



# Preliminary Findings: Is the Ratio of Investment Between R&D to Production Experiencing Fundamental Change?

Rhys McCormick

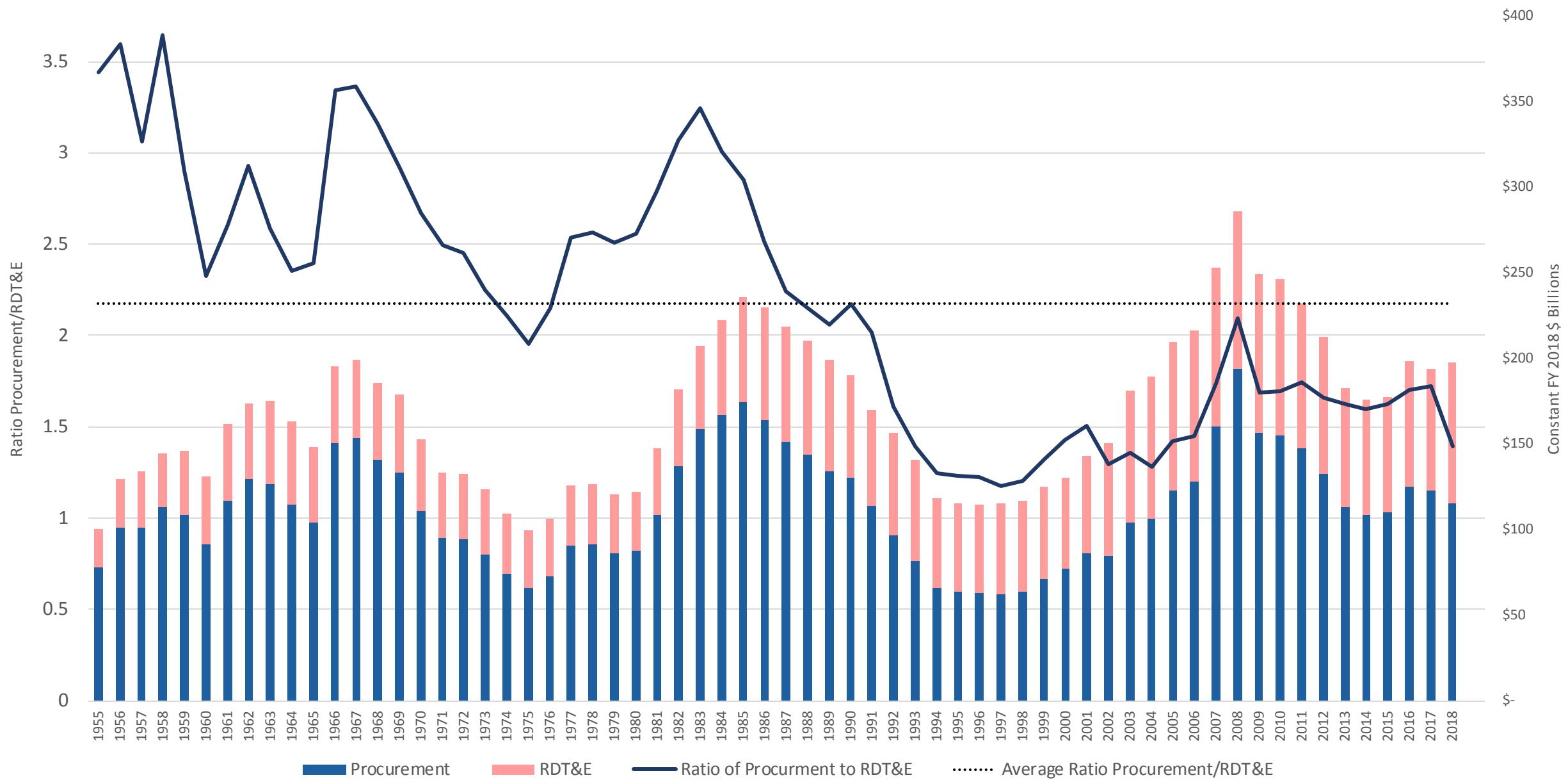
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# Overall DoD Ratio of Procurement to RDT&E, 1955-2018



## Research Questions:

- Has the relative importance of R&D changed across the broader economy over the past four decades?
- What are the historical trends in the ratio of procurement to R&D funding in the military Services? Are there significant differences between the military Services?
- What are the top-line historical trends in the ratio of procurement to RDT&E funding for the MDAP portfolio?

## Data Sources:

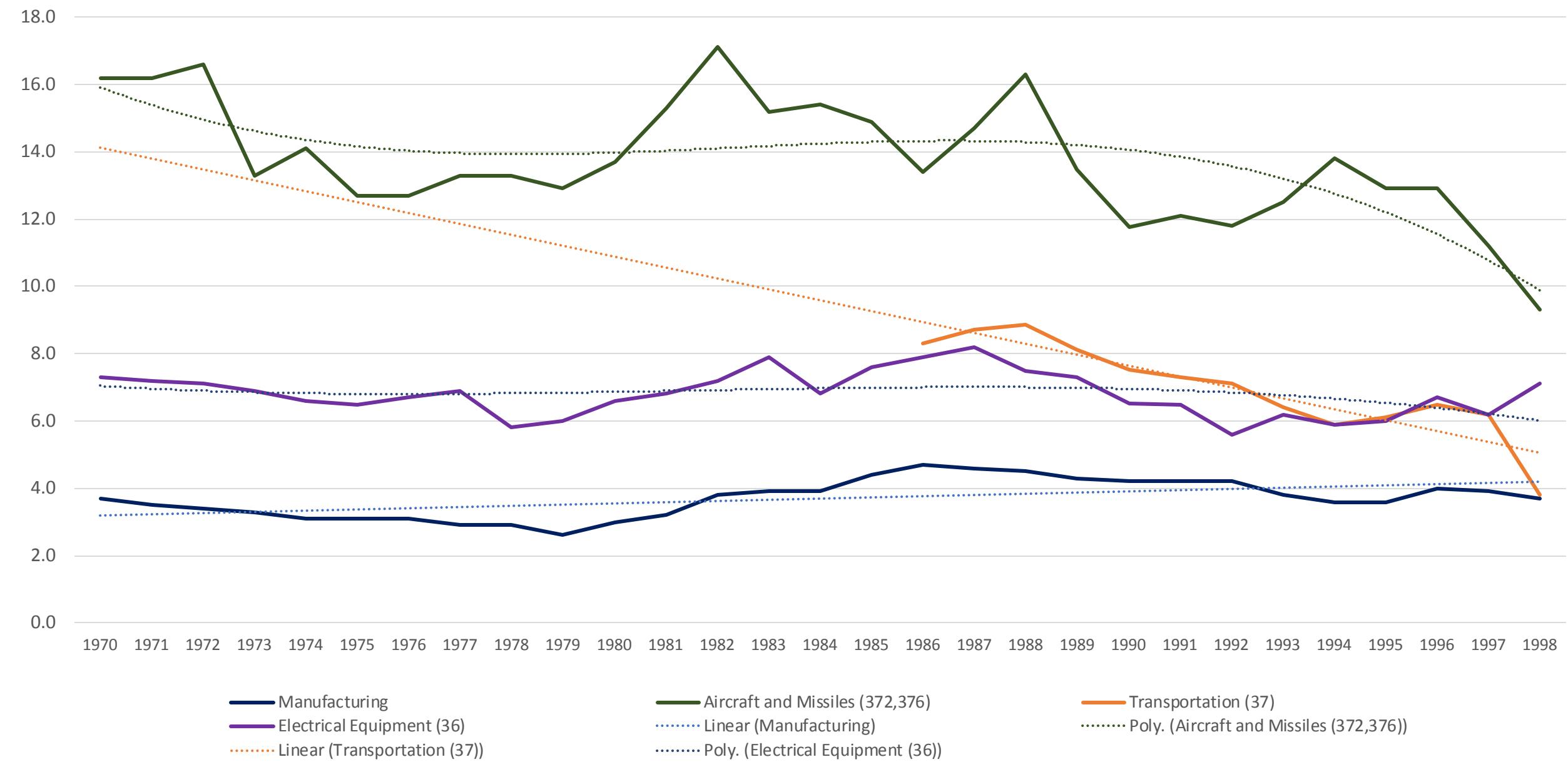
- Selected Acquisition Reports (SAR)
- R&D Intensity Data: National Science Foundation
- DoD Greenbook

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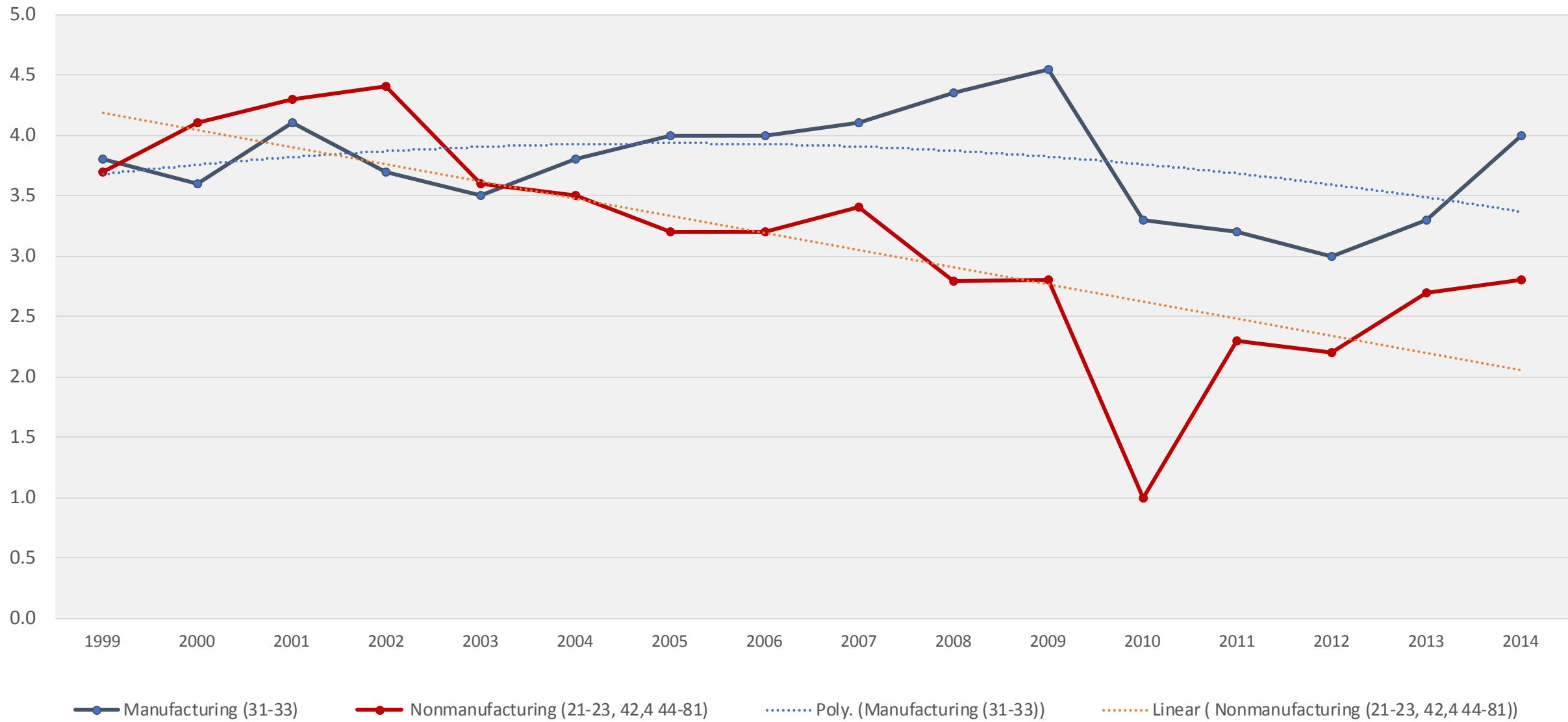
**Research Question 1: Has the relative importance of R&D changed across the broader economy over the past four decades?**



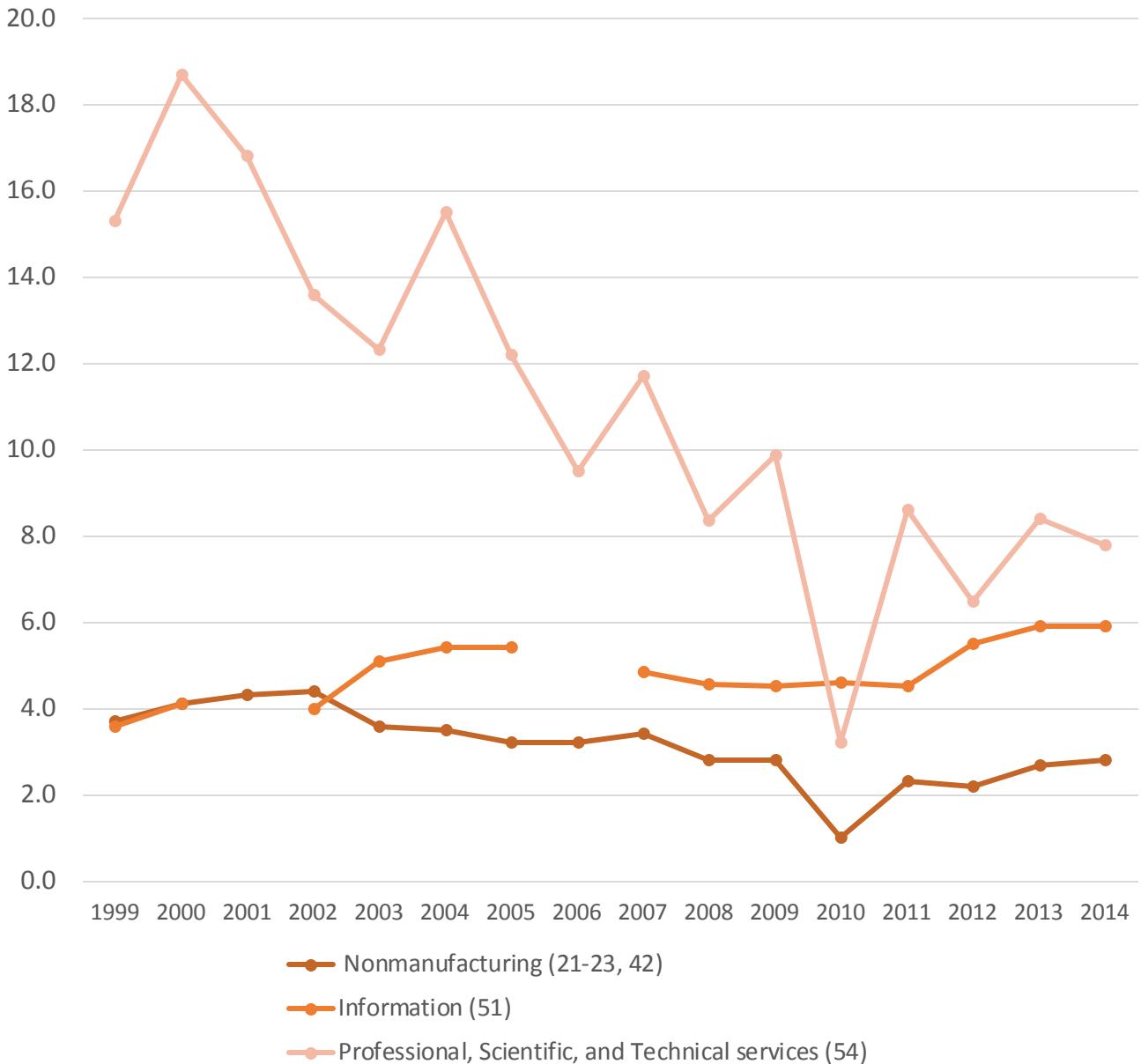
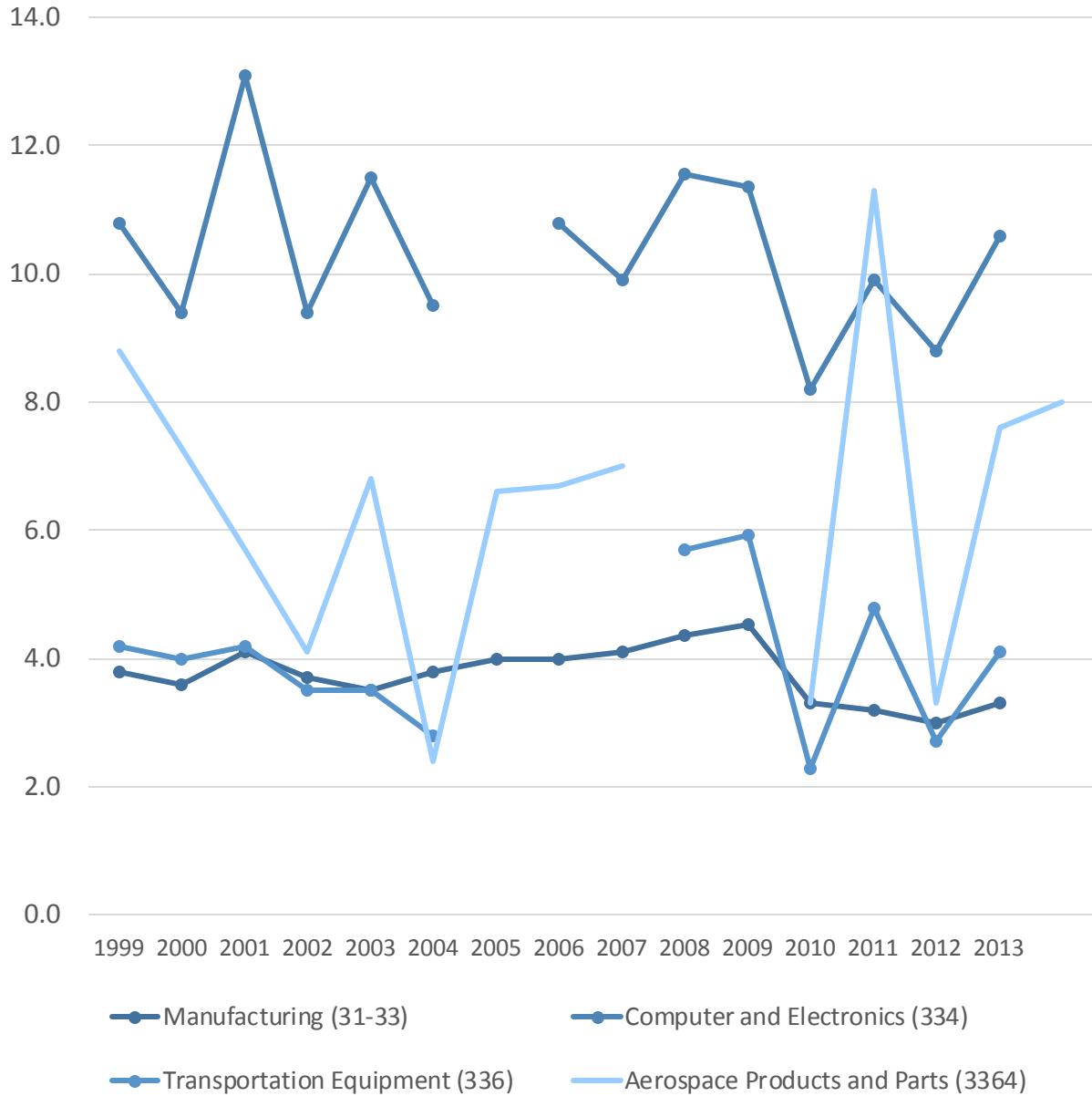
# R&D Intensity in Manufacturing and Selected Industries, 1970-1998



# Manufacturing and Non-Manufacturing R&D Intensity, 1999-2014



# R&D Intensity in Select Industries, 1999-2014

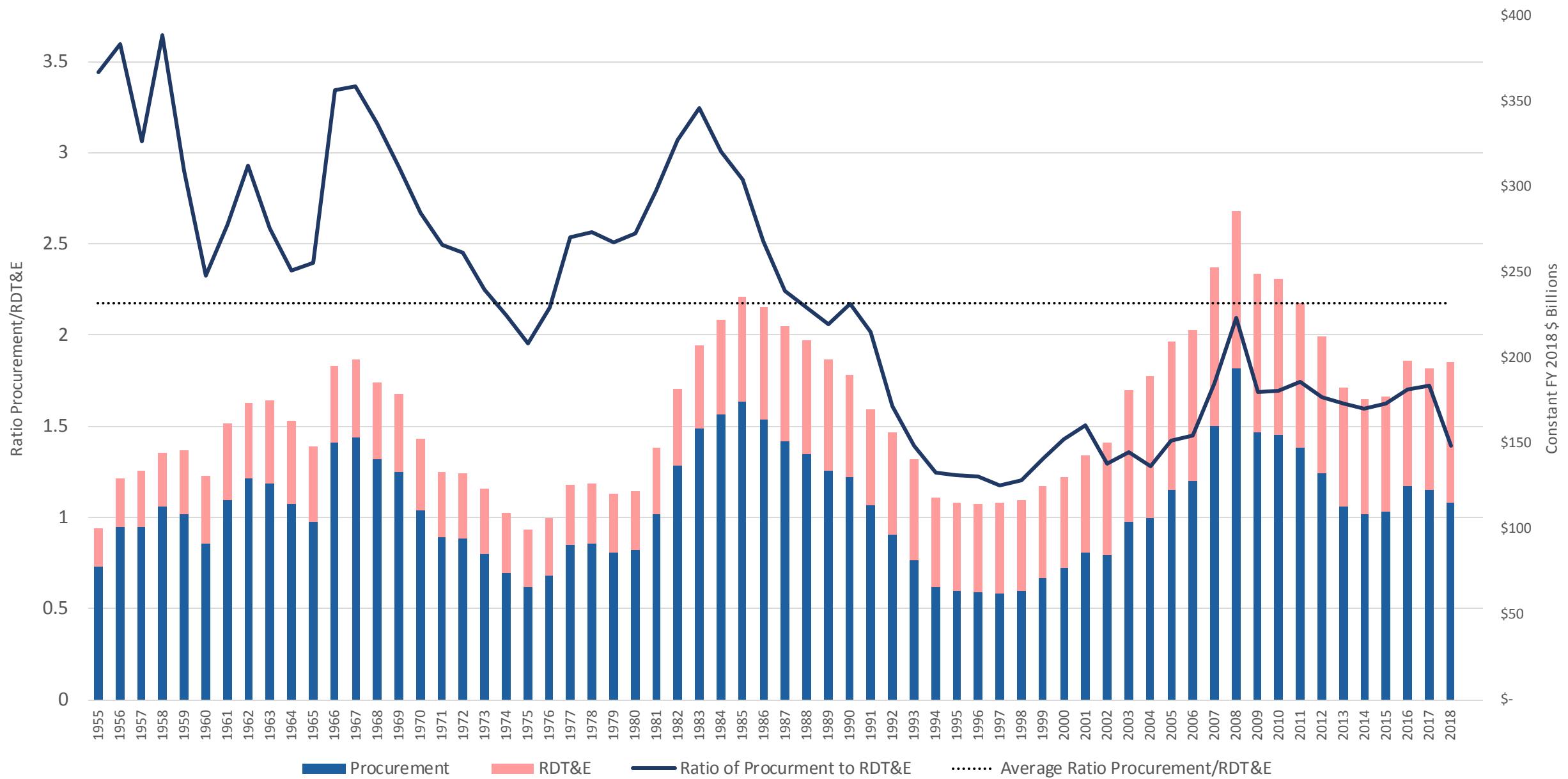


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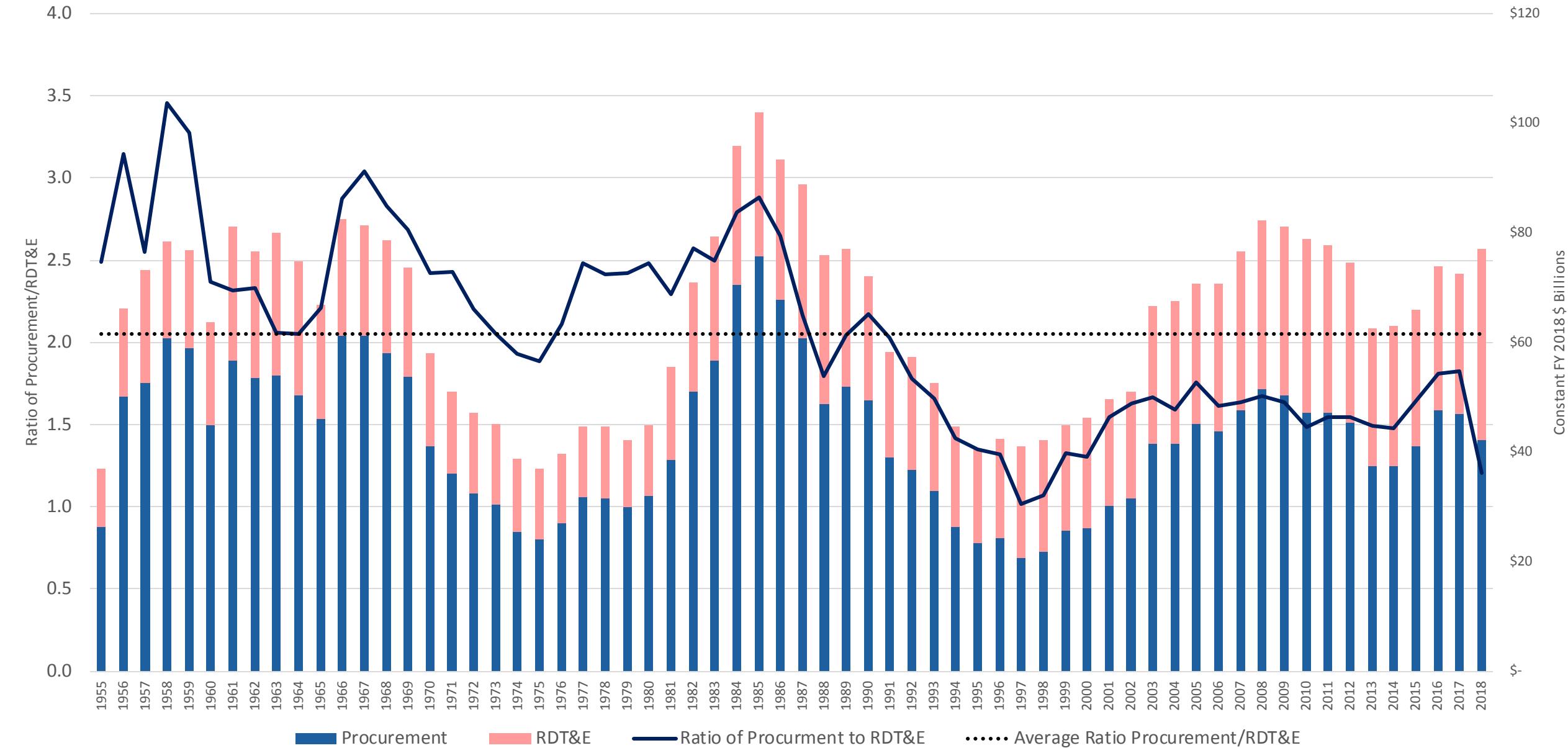
**Research Question 2: What are the historical trends in the ratio of procurement to R&D funding in the military Services? Are there significant differences between the military Services?**



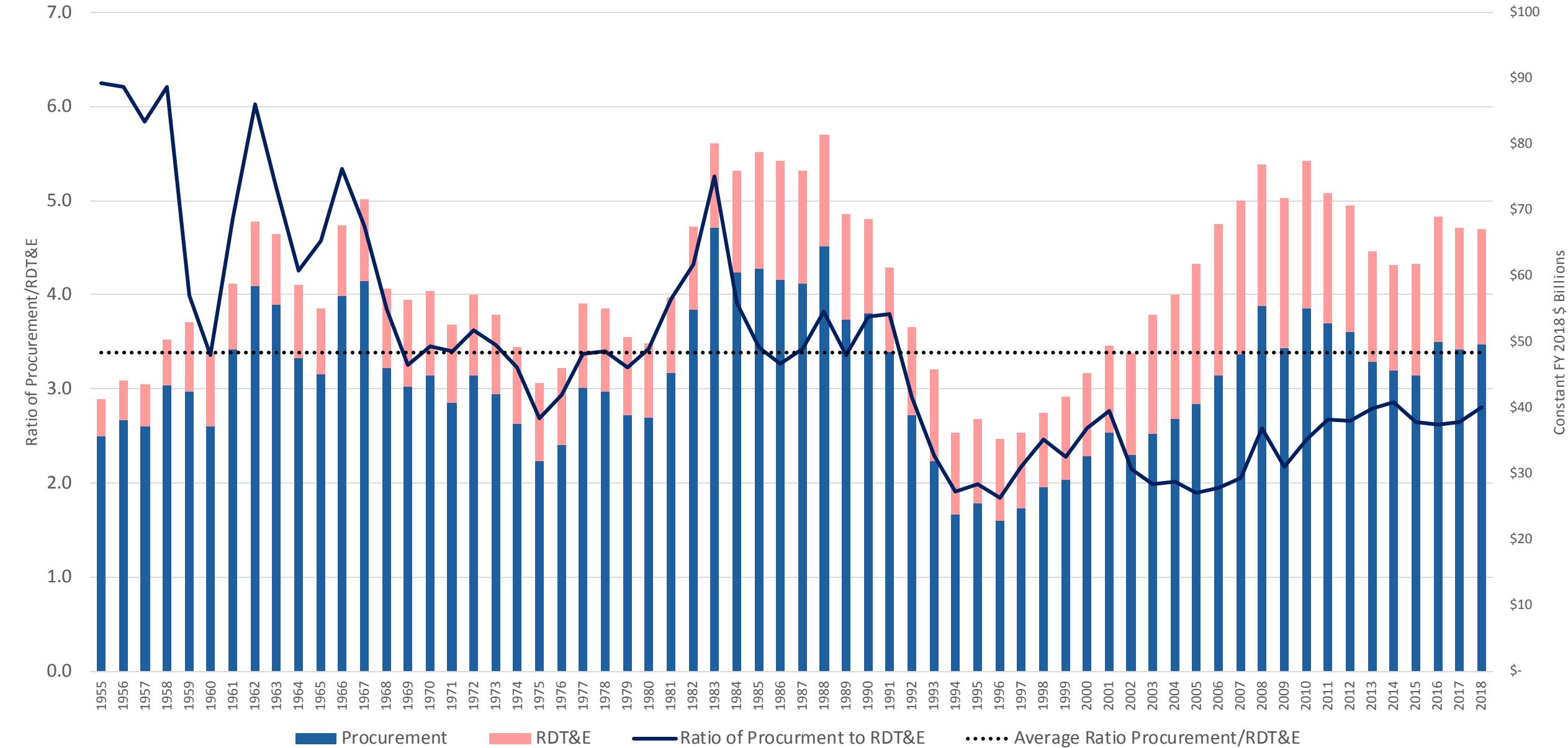
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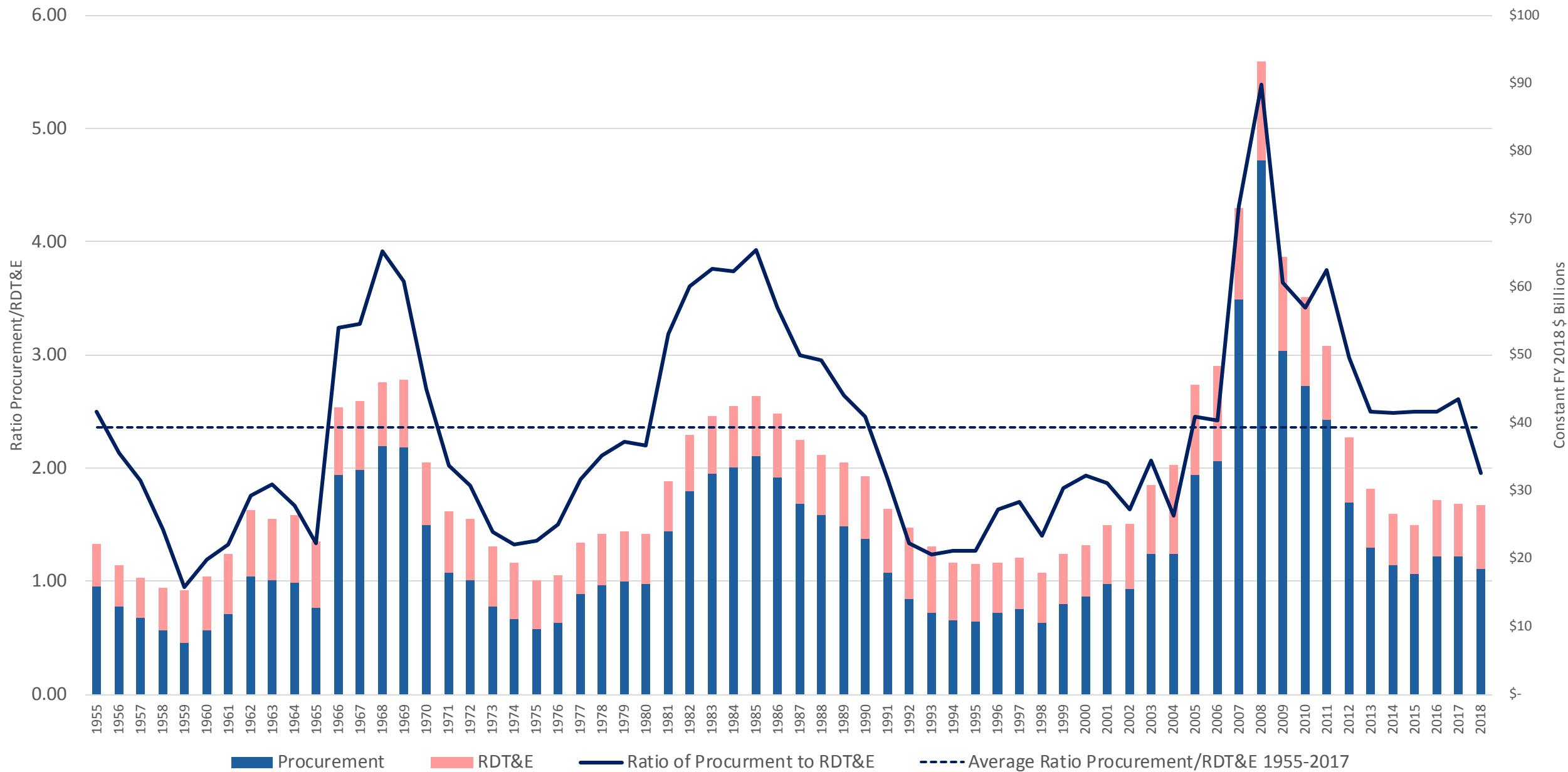
# Air Force Ratio of Procurement to RDT&E, 1955-2018



# Navy Ratio of Procurement to RDT&E, 1955-2018



# Army Ratio of Procurement to RDT&E, 1955-2018

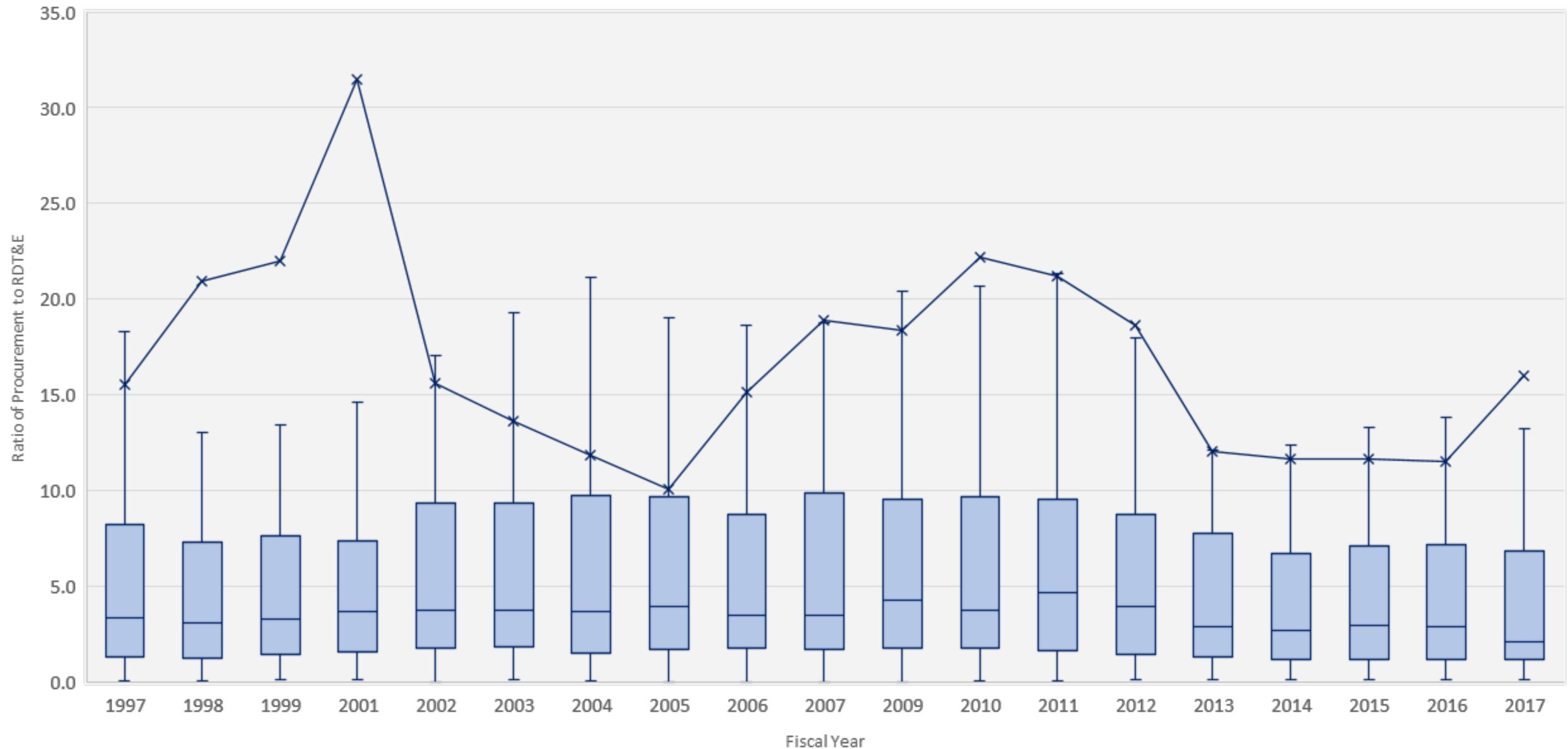


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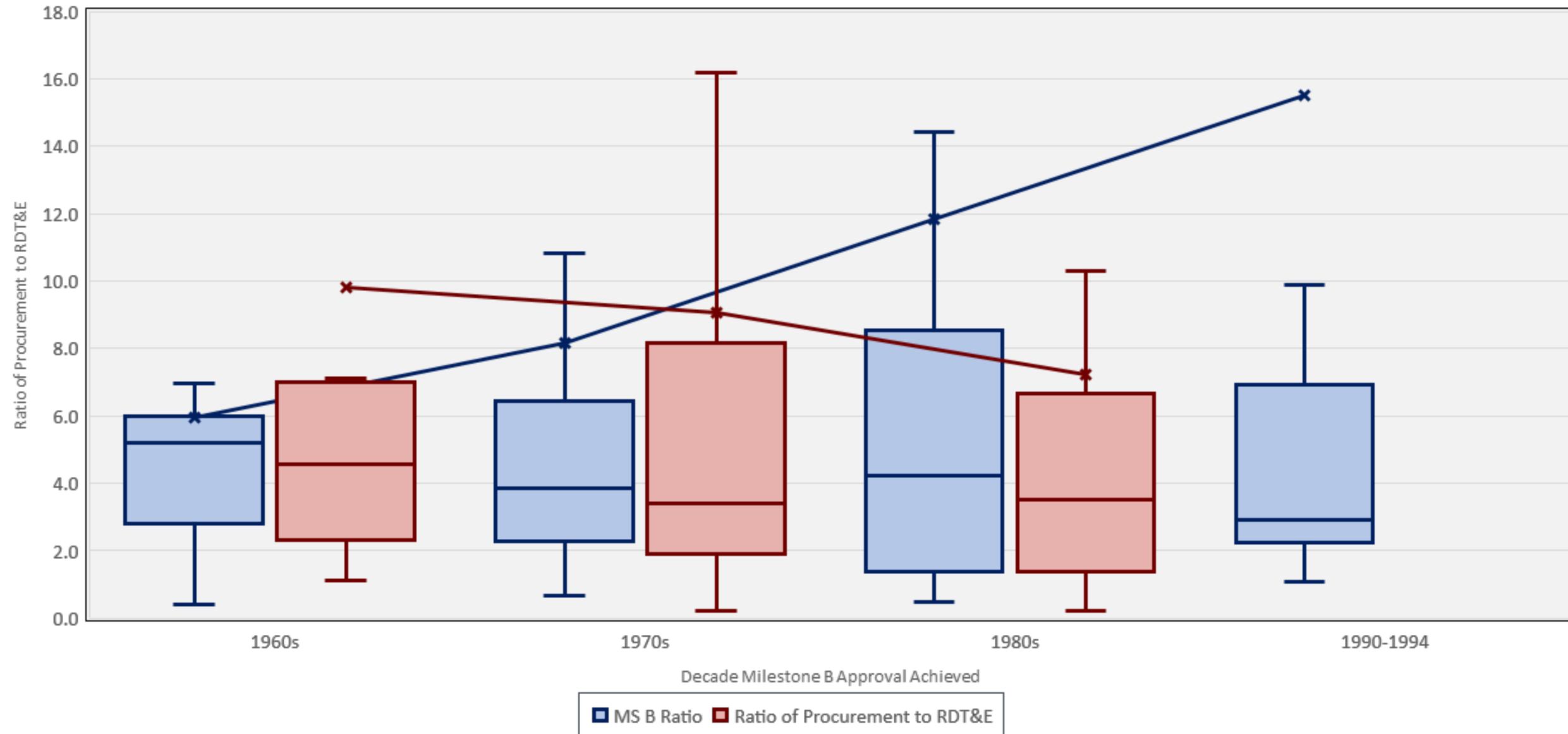
**Research Question 3: What are the top-line historical trends in the ratio of procurement to RDT&E funding for the MDAP portfolio?**



# Ratio of Procurement to RDT&E Across the MDAP Portfolio, 1997-2017



# Estimated Ratio of Procurement to RDT&E at Milestone B vs. Actual Ratio





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