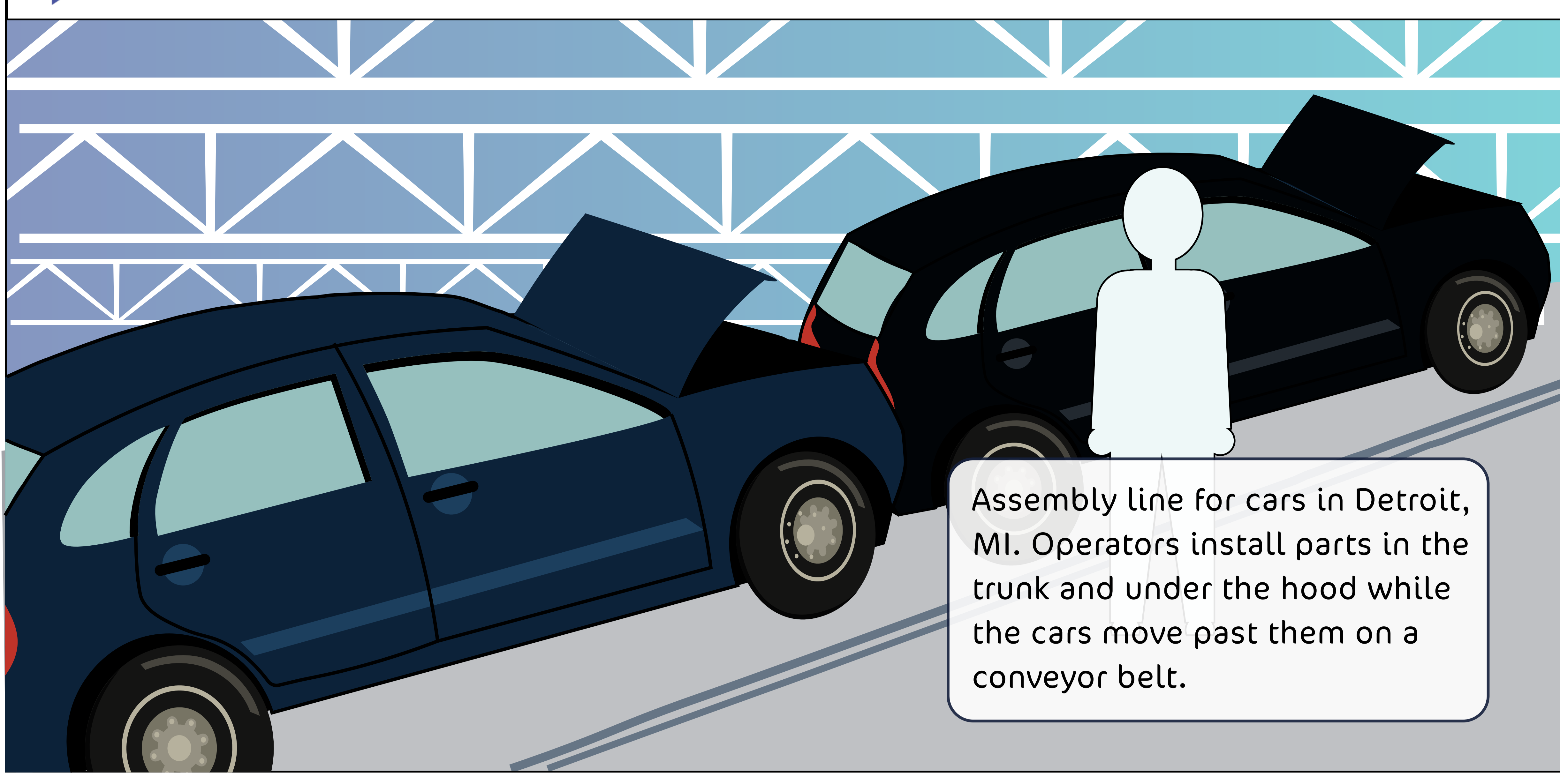


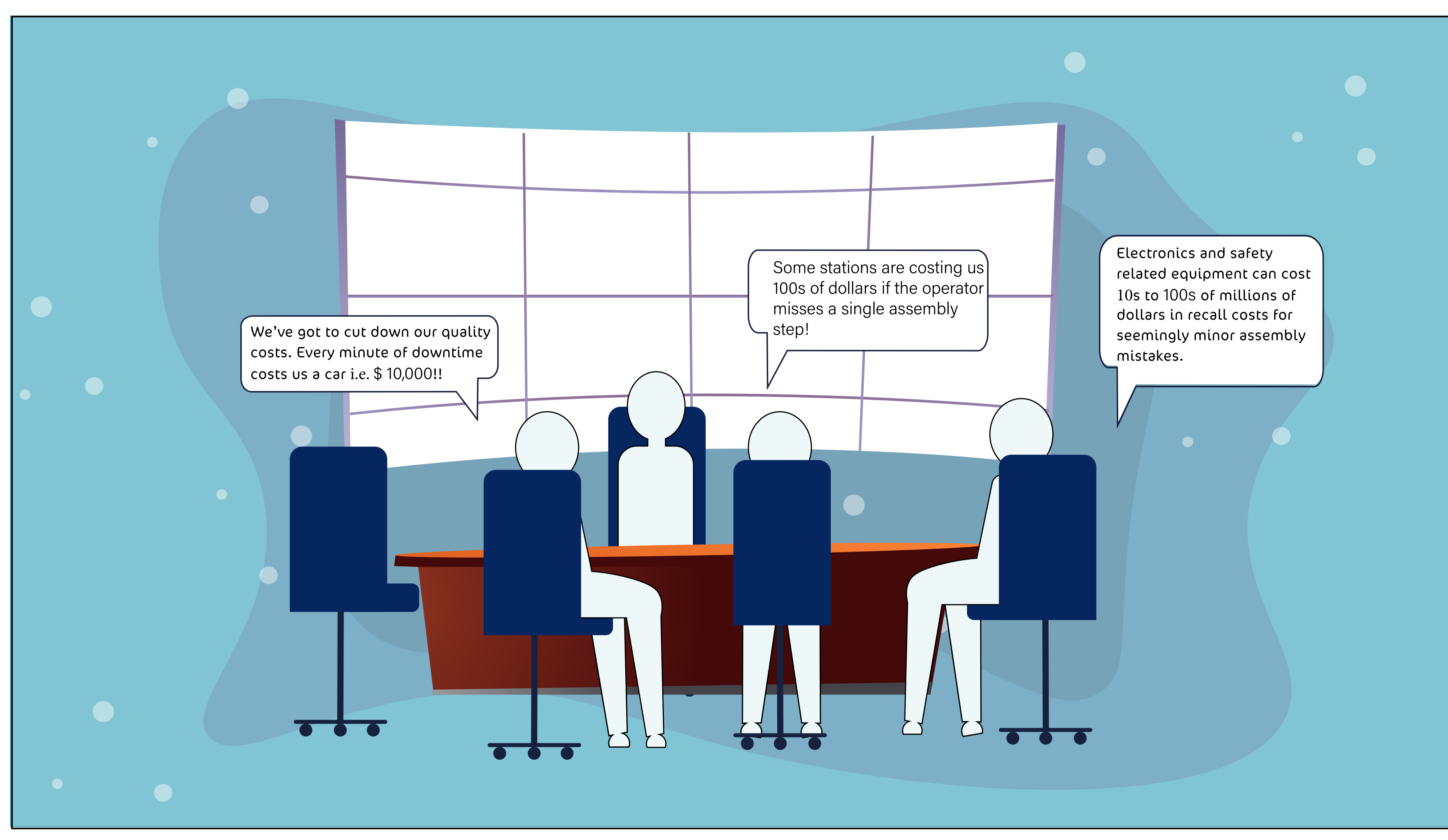


RetroActivity: The Industry 4.0 comics

Episode 2: Moving assembly line for car assembly



Assembly line for cars in Detroit, MI. Operators install parts in the trunk and under the hood while the cars move past them on a conveyor belt.



We've got to cut down our quality costs. Every minute of downtime costs us a car i.e. \$ 10,000!!

Some stations are costing us 100s of dollars if the operator misses a single assembly step!

Electronics and safety related equipment can cost 10s to 100s of millions of dollars in recall costs for seemingly minor assembly mistakes.



Jack, its tough for sure! We already have smart tools connected to our MES system. But how do you mistake-proof steps performed by hands, for instance, verify whether a tonneau cover was installed and with the right color?

Ally, How can we put quality checks in-place without hurting takt time on a moving line?



Nah! Those solutions only work when the car is at a static location relative to the camera, and when there's only one operator in the camera view! They can't track tool usage and also fail when several steps are done in compact regions.

Can we just apply a human motion tracking system to understand when the operator's hands are at the right position on the vehicle?



These cars are on a moving line with multiple operators moving around.

We need a solution that can visually interpret the interactions between the operators, vehicles, and any parts or tools.

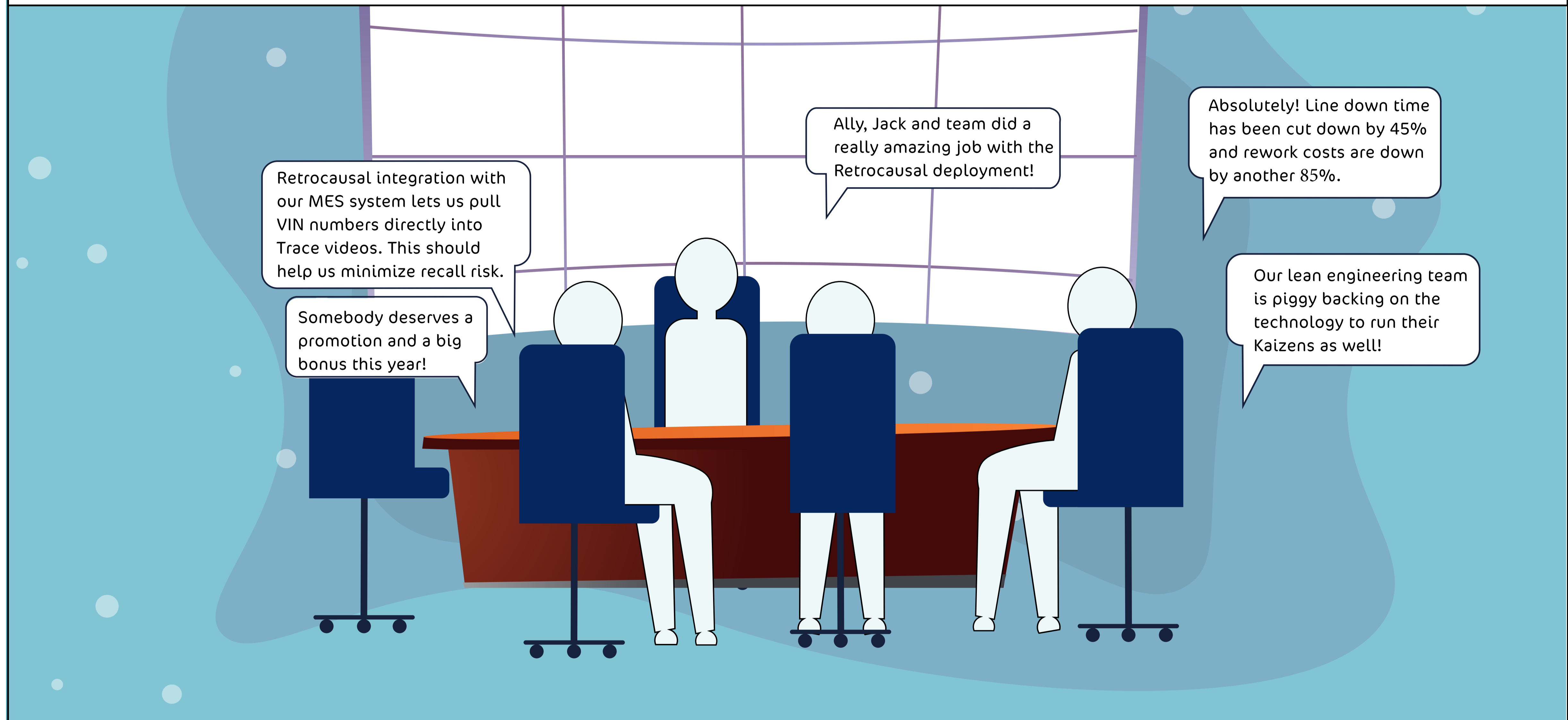


I have figured out exactly what we need!

Retrocausal has such a solution. Its fast to deploy, takes care of operator privacy by blurring faces, and even connects with smart tools.

Let's get it deployed asap!

Just two months later...



Retrocausal integration with our MES system lets us pull VIN numbers directly into Trace videos. This should help us minimize recall risk.

Somebody deserves a promotion and a big bonus this year!

Ally, Jack and team did a really amazing job with the Retrocausal deployment!

Absolutely! Line down time has been cut down by 45% and rework costs are down by another 85%.

Our lean engineering team is piggy backing on the technology to run their Kaizens as well!



Learn more : www.Retrocausal.ai