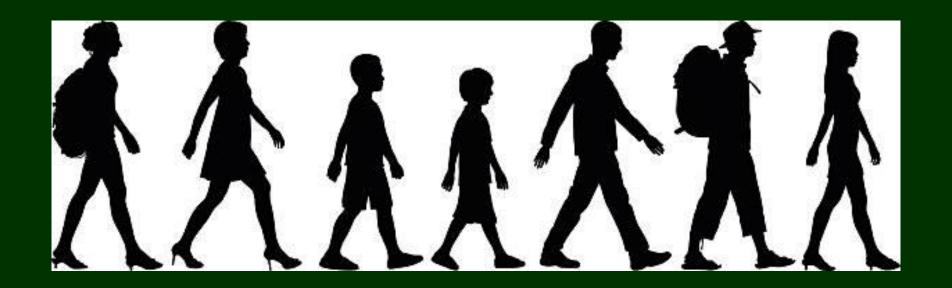
Chuck's Eco-Plan to Re-configure the Use of a Car, and Achieve Equity among Travel Modes



Program on Earth Day April 22, 2023 at the College of Complexes



There is a way to fix this

So it doesn't happen



By Charles Paidock
Co-Director
Citizens Taking Action
advocating for transit and trains

Exec Director
New York and Chicago RR
High Speed Project 220 mph

Secretary
Chicago Greens
Illinois Green Party

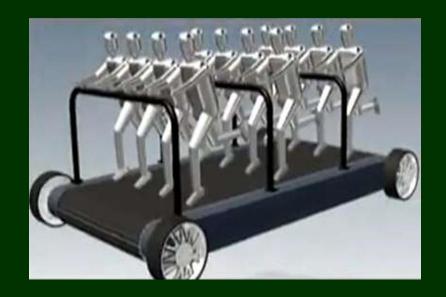




The Future of Transportation From the Past to the Present



Previous Lecture





Previous Lecture

compiled by Charles Paidock, Secretary
Citizens Taking Action for Advancement of
Transit and Trains





During Covid Lockdown

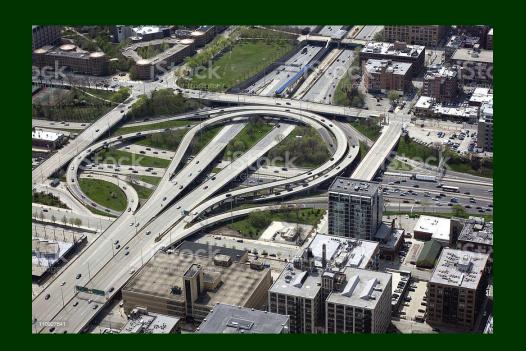
"transport recovery" programs
a chance to change course and repair the damage
from a century of cars

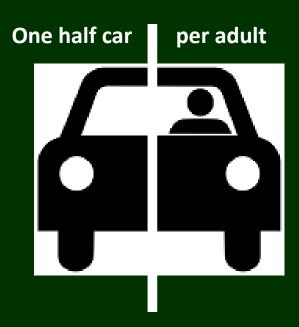
Cities around the world are seeing dwindling numbers of fossil-fuel powered cars on their streets, and many are planning to keep it that way



During Covid Lockdown

Air pollution has dropped to unprecedented levels across the world as major cities and countries impose lockdown measures to curb the spread of the coronavirus.





Chicago has more than 4,000 miles of streets and 1,900 miles of alleys contains seven major Interstate highways

Number of vehicles per person aged 16 and over: 0.54

Aggregate number of vehicles: 1,180,685

Percentage of workers who drive to work: 55.4%

Mean commute time (hours per week): 5.9

Statement of Purpose

Transportation is the greatest source of greenhouse gases that will result in a climate change of the planet estimated for 2030.

One should always address a problem at its source. Owning and <u>operating a vehicle is not a right by law, rather it is a privilege</u> which can be restricted. Travel, or personal mobility, it should be noted, is not in any fashion restricted by these provisions.

With multiple transportation modes available, the <u>freedom to go</u> where you want, when you want, is in <u>no way measurably confined or limited</u>.

Collective actions to stop climate change take priority over any argument for convenience of an individual who can afford a particular method of travel.

The country must avoided assigning priorities to alleged solutions which are outmoded or misguided. No costly investment in new infrastructure or technology of any type is necessary to effect this plan.

Individual choice or ownership of a vehicle is not infringed upon, and any type is acceptable if used in compliance with national fleet norms

Chicago * * * * * Department of Motor Vehicles

Specific Actions to Establish a US Transportation Network

Status of any vehicle can be stored in real-time on any cell phone.

<u>License for each vehicle</u> must be obtained to stipulate if authorized to be used on weekdays, weekends, during peak or off-peak periods

Monday through Friday <u>occupational use</u> only, with exceptions for essential workers, first or last mile from transit station, first, second, or third shift, sales or "site specific"

Use of auto restricted to locality, city, state, or region

Authorization must be obtained to drive on any federal, US express interstate

<u>Authorization must be obtained</u> for any inter-regional, cross-country travel, to ascertain or <u>comply with number of vehicles</u> <u>standards in any area</u>, and if there are vacancies

Special travel provisions on national holiday weekends

Current allowable usage loaded onto card issued for each vehicle

<u>Daily or weekly passes</u> can be purchased for any use outside of assigned status, either on-line or at vending machines

Penalties for misuse range from fines to confiscation and state sale of vehicle

Passes can be restricted for reckless drivers prone to speed, disregard stop signs or lights, or get into accidents and endanger the community

Exceptions to provisions can be either authorized or purchased for community events or family gatherings, civic duties such as voting, jury duty, etc.

Exceptions can be issued for emergency matters or medical related matters, e.g., a hardship, poor or disabled, job seeker

No mileage restrictions imposed with any authorized pass

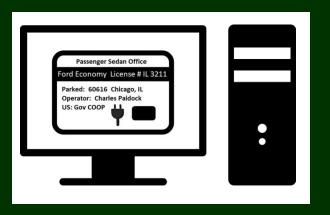
No restrictions imposed upon primary care givers, e.g., for seniors

<u>Temporary use restrictions</u> under any circumstance could be implemented due to air quality issues, energy shortages, civil disturbance, snowstorms, etc.



Network Loading today, cell tower reports vs ten year US Census data

Sample of a "Travel Authorization"







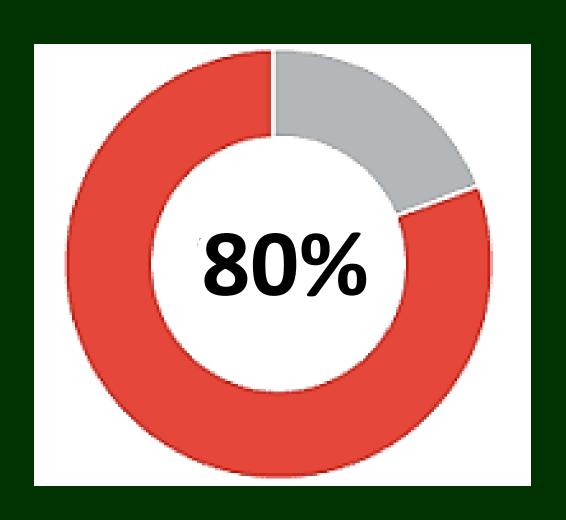
"You Choose" is an inherent feature of the program

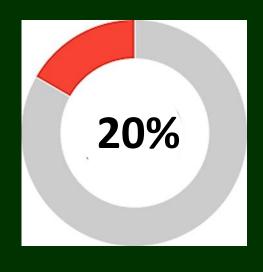
In Chuck's Plan there is No Regulation

The use of all modes of travel should be the same

Multiple options are available for when you want, or may need, to use your car

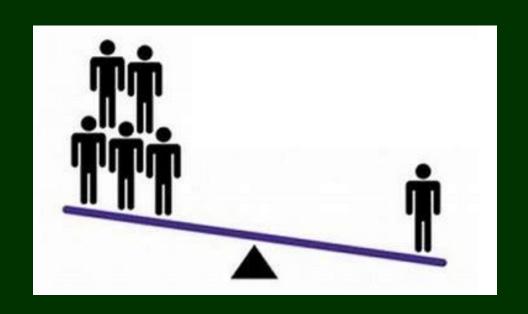
Government Appropriation for Transportation





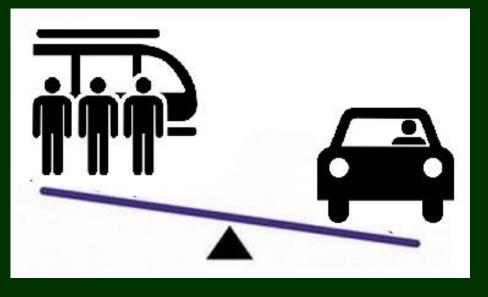
Public Transit

Highways

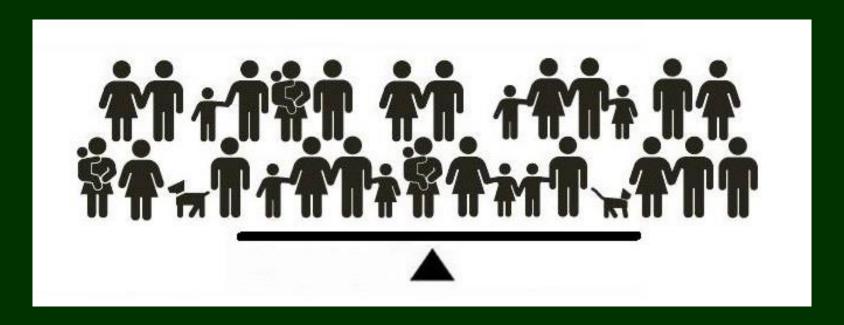


current
US transportation
policy





US transportation policy under Chuck's Eco-Plan

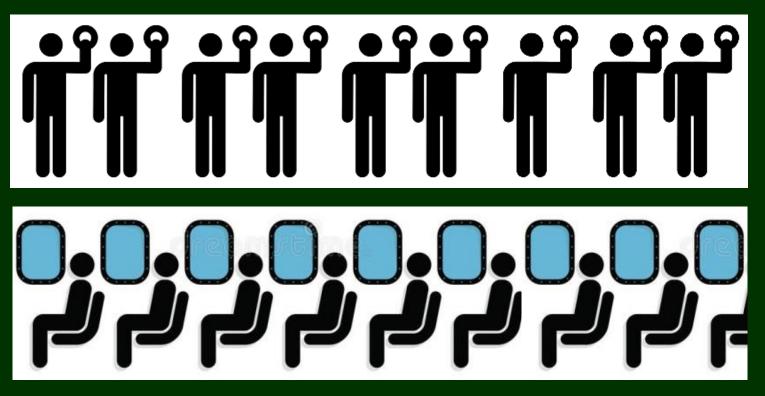




All "Passengers" or "Commuters"

Are the Same

no disparate treatment or privilege



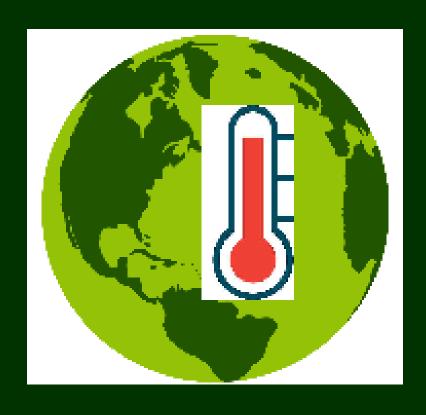
brings to an end social stratification in travel

Commuting Costs should be provided for by your Employer



For any occupation related travel





First Step towards Nationalizing Transportation



"The Case for Nationalizing the Railroads"

In These Times Kari Lydersen FEBRUARY 16, 2023 https://inthesetimes.com/article/nationalize-the-railroads-workers-on-strike-biden-wages

Auto traffic is a critical element of this transition



With the support of every good American this can be done

Chicago Greyhound <u>Bus Terminal may be closed</u> due to the property's anticipated sale, possibly for residential use.

The terminal handles 55 buses daily, serving 400,000+ annual passengers

who are disproportionately <u>low-income</u>, unemployed, or disabled in addition to those lacking access to private vehicles

Corporate travel providers are problematic

Cars are entirely a private transit mode at present



105 miles

High Speed Train

100 miles

Rapid Transit

56 miles Commuter Rail

34 miles Bus

32 miles Passger Train

24 miles Car

12 Air

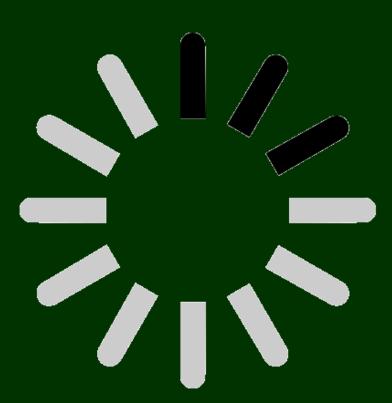
Comparison of How Far You Can Travel per Unit of **Energy Used** (1kwh = 0.086 kep) **Congestion** / Chicago-area drivers had the most hours wasted while sitting in congestion last year, with the average driver losing 155 hours to traffic / **More Roads has never worked**

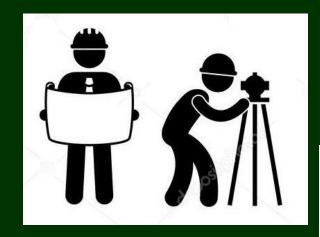


Slower speeds and longer trip times are becoming the new normal

infrastructure adjustments such as local or express lanes, traffic light timing, and variable speed limits

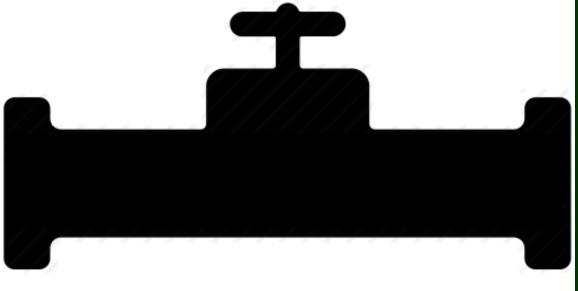






Traffic Flow

An average of 44 people per month are shot and killed or wounded during a **road rage**.





Headway



City Divided into Zones For Determining Fare Wash DC

Zone 1,2,3,4 Radiating Out

Metra Chicago



One-third 1/3 of US roads are in need of repair





\$5 Trillion National Infrastructure Bank (NIB)
25 Million Jobs in America

Condition of the Fleet / Exclusive Mode of Transportation

the average new car price is \$48,094 / average US car is 12.2 years old / average life expectancy of a new vehicle is around 8 years or 150,000 miles / Illinois New Vehicle Buyer Protection Act



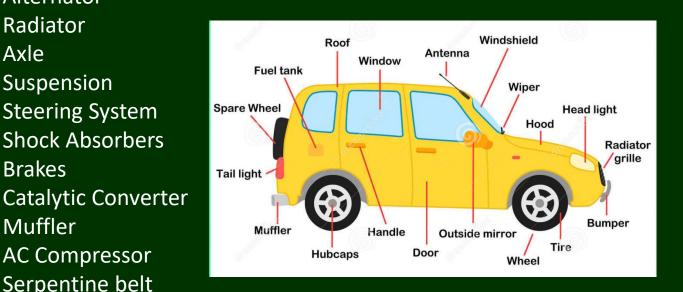
The Chassis Engine **Transmission** Battery Alternator Radiator Axle Suspension **Steering System**

Muffler **AC Compressor** Serpentine belt

Shock Absorbers

Brakes

How Much Energy is used to Construct a new car?



8.8 million cars are built each year in the us

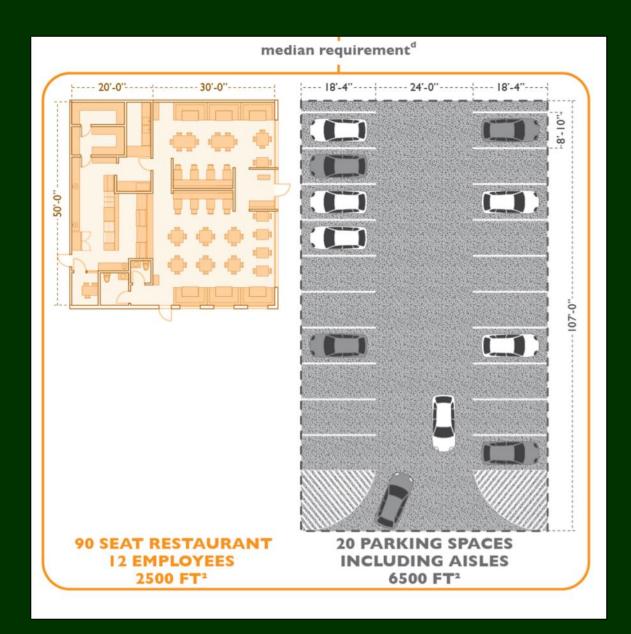
Tailpipe Fuel Tank Windscreen Windshield wipers Speedometer Headlights Taillights/Turn signal Hood/Engine Trunk Fuel gauge Temperature gauge Car trip meter Rev counter Wheel/Tire Seat and Seat belt



Urban Sprawl

of Vehicles per Household or nuclear and extended family





The search for a parking space is currently the cause of a third 1/3 of urban traffic

Parallel encourages double + waiting

2 parking spaces per dwelling unit









There are 7
different types of parking spaces
(assigned + un covered + un, tandem, street, commercial)



7 Kinds of Spaces Required for Each Car

Residential
Office, Industrial and Commercial
Health Care Facilities, Funeral
Religious and Educational
(campus, library, museum)
Recreation and Entertainment
Food and Beverage
Retail Services



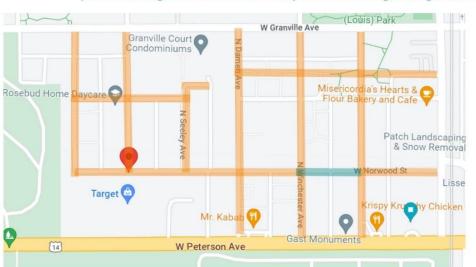
Permit Parking Extension Plan Discussion

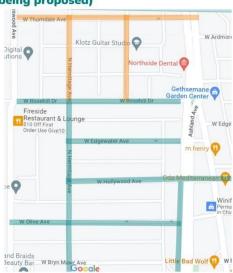


ERMIT PARKING Extension Plan Meeting



(The Green signifies what is currently Permit Parking, Orange what is being proposed)

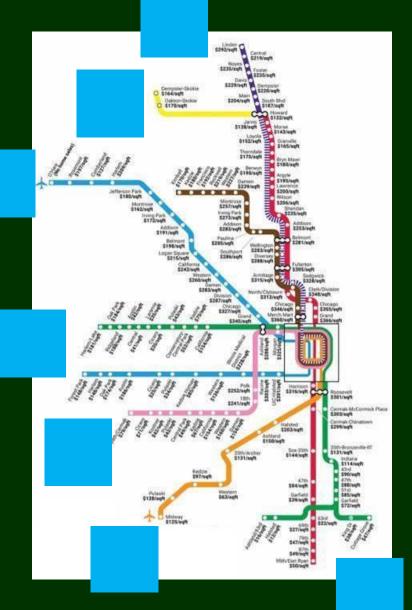




WED/APR 19/5-6:30PM

Due to the Metra Station that will be coming to Peterson/Ridge, and after hearing from neighbors about potential impacts to residential parking, Alderperson Vasquez's office will be looking to extend permit parking in the area - we want YOUR feedback!







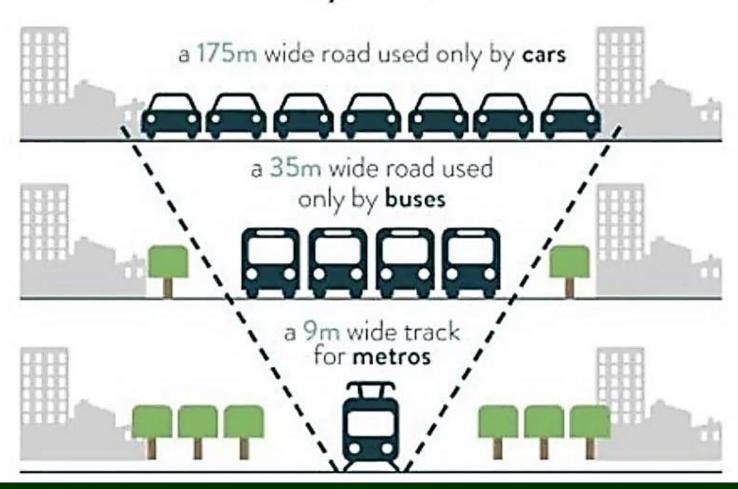
Las Vegas
you can park for free if you
want to walk a long way, but
any decent parking will cost
you (and prices will be
higher on special occasions
and busier days)



Urban Vehicles



To carry 50,000 people per hour per direction, a city needs...

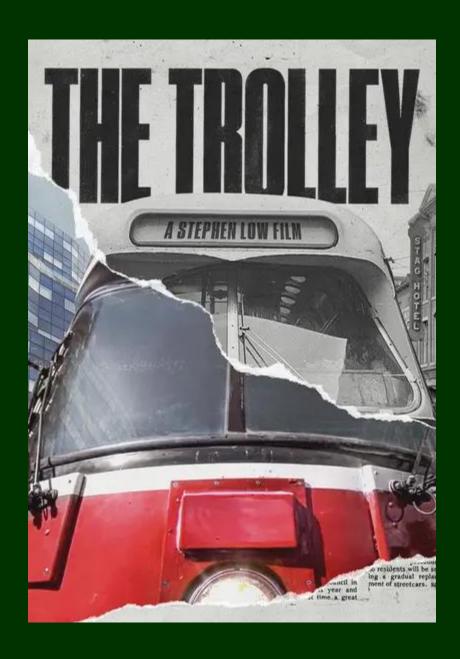


One way to reduce flooding and filter rainfall vs. an asphalt nation, concrete = 15F hotter at night



Light Rail 281-HALSTED 4377 WANCOUVER MEL MESS EDMONTON SEATTLE PORTLAND NE MUNICIPAL TORONTO BOSTON ME TWINCITIES HARTFORD SALTLAKECITY DETROIT NEW YORK CITY NO. SACRAMENTO FTCOLLING THE BAY AREA NO. CINCINNATI WASHINGTON ASPEN DENVER KANSAS CITY NO STLOUIS ME CHARLOTTE SANBERNARDING NEW PHOENIX PAGE LOS ANGELES ATLANTA B DALLAS TUCSON AUSTIN ORLANDO MESS TAMPA CITY MINESON





The Trolley 46 min **Documentary** Witness two centuries of explosive change—from the trolley's humble birth to near obliteration in the automobile age to its 21st century renaissance.

Interurbans

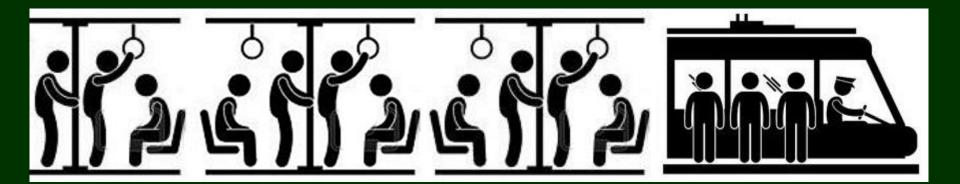






30 Car Drivers vs. 30 Passengers Getting Coffee





average car occupancy is 1.5 persons per vehicle



Single
Occupant /
Operator
Problem

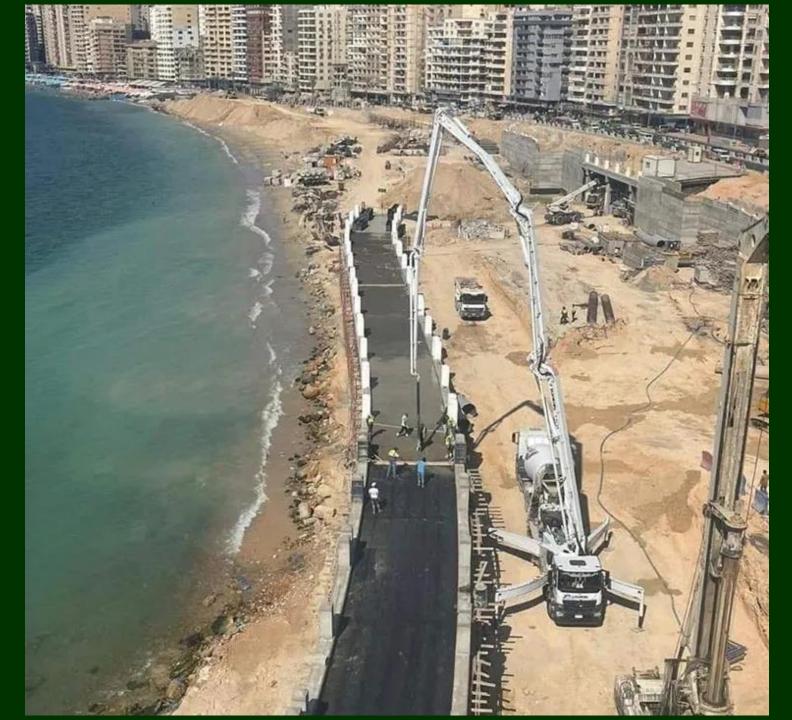




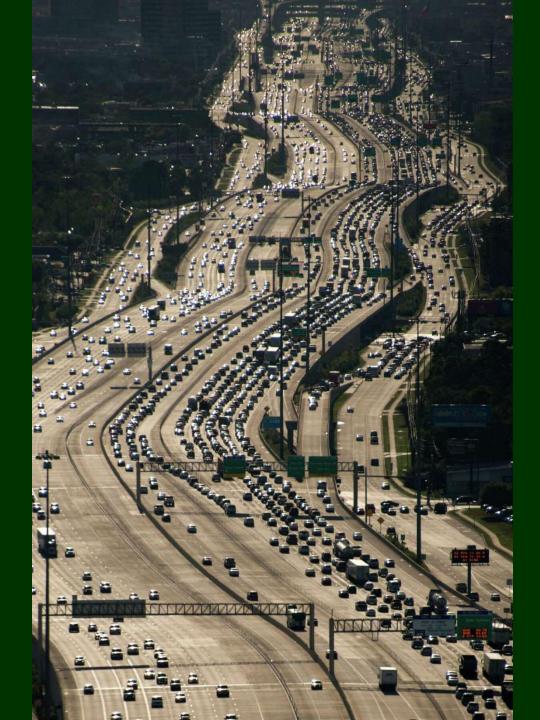
50 Lane Traffic Jam – China



Beach is removed in favor of building a coastal highway Alexandria, Egypt



With 26 lanes in certain parts, the Katy Freeway, Houston, TX, is the widest highway in the world









Fleet Management







Cell Tower Data Provides Mobility Patterns at Any Given Time Network Loading / Estimation





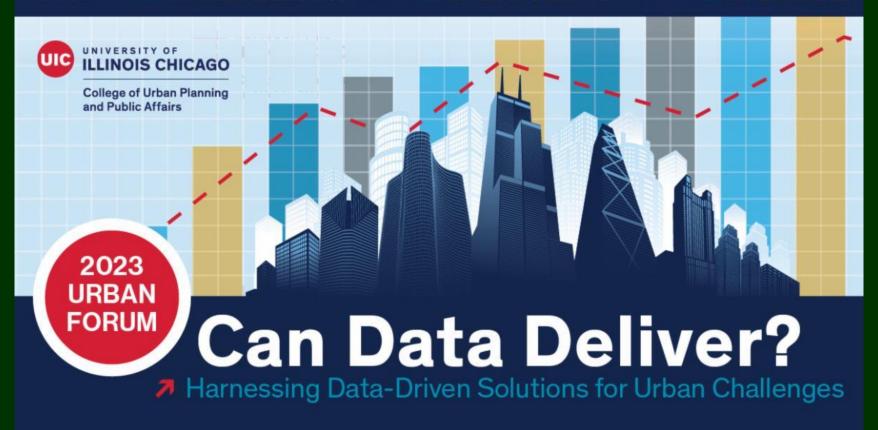


Some Bus Systems Record Flow



Sensors record when and where passengers get one (front door) and get off (rear door) of a bus "The availability of vast amounts of data from and about cities offers great potential to address urban challenges"

JOIN US 04.19.2023 IN-PERSON EVENT JOIN US 04.19.2023 IN-PERSON EVENT JOIN US 04.19.2023 IN-PERSON EVENT



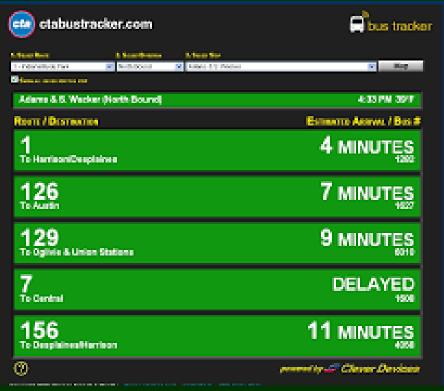
"integrated" Transportation / cars regarded as stand alone mode 69% of the total annual vehicle miles traveled in the U.S. occur in urban areas

"JAM" refers to extreme traffic density when traffic flow stops completely, usually in the range of 185–250 vehicles per mile per lane

"Autonomous" vehicles

Passenger info on transit







Unforeseen Conditions







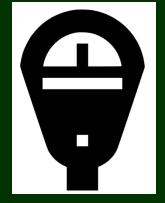
Safety Auto 7 PPM vs Public Transit Less Than > 1

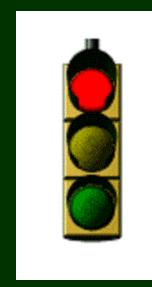


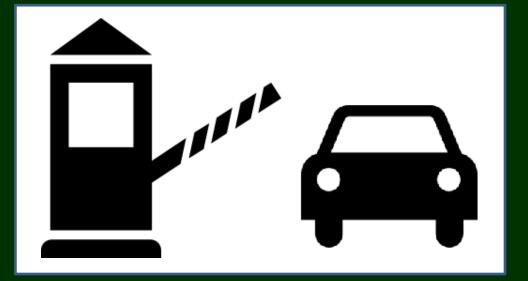


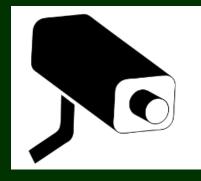
End Inadequate Approaches to Traffic Management



















CARS



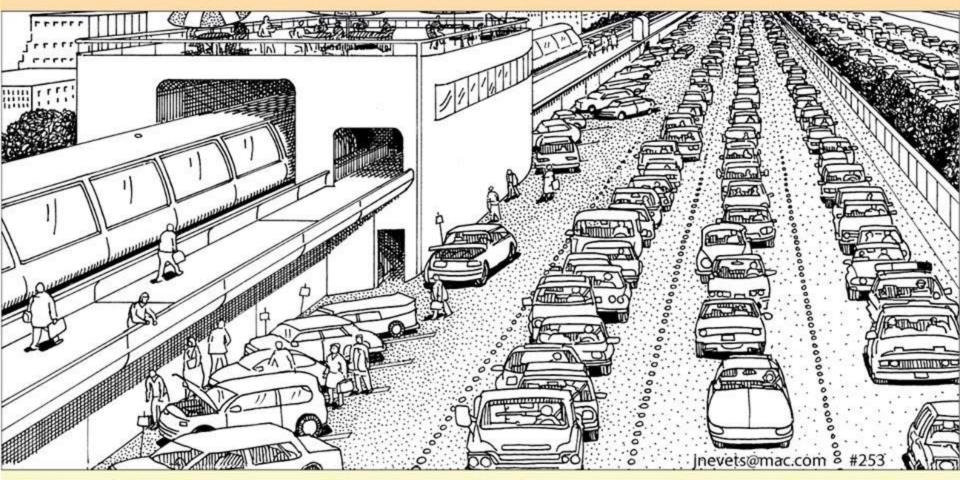




AUTONOMOUS CARS

UBER/LYFT CARS

PATENT DEPENDING © Steven M. Johnson



Automobile Abandonment Zones are offered to accommodate growing numbers of drivers who lose the will to proceed further in bumper-to-bumper traffic. A driver leaves keys with an Abandonment Officer, and returns later after calming down.

Cost or Charge for Driving Comparable to Transit Fare / per Revenue Mile / 65.5 cents per mile cost for a car



The average cost of transportation for a household is \$9,826 per year, or \$819 per month

12% of the average household income car payments cost around \$4,523 per year car insurance costs an average of \$1,575 per year gasoline accounts for 16% of transportation costs

\$131 per month



Average spending on food per month: \$610

The typical U.S. household spends 9% of its income on food — \$7,316 per year.

100 Cities around the world offer free public transit / Kansas City, Mo





Cost of a Car per Hours Actually Used time spent using your car 10 hours and 50 minutes per week

vehicle not in use for 157 out of 168 hours – 94%





A car currently costs on average \$25+ a day to own and operate

Under Chuck's Plan this money could be better spent





AWS Alternate Work Schedules arrival / departure 7-9:00 AM 5-4-9, 4-10, hoteling, Monday + Friday

Flexitime



Flexiplace



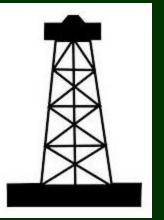




Tax Suppliers,
Not Consumers

Localized revenue

Eliminate the Gas
Tax Altogether as
a Source of
Revenue



US 18.4 cents per gallon, IL 78 cents



Will Generate
Revenue to
Enable Free
Public Transit







Occasional

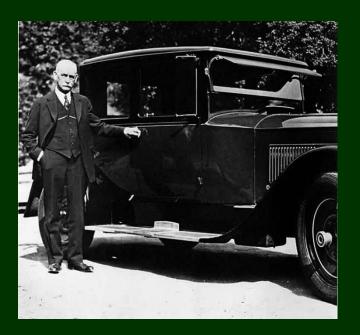
Absolute
"OnDemand" or
Cap

Locating the "cheaters"

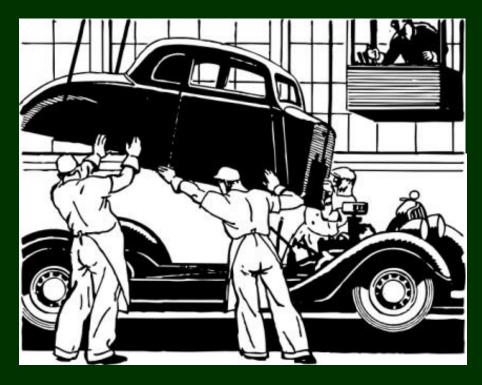


Transportation Equity



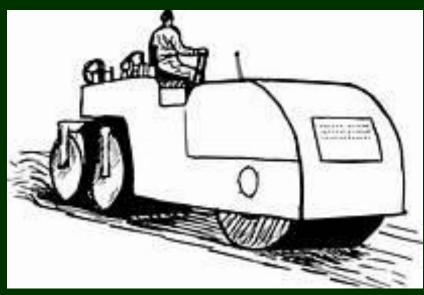




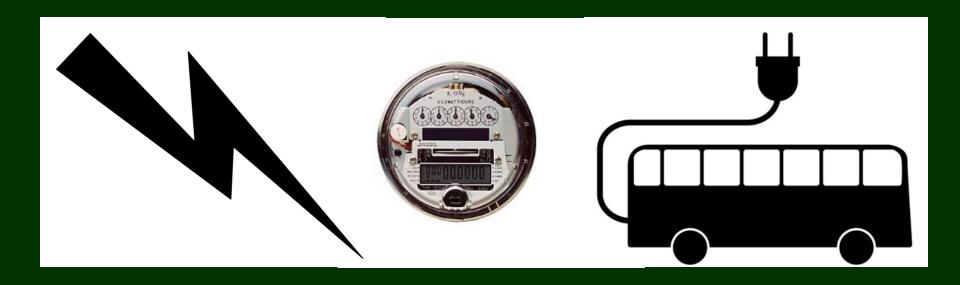


Jurisdiction restricted to Dept of Transportation



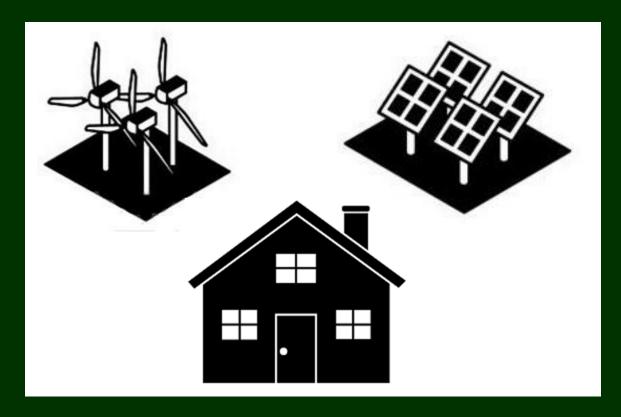






No infrastructure Costs / Required





With Chuck's Plan there are no transportation restrictions or costs for senior travel, or for a visitation to a senior

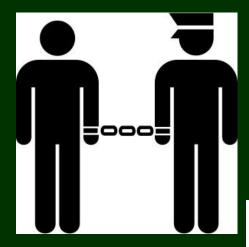






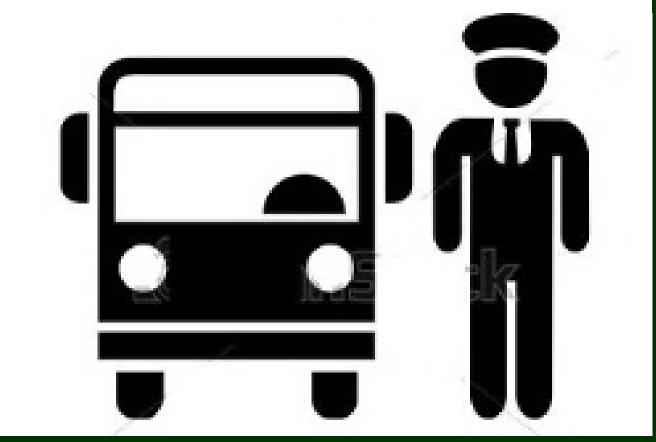




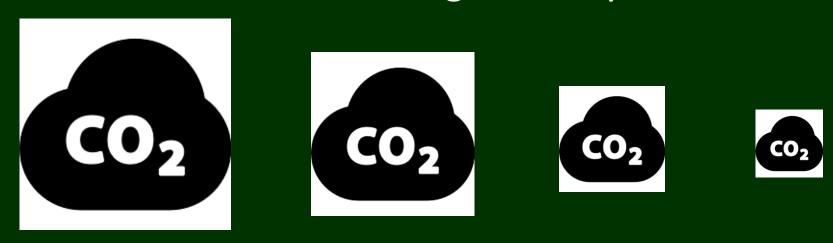


Transit Jobs

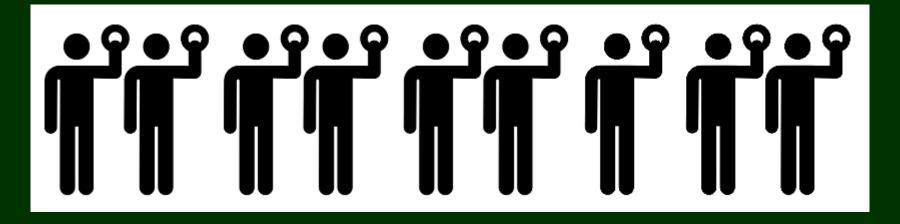
Re-entry program



Production of Greenhouse Gases will be Reduced Significantly



Increased Revenue used to Improve / Expand
Public Transit





#1 Requirement of the "performance measures" <u>Dependable</u> Public Transit 24/7 30 minute intervals headways off peak









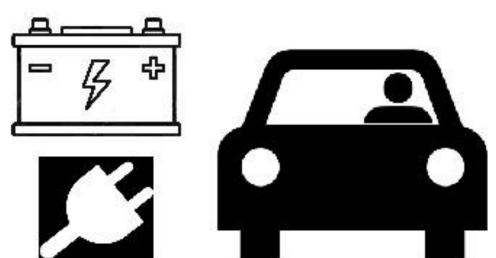






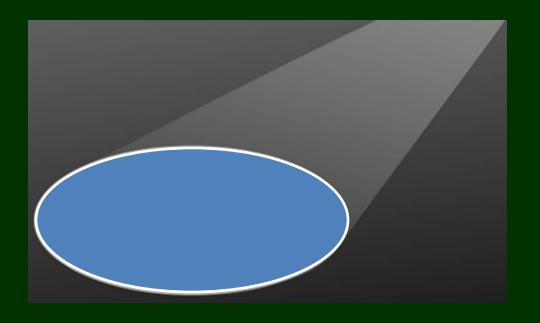


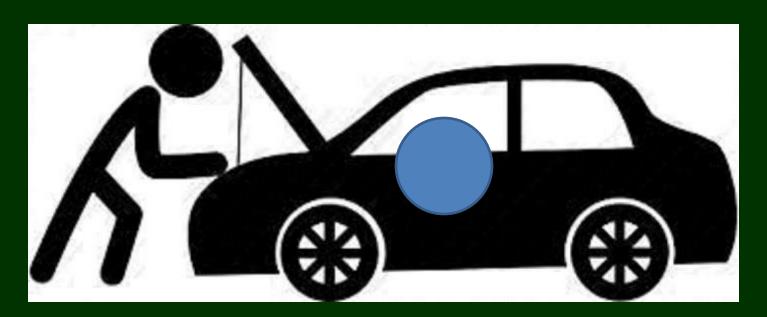
A Big Think from the College of Complexes



The future of cars is electric, but our future is not cars

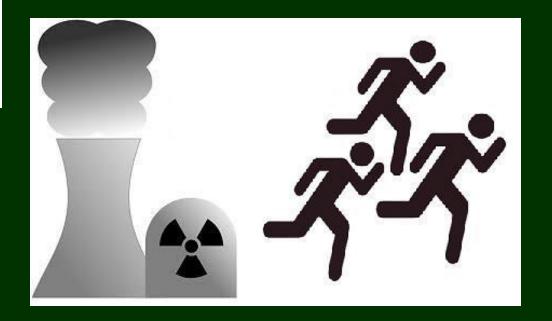
Alien attack motorists reported incidents describing blue balls of light shining on their cars coming from a rocket-shaped UFO





causing the engines to stop Attn Residents
The new,
experimental
thorium reactor
will be turned
on for the first
time tomorrow

Traffic Management is vital for evacuation in the event of a disaster



Chuck's Plan will begin the transformation your town city into an Eco-Village

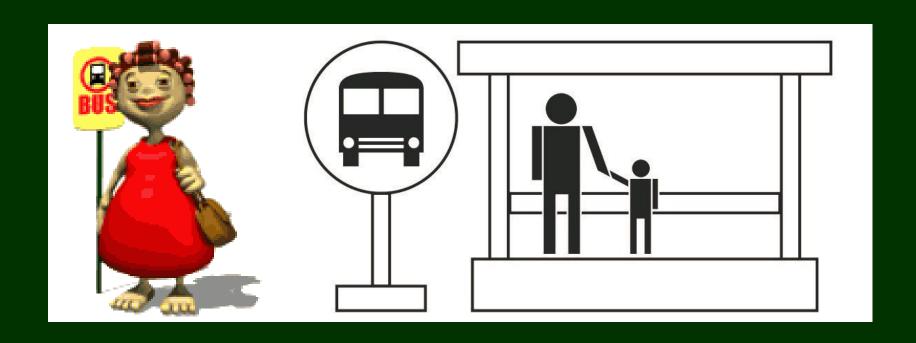


Electric Self-Driving Minibus



"Autorama" Never Materialized

of Stations / Bus Stops? Routes, Schedules, Revenue Hours or Miles









Bicycles

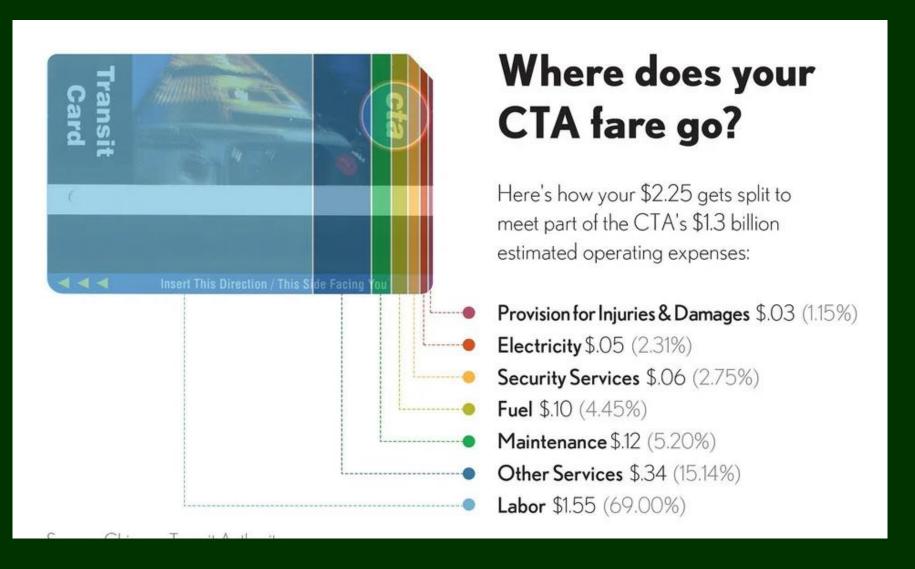








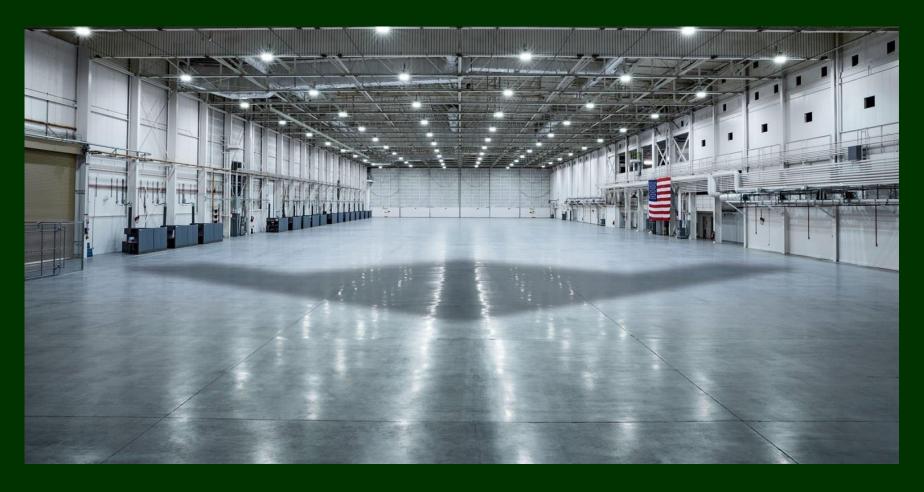
Recommended Reading CTA Budget / 3 colleges





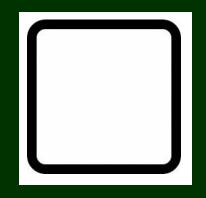
Press Release from the Chicago Greens Eco-Group Seeks Passage in this Congress of an "Earth Bill" to Counter Climate Change

Current Gov't Funded Research on Transportation

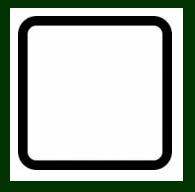


US Gov't (ATS – above top secret classification)

Having viewed the presentation, please indicate Your Choice:



I like Chuck's Plan, count me in



I am a little busy right now, and don't care what happens to the planet

Thank You for Coming!

