

# *The Importance of New Measurement Applications*

*Technology, Long-Term Growth, and Economic Measurement*  
Martin Fleming

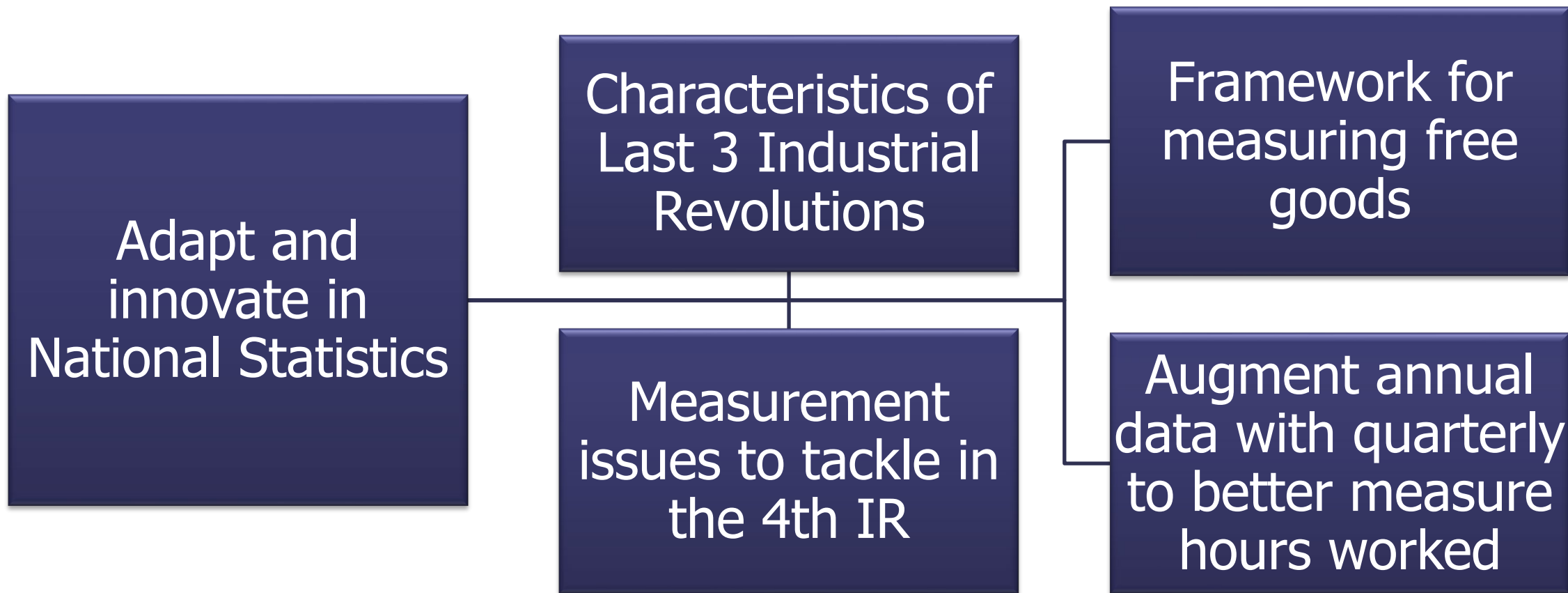
*Measuring the Value of Free Digital Goods*  
John Lourenze Poquiz

*Hours of Work during the COVID-19 Pandemic:  
Implications for Labor Productivity Measures*  
Sabrina Wulff Pabilonia, Drake Palmer, Jay Stewart

*All views expressed are those of the authors and do not reflect the views or policies of the U.S. Bureau of Labor Statistics*



# Session Overview



# Technology, Long-Term Growth, and Economic Measurement

- History tells us: adoptions of new technology across the economy takes time. And economic measurement follows
- Mushroom vs yeasty growth
  - ▶ Mushroom -> productivity dispersion
  - ▶ Yeasty -> R&D spillovers
- Contribution to the current measurement issues: knowledge diffusion as-a-service

# Measuring the value of free digital goods

- Narrow scope of “free digital goods” allows for tangible measurement
- Novel approach using market substitutes for valuation and multiple surveys for volume measurement
- Appreciate the thought on how this work might be used in national accounting
- Recognizes weaknesses of the measure but didn't let that stop the work



# Hours of work during the pandemic

- COVID-19 highlighted a short coming in data used to measure hours worked
- No data set is perfect but found ways to adapt the household survey
- Are able to show differences in paid time off ratios in different sectors of the economy
- Work highlights the importance of correctly measuring hours worked

