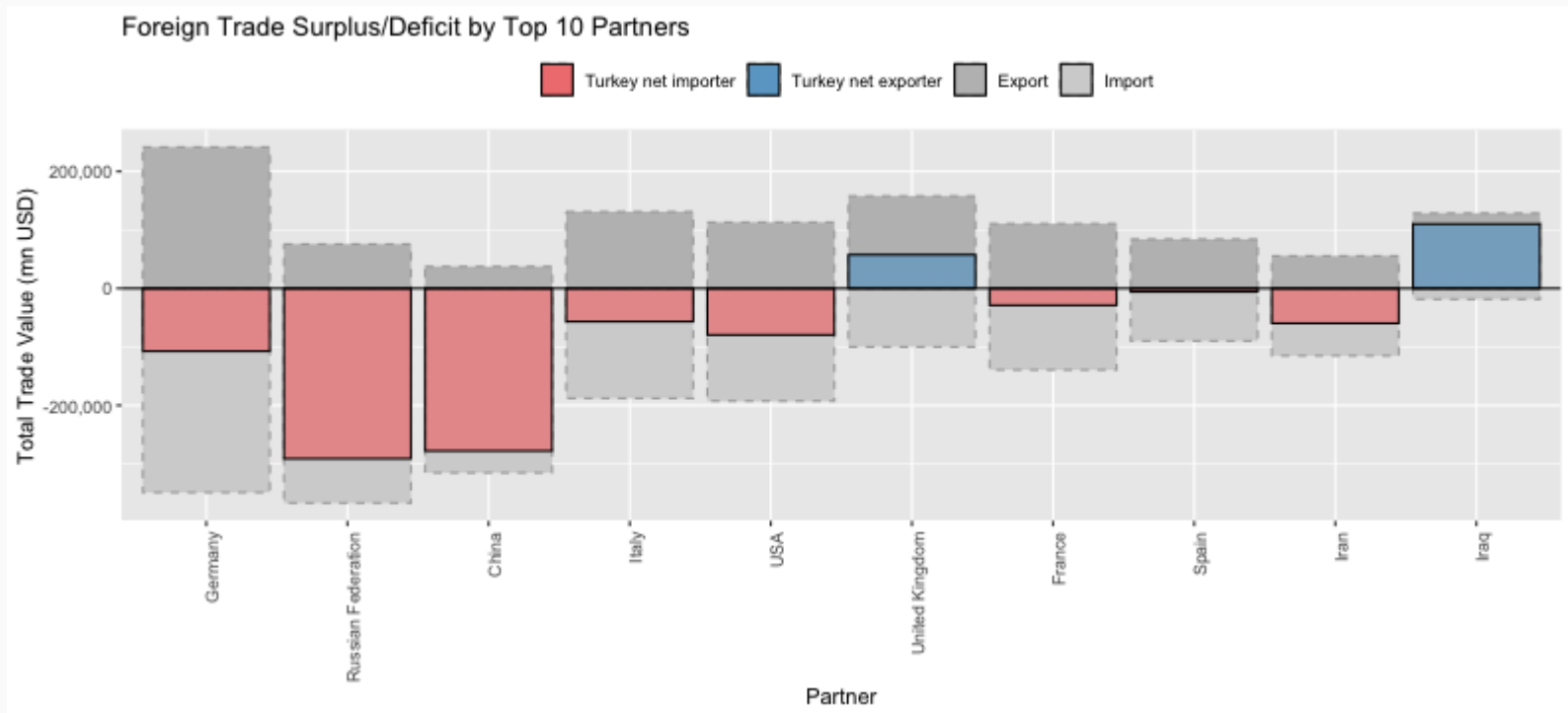


Trade Partnership Analysis



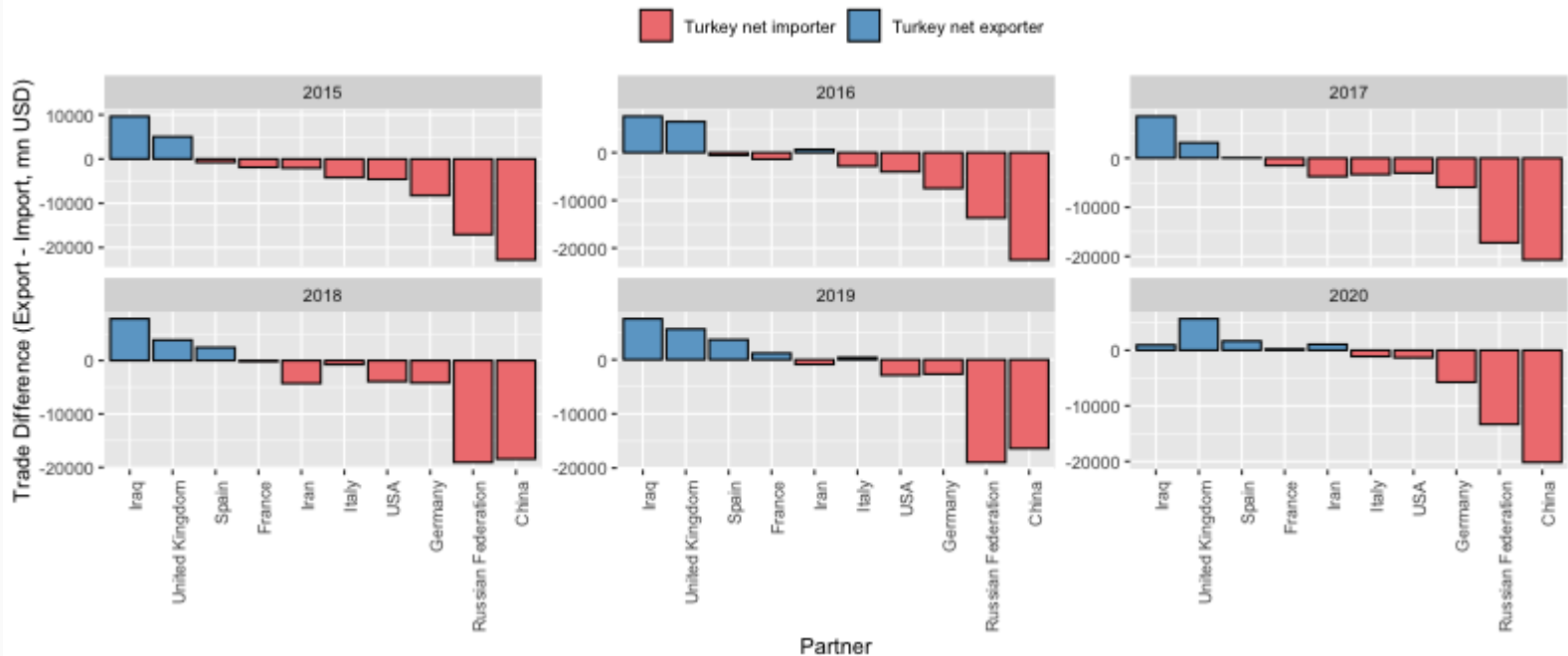
Turkey engages with more than 200 distinct export partners across its top 10 product categories, showcasing a diversified revenue stream. Top 10 trade partners' total trade value with Turkey throughout the analysis period constitute 51% of total trade value.

Trade Partnership Analysis



Trade Partnership Analysis

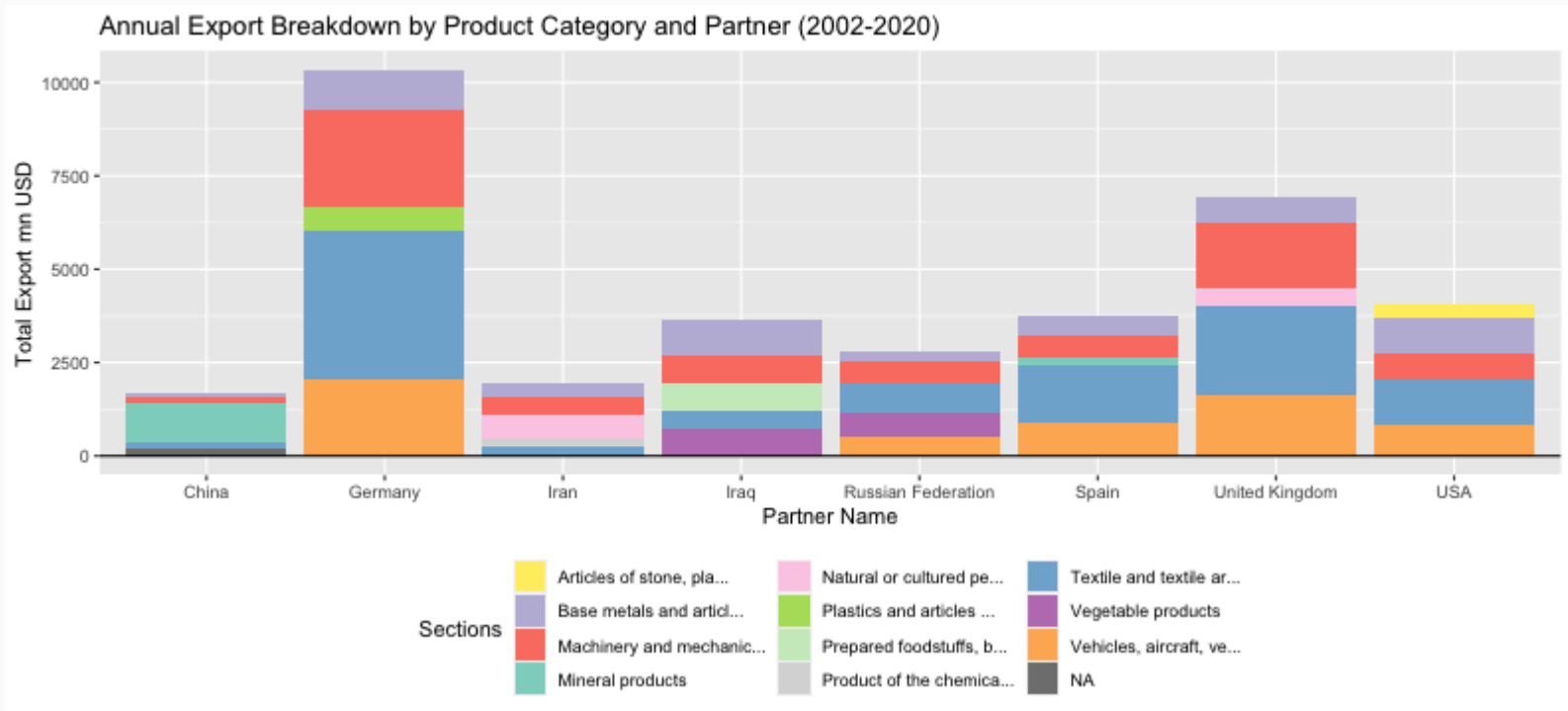
Trade Comparison with Top 10 Trading Partners(2015-2020)



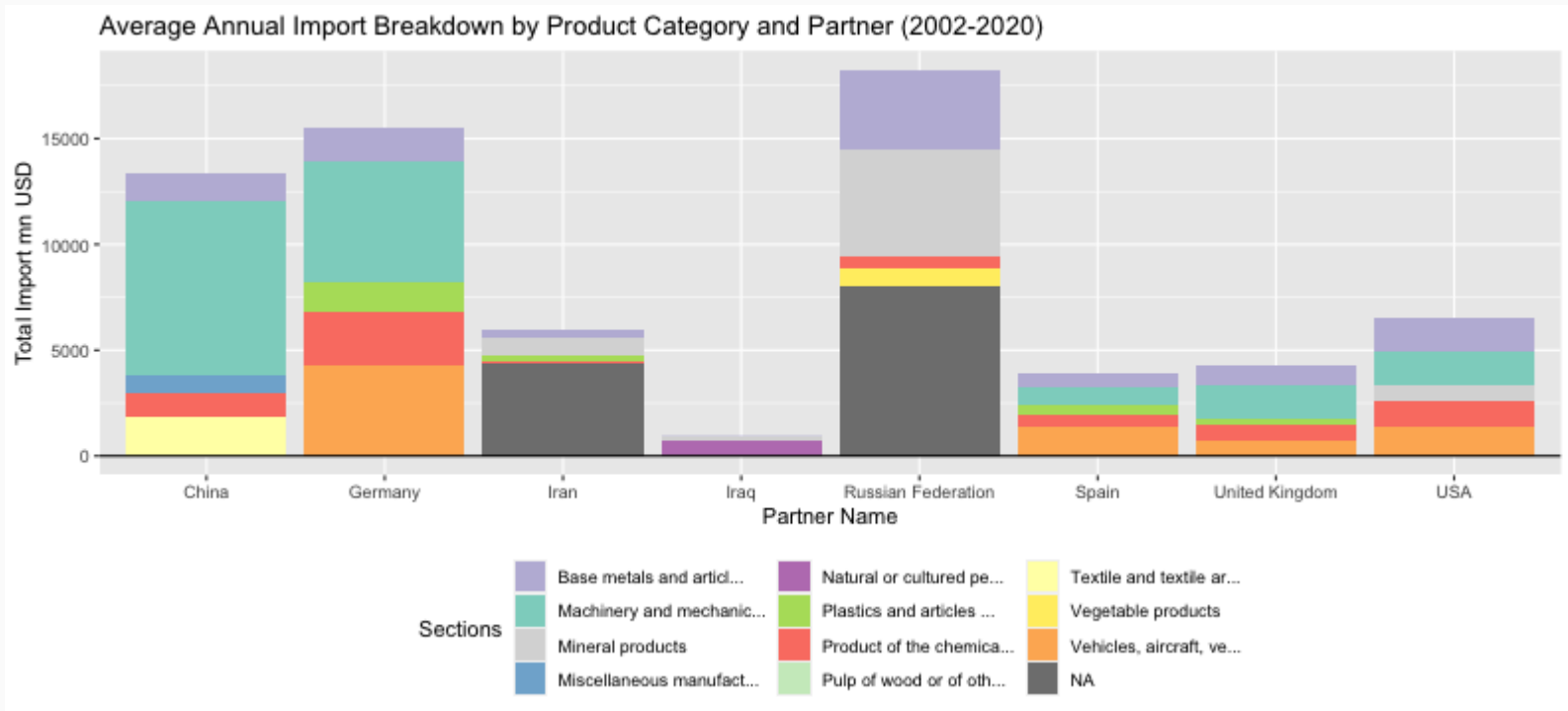
Trade Partnership Analysis



Trade Partnership Analysis by Product Categories



Trade Partnership Analysis by Product Categories



Conclusion

Robust Growth Amid Global Shifts: Turkey's trade has steadily grown over two decades, navigating events like financial crises and policy changes.

Resilience Through Deficits: Despite facing a persistent foreign trade deficit, Turkey has showcased its ability to navigate through economic downturns

Key Sectors and Dependencies: Textiles, machinery, and base metals drive exports; machinery and base metals are crucial imports, revealing reliance on diverse intermediates. Turkey's exports are also concentrated in the sectors where the use of imported inputs has expanded.

Diverse Global Partnerships: Turkey's 200+ trade partners, including neighboring countries and major economies like Germany, Italy, China, the USA, and Russia, highlight its strategic global trade position.

Actionable Insights: There is a need to enhance local input production, reduce reliance on intermediate goods, and strategically focus on R&D investments

Thank You For Listening!

Check Out **GitHub** for more details

Project Documents

- [Data Preprocessing](#)
- [Exploratory Data Analysis](#)
- [Final Report](#)
- [Shiny App](#)
- [Medium Post](#)