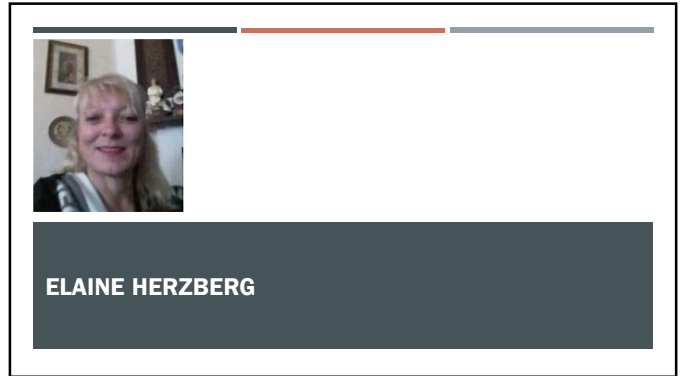
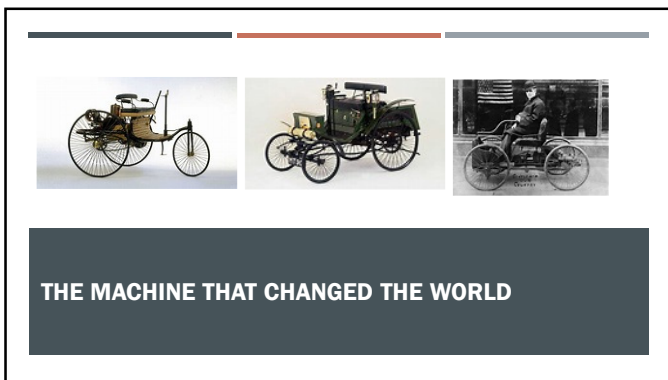




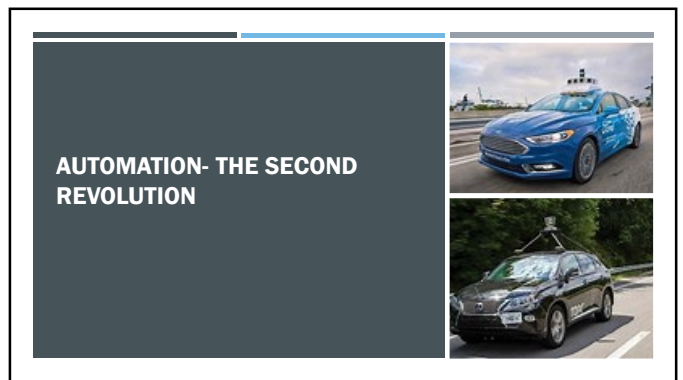
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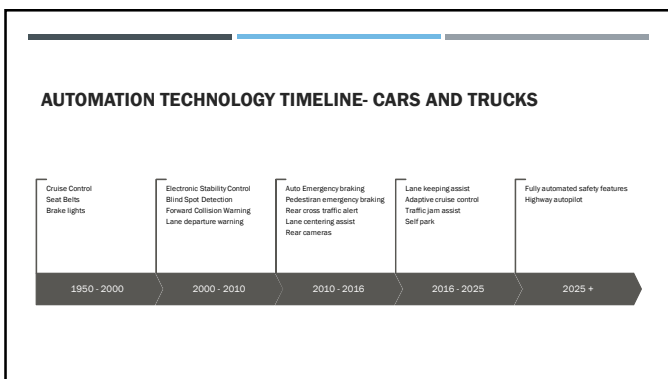
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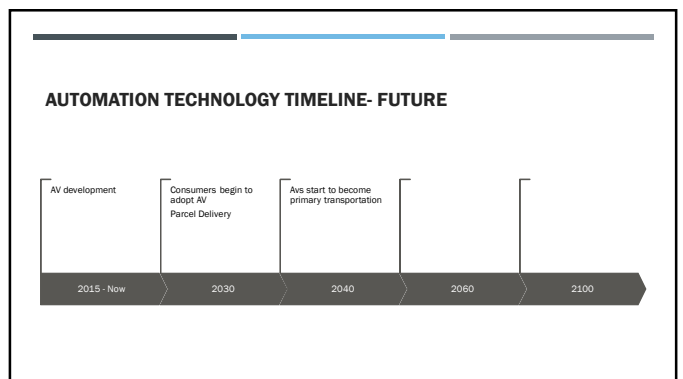
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5



6


SIX LEVELS OF DRIVER ASSISTANCE TECHNOLOGICAL ADVANCEMENTS

- Level 0- No Automation
- Level 1- Driver Assistance (cruise control)
- Level 2 Partial Automation (acceleration and steering)
- Level 3 Conditional Automation - (auto-pilot in an aircraft)
- Level 4 High Automation - performs all functions
- Level 5- Full Automation

Society of Automotive Engineers

7

MINNEAPOLIS AIRPORT



8



DISNEY PEOPLE MOVER

9

PILOT ASSIST

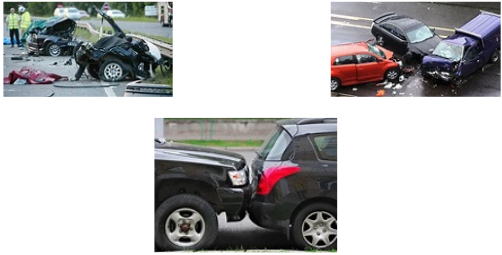


VOLVO AND CADILLAC



10

THE CASE FOR AUTONOMOUS VEHICLES



11

THE CASE FOR AUTONOMOUS VEHICLES

- 94% of serious crashes- human error
- 96% of workplace injuries attributed to unsafe behavior - DuPont
- 6.9 billion hours of traffic in 2014 - Estimate free up 50 minutes a day
- \$212-Billion in Accident damages-90% reduction
- 36560 died in 2018 in U.S.
- 595 died in 2019 in Wisconsin

NHTSA and McKinsey

12

THE CASE AGAINST AUTONOMOUS VEHICLES

13

EVOLUTION OR REVOLUTION?

14

THE TECHNOLOGICAL FALLACY

"Society develops technology to address the changes that are taking place within it."
 Mark Kulansky, *Paper, Paging Through History*

15

THE CAMEL PAINT BRUSH STORY

16

SOCIETY'S BENEFITS

- More Choices for Consumers
- Changing (Improving?) the Nature of Work
- Changing the fortunes of Companies

Womack: The Machine that Changed the World

17

DULL - DANGEROUS - DIRTY

18




JOB LOSS

SOCIETAL IMPACT

This slide features a dark grey background with the text "SOCIETAL IMPACT" in white. On the left, there are two images: the top one shows a triangular warning sign with an exclamation mark and the words "JOB LOSS" below it; the bottom one shows a group of people protesting, with one person holding a sign.


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LUDDITES

This slide features a dark grey background with the text "LUDDITES" in white. The image shows a scene of industrial machinery, likely a textile mill, with large gears and a person in the background, representing the Luddite movement.

20




**LESS ACCIDENTS
LESS PARKING SPACES
MORE OPPORTUNITIES**

This slide features a dark grey background with the text "LESS ACCIDENTS", "LESS PARKING SPACES", and "MORE OPPORTUNITIES" in white. On the left, there are three images: a modern glass building, a busy street with traffic, and two people sitting at a table in a meeting.

21


WHAT IS NEXT?



This slide features a white background with the text "WHAT IS NEXT?" in black. The image shows a small, white, autonomous car with two blue seats, driving on a street.

22

TRUCKS WILL SOON START TO BE AUTOMATED



This slide features a white background with the text "TRUCKS WILL SOON START TO BE AUTOMATED" in black. The image shows a white semi-truck with two men in blue shirts and hard hats standing next to it, looking at a laptop.

23



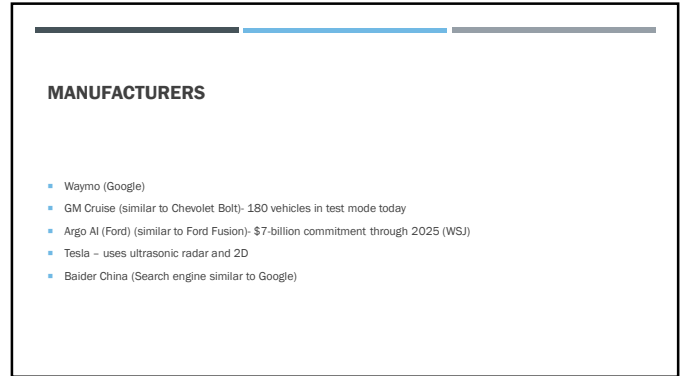
BIG CHANGES ARE COMING

This slide features a dark grey background with the text "BIG CHANGES ARE COMING" in white. On the left, there are two images: the top one shows a white semi-truck at night, and the bottom one shows a white autonomous truck with a large sensor dome on top.

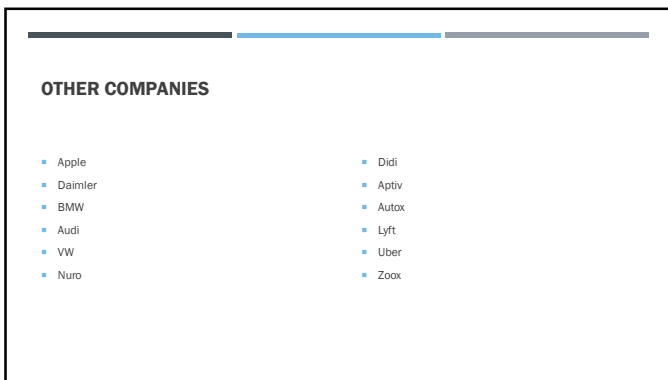
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25



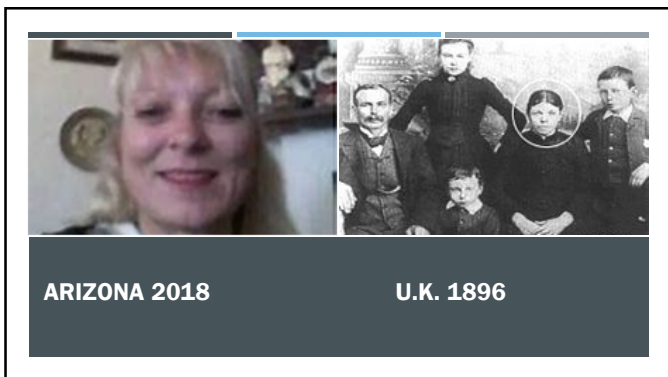
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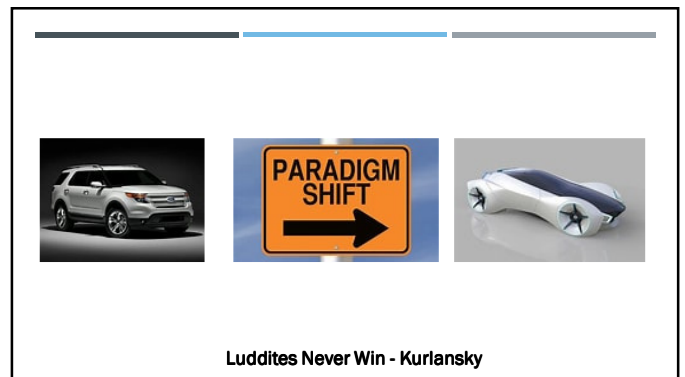
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28



29



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