## **India's Economic Pulse Dashboard**

### **1. Executive Summary**

This project aims to develop an interactive dashboard using Tableau to visualize and analyze key economic indicators sourced from NITI Aayog. The dashboard provides a comprehensive overview of India's economic performance, supporting data-driven decision-making for policymakers, researchers, and the public.

### **2. Problem Statement**

Limited availability of a centralized platform to visualize and analyze India's economic performance hinders effective policy making and public understanding.

### **3. Project Objectives**

* Develop an interactive dashboard to visualize key economic indicators.
* Identify trends, patterns, and correlations within the data.
* Support evidence-based policymaking.
* Enhance public awareness of India's economic landscape.

### **4. Data Sources**

* Primar NITI Aayog's real-time economic data.

### **5. Methodology**

* Data acquisition and cleaning: Collected and processed data from NITI Aayog.
* Data analysis: Identified key metrics and calculated relevant indicators.
* Dashboard design and development: Created interactive visualizations using Tableau.
* User testing: Conducted user testing to refine dashboard usability.

### **6. Dashboard Components**

* Per Capita Net National Income (NNI) and Growth Rate:
* State/Union Territory-wise Average Per Capita Expenditure (MPCE): Geographic maps, distribution analysis.
* Foreign Investment: Geographic distribution, sectoral analysis.
* Goods and Services Tax (GST) Collection: State-wise comparison, revenue trends.
* **Foreign Currency Assets (FCA):** This is the largest component, mainly held in US dollars, and is used for international transactions.

### **7. Expected Outcomes**

* A comprehensive and interactive dashboard providing insights into India's economic performance.
* Improved data-driven decision-making for policymakers.
* Enhanced public understanding of economic trends.
* Potential for further analysis and research.

### **8. Tools and Technologies**

* Tableau for data visualization and dashboard development.

### **9. Challenges and Mitigation**

* Data quality and consistency issues were addressed through data cleaning and validation.
* Maintaining data freshness required efficient data update processes.
* Technical challenges were overcome through iterative development and testing.
* Merging multiple dataset

### **10. Conclusion**

The India Economic Insights Dashboard successfully provides a valuable tool for understanding India's economic landscape. It offers a user-friendly interface to explore complex data, supporting informed decision-making and public engagement.