Otay Ranch Station

Mobility hubs are transportation centers located in smart growth areas served by high frequency transit service. They provide an integrated suite of mobility services, amenities, and technologies that bridge the distance between transit and an individual’s origin or destination. They are places of connectivity where different modes of travel—walking, biking, transit, and shared mobility options—converge and where there is a concentration of employment, housing, shopping, and/or recreation. This profile sheet summarizes mobility conditions and demographic characteristics around the Otay Ranch Station to help inform the suite of mobility hub features that may be most suitable.

The Otay Ranch Station is in suburban eastern Chula Vista adjacent to the Otay Ranch Town Center. The station was built to support South Bay Rapid and local bus services and is within close proximity to the South Bay Expressway. Several existing or planned residential villages surround the transit station with the goal of providing a mix of townhomes and single-family residences. The community also offers biking and walking routes for residents and visitors. The map below depicts the transit services and bikeways anticipated to serve the community in 2020.

2020 MOBILITY SERVICES MAP

In 2020, a variety of travel options will be available within a five minute walk, bike, or drive to the Otay Ranch Station.
DEMOGRAPHIC AND TRANSPORTATION HIGHLIGHTS

2020 Population and Employment

**POPULATION** = 50,013
By 2020, over 50,000 people will live within a five-minute drive of the Otay Ranch Station.

**EMPLOYMENT** = 10,677
In 2020, over 10,000 jobs will be accessible within a five-minute drive of the Otay Ranch Station.

2020 Transit Services

- **BUS**
  - Rapid and local bus
- **LIGHT RAIL**
- **HEAVY RAIL**

Average Weekday Boardings: 1,618

2020 Vehicle Ownership

Vehicle ownership rates account for all households within a five-minute drive of the Otay Ranch Station.

- Households with no vehicle: 4.6%
- Households with 1 vehicle: 16.4%
- Households with 2 or more vehicles: 79%

2020 Mode Share Among Residents

In 2020, residents within a five-minute drive of the Otay Ranch Station will use a variety of travel modes for both commute and non-commute trips.

- **% Drive Alone**: 49.7%
- **% Carpool**: 45.3%
- **% Walk**: 41.3%
- **% Bike**: 8.6%
- **% Transit**: 9.2%
- **% School Bus**: 0.7%
- **% Carpool**: 0.6%
- **% Transit**: 3.8%
- **% School Bus**: 2.4%
- **% Drive Alone**: 2.4%
- **% Walk**: 1.1%

Source: Series 13: 2050 Regional Growth Forecast/San Diego Forward: The Regional Plan in ABM 13.2.2
MOBILITY HUB OPPORTUNITIES

The Otay Ranch Station is centrally located within a master-planned community that was built to support a mix of homes, businesses, parks, and schools while promoting outdoor recreation. The community boasts an extensive pedestrian and bicycle network by way of trails, paseos, and promenades. The presence of low-speed streets within the Otay Ranch villages also encourages walking and biking as viable travel options.

Otay Ranch is unique in that it was designed with an extensive Village Pathway network that for inter-village carts, also known as neighborhood electric vehicles (NEVs). The network connects Otay Ranch villages to major community destinations and local transit routes. Existing and planned pathways are either 10 or 15 feet wide to accommodate pedestrians, casual cyclists, and NEVs. These pathways could also provide an opportunity to implement a shared fleet of NEVs for use by residents and visitors, thereby reducing traffic congestion and parking demand for short trips throughout the community.

The co-location of Rapid transit with the Otay Ranch Town Center may encourage residents to combine commute and personal trips. For example, the ability to run an errand at the retail hub prior to boarding transit reduces the need to make a separate trip. The provision of a secure group bike parking facility equipped with a repair stand at the transit station can help encourage recreational cyclists to consider biking as a commute alternative to driving alone. The shared parking lot also provides an opportunity to feature amenities like electric vehicle charging stations and smart parking technologies that inform retail patrons of available spaces, allow them to make parking reservations, and account for transitional use of parking areas based on changing needs.

The healthy mix of walking and biking networks paired with other mobility amenities and technologies can encourage Otay Ranch residents to frequently use Rapid transit for their daily travel needs. Additionally, the City of Chula Vista and San Diego Metropolitan Transit System (MTS) could partner with the Otay Ranch Town Center to incentivize patrons to use alternative transportation options when visiting the shopping mall.
RECOMMENDED MOBILITY HUB FEATURES

Mobility hubs depend on a complementary suite of transportation services, amenities, and technologies to deliver a seamless and reliable travel experience. Providing context-sensitive mobility hub features leverages existing transportation investments while anticipating the future of mobility in the San Diego region. Pedestrian, bike, and motorized solutions all play a role to enhance connections to transit while extending its reach into communities. The incorporation of electrified mobility options coupled with real-time technologies will reduce our region’s carbon footprint while providing a fully integrated trip planning experience. As on-demand and autonomous services become more ubiquitous, transit stations and their surrounding communities will need to adapt to ensure these services effectively meet the needs of users while positively contributing to the transportation landscape.

**Enhanced Transit Waiting Areas**

The provision of WiFi hotspots, USB charging ports, and transportation kiosks can further enhance the commuter experience at the Otay Ranch Rapid station.

**Bike Parking**

Secure group bike parking provides cyclists using the community’s village pathways with a convenient storage option and repair tools prior to boarding transit or shopping at the Otay Ranch Town Center.

**On-Demand Rideshare**

The use of pooled, on-demand rideshare services can provide convenient connections to/from Rapid transit. Future automation of on-demand rideshare services could provide the community with improved mobility options while also minimizing parking impacts.

**Walkways**

Otay Ranch features an extensive network of village paths. In addition to recreational use, this network of paths can facilitate connections between the transit station, adjacent retail, and residential community.

**Bikeshare**

Developer-sponsored bikeshare can provide residents with an additional mobility option for travel to transit and major destinations within the Otay Ranch community. Bikeshare could also be used by residents and visitors for recreational use.

**Neighborhood Electric Vehicle (NEV)**

A shared fleet of neighborhood electric vehicles (NEVs) could be used by residents to travel within the community and connect to Rapid transit using the village pathway network. New developments could be encouraged to subsidize a shared NEV fleet for residents.

**Electric Vehicle Charging**

Plentiful electric vehicle charging stations near the Rapid station can keep NEVs and personal EVs powered up for continued emission-free travel.

**Package Delivery**

Conveniently located package delivery lockers can assist Otay Ranch residents with handling frequent parcel pick-ups before boarding or exiting Rapid.

**Smart Parking**

Otay Ranch commuters can leverage smart parking technology to determine how much transit parking is available at the South Bay Rapid station while reserving spaces for carpools and NEVs.

**Universal Transportation Account**

An integrated system that offers Otay Ranch residents a seamless way to find, access, and pay for a wide range of mobility services and amenities is a key component of a mobility hub.
Otay Ranch Station (Existing Transit Station Area)
Defining the cities of tomorrow

Otay Ranch Station (Mobility Hub Concept)

Transit riders may reserve a parking spot within a designated area in advance of their Rapid trip. Parking spots may be reserved for riders carpooling to transit or in need of electric vehicle charging.

- Enhanced Transit Waiting Area
- Passenger Loading Zones
- Walkways
- Bikeways
- Crossings
- Bike Parking
- Dedicated Transit Lanes
- Neighborhood Electric Vehicle (NEV) Charging
- Smart Parking
- Parking Reservation System