LMI Tuesdays!!!!!

Session 14: Future of Work and Occupations

November 16, 2021

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LEAD Teams

NC DEPARTMENT of COMMERCE — LABOR & ECONOMIC ANALYSIS

Employment Statistics (BLS Programs)

Data Collection & Production including Monthly Unemployment Rates, Job Numbers, Industry & Occupational Employment & Wages

Policy & Economic Analysis

County Tier Designations, ED Grant Report, County Annual Wages (JDIG), Employment Projections, Star Jobs, NCcareers.org, LMI Tools & Publications

Data Analytics & Evaluation

Big Data Analysis, Program Evaluation, Analytic Dashboards, Longitudinal Data System (Common Follow-up System, NCTOWER)

Information Delivery

Online & Print Publications, LMI Tool & Application Development (NCBOLD, D4, AccessNC), Workforce Info Database

SAMPLE LIST OF PRODUCTS AND TOOLS
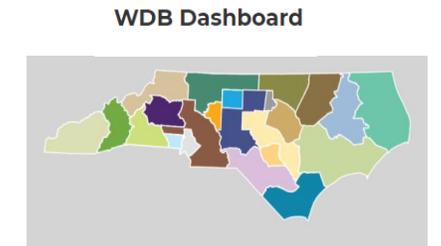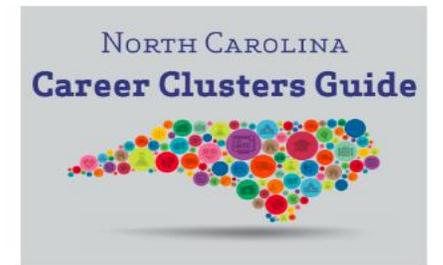
Agenda for Today's Session

Future of Work and Occupations

- How to look at this topic systematically
- Things to consider for future employment

Diving into Work

1. How is work organized?

2. Who does the work?

3. Where is it located?

What are work structures?

**Work structures:** institutions, regularities, and arrangements that characterize work (Kalleberg & Berg 1987)

Industry **Organization** **Occupation**

Job **Union** **Nation-State**

Class
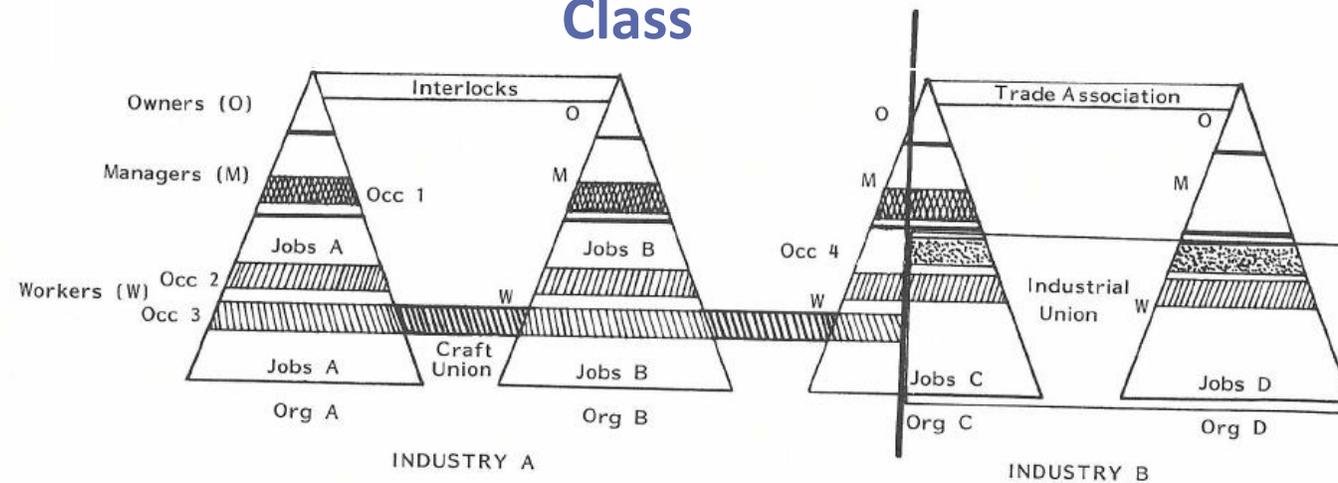
FIGURE 1. Work structures and their interrelations: Industries, organizations, occupations, classes, unions, and jobs.

Quick background on technology push

1. **Early machines and worker pushback**
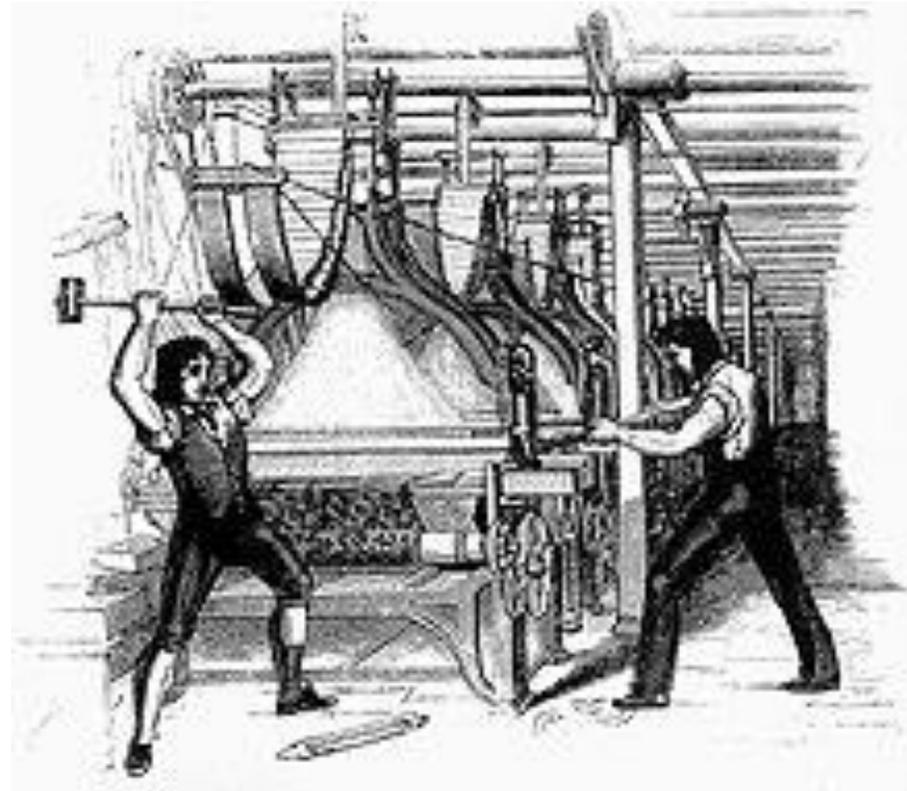
Image Source: Wikipedia entry for Luddite

Quick background on technology push

1. **Early machines and have worker pushback**

2. **(dis)Assembly line**

Image Source: Meat and You: Partners in Freedom*

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Quick background on technology push

1. Early machines and have worker pushback

2. (dis)Assembly line

3. **Taylorism and Scientific Management**
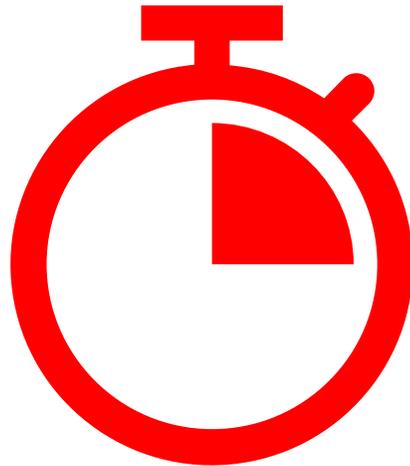
Quick background on technology push

1. Early machines and have worker pushback

2. (dis)Assembly line

3. Taylorism and Scientific Management

4. **Kaizen, 6-sigma push for efficiency, and Electronic Sweatshop**

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Quick background on technology push

1. Early machines and have worker pushb

2. (dis)Assembly line

3. Taylorism and Scientific Management

4. Kaizen, 6-sigma push for efficiency

5. **Polarization and The New Division of Labor**

Share of NC's Primary Jobs
by type of work requirements

Non-Routine Cognitive 40%
38% Routine Manual
26%
25% Routine Cognitive 24%
20%
11% Non-Routine Manual 16%

1990 1994 1998 2002 2006 2010 2014 2018
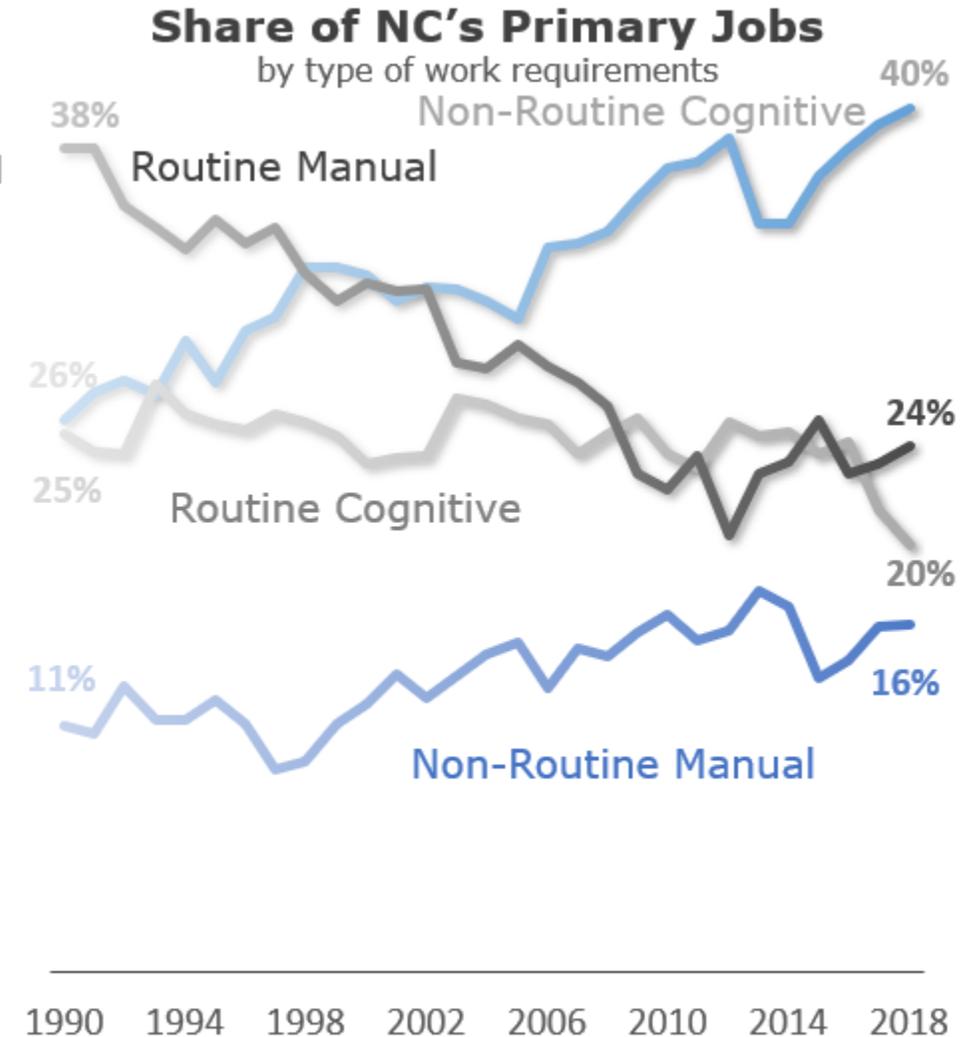
Source: Analysis of Current Population Survey

Quick background on technology push

1. Early machines and have worker pushback

2. (dis)Assembly line

3. Taylorism and Scientific Management

4. Kaizen, 6-sigma push for efficiency

5. Polarization and the New Division of Labor

6. **Future?**
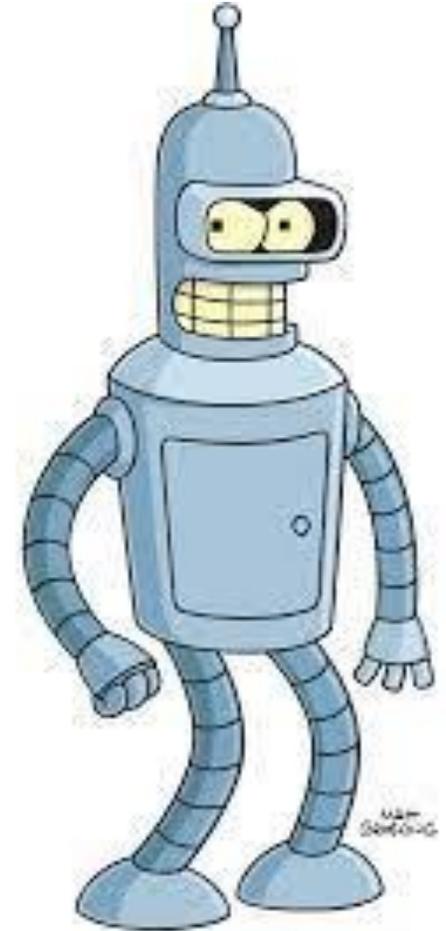
Who does the work?

1. Inequality/stratification

2. Non-standard work arrangements

3. Demography

Where is it located?

1. Domestic cities and regional advantage

2. Global features
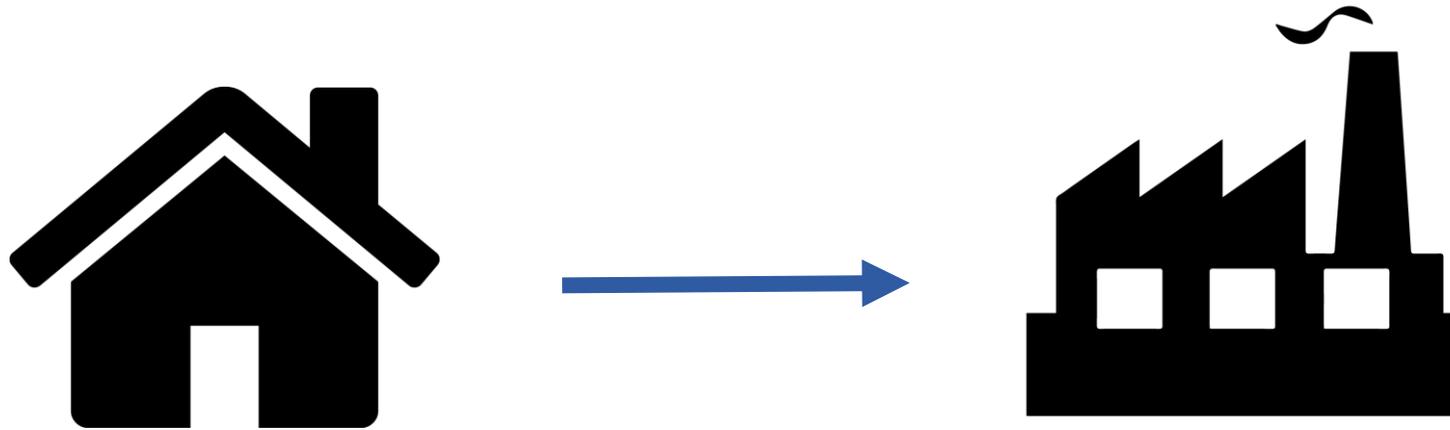
How will this impact us?

1. **How is work organized?**
   1. Watch organizations and industrial trends
   2. Look at occupational change automation potential

2. **Who does the work?**
   1. Gig work & measuring uncovered employment
   2. Watching demographic trends and declining growth in labor force

3. **Where is it located?**
   1. Considering growth of substates and places (growing industries, population growth and loss), Creative Class?
   2. Consider impact of international trends and impact on industries (Manufacturing, for instance)
   3. How to measure Work From Home?

Comments or Questions?

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Topic for December 7

Session 15: Tourism in North Carolina!

We welcome special guest Marlise Taylor from the North Carolina Economic Development Partnership to share research and information on tourism in North Carolina!

Thank You!

Jeff Rosenthal

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