



RAILROAD INNOVATION

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WHY THE RAILROADS WERE BUILT, HOW IT WORKS

- The railroads were built to make it easy for cargo, people and crops to be moved around the country, or continent.
- The railroads made it simple for things to get around, but now we have faster ways like planes.
- Steam engine trains still are in use today, but more for product use.
- Most major cities are getting a new speedy train system (skytrain) which runs on electro-magnetic tracks, the current of electricity is what makes the train move.



WHAT CHANGED RAILROADS?

- One thing that changed railroads was the invention of cars, it made it so people didn't need to take a train to get places as much.
- Battery powered and electric trains are becoming more common, but for most trains they are still powered by coal.
- We have taken railroads under, and aboveground and made them faster than



THE FUTURE OF RAILROADS/TRAINS

01

Augmented Reality takes over for train conductors, and can detect when something is in its path or near the train. It will also make sure there are less delays, robots don't need to stop for a break.

02

Monitors are on the train to know its location, where it can be accessed by your phone to track where it is, as well as monitors to make sure the train is still in good health.

03

On public trains, they will begin to put wifi routers, which can be used for free while you ride the train.

BIBLIOGRAPHY

- “How Technology Drives the Future of Rail.” *Association of American Railroads*, 29 Jan. 2020, www.aar.org/article/the-future-of-rail/.
- Pererro, Megan. “Innovations In Railway Technology.” *StackPath*, 13 Sept. 2019, www.masstransitmag.com/technology/miscellaneous/article/21095345/innovations-in-rail-technology.
- Upton, Luke. “6 Innovations Which Are Shaping the Future of Rail and Metro.” *Voestalpine*, 19 July 2017, www.voestalpine.com/blog/en/mobility/railways/innovations-which-are-shaping-the-future-of-rail-and-metro/.
- Vella, Heidi. “Future Visions - the UK's Radical Train Project.” *Railway Technology*, 22 Apr. 2013, www.railway-technology.com/features/featurefuture-visions-uk-radical-train-project/.
- Chan, Kenneth. “Urbanized.” *Port Moody Mayor Wants Faster New Trains for SkyTrain*, Daily Hive, 16 Feb. 2019, dailyhive.com/vancouver/skytrain-train-speed.