

The Future of Work: What will employment look like in the future?

Professor Jarrod Haar, Ngati Maniapoto, Ngati Mahuta

Professor of Human Resource Management, Dept. of Management





Today: UBER driverless car

Auto industry invited to test driverless cars in New Zealand

6:19 AM Thursday Jun 1, 2017

He also revealed that the Government already was in talks with an unnamed autonomous carmaker about coming to New Zealand for a pilot project.

The minister said New Zealand had special advantages that could appeal to the industry. One he cited was a quirk in New Zealand's transport law that meant there was no requirement for vehicles to have a driver.

This oversight, which he said was simply an odd feature of the law, could work in New Zealand's favour as it meant the legal framework for driverless cars did not require wholesale reform. Germany is one of the few modern economies that has passed a law allowing driverless cars to use public roads, though the industry still has to satisfy other standards and regulations before such vehicles could take to the streets.



Today: driverless car tests in NZ?

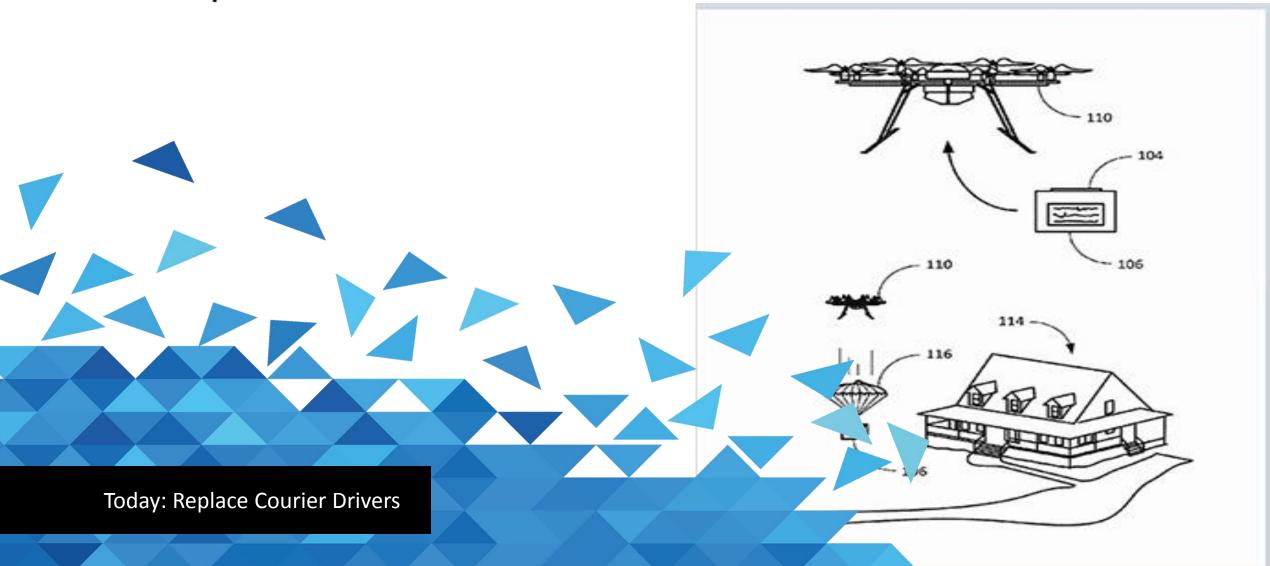




Imagine the removal of this!!



Amazon patents shipping label with built-in parachute for drone deliveries





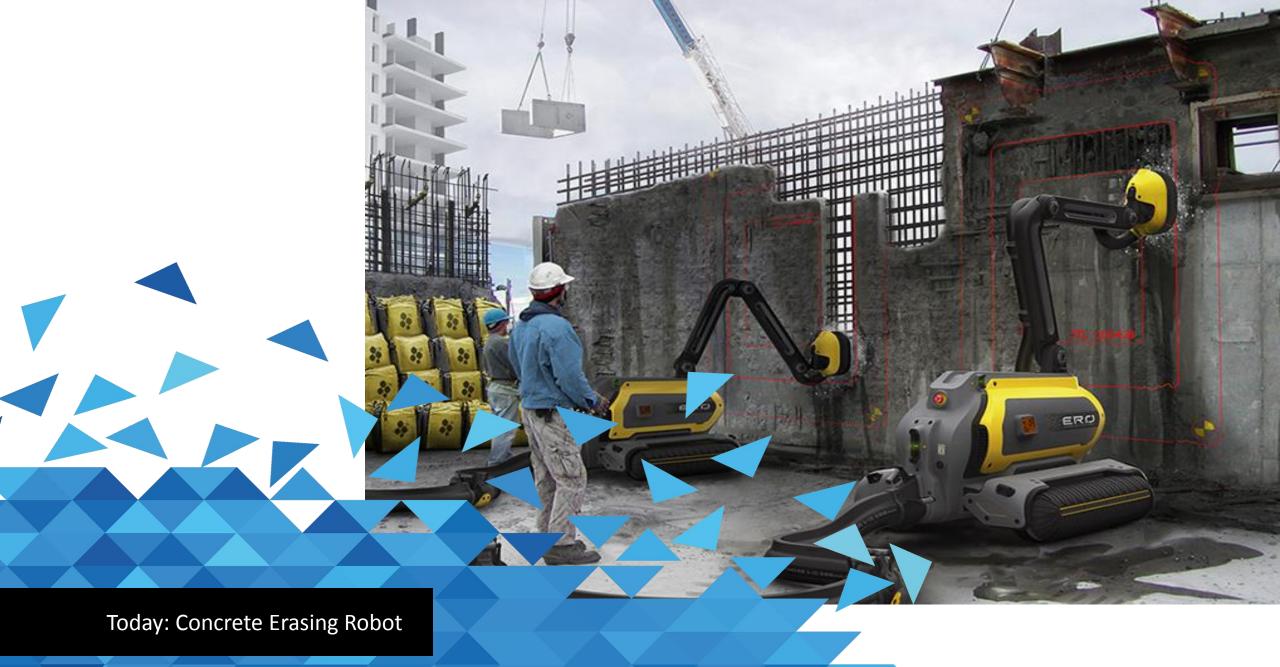


In the US, 10 million
Truck driver and
transportation
(taxi's, courier
driver) jobs at risk

2 million in Germany...



So, just transportation, right...?





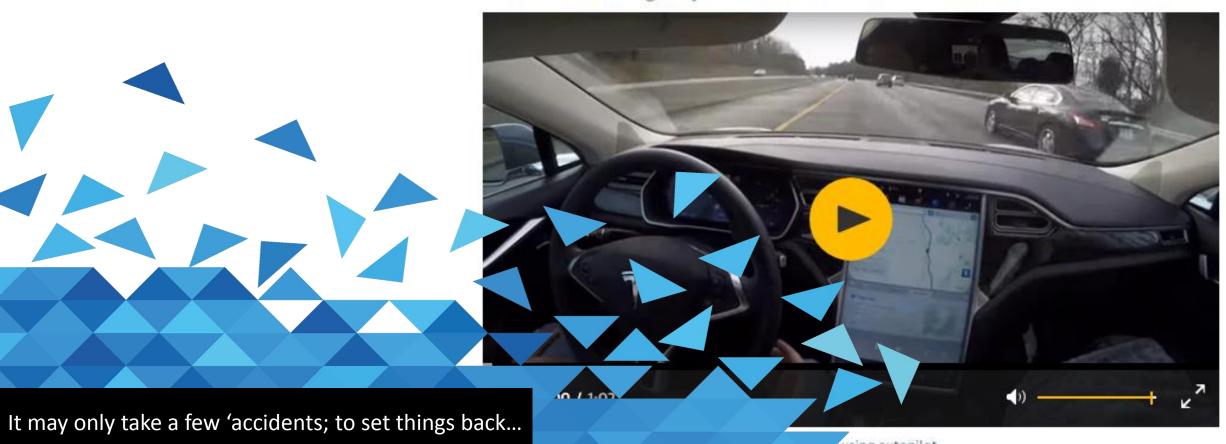




So, its all a given then, right?

Tesla driver killed while using autopilot was watching Harry Potter, witness says

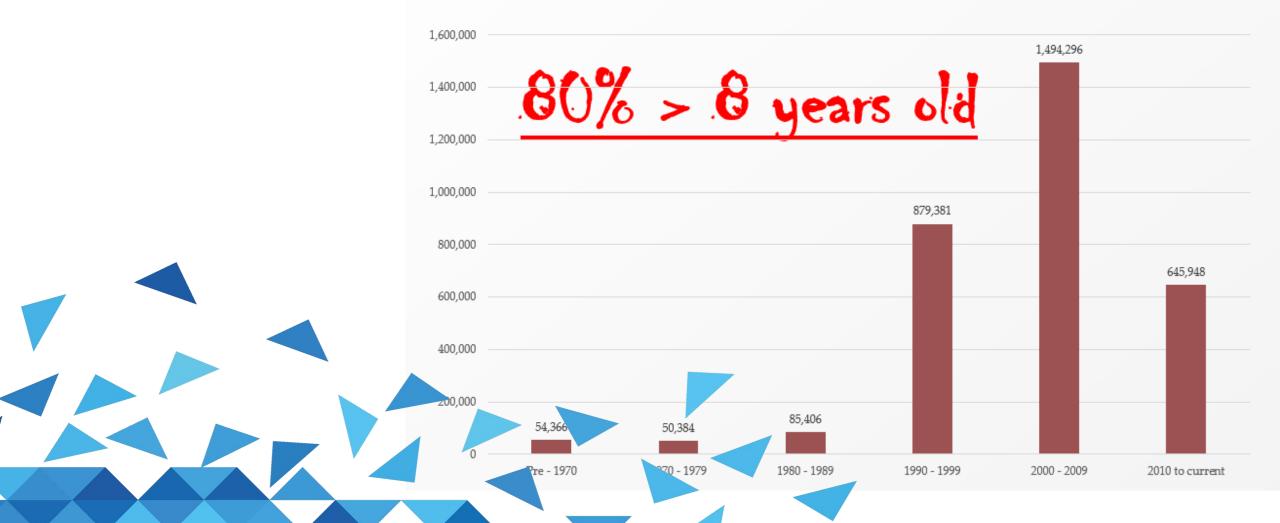
Driver in first known fatal self-driving car crash was also driving so fast that 'he went so fast through my trailer I didn't see him', the truck driver involved said



using autopilot



Fate of the Furious (Movie)

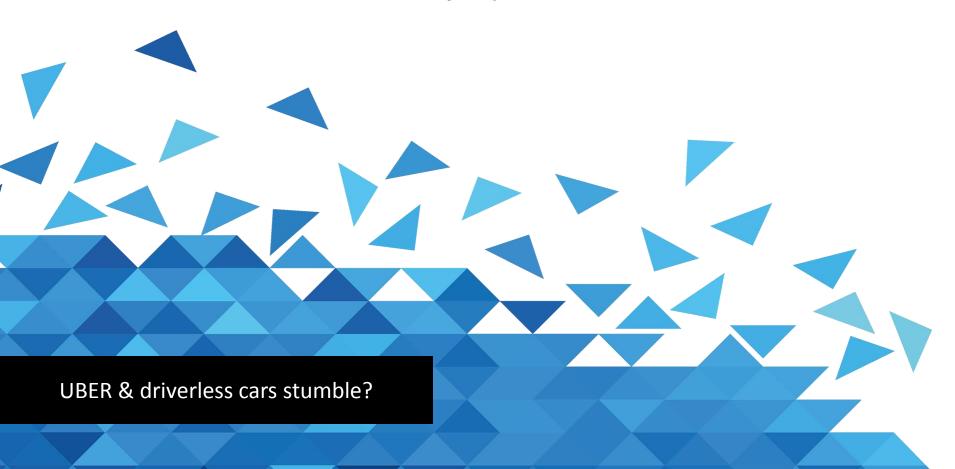


NZ passenger cars and vans (3.2million) by age

Uber fires star engineer, Anthony Levandowski, at the center of self-driving car battle

By Elizabeth Dwoskin, Craig Timberg

2:48 PM Wednesday May 31, 2017





So, not so simple then...

Other technology changes to note...

- Robot farming from 180km away!
- Robot milking
- Robot firefighters
- Drones with life preservers
- Robotic tractors
- Drones with plant chemical sprays for crops
- We already have self-service technology at McDonald's, Pak n Save...



Robotics in Manufacturing (60k jobs!)



47%...

A study of occupations and job types suggest 47% of jobs are 'High Risk' of being replaced by Technology, Robotics, & Algorithms etc.



A logical response to this would be...

Take Home Points

- Technology change is already happening
- More WILL happen
- But, we don't KNOW what will happen around jobs.
 Definitely changes in manufacturing and food service but other changes can be in anything from transportation, building, to law and accounting!
- These changes WILL create new opportunities we hope! and indeed, these new opportunities might be extensive?!

Take Home Points

- Interesting, these futurists do suggest training in the following:
- 1. Adaptability and flexibility
- 2. Communication skills
- 3. Social intelligence (connect to others)
- 4. Cross-cultural skills
- 5. Problem-solving skills & novel thinking
- 6. Handling incomplete and complex information

Take Home Points

- 7. Critical thinking
- 8. Trans-disciplinary skills
- Team working (cooperation & collaboration)
- 10. Computational thinking (analytics)
- 11. New media literacy

Other factors? Coding experience! Future work might be your current skill/specialty AND some technology angle...