From Grey Lanes to Green Arteries: How Cities Can Thrive by Reclaiming Space for People – Ashique Panakkat

Modern cities are waking up to a profound truth: infrastructure designed solely around cars is not sustainable — environmentally, economically, or socially. As urban areas face the combined pressures of climate change, public health crises, and the need for inclusive growth, one powerful solution lies in plain sight: reimagining grey, multi-lane highways as green, human-centered spaces.

This is more than a shift in transport planning. It's a cultural reset — a return to cities designed for people, not just vehicles.

The Problem with Car-Centric Cities

Highways slicing through urban cores have long symbolized progress, but their downsides are increasingly undeniable. They sever communities, generate pollution, contribute to noise and heat, and disincentivize active modes of transport. What's more, building more lanes doesn't solve congestion; it invites more of it — a well-documented phenomenon known as induced demand.

Lessons From the Leaders

Some cities are already proving that another path is not only possible — it's transformational.

Alt Text : Seattle transformation

Seattle has made deliberate moves to replace certain highway segments with green corridors, pedestrian plazas, and waterfront walkways. The Alaskan Way Viaduct removal project, which reconnected downtown to the waterfront, exemplifies how strategic infrastructure change can boost both urban vibrancy and economic development.

Düsseldorf, like many European cities, has embraced a human-centric urban fabric with extensive cycling networks, efficient public transport, and traffic-calmed streets that invite walking and social interaction. Its success lies in a multimodal approach — where biking, walking, and public transport are not alternatives, but defaults.

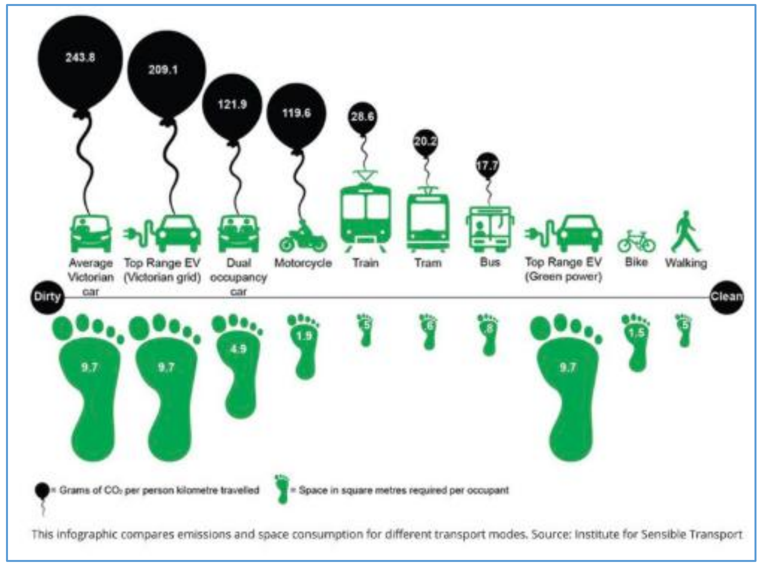
These are not isolated cases. Cities from Seoul (which replaced a downtown highway with a riverfront park) to Paris (which is reclaiming the Seine riverbanks for pedestrians and cyclists) show a growing global momentum.

The Health and Environmental Payoff

Transforming urban spaces isn't just about aesthetics or mobility; it's a public health imperative.

- **Air Quality Improvements**: In London, the expansion of the Ultra Low Emission Zone (ULEZ) led to significant reductions in harmful pollutants like nitrogen dioxide, especially in the most deprived areas. This policy has accelerated the reduction of air pollution to within legal limits, benefiting the city's poorest communities.

- **Health Benefits**: A study in Belgium showed that low emission zones (LEZs) led to faster declines in harmful pollutants and a slower rise in medication use for diabetes, hinting at broad metabolic health benefits.
- **Economic Gains**: Cleaner air in UK cities like Birmingham and Portsmouth is estimated to cut respiratory-related deaths by up to 5% while boosting local economies through better workforce health and productivity.



Alt Text : Carbon footprint of transport

Cycling: The Unsung Hero of Urban Transformation

Cities that embrace cycling unlock a powerful trifecta: cleaner air, healthier residents, and reduced congestion. Bicycles are the most efficient urban mobility solution for short-to-medium distances, and yet many cities continue to treat cyclists as second-class road users.

The data tells a compelling story:

- In **Copenhagen**, nearly 50% of daily commutes are by bike. This has helped reduce the city's carbon emissions significantly while promoting some of the highest public health indicators in Europe.
- **Paris** added more than 1,000 kilometers of cycling lanes over four years, which helped reduce car traffic by 40% in some central districts and increased bike usage by over 70%.
- Studies show that regular cycling reduces the risk of heart disease, certain cancers, and type 2 diabetes by up to 40%. It's also linked to improved mental health and reduced stress levels.

Alt Text: Replacing roads with cycling path in City

But for cycling to thrive, it must feel safe. That means **physically separated bike lanes**, **secure parking**, and **integration with public transit** (like allowing bikes on trains or providing last-mile connections).

When cities design with cyclists in mind, they open access to low-cost, zero-emission mobility — especially for younger and lower-income residents. It's urban democratization on wheels.

What Towns and Cities Can Do

1. Reallocate Road Space
Cities can start by repurposing even a single lane of traffic into protected bike lanes, wider sidewalks, or green verges. These small changes signal a shift in priorities — from throughput to livability.

2. Invest in Reliable Public Transit
People switch to public transport when it’s safe, frequent, affordable, and convenient. Integrating buses, trams, and trains into urban design reduces car dependency and connects more people to opportunity.

3. Create Green Corridors
Replacing stretches of highway with linear parks or greenways doesn’t just beautify cities — it mitigates the urban heat island effect, improves air quality, and offers space for recreation and mental well-being.

4. Design for Accessibility and Equity
Not everyone owns or can drive a car. A city that works for pedestrians, cyclists, and transit users is inherently more inclusive, especially for the elderly, children, and those with disabilities.

5. Engage Communities
Urban transformation thrives when it’s participatory. Engaging residents in planning ensures that changes reflect lived realities and build public support. Support charities which provide mobility for communities who cannot afford cycles.

The Future is People-First

Reclaiming space from cars is not about punishing drivers — it’s about giving everyone more choices. It’s about neighbourhoods where children can play safely, commutes that don’t steal hours of our lives, and air we can breathe deeply.

Cities and towns have an opportunity — and a responsibility — to learn from places like Seattle, Düsseldorf, and Copenhagen. The blueprint is clear: trade grey for green, speed for connection, congestion for community.

When we design cities for people — and for cyclists — we don’t just change how we move. We change how we live.

Bibliography

- British Medical Journal. (2017). *Association between active commuting and incident cardiovascular disease, cancer, and mortality: Prospective cohort study*. Retrieved from https://www.bmj.com/content/357/bmj.j1456

- CBI (Confederation of British Industry). (2025). *Cleaner air in cities benefits health and the economy*. Retrieved from https://www.cbi.org.uk/articles/cleaner-air-in-cities-benefits-health-and-the-economy

- City of Seattle / WSDOT. (n.d.). *Alaskan Way Viaduct Replacement Program*. Retrieved from https://wsdot.wa.gov/construction-planning/major-projects/alaskan-way-viaduct-replacement

- Cycling Embassy of Denmark. (n.d.). *Copenhagen: The world's best bike city*. Retrieved from https://cyclingsolutions.info/copenhagen-worlds-best-bike-city/

- Forbes. (2023, September 27). *Paris doubles down on bikes with $290 million cycling expansion plan*. Retrieved from https://www.forbes.com/sites/carltonreid/2023/09/27/paris-doubles-down-on-bikes-with-290-million-cycling-expansion-plan

- The Guardian. (2025, March 7). *London air pollution down since Ulez expansion, study finds*. Retrieved from https://www.theguardian.com/environment/2025/mar/07/london-air-pollution-down-since-ulez-expansion-study

- The Guardian. (2025, May 16). *Low-emission zones successful in cutting air pollution, researchers find*. Retrieved from https://www.theguardian.com/environment/2025/may/16/low-emission-zones-successful-cutting-air-pollution-researchers-find

- World Bank. (2010, March 5). *Seoul stream restoration revitalizes city center*. Retrieved from https://www.worldbank.org/en/news/feature/2010/03/05/seoul-stream-restoration