

Transit technology procurement approach at MnDOT

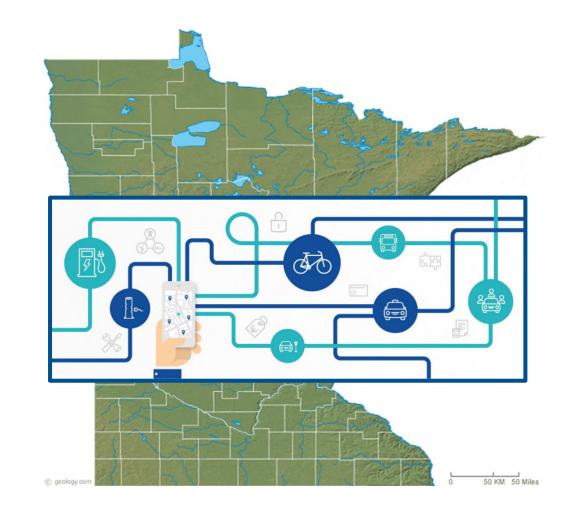
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Transit Technology Discussion

- MnDOT produced Statewide Transit Technology Plan in 2021
 - Includes discussion of alternative procurement models
- Office of Transit & Active Transportation seeks to ease administrative burden of transit partners
- Multisystem procurement for MaaS

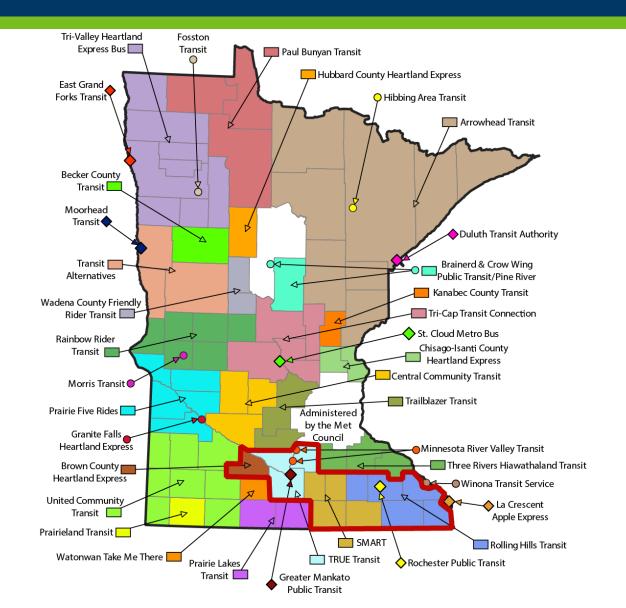


What MaaS looks like

- Mobility as a Service vision: a single platform that provides access to all shared mobility options, allows trip planning, fare payment, and real time updates on trip information
- Integration of transit planning and ticketing with private shuttles and buses, taxis, TNCs, bike and scooter share, van pool, carshare, shared CAV, and new emerging shared mobility technologies
- Pilot will focus on 7 transit systems plus private providers in Southern Minnesota

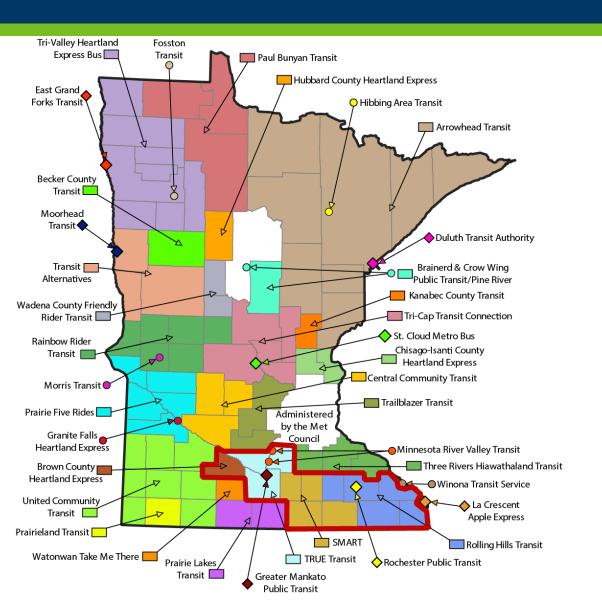


Coverage area



- 7 Greater Minnesota Transit Systems
- Rochester Public Transit
- Mankato Public Transit
- Brown County Heartland Express
- Minnesota River Valley Transit
- Rolling Hills Transit
- SMART
- TRUE Transit

Coverage area



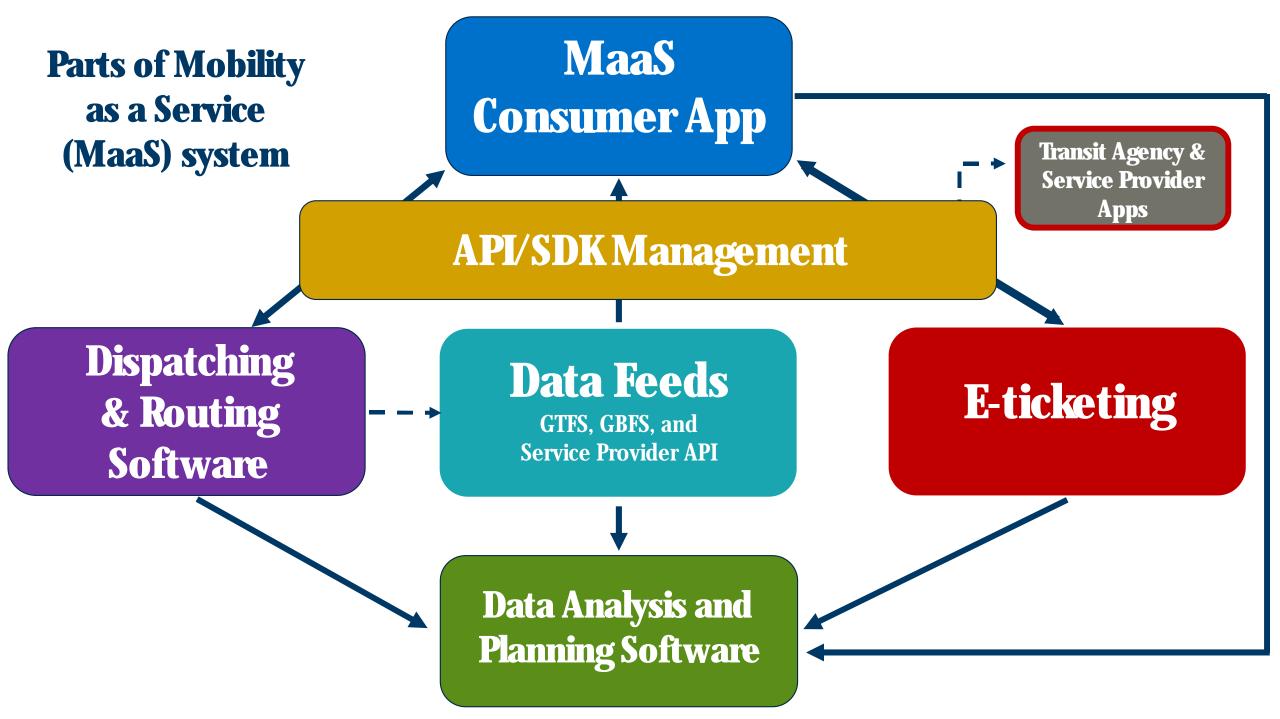
Additional providers

- Metro Transit
- Jefferson Lines/Land-to-Air
- Amtrak
- Lime (bikes and scooters)
- Additional taxi, rideshare, private bus, van pool, scooters, etc.

PLUS

CTS Software as existing dispatching & scheduling software vendor

mndot.gov



Selected vendor and tech team

Lead Vendor and API Integrator



MaaS App

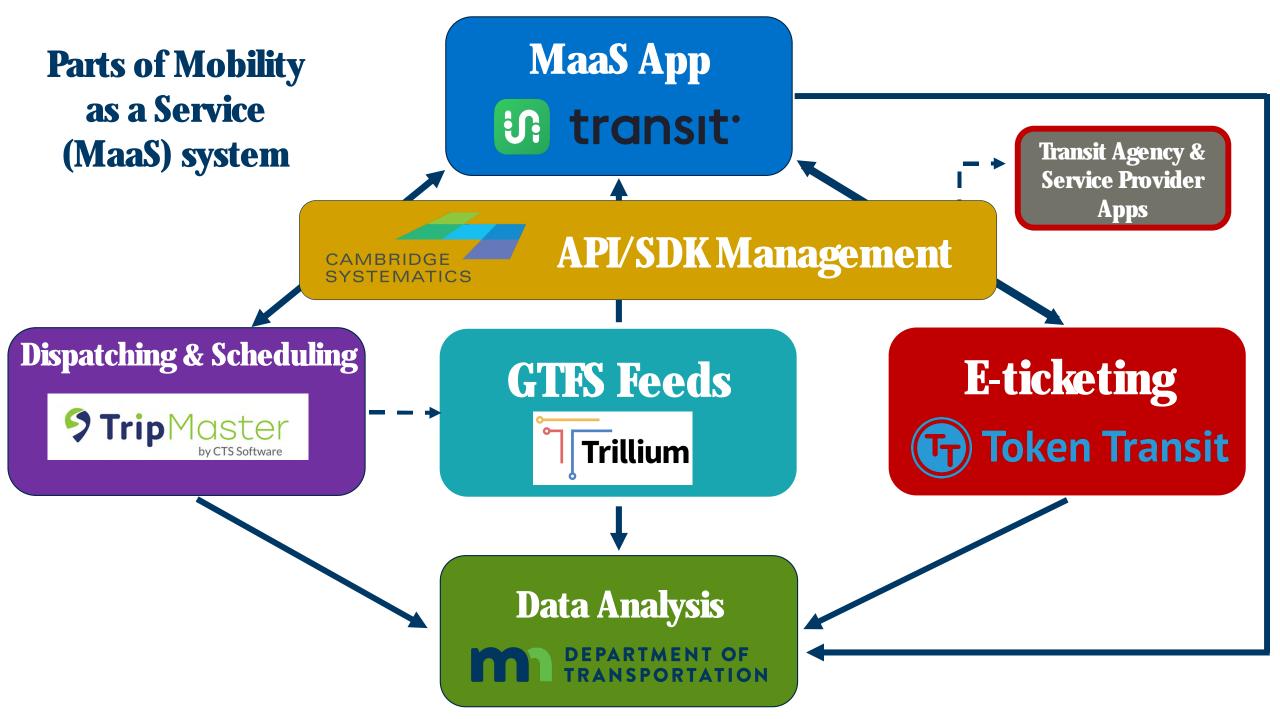


GTFS Development



E-ticketing





Lessons learned

- Transit technology will need more interoperability and regional approach in the future
- Most local transit partners struggle with procurements
- Rural transit is not sufficiently large to attract market interest if agencies procure individually
- Agencies still want to maintain local choice





Questions?



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Cal-ITP

MDOT Tech Talk

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Transit today is cumbersome...

for **riders**

- user-unfriendly
- unpredictable
- uncoordinated across agencies
- hard to apply for and get benefits

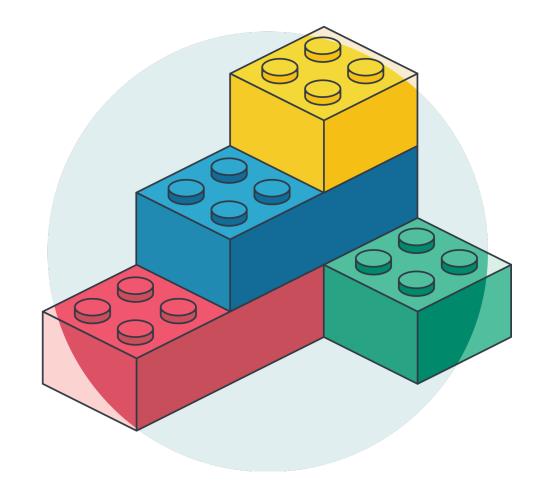
and transit agencies

- expensive to manage
- hard to attract and retain riders
- improvements are costly
- hard to manage benefits and discounts



Cal-ITP makes it simpler

In a state as large and diverse as California, payment systems and mobility data technology need to be interoperable across systems large and small, regardless of mode.





Cal-ITP objectives

Making travel easier, more equitable, and more cost-effective by...

- Providing accurate and complete information for trip planning in real time
- 2 Enabling open payment by bank card
- 3 Automating discounts





Cal-ITP objectives: By the numbers

Seattle:
30% shorter
perceived wait
times when riders
can access GTFS
Realtime data

London:
4-5% ridership
increase in first
 year of
 contactless
 payment

NYC:

10% increase in ridership in first year. 40% of payments are contactless



Washington, D.C.:
60% less
expensive to
collect fares by
bank card than
cash

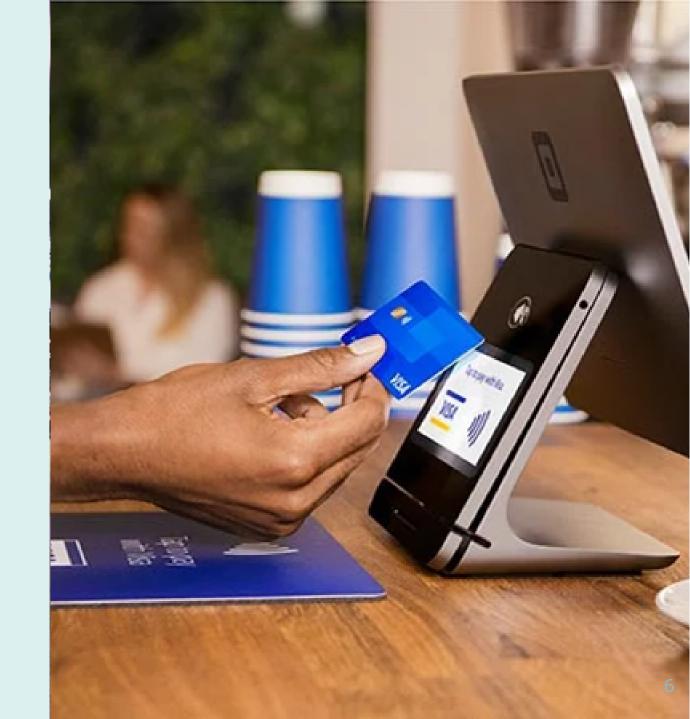
Global:
Dwell time **50% shorter** when riders tap vs.
swipe to pay



Vision: Let's make transit easy!

From a customer's perspective, paying for transit should be as easy as paying for a cup of coffee - customers know they can pay by tapping their bank card or smartphone without having to go to a ticket vending machine, no matter where they travel.





How does Cal-ITP work?

- 1. Riders tap their debit card, credit card, or mobile wallet like Apple Pay, Google Pay, etc.
- 2. Riders without a bank account can continue to pay cash and learn about banking options
- 3. Transit agency provides digital eligibility determination linked to debit/credit card (benefits.calitp.org)
- 4. Real time transit information in Google Maps & Apple Maps so you know when, where, and how much to ride!





Participating agencies

- Monterey-Salinas Transit
- Sacramento Regional Transit light rail
- Santa Barbara MTD
- Santa Barbara Clean Air Express
- LAX FlyAway*
- Capitol Corridor Amtrak train*
- Anaheim Transportation Network
- Mendocino Transit Authority
- Humboldt Transit Authority
- Lake Transit Authority
- Redwood Coast Transit





*Demonstration partner agency

Let's work together



How can we partner?

- Include us in meetings on payments, wayfinding or eligibility verification
- Raise public awareness of financial inclusion
- Use our products
- Encourage fellow agencies to promote financial inclusion









