

# Healthier Road Construction

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[An asphalt road captured By Liam Byrne]

## Benefits of Asphalt Roads

- It is cost effective
- It is generally safe
- It is generally environmentally friendly, apart from Bitumen

## Detriments of Asphalt Roads

- They have a limited lifespan
- They contain bitumen, which is an environmentally harmful crude oil product

# Alternative to asphalt Plastic Roads

What are they?

- Roads that are made almost entirely out of recycled plastic.

Where have they been implemented?

- A bike path in Zwolle, Netherlands.

What are the positives of plastic roads?

- They are environmentally friendly
- They are made from prefabricated sections of plastic, which can be made on site and installed quickly
- It's cost effective
- The companies that developed the technology claim that it should last up to 3 times as long as a normal asphalt road
- Companies plan to source the recycled plastic from the oceans
- They have sensors in the bike path to test the temperature and the durability of the road



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# What does the future hold for plastic roads?

If the claims from the plastic road companies are true, then this technology will be readily implemented.

- It would be revolutionary for road infrastructure if the plastic roads can last 3 times longer than asphalt roads.
  - Many more plastic roads are planned on being made in the Netherlands
- The ability to prefabricate the road will revolutionize how quickly road construction projects could be finished.
  - Years shortened to months
- This would significantly decrease the carbon footprint of road construction
- Plastic waste would decrease significantly

## Work cited

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