University of Colorado **Denver**

DENVER'S MOBILITY HUB TYPOLOGY ANNIE RICE

PREPARED FOR: Carly Sieff ssociate Transportation Planner + Operations M c & Peers

The suite of mobility options available to consumers has expanded dramatically in recent years, with shared vehicles, shared micromobility, electric vehicles, and other emerging technology offering exciting new ways to travel. Mobility hubs, a relatively new transportation planning concept, unite emerging and traditional mobility options around transit.

Mobility hubs are central locations - usually high frequency transit stations - where multiple mobility options converge in order to make it easier for people to navigate the transportation system and expand service coverage by providing first and last mile connections. Crucially, hubs advance climate and equity goals by widening transportation choices for consumers beyond single occupancy vehicle travel and by improving access to opportunity for all users.

Planners in the Denver region have begun proactively thinking about mobility hubs, with CDOT and DRCOG funding hub development along key regional corridors, RTD outlining applicable hub amenities based on station contexts, and the City and County of Denver and Transportation Solutions conducting station area mobility hub planning studies along the southeast rail line.

PRIORITY MOBILITY HUBS BY TYPE

However, the City and County of Denver lacks an overarching plan that prioritizes hub selection, categorizes hubs, and specifies needed amenities based on the scale and context of the hub.

Ultimately, this study prioritizes 34 stations for mobility hub implementation based on daily ridership, density, and equity factors. It also classifies each station as a Neighborhood, Central, or Regional hub using Blueprint Denver Future Place Type, current land use, and density.

In the short term, mobility hubs have the potential to dramatically reinvent transit as a relevant choice for consumers and aid RTD's recovery as Denver emerges from the COVID-19 pandemic. Beyond that, mobility hubs hand Denver residents the freedom to travel via safe, affordable, reliable, convenient transportation.

In an environment in which users have many transportation options, including private vehicles and other enticing new travel technology, mobility hubs improve access to economic opportunity while reducing impacts on the environment.

Regional

_arge scale station areas in either dense urban areas or end of line stations where they connect to other regional transit providers, supported by a nigh density land use environment, adjacent to major destinations like airports, educational institutions, concentrated employment, museums, parks, stadiums, and shopping areas

Central

Mid-size stations

support or overlap

in urban, dense

context that

with regional

significance

hubs of greater

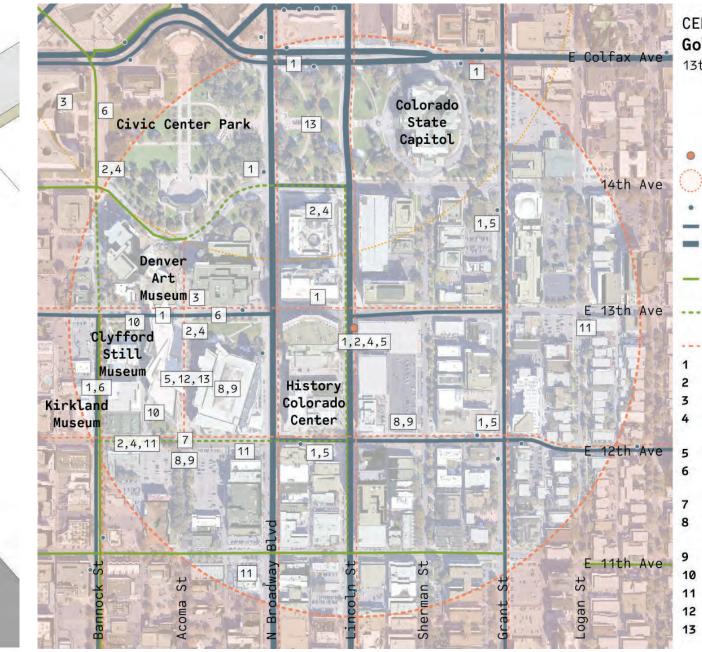
REGIONAL HUB: Ball Arena/Elitch Gardens Digital Fare payment Bike shelter + EV charging + Landscaping Printed Pick-up/drop-off arrival/ repair station priority parking

departure info

Elitch Gardens

Mobility hub Quarter mile hub buffer Bus stops - Bus lines High frequency transit corridors Existing bike facilities New connections to bike Safe walkways wayfinding 2 Fare payment station 3 Real time arrival/departure info Bike racks 5 Secure bike shelter 6 Bike repair station 7 Parking corral for e-scooters 8 Seating + shelter 9 Traffic calming elements 10 Pick-up/drop-off area 11 Priority parking for EVs/carshare 12 EV charging 13 Public art 14 Food options 15 Restrooms 16 Water fountain 17 Wifi





Mestizo-Curtis

Golden Triangle Hub 13th Ave + Lincoln St

REGIONAL HUB:

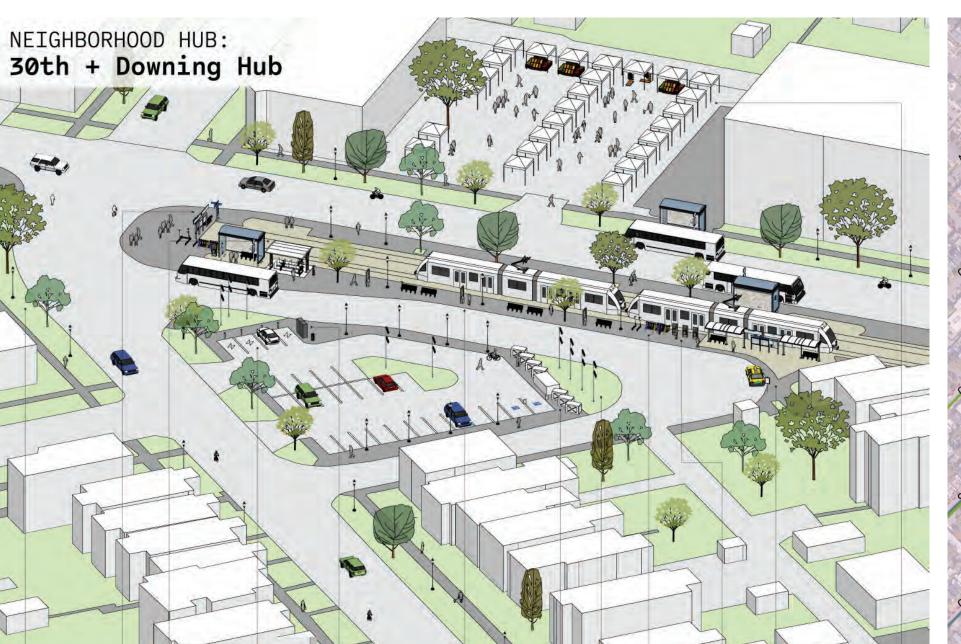
Gardens Hub

Ball Arena/Elitch

- Mobility hub Quarter mile hub
- Bus stops — Bus lines
- High frequency transit corridors Existing bike
- facilities - New connections to bike facilities
- Safe walkways Printed wayfinding 2 Bike racks
- 3 Bike repair station 4 Parking corral for
- Seating + shelter Traffic calming
- Pick-up/drop-off area 8 Priority parking for
- EVs/carshare EV charging
- 10 Public art
- 11 Food options
- 12 Water fountain

Neighborhood

Smaller local ncillary hubs in lower-density esidential areas or by community enters, libraries, or schools



Printed Bike shelter EV charging Package pickup Digital Bike Solar landscaping wayfinding + repair + priority + drinking wayfinding lockers power scooter payment drop-off area farmers

NEIGHBORHOOD HUB: 30th + Downing Hub Cole Arts &

Science Academy

1,4,7,13

Mobility hub Quarter mile hub buffer Bus stops

— Bus lines Existing bike facilities

 New connections to bike facilities

Safe walkways 1 Printed wayfinding

2 Fare payment station

Real time

arrival/departure info

4 Bike racks 5 Bike lockers

6 Bike repair station 7 Parking corral for

e-scooters 8 Seating + shelter

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EVs/carshare 12 EV charging

13 Public art 14 Food options

15 Water fountain

17 Package pick-up

