



VWC
2016
EDUCATIONAL
CONFERENCE

A long time ago at a convention center far, far
away...

VWC Educational Conference

Episode I

Our story starts in Santa Fe, New Mexico...

IAIABC National Convention 2016



Some astounding statistics provided by the IAIABC:

- From 1914 to 2014 the number of workplace fatalities has fallen by 500% while the workforce has more than tripled
- Reported workplace injuries and illnesses are at the lowest point on record

Episode I continued

From 1914:

- Every 16 seconds a workman is injured
- Every 15 minutes a workman is killed

From 2014:

- Every 30 seconds a workman is injured
- Every 2 hours a workman is killed
- 3.2 cases per 100 workers

These numbers would indicate that workplaces have become increasingly more safe since the 'Grand Bargain' was struck.

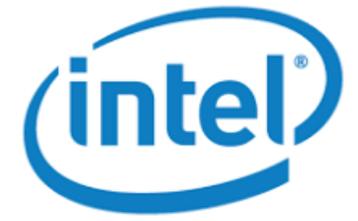
TECHNOLOGY



Episode II

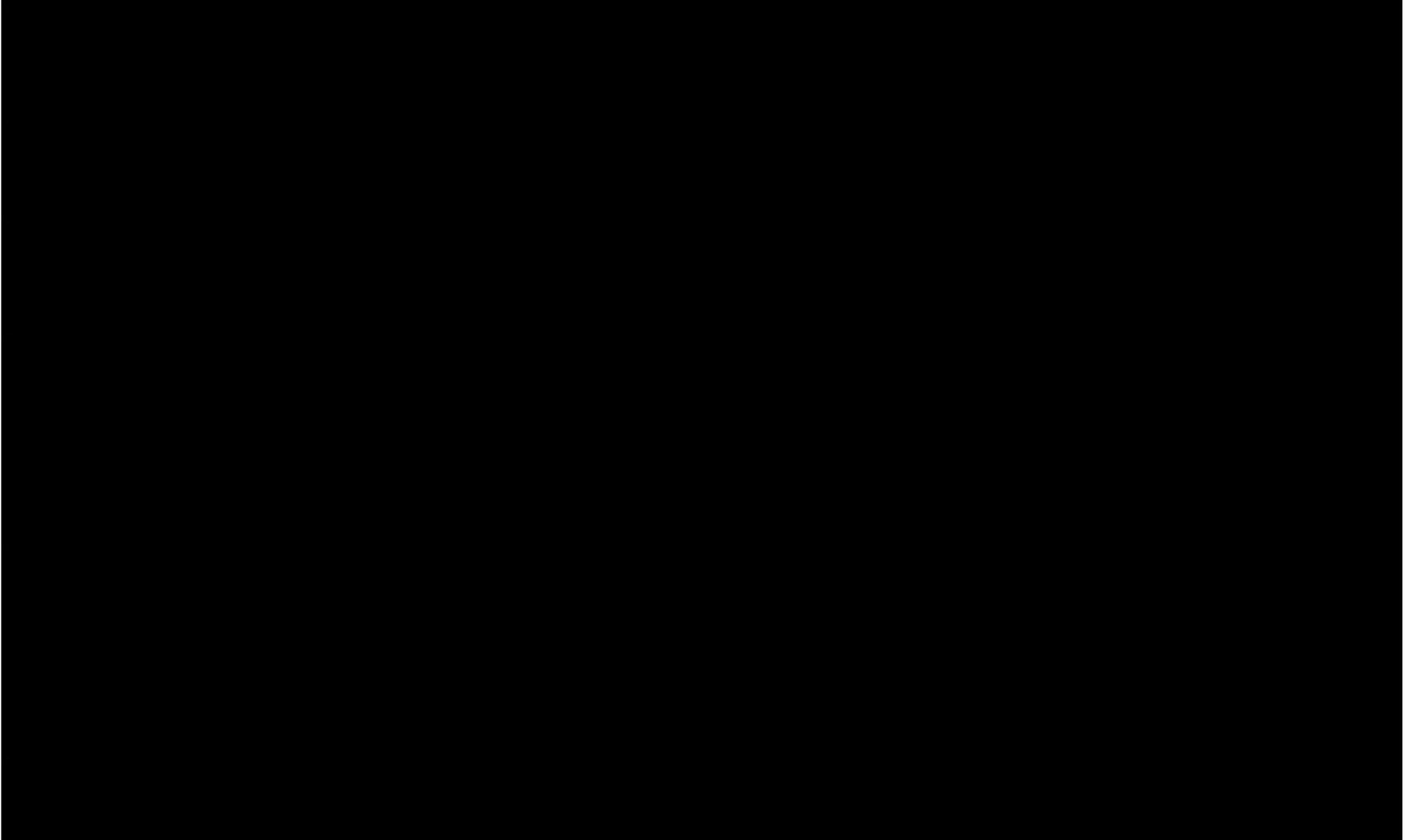
Our mission after returning home was to reach out and explore technologies that are and will be impacting the Workers' Comp industry

We looked at a vast array of industries to see if we could find the most innovative, effective, and cool technologies.





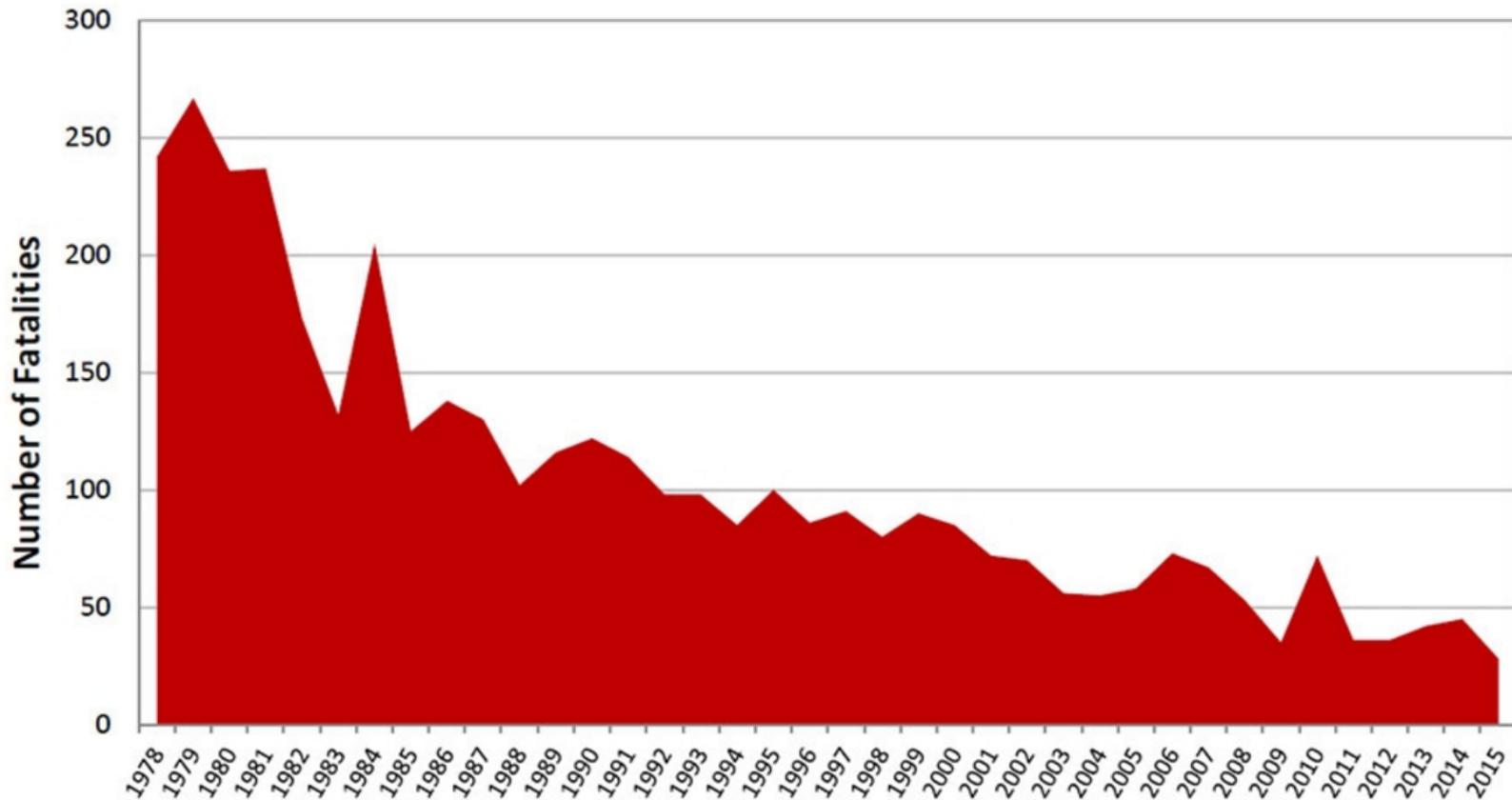
Mining Technology



Mining Technology

Data from the Mine Safety and Health Administration (MSHA) highlights a drastic drop in mining fatalities since 1978

U.S. Mining Fatalities CY 1978-2015

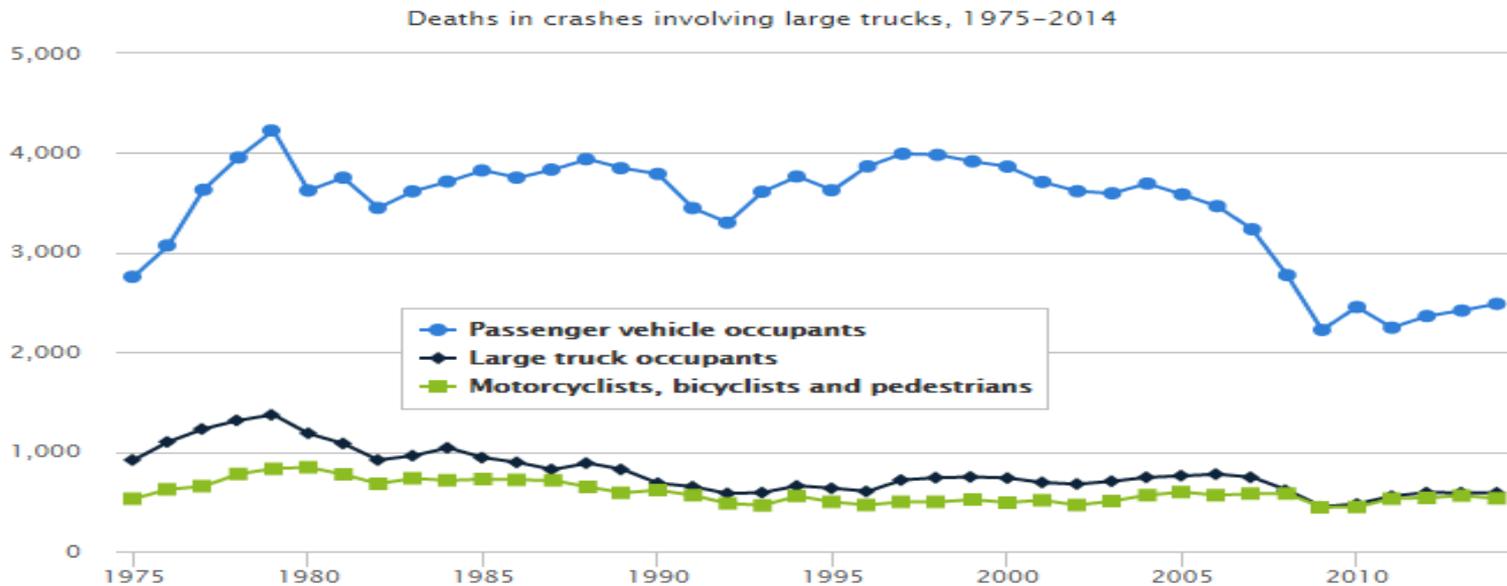


Transportation (Large Trucks)



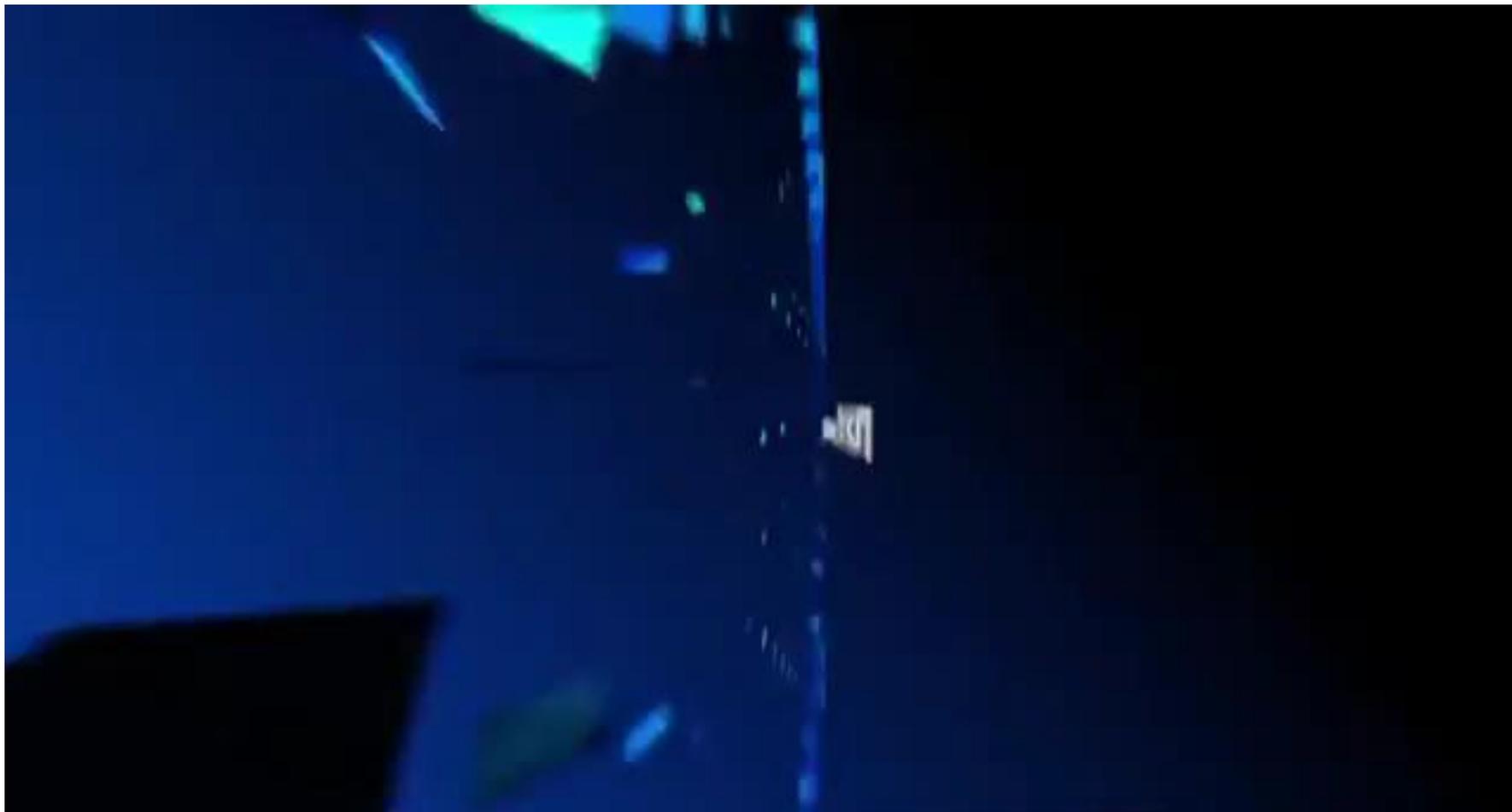
Transportation (Large Trucks)

The Insurance Institute for Highway Safety (IIHS) has reported that a total of 3,660 people died in large truck crashes in 2014. Sixteen percent of these deaths were truck occupants, 68 percent were occupants of cars and other passenger vehicles, and 15 percent were pedestrians, bicyclists or motorcyclists.



Law Enforcement (Drones)

Unmanned Aerial Vehicle



Law Enforcement

From the National Law Enforcement Memorial Fund

Deaths, Assaults & Injuries

Over the Past Decade (2004-2013)

YEAR	DEATHS*	ASSAULTS**	ASSAULTS WITH INJURIES**
2004	165	59,692	16,737
2005	163	57,820	16,072
2006	156	59,396	15,916
2007	192	61,257	15,736
2008	148	61,087	15,554
2009	125	57,268	14,948
2010	161	56,491	14,744
2011	171	55,631	14,798
2012	126	53,867	14,678
2013	107	49,851	14,565
Average Per Year	151	57,346	15,375

* Source: National Law Enforcement Officers Memorial Fund

** Source: Federal Bureau of Investigation



Law Enforcement (Body Cameras)

Law Enforcement

From the Journal of Quantitative Criminology

- Yearlong body camera research study conducted at the Rialto (CA) PD, a mid-size agency that serves a population of 100,000 residents
- For three years prior to the research study, the PD posted roughly 65 use-of-force incidents per year. (UOF was considered “physical force that is greater than basic control or ‘compliance holds’ “and included OC spray, baton strikes, TASER deployment, K9 bites, or firearms.) In the year before the experiment, 24 citizens lodged grievances against officers.
- During the experimental period, the UOF rate dropped significantly, to 25 incidents total, a reduction of 58 percent to 64 percent compared to previous years. Only eight of the incidents occurred when officers were wearing body cams. In other words, during the test period the likelihood of force being used was roughly doubled when cameras were not deployed.
- This “self-awareness effect” caused by the camera’s “neutral third eye” affects the psyches of officers and suspects alike, prompting suspects to “cool down” aggressive actions and deterring officers “from reacting with excessive or unnecessary force.” Neither party wants to “get caught engaging in socially undesirable behavior that may have costly consequences.”

Law Enforcement (Social Media)



Medical Services

We're far away from receiving the same type of medical treatment Luke Skywalker looks like he has the world...

- Virtu
- Augm
- Near
- Hum
- Biop



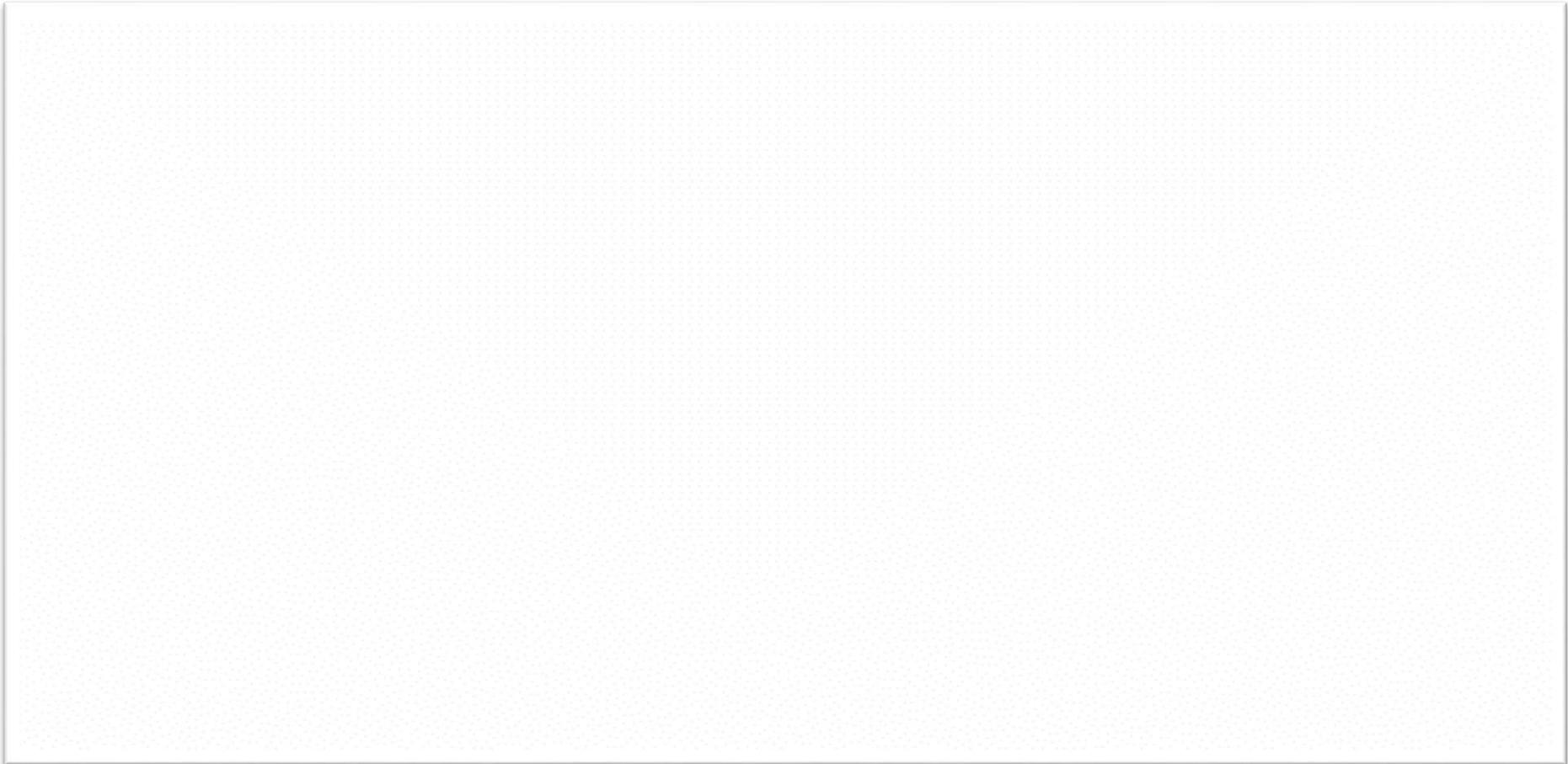
Medical Services Cont.

Augmented Reality (Microsoft Hololens)



Medical Services Cont.

Near-Artificial Intelligence (IBM's Watson)



Medical Services Cont.

Humanoid Robots (Boston Dynamics)



Medical Services Cont.

After watching that you've got to think of this...



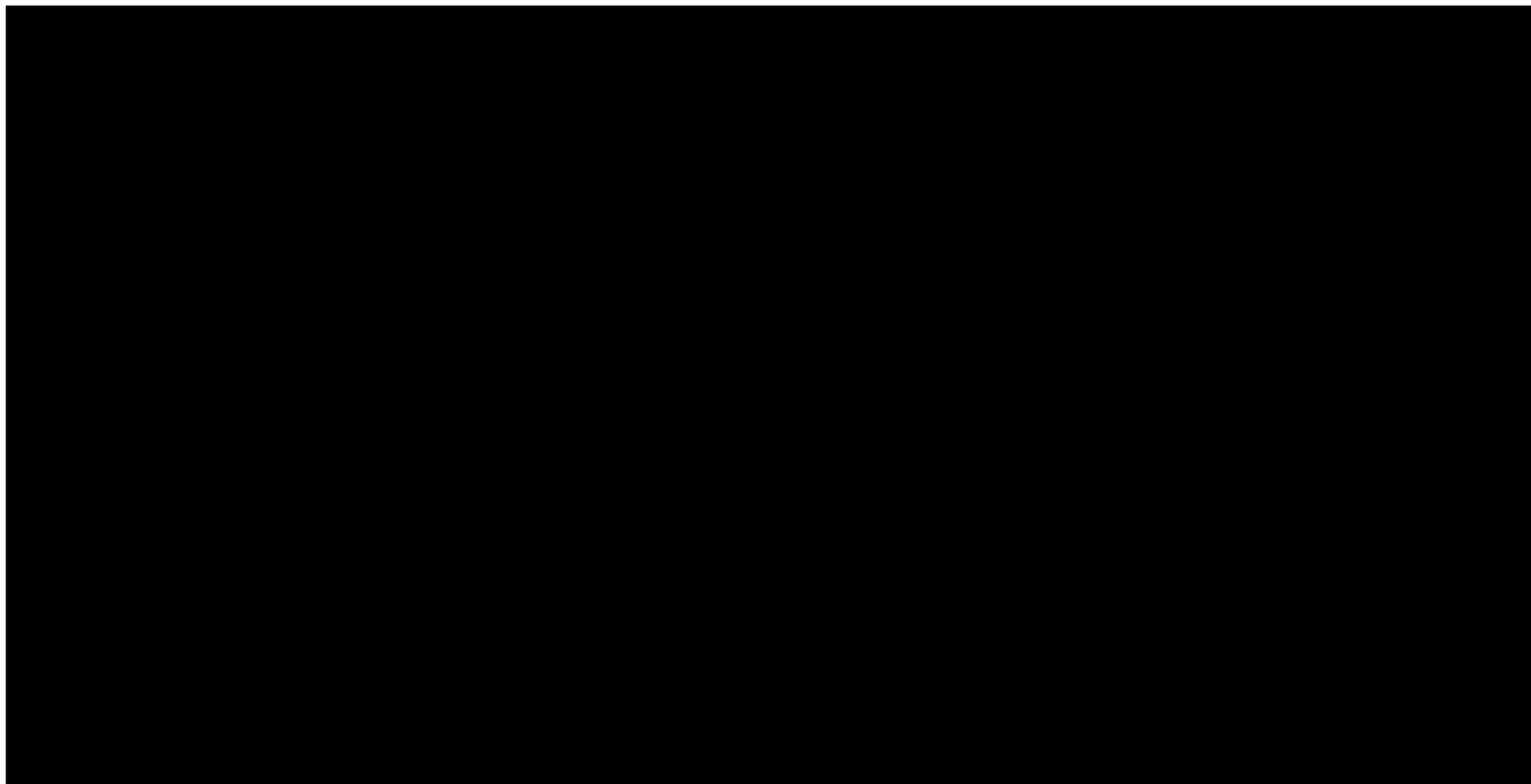
Medical Services Cont.

Humanoid Robots (Honda's Asimo)



Medical Services Cont.

Bioprinting (Organovo)



Just Cool!

Questions?

Final Thoughts

Mission

Accomplished!