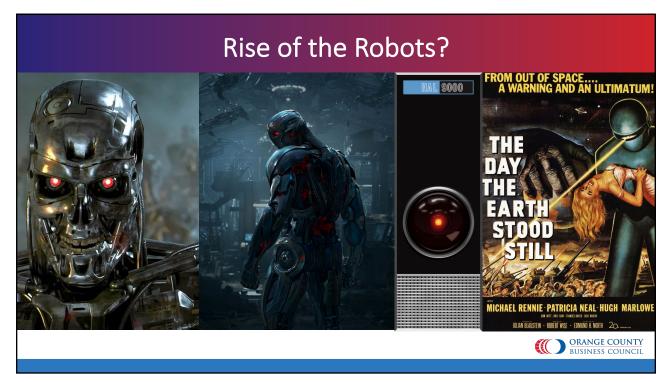
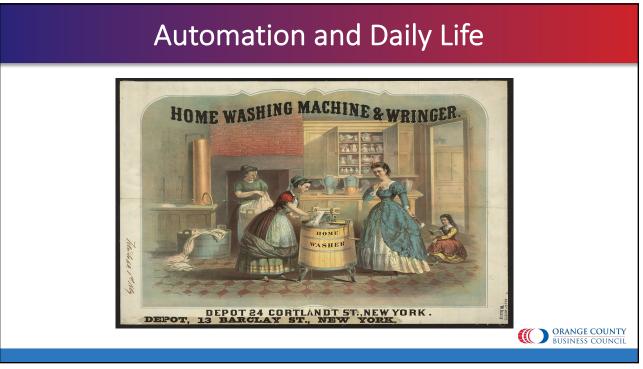
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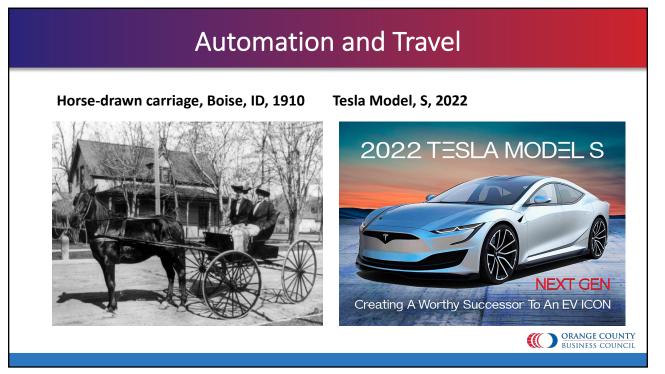
California Community Colleges Real Estate Education Center Conference

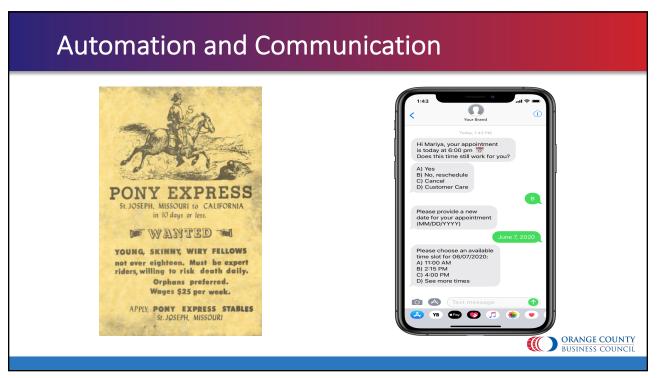
> Dr. Wallace Walrod Chief Economic Advisor April 2022











Broader Workforce Trends (Pre-COVID)

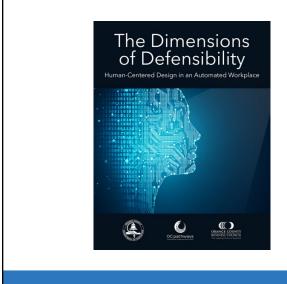


- Automation (perception and reality)
- Broader Industry 4.0: IoT, smart factories, big data
- Technology-driven obsolescence of jobs and industries: IE telephone operator and video rental

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• Rise of the gig economy

Defining Defensibility



- **Defensibility** is an occupation's resistance to being replaced by a machine.
- A score of 1 means an occupation cannot be replaced.
- Defensibility is a strategic framework that focuses on developing non-automatable skills, values and other occupational characteristics.

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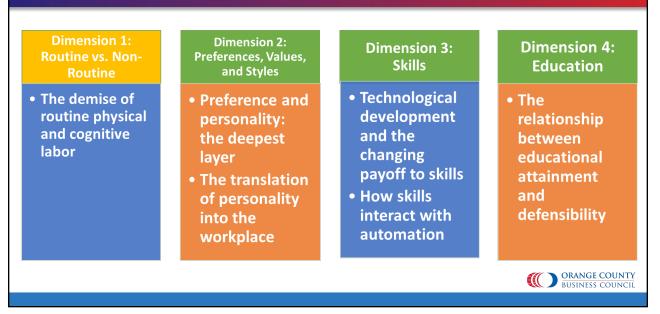
Defensibility Scores of Selected Occupations

- Aerospace Engineers (77.2)
- Lawyers (81.1)

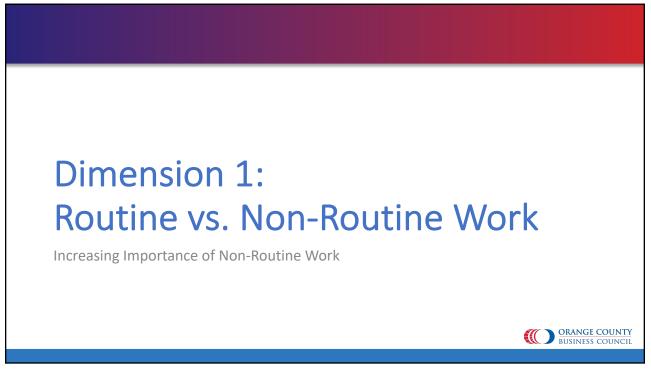
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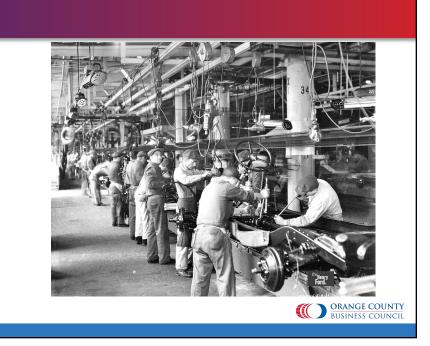
- Postsecondary Teachers (86.6)
- Public Relations Specialists (90.0)
- Accountants and Auditors (93.1)
- Camera Operators, Television, Video and Film (99.2)
- Tax Preparers (102.0)
- Parking Enforcement Workers (106.2)
- Pharmacy Technicians (109.9)
- Fast Food and Counter Workers (130.8)

Dimensions of Defensibility

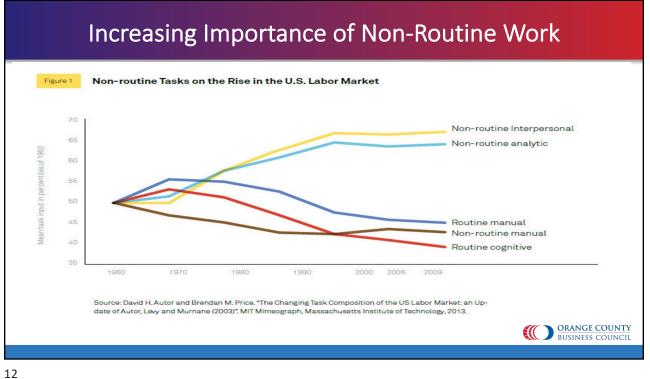


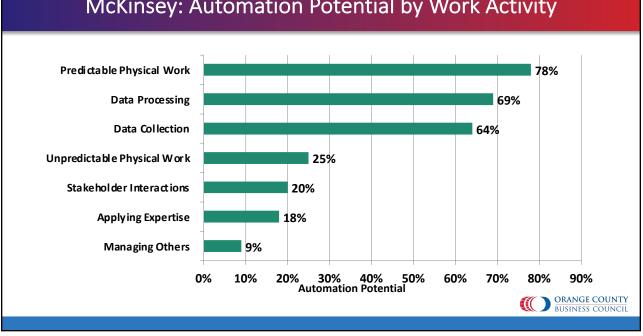




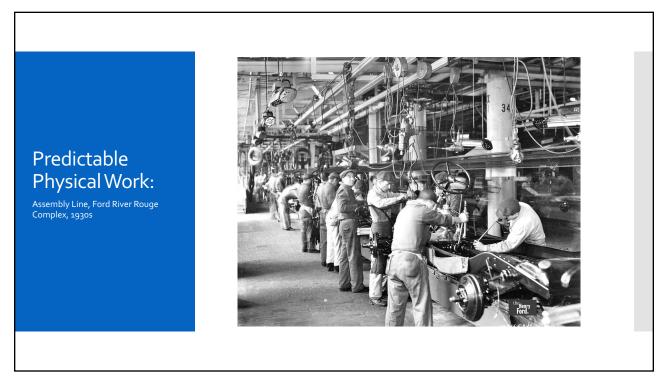


Assembly Line, Ford River Rouge Complex, 1930s



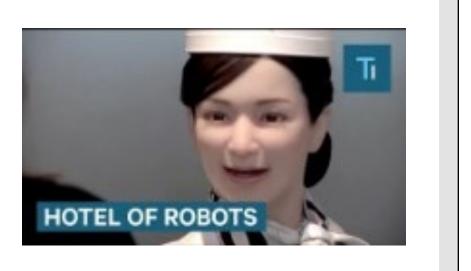


McKinsey: Automation Potential by Work Activity





Automating Routine Cognitive Work Henn-na Hotels, Japan

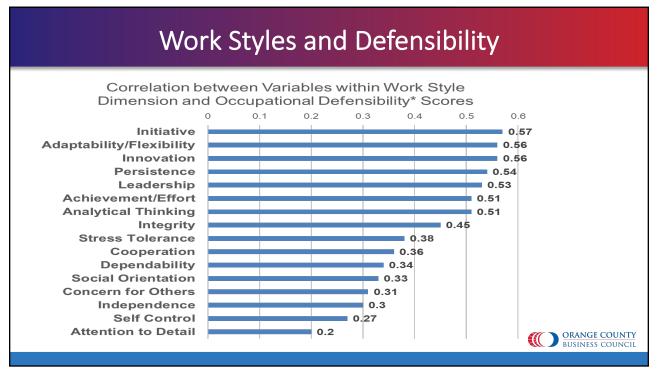


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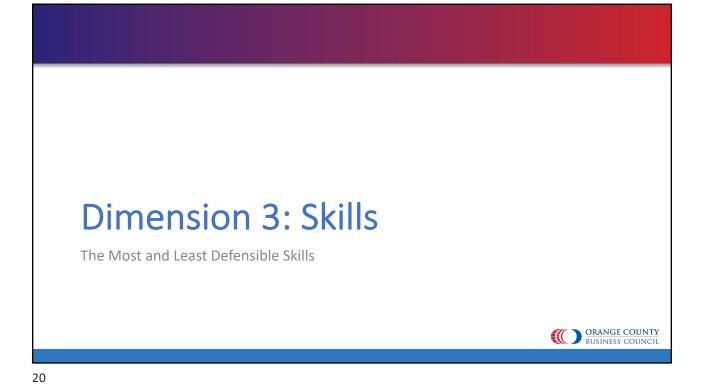
Dimension 2: Job Preferences, Values and Styles

Defensibility and Initiative, Flexibility and Innovation

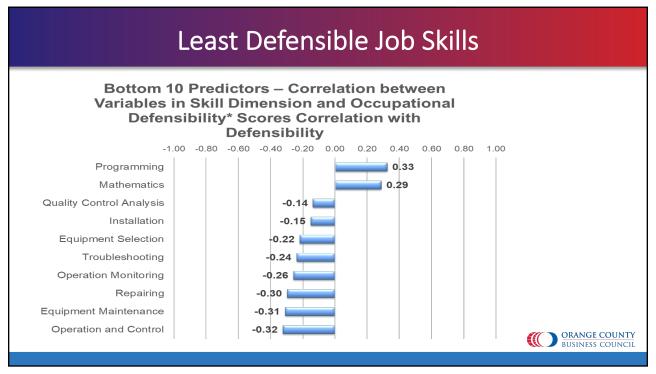


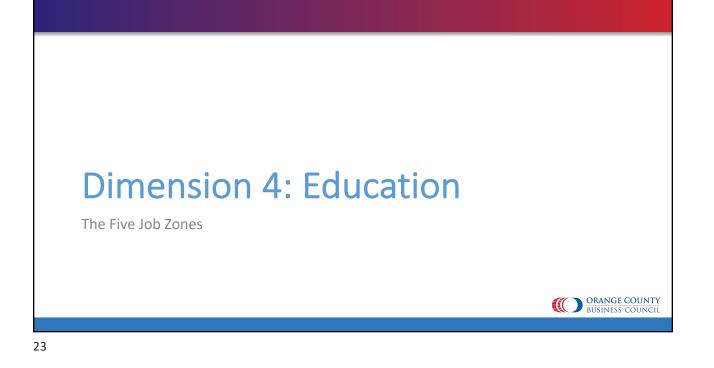
Initiative, Adaptability, Flexibility, Innovation and Persistence during COVID-19

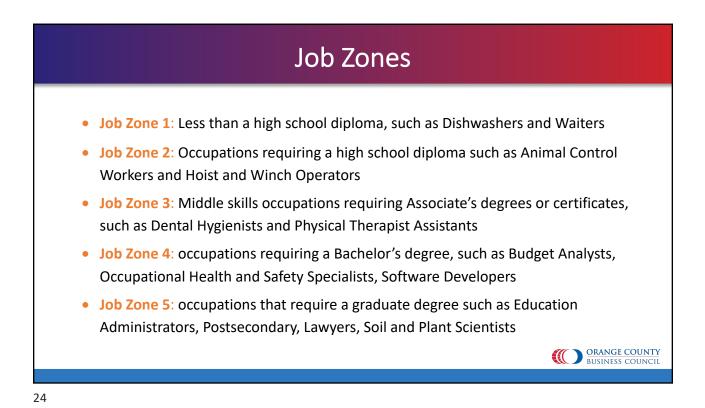


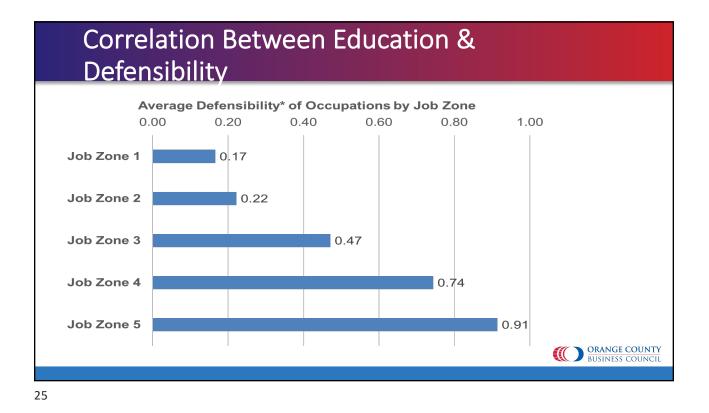








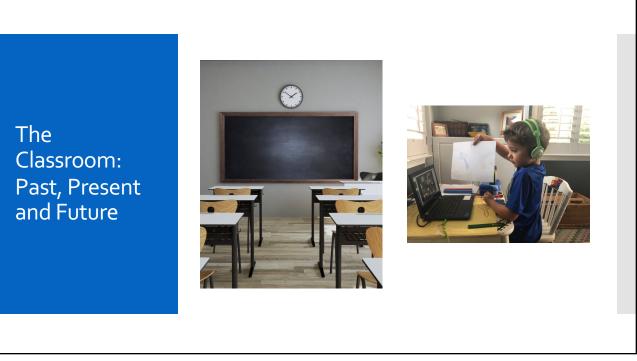




The Most Defensible Job Characteristics

- 1. Creativity
- 2. Idea Generation
- 3. Values Achievement
- 4. Values Recognition
- 5. Requires Constant Learning and Up-Skilling
- 6. Requires Teaching Others
- 7. Requires Contributions to Strategy and Planning
- 8. Requires Data Analysis and Monitoring
- 9. Values Working Conditions
- 10. Requires Coordinating with Others

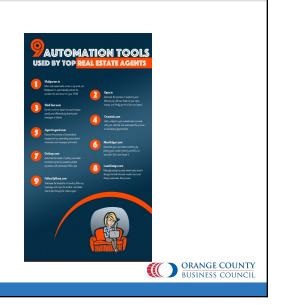
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The Role of Community Colleges

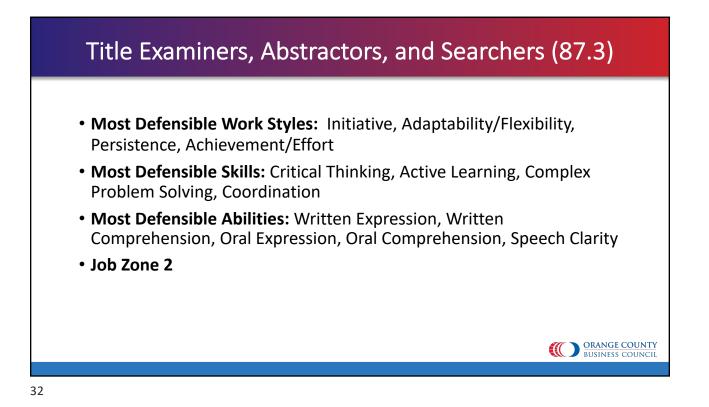
 How can Community College real estate programs prepare students for success in an increasingly automated workplace?



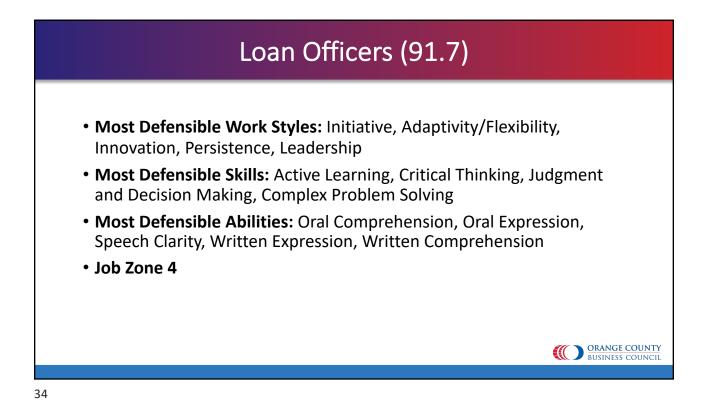
















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- Most Defensible Work Styles: Innovation, Initiative, Adaptability/Flexibility, Persistence, Leadership
- Most Defensible Skills: Active Learning, Critical Thinking, Judgment and Decision Making
- Most Defensible Work Activities: Thinking Creatively, Developing Objectives and Strategies
- Most Defensible Abilities: Oral Comprehension, Oral Expression, Speech Clarity, Written Comprehension, Written Expression
- Job Zone 4

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Summary: Key Defensible Real Estate Skills & Abilities

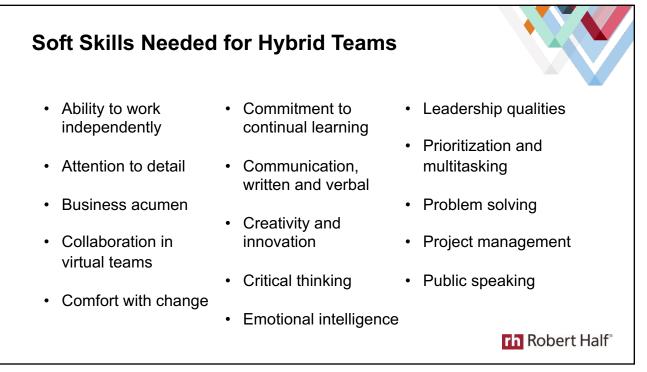
Skills

- Active Learning
- Critical Thinking
- Judgment and Decision Making
- Complex Problem Solving

Abilities

- Speech Clarity
- Written Expression
- Written Comprehension
- Oral Expression
- Oral Comprehension





Final Thoughts

- Community College programs can make a major difference – by developing key defensible Real Estate skills
- Labor market information is a vital tool for Community Colleges
- Automation may take over some activities, but Real Estate occupations have many defensible aspects.