TAPPY

GUIDE

BIO – 14 years of Automotive Experience

The founder, John Petrous graduated from Wayne State University with a bachelor's degree in Electrical and Computer Engineering. John spent 14 years in the automotive industry as an electrical engineer working for General Motors OnStar, Fiat Chrysler Automotive UConnect, and Ford Automotive My Ford Mobile. John specialized in vehicle telematics software development and electrical subsystem vehicle validation.
John is no stranger for helping people with disabilities. John comes from a family where his brother, sister, and 2 cousins were born blind. Blindness is a genetic disorder in his family.

-Angelo Binno Tappy Guide's lead Project Manager and will coordinate efforts with disability organizations and other key stakeholders. Angelo was born blind. Angelo's journey with Retinitis Pigmentosa has been marked by remarkable resilience and adaptability. Despite living in darkness, he has consistently demonstrated unwavering determination in overcoming obstacles. With a degree in political science and extensive experience working with municipalities, Angelo remains committed to enhancing mobility and developing innovative smart city solutions through technological advancements in urban planning. Angelo will be 100% dedicated to this project from birth to launch.

-Ann Petrous is the validation quality assurance specialists. Ann was born blind. Ann will lead the validation efforts with her team of disabled individuals to ensure quality and functionality of Tappy Guide. Ann has 5 years of experience as a validation quality assurance specialist. Ann helped with the development and validation of the Tappy Menu app that contains digital content for blind people. Ann will be 100% dedicated to this project from birth to launch.

-Salam Petrous is a Security specialist with over 20 years of experience managing Firewalls, IPS, Proxies, Vulnerability scanners, Incident Response, Risk, Compliance, and Audits. Salam will lead all security efforts for Tappy Guide. Salam will be 100% dedicated to this project from birth to launch.

WAYNE STATE UNIVERSITY

ELECTRICAL AND COMPUTER ENGINEER

STELLANTIS

LEAD UCONNECT/TELEMATICS SUBSYSTEM ENGINEER

OnStar by GM

LEAD GPS VALIDATION ENGINEER

Ford

LEAD ELECTRICAL SUBSYSTEM ELECTRICAL ENGINEER

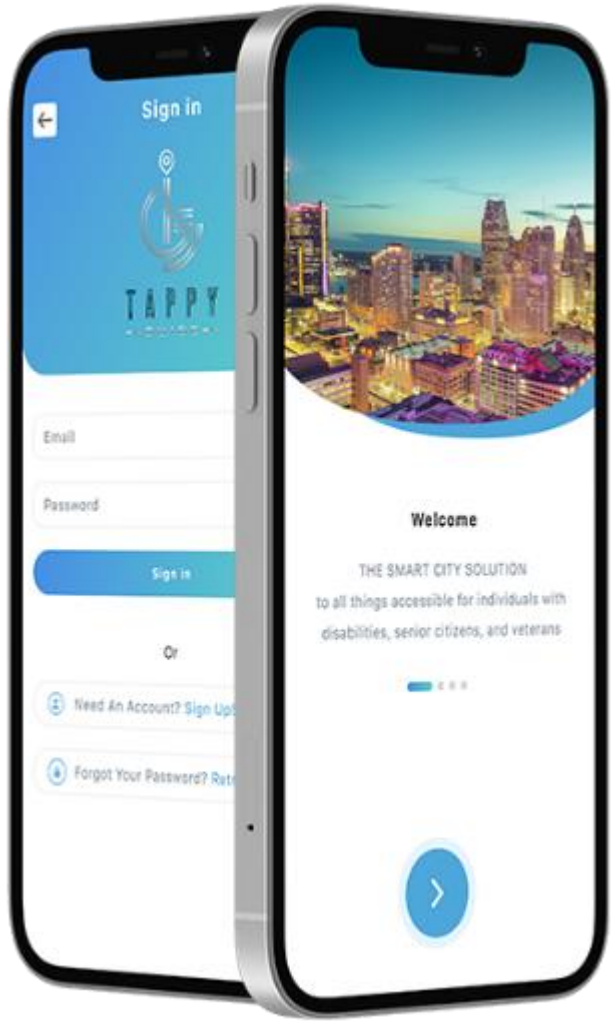
What is Tappy Guide?

A SMART City & Mobility Solution

Providing accessibility app for people with disabilities, senior citizens and veterans

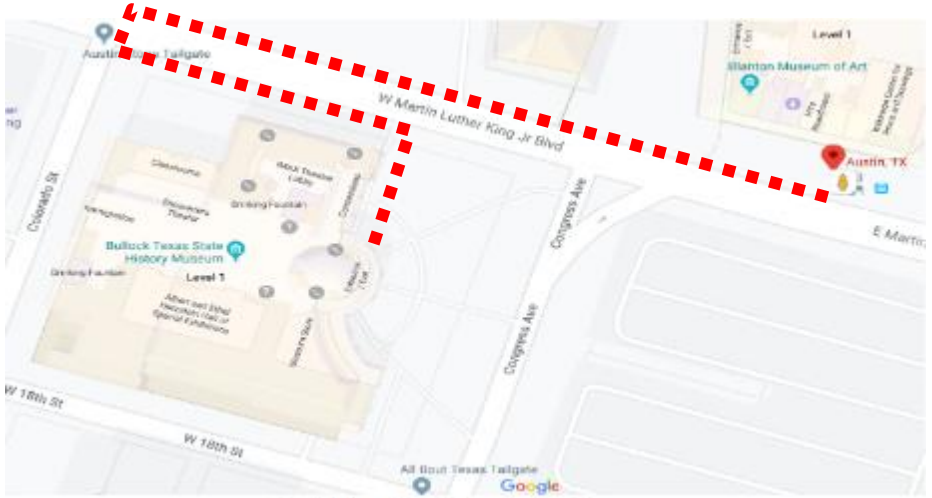
- Solution to the first mile/last mile Mobility problem. We provide indoor and outdoor navigation for directions and discovery when exploring new surroundings.
- Provides a virtual guide (live person) to assist in navigating mobility networks and everyday life needs with real time data and location services
- Operates using video feed from client/user and geospatial data provided by local governments
- Free to app client/user
- Can be operated using volunteer call center or hosted within an agency as part of a comprehensive suite of ADA services
- Provides both indoor navigation at participating businesses such as office buildings, airports, public buildings, grocery stores, sporting/concert venues, etc. as well as outdoor navigation

The complete tool for an active lifestyle.



How it works (Virtual Guide's Perspective)

- **Use Case:**
  - Ann, who is blind, is making her first trip to a downtown museum and is traveling via fixed-route transit. The fixed-route transit stop is two blocks from the museum and operator cannot deviate from scheduled location.
  - Note: actual example from Austin, TX.
- **Service Call:**
  - Ann is dropped off at a bus stop in an unfamiliar location relative to museum destination and entrance.
  - Ann uses her voice activated smartphone, turning on the Tappy Guide App and contacts the call center for assistance.
  - Because advisor can see Ann's current GPS location and the direction she is facing, advisor navigates for Ann, guiding her safely to the front entrance of the museum.



Real-time GPS of user's location

Live streaming video from user's cell phone

Pilots

2021 Ford City One Challenge Winners
KXAN News

Detroit Smart Parking Lab Pilot

Detroit, MI - Plug and Play Batch 4 Program

Orlando, FL - Plug and Play Batch 3 Program

Sugar Land, TX - Plug and Play Batch 1 Program

City of Detroit / State of Michigan (2025)

Las Vegas and Clark County (2025)

V2X-VRU Automotive OEM Partnership Fall 2025

Way-Finding: Mobility / Transportation

Blind and Low Vision:

- Vehicle Identification – AVs, Ride-Share platforms, Public/Private Transportation
- Intersections and Signal timing
- Bus stops
- Building entrances
- Safe sidewalks, etc.

Deaf and Hard of Hearing:

- Safely navigate around unfamiliar surroundings
- Communicate with other individuals in their area
- Notify them of environment sounds (i.e. emergency sirens, car horns).

Wheelchair Users:

- Accessible parking spots / lots / structures
- Accessible ramps and sidewalks
- Can determine if parking spaces are available (Bosch Automotive + Arrive partnership).
- Accessible sidewalks/curbs to access vehicles

Real-time Information:

- Help locate accessible businesses such as restaurants, bars, office buildings, etc.
- Provide riders with real-time information such as: What is my current location, how far am I from my destination, why is there traffic…

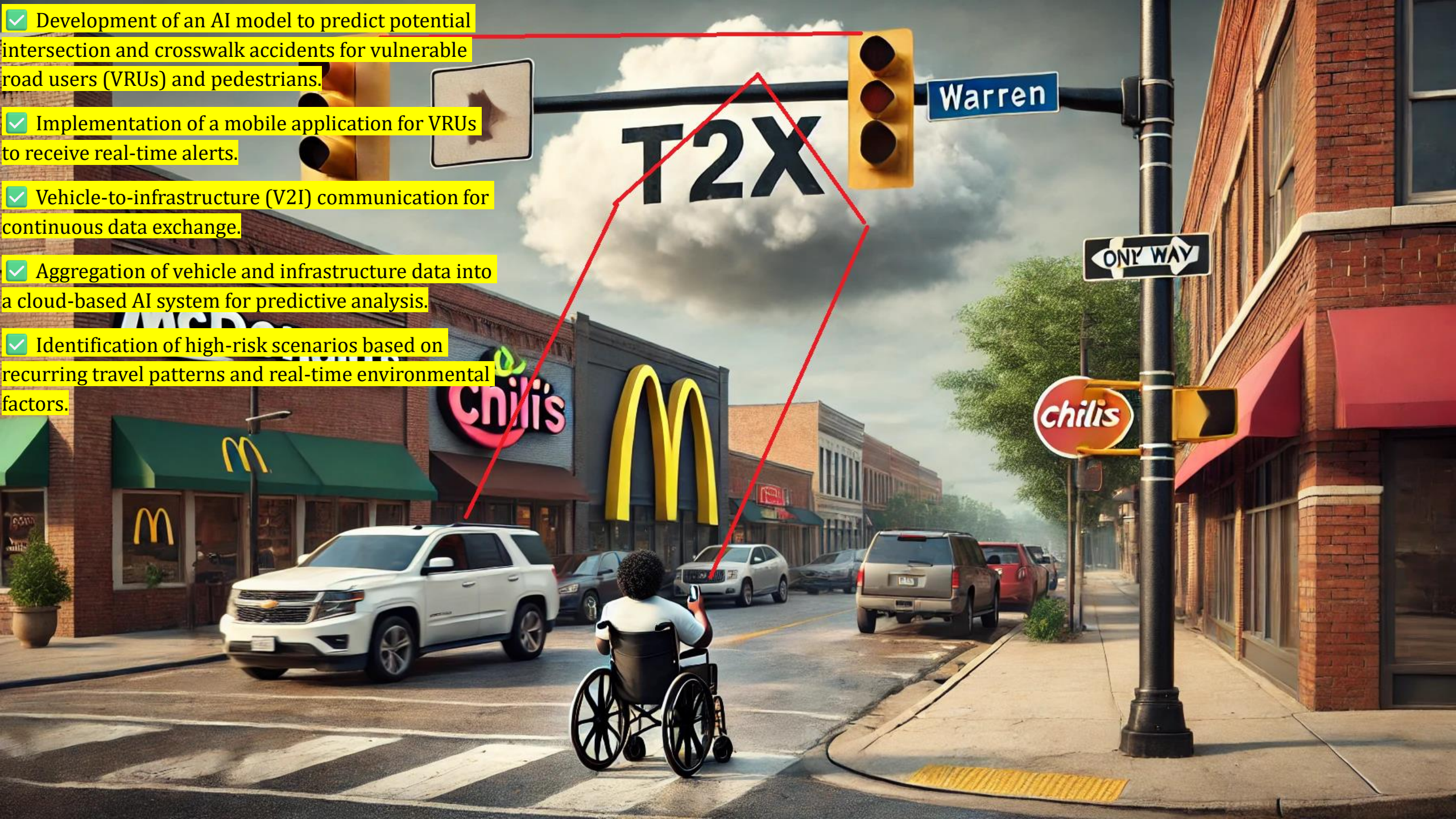
TAPPY GUIDE - Travel & Hospitality

🔑 Key Features:

- **Live Personal Assistance**
  Guests receive real-time support for navigating airports, hotels, train stations, and other venues through the Tappy Guide app.
- **Seamless Wayfinding**
  Step-by-step, human-guided navigation ensures individuals with visual, hearing, or mobility impairments can independently move through complex environments.
- **Accessible Concierge Services**
  Support with check-ins, amenity access, service requests, and communicating with staff—all from a single app interface.
- **Customized Guest Profiles**
  Users can set accessibility needs and preferences, ensuring a personalized and consistent experience across all hospitality touchpoints.

🏨 Where It Works:

- Airports & Train Stations
- Hotels & Resorts
- Theme Parks & Convention Centers
- Cruise Terminals & Travel Hubs


✅ Development of an AI model to predict potential intersection and crosswalk accidents for vulnerable road users (VRUs) and pedestrians.
✅ Implementation of a mobile application for VRUs to receive real-time alerts.
✅ Vehicle-to-infrastructure (V2I) communication for continuous data exchange.
✅ Aggregation of vehicle and infrastructure data into a cloud-based AI system for predictive analysis.
✅ Identification of high-risk scenarios based on recurring travel patterns and real-time environmental factors.
T2X
Warren
ONE WAY
Chili's
chilis

Business Model: One-Time Setup Fee + Monthly Subscription Fee

- Tappy Guide's business model is designed for long-term viability, offering a scalable solution through a combination of a one-time setup fee and ongoing monthly subscription fees. This model caters to a wide range of business needs by providing flexible annual subscription plans, from Basic to Enterprise, allowing businesses of all sizes to choose a plan that fits their requirements.
- The **one-time setup fee** covers the initial integration of Tappy Guide's technology into a business's infrastructure, such as mapping out indoor navigation for malls or hospitals, setting up accessible parking integrations for venues, or connecting public transit systems to our platform.
- Following the setup, Tappy Guide offers **monthly subscription plans** that provide ongoing support, system updates, and access to the platform's features. The plans range from Basic, which offers essential navigation services, to Enterprise, which includes full customization, real-time data analytics, and enhanced support features. This tiered structure allows businesses to scale their use of Tappy Guide as their needs grow, while ensuring continuous value.
- The goal during the pilot phase is to **demonstrate clear value** to our clients and sponsors, ensuring they see measurable improvements in accessibility, customer satisfaction, and overall user experience. By validating the effectiveness of Tappy Guide during the pilot, we aim to encourage businesses to commit to long-term subscriptions, moving from pilot to full deployment. This ensures that businesses will continue to invest in our solution as they see the benefits of improved accessibility, increased customer traffic, and positive brand recognition.

Target Markets:

- **Automotive OEMs + Autonomous Vehicle Companies**
- **Public & Private Transit Agencies:** i.e., SMART Bus, DDOT
- **Commercial Real Estate:** i.e., Shopping centers and malls, i.e., Bedrock properties, Somerset Mall
- **Airports:** i.e., DTW, Flint Airport
- **Hospitals:** i.e., Henry Ford Hospital Network, University of Michigan Hospital Network
- **Universities:** i.e., Wayne State University, Michigan State University
- **Parks:** i.e., Mackinac Island State Park, Petoskey State Park
- **Parking Facilities:** accessible parking lots, structures, spaces
- **Sporting Venues:** i.e., Little Caesars Arena, Ford Field, Comerica Park
- **Downtown Events:** i.e., Parades, art shows
- **Businesses:** i.e., Meijer, Kroger, Home Depot

The Ask

Resources

- City Resources
- Automotive & Autonomous Vehicle Companies
- Travel Companies
- Disability Organizations Resources

Thank you!

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