The Geometry of Public Transit

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We connect people to opportunities.
What is public transit?

• Shared travel
• Accessible to the public
• Scheduled
• Fixed routes
  • Urban - Bus, rail, ferry
  • Intercity – Air, bus, rail
• Fee or fare
• Shared devices?
Let’s talk about efficiency...

• Time
  • Access vs. speed

• Money
  • Your trip is subsidized as a policy decision

• Energy
  • One vehicle vs. many

• Space...
Transport Energy Efficiency

- Cycling: 0.06
- Walking: 0.16
- Tram light rail: 0.91
- Bus: 0.92
- Electric & Diesel rail: 1.65
- Heavy rail: 1.69 (London Underground)
- Motorcycle: 1.73
- Cars: 2.10
- Boeing 727 Aircraft: 2.42
- Taxis: 2.94
- Lorries: 2.94

Data: Sustainable Transport and public policy, David Banister

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