Michelle Poyourow

I hate walking to the bus stop!

My Feelings

People I know hate walking to the stop!

Our Feelings

Most Americans hate walking.

Culture

Humans tend to underestimate the rationality of the actions of others.

Psychology

A mammal's need to consume water increases with temperature.

Biology

Two solid objects cannot occupy the same space at the same time.

Physics

2 + 3 = 5

Geometry / Math

• True on other planets



• True in the year 2035

Two solid objects cannot occupy the same space at the same time.

Physics

2 + 3 = 5

Geometry / Math

What can we know for certain about transit in the future?

Many things will change, and already have:

- Hailing and paying for a ride
- Designing routes in response to pick-up and drop-off requests
- Piloting of vehicles

What won't change?

Scarcity of urban space

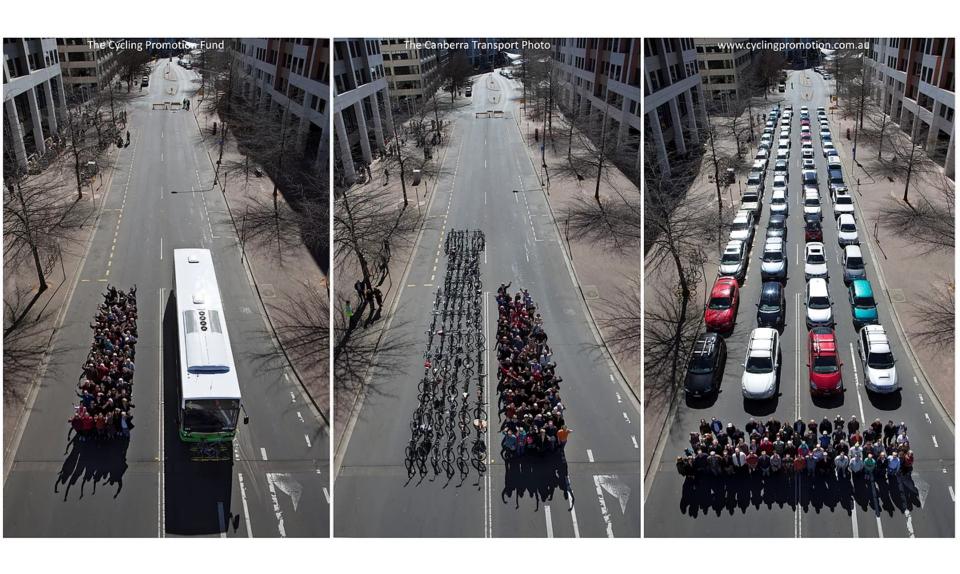


Photo by the Cycling Promotion Fund, Australia

Vocabulary: "Ridership" vs. "Productivity"

- Measured by "boardings" on transit vehicles
- Sheer total ridership is less useful than ridership relative to cost
- Most transit costs are tied to a bus and driver's time (rather than distance, or size of vehicle)
- "Productivity" =
 ridership relative to cost =
 boardings per hour of service provided

Examples

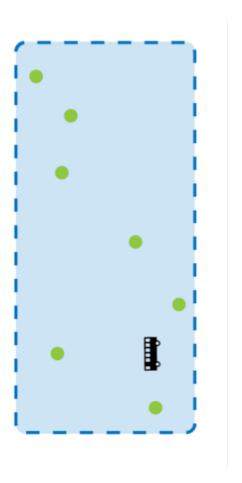
- Bridj in Kansas City.
 - Ridership: 1,480
 - Productivity: less than 0.1 boardings per hour
 - Cost per ride: \$1,014
- VTA in Silicon Valley
 - Ridership: 2,714
 - Productivity: 0.4 boardings per hour
- Uber in San Francisco at 7 pm on a Friday
 - Ridership: 17,332
 - Productivity: 2.6 hails per hour

Vocabulary: "Responsive"

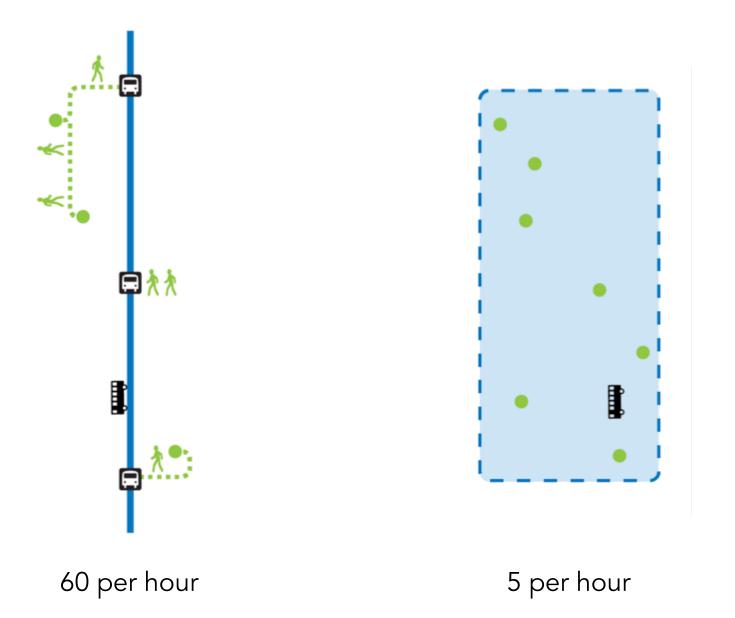
- Could mean goes to the place you want.
- Could mean goes when you want.
- "Demand Response" transit =
 "Flexible" transit =
 "Dial-a-ride"
 - Opposite of "fixed route"

Responsiveness

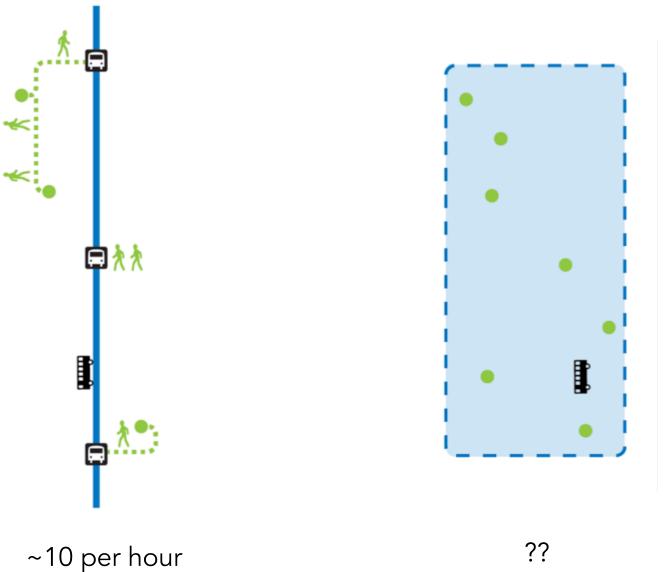


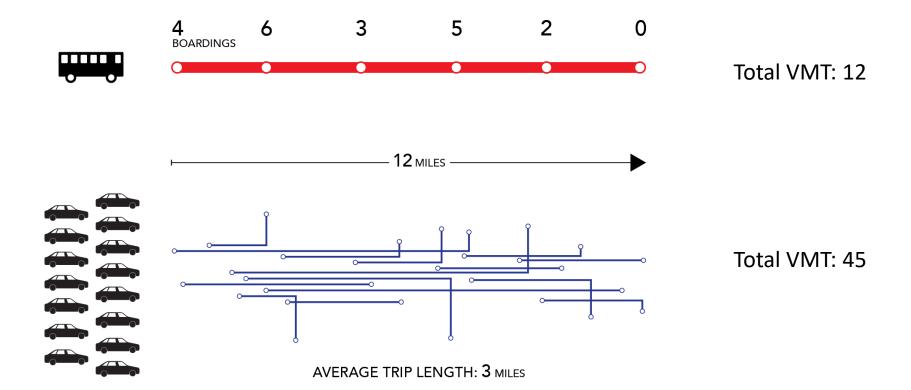


How much productivity is physically possible?



How little productivity is politically possible?





These are not marketing failures!

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What will change?

- Operating cost per hour of vehicle
- Propulsion of vehicle
- Size, spacing and handling of vehicles
- Quality of information for riders
- Ease of paying a fare

What won't change?

