

Development Economics I

Project I: Industrial Policy

Due Date: Monday, Aban 28th

Overview

In this project, you will analyze how industrial policies have impacted Iran's industry sector over the past decade, focusing on various product categories. You will use statistical data from the Iran Statistics Center, particularly from surveys of workshops, to conduct this analysis.

Objective

Your goal is to investigate how different industrial policies, macroeconomic shocks, and financial measures have influenced the Iranian industrial sector. You are free to choose any **industry or sector** and any industrial policy or macroeconomic event that you believe significantly affected this sector. Specifically, I recommend focusing on industries or sectors with imported goods, exported goods, and products relying on imported raw materials. Feel free to use any research method, software, or additional datasets to support your analysis.

Requirements

1. Institutional Background

Provide a brief background on your chosen industry or sector. This should include:

- Explanation of how and why it is relevant for the analysis.
- Institutional or economic context that supports your assumptions.
- Supporting evidence or documents showing that the selected shock or policy is likely to have affected this sector.

2. Data Analysis

The data provided is categorized by workshop size: workshops with more than 10 employees, more than 50 employees, and between 10 and 49 employees, each available annually.

Data Summary

For a comprehensive data summary, consider including the following:

1. **Number of Workshops:** Track the number of active workshops over time.
2. **Employee Information:** Report the number of employees by gender, wage status (receiving wages or not), skill level, and education level.
3. **Production and Sales:** Report the value of products, sales value, and capital accumulation within the sector.
4. **Utility Consumption:** Include the value of fuel, electricity, and water consumed by workshops.

Summarize and visualize this data to highlight key trends, differences, or patterns.

3. Impact Assessment

Use the data to assess how the chosen industrial policy or macroeconomic shock impacted your selected industry. You can focus on metrics such as production output, employment, or revenue changes due to:

- Inflation rate fluctuations
- Political agreements (e.g., JCPOA)
- Exchange rate fluctuations (e.g., the “4200 Toman dollar”)
- Government financial support programs

You should also explore differences in how large and small workshops were affected by the chosen policy or shock.

4. GitHub Submission

To develop familiarity with collaborative tools and practices, you will use GitHub to submit your project materials. Follow these steps:

- Create a GitHub account if you don't already have one: <https://github.com/>.
- Set up a public repository for this project. Name it clearly, including your project topic.
- Upload all relevant materials to your repository, including your code, data files, report, and presentation.
- Ensure your code is organized, readable, and well-documented for reproducibility. Including a `README.md` file explaining the purpose of each file, any setup instructions, and how to run your analysis would receive extra credit.

5. Report and Presentation

Summarize your findings in a report and prepare a presentation to communicate your methodology, analysis, and conclusions effectively.

Grading Rubric

Component	Points
Data Summary and Visualization	15
Methodology and Reasoning	50
Report, Presentation, and GitHub Repository	35

Suggestions for Success

- **Be Specific with Policies and Shocks:** Try to focus on a single policy or economic event to allow for a more in-depth analysis.
- **Use Clear Visualizations:** Choose graphs or charts that clearly represent your findings, especially for any trends over time or differences in workshop size.

- **Provide Robust Justification:** Clearly link your choice of sector and industrial policy to the potential impact on different types of goods in that sector.
- **Additional Data Sources:** Consider integrating external data for comparison, such as industry-specific trade statistics or inflation data, to support your arguments.
- **Emphasize Readability and Reproducibility:** Write clear and well-commented code, so others can easily understand and replicate your analysis.