

# **Overview and takeaways**

Trends	Takeaways
What are transit agencies doing	Manage transit supply and demand
now to address COVID-19's	• Apply congestion pricing and related
impacts?	measures
What might transit agencies do	• Foster micro-transit and micro-
lot more of after COVID-19?	mobility
What might transit agencies do	• Simplify travel cards and fares, go
in longer-term?	cashless

#### **Overview**

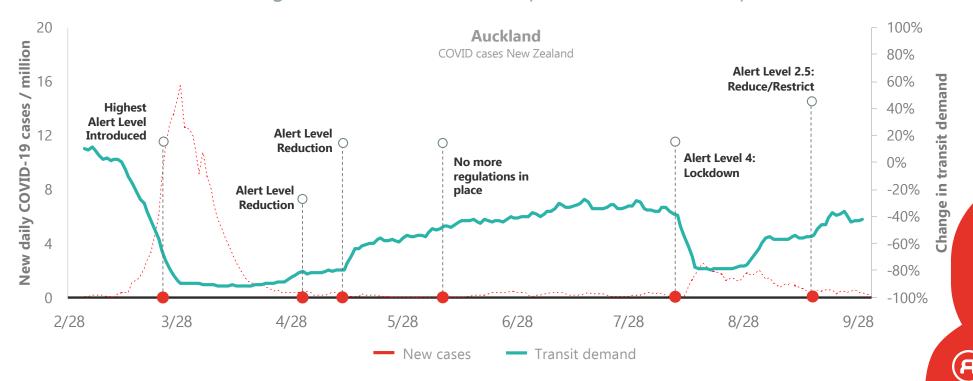
- What are transit agencies doing now to address COVID-19's impacts?
- What might transit agencies do lot more after COVID-19?
- What might transit agencies do in longer-term?

# Auckland, New Zealand: Challenges even for "perfect" island nation



#### Auckland: Transit demand up & down, with COVID-19

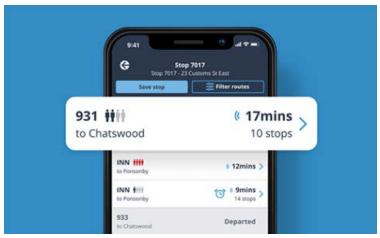
New Zealand's government defined clear restriction packages, four "alert levels." Changes in alert levels had significant and immediate impact on transit ridership



Data Source: Transit demand: Moovit, COVID-19 cases: Johns Hopkins

# Auckland Initiatives: Collecting data to manage crowding and peak shaving

- During start of COVID-19 pandemic, public transport in Auckland was free
- Even then, checking in and out continued to be required to allow for continued monitoring of crowding data



Mobile application of Auckland's transit agency showing realtime vehicle crowdedness

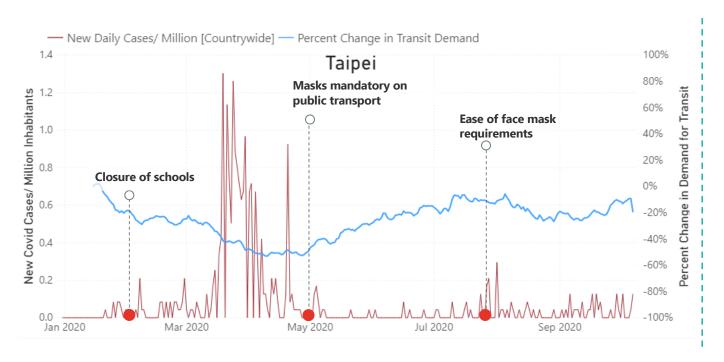
• In June 2020 and during its level 2 alert, Auckland Transport implemented **off-peak travel discount**, providing as much as 30% off to commuters

# Taipei, Taiwan: Despite density, low infection rates



#### Taipei: Despite density, low infection rates

Taiwan – due to its quick and accurate response to virus – managed to keep infection rates low, which positively impacted transit usage compared to other regions.



Latest data update: 7th of October

Ridership Demand: lowest since first COVID case confirmed

-55%

**Ridership Demand: current** 

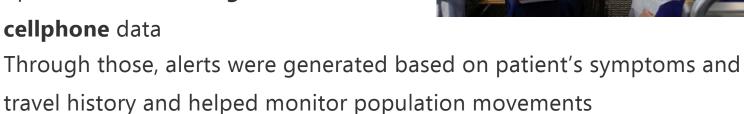
-19%

Ridership Demand data source: Moovit

(A)

# Taiwan Initiatives: Applied health measures and heavy used of tracking and tracing technology

- Taiwan responded to virus quick; since early on, public transit riders were obliged to wear face coverings and maintain strict social distancing rules
- To empower tracking and tracing options, Taiwan used geo-location and cellphone data



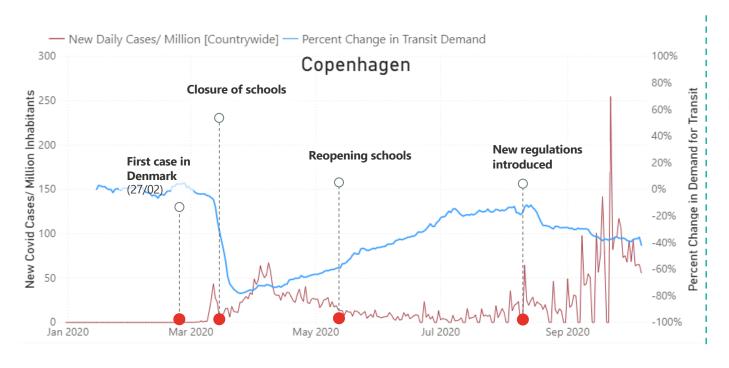


# Copenhagen, Denmark: Laboratory for early easing



#### Copenhagen: Laboratory for early easing

Denmark – after shift response to global pandemic – was first country in Europe that started to step-by-step ease restrictions introduced due to COVID-19



Latest data update: 7th of October

Ridership Demand: lowest since first COVID case confirmed

-81%

**Ridership Demand: current** 

**-42%** 

#### Copenhagen: Early example of modal shift to cars

- While pre-COVID-19, Copenhagen had relatively low passenger car modal share (~25%), mobile app data showed that driving activities reached pre-COVID-19 level way before public transport
- While car registration data for months of April and May followed same pattern and showed rising trend on car usage, this later stabilized

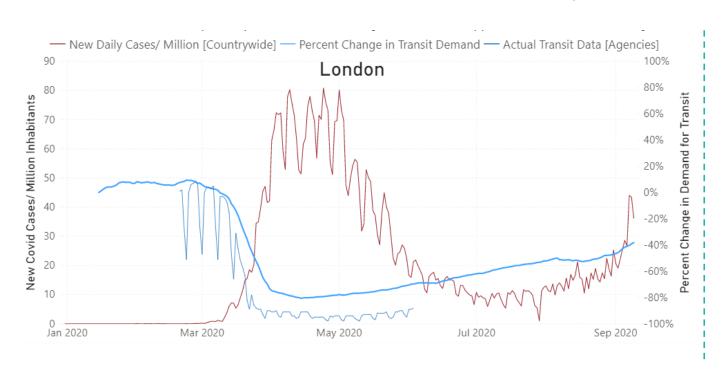


# London, UK: Also addressing rising traffic levels



#### London: Also addressing rising traffic & COVID-19 levels

London, similar to other densely populated areas was impacted by COVID-19, imposed restrictions for non-essential travel. Transit ridership has declined significantly as result.



Latest data update: 9th of September

Ridership Demand: lowest since first COVID-19 case confirmed

-81%

**Ridership Demand: current** 

-38%

Data Source: Moovit and Transit Operator

### **London Initiatives: Increasing congestion charge**

- In May, Transport for London (TfL)
   increase of congestion charge from
   11.50 pounds/day to 15 pounds/day
- Intended to supplement lost revenue while discouraging shift away from public transportation
- As non-governmental entity, TfL receives limited funding from UK government

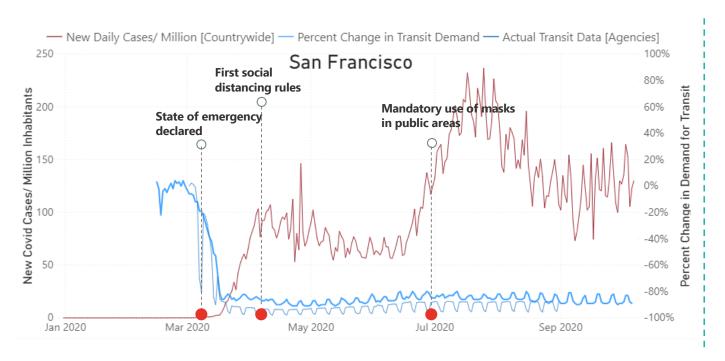


### San Francisco: Dramatic transit demand decrease



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Peak of pandemic arrived later to San Francisco compared to other regions, but still had devastating impact on transit demand



Latest data update: 6th of October

Ridership Demand: lowest since first COVID case confirmed

-91%

**Ridership Demand: current** 

-89%

Service Change

### San Francisco: SFMTA reduced supply

- In April, SFMTA faced difficulties delivering service due to operator availability and changing demand
- It cut back service to core routes reducing vehicle trips by 87% in April compared to February
- SFMTA resuming some services in time for school year and rethinking service offerings

Wednesday

Tuesday

900

Monday

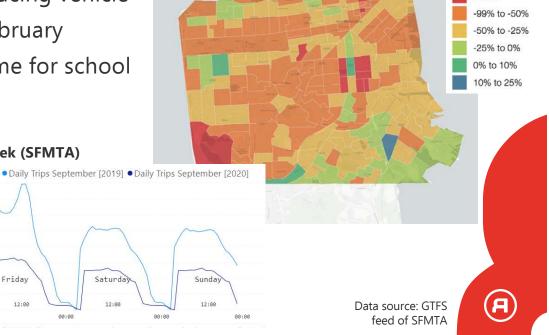
12:00

Number of vehicle trips per hour during week (SFMTA)

Thursday

Arrival Time

Friday



Transit service change in San Francisco

between January 2020 and June 2020.

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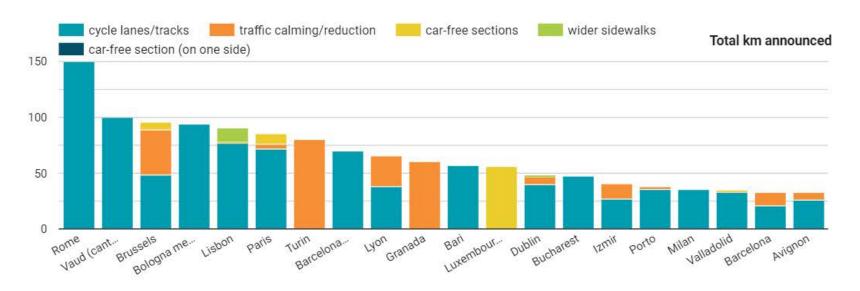
## The Netherlands: Bike highways for some regions



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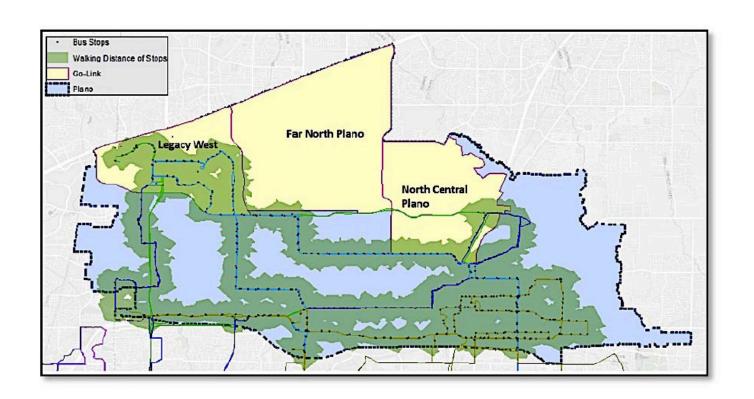
- Since 2006, Dutch national and local governments have developed network of over 300 miles of bike highways
  - More than 30 routes
  - Often built alongside vehicular highways, railways, and canals
- Generally are protected lanes
  - Link suburbs to cities and cities to cities
  - Built wider than traditional lanes
  - o Painted red so that they are clearly differentiated from roads & sidewalks
- Around ¼ of Dutch workers commute by bike, half of them cycling three miles or less each way on variety of bike routes

# **Europe-wide: Numerous cities are investing in ways to encourage modal shift**



Source: European Cycling Federation

## **Dallas: Expand microtransit for last mile+ service**



#### Dallas: Expand microtransit for "last mile" + service

- GoLink, demand-response service, builds upon Dallas Area Rapid Transit's
   (DART) on call services by providing access to/from rail/bus network
- GoLink on-demand buses carry up to 15 passengers
  - Customers can request GoLink ride via app and track location of bus, like private ride-sharing service
  - Customers without smartphones can order ride by phone booking 30 minutes in advance
- Beginning in March 2018, DART initiated GoLink
- Under FTA grant agreement, DART awarded also contract to Uber to provide
   UberPool service as supplement; Uber now serves 13 GoLink zones

#### Dallas: Microtransit provides ok response time . . .

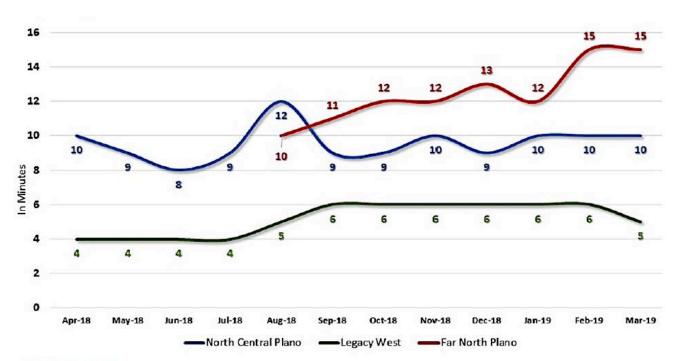


Figure 4-5

GoLink average response time for all Plano zones, April 2018–March 2019

#### **DART...** in comparison to UberPool, also offered

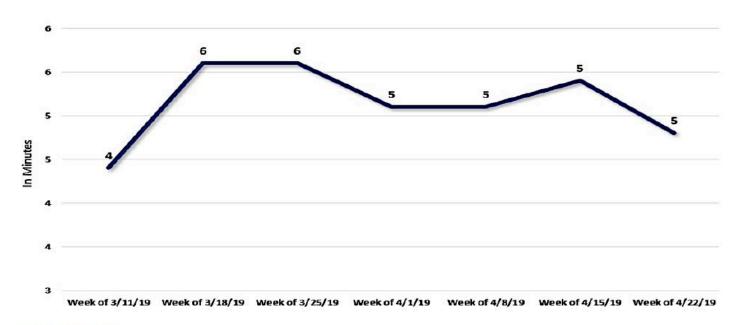
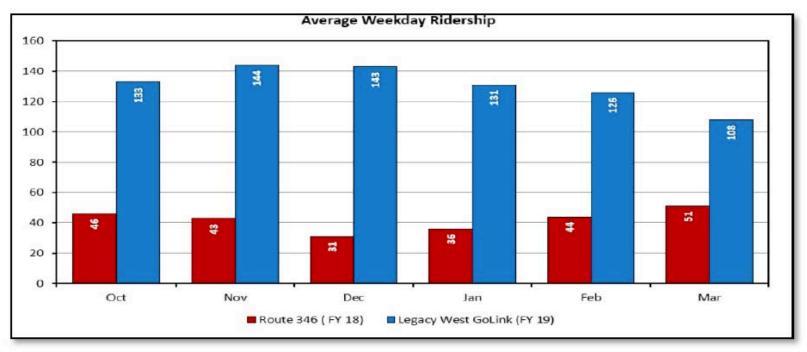


Figure 4-9
UberPool average response time for all Plano zones, March 11-April 22, 2019

#### Dallas: Ridership substantially increases vs. fixed route



#### Figure 4-20

Average weekday ridership for Legacy West GoLink and Route 346, October 2018-March 2019

#### Dallas: Subsidy per passenger down in some cases

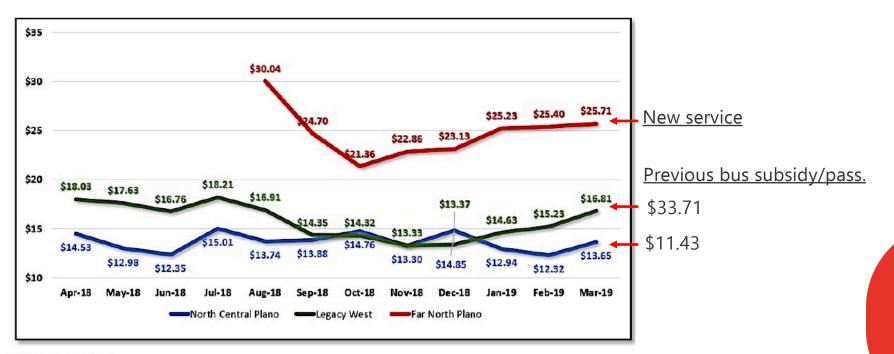


Figure 4-24

GoLink subsidy per rider for Plano zones

#### **Dallas: Riders find transit more accessible**

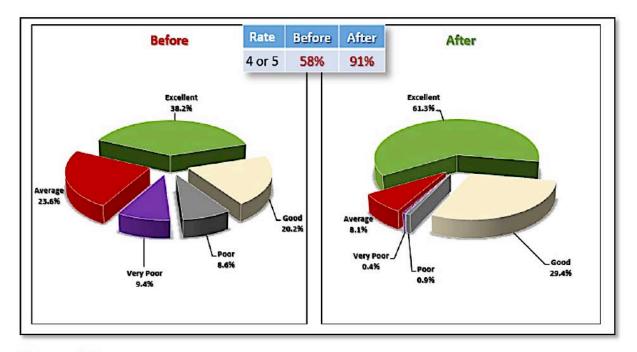
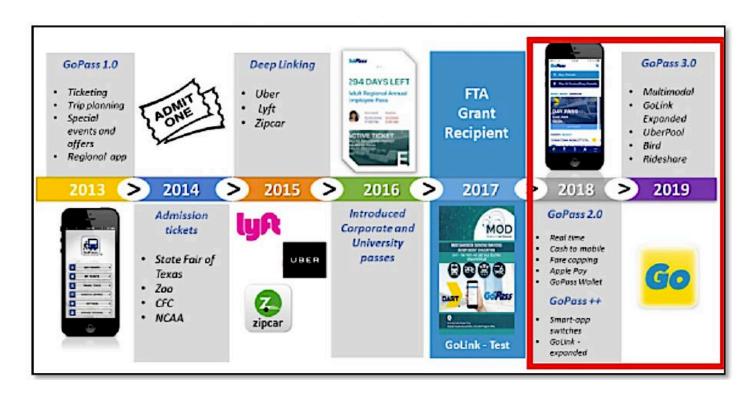


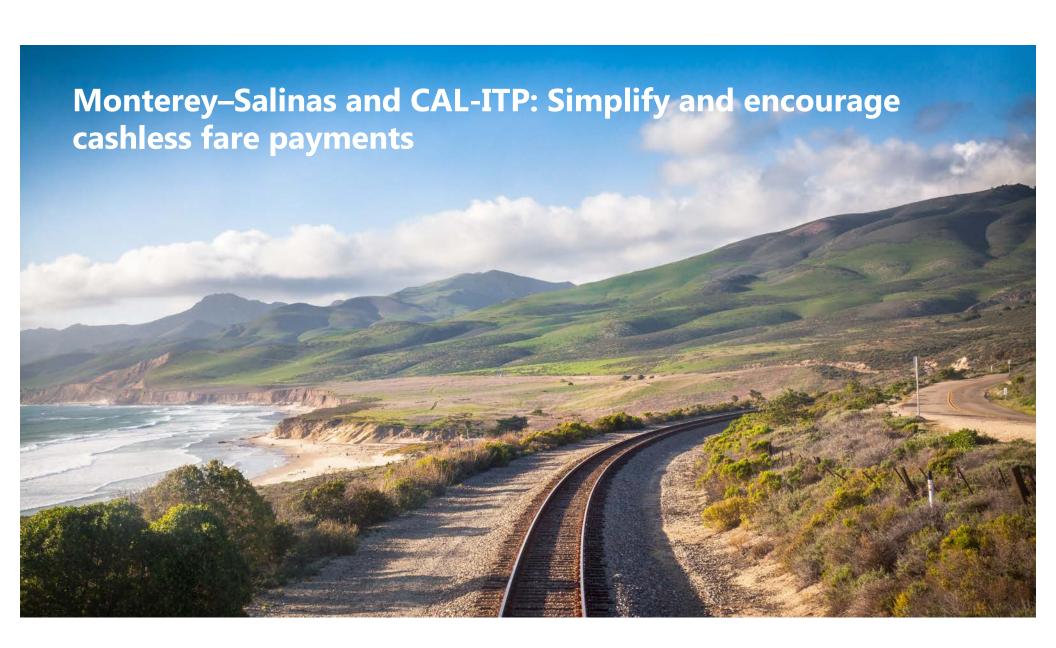
Figure 4-1
Ratings of access to DART bus stops, transit centers, and light rail stations before and after GoLink by all users

### Dallas: GoLink success based, in part, on GoPass app



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# Monterey-Salinas and CAL-ITP: Simplify and encourage cashless fare payments

- California Integrated Travel Project (CAL-ITP) is state-led initiative facilitating easy and accessible travel planning and payments across California
- Cal-ITP collaborates with MST to offer seamless contactless
  payments system for transit in "real-life" environment. As of
  mid-October, travelers—both domestic and visitors—will
  simply tap their Visa contactless card or digital wallet to pay
  fares
- Goal is to offer this statewide
- Cal-ITP is currently engaging with market to identify solutions for un- and underbanked transit users

#### **Demonstration partners:**

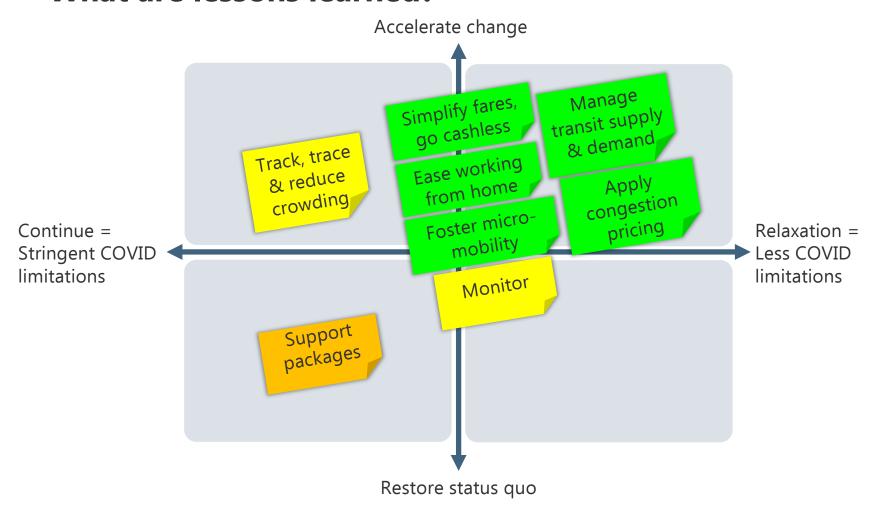








#### What are lessons learned?



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