A NEW ITE Trip Generation Manual APP

Data & Partnerships to Build Better Communities
Who are We ALL Walk

- Vision Zero
- Complete Streets
- Cities for Kids
- Autonomous Vehicles
- Bike Lanes

- 11 Degrees
- 51 Years Practicing
- 9 ITE Titles
- 6 Drivers Licenses

- ENFP, INTJ

- 5x Thinkers
- 1x Feeler

- Born in 5 countries
- Favourite cities on 5 continents
Because building communities using historical data is living in the past.

ITE needs new data to take communities to the future.
Why this project? - New potential outcomes

**Trip Generation Manual**
- Data: Vehicle Trips by Land Use
- Partners: data is voluntarily provided by agencies or consultants
- Positive Outcomes: systematic and unbiased best practices process, transparent funding asks of developers,
- Implications: auto-oriented designs ignoring pedestrian uses, social exclusion and inequality

**10th Edition**
- Data: person trips, urban examples, eliminated older than 1980, regional filters on data
- Partners: traditional volunteers (increased data by 1,700 site)
- Positive outcomes: introduced simple multi-variable process to be more specific to sites
- Implications: unknown: space for context & urban rates - what levers are being activated to push for people trip designs & funding

**15th Edition**
- Data: TBD
- Partners: TBD
- Desired outcomes: multi-modal friendly cities, align with vision zero, design for aging/all road users
Why this project? -
Current process **does not** look at

- Provision and quality of transit service
- Socio-demographic information, trends or local characteristics
- A user feedback loop on modal attractiveness
- How multiple variables combined impact results
- Transit Oriented Developments as a region

Current process measures patterns from the past but has no predictability of the future.
More than land use

Trips = Counts(x) (TF)(Den)(%sen)(DT)...(n)
Data and the design process

- Trip Data
  - Design road network
  - Size road network (lanes, turning lanes)

- Performance Data
  - Capacity improvements
  - Signal timing operational improvements
New capabilities

**Dynamic**
- Continuous update
- Beyond short duration counts

**Multivariable**
- Transportation attributes
- Demographic trends
- Community health indicators

**Biased towards healthy streets**
- Answer latent demand
- Flag counts with missing AT infra

**Iterative**
- Mode split targets
- User preferences
Data Safari
TNCs provide millions of rides per day.

CitiBike riders took 65,098 trips in June.
Data providers can help:

- Expose full day trip patterns
- Understand mode choice
- Prove latent demand
- Identify shifting travel preferences
Well, Should We?
Yes! Better data leads to…

- Better health outcomes
- Increased walk to school rates
- Transportation footprint reduction
- Environmental resilience improvement
- Improved accessibility
Better cities

Adapt & account for change

Happier citizens

Investments in all modes

Accurate measure of want

Better estimates

Realistic goals

More inclusive
Well, should we?

Be a leading force...
Keep the elements that work...
Be smart in how we collaborate...
First steps

- Step 1: Convene ITE’s Trip Generation committee
- Step 2: Focus group and survey
- Step 3: Look at implications
And if we don’t...
Rise in competition

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Thanks!

Any questions?