April 28, 2022

Secretary Pete Buttigieg
US Department of Transportation
1200 New Jersey Ave, SE
Washington, DC 20590

Subject: Letter of Support and Commitment, University of California at San Diego’s RAISE Grant Application “Voigt Electric Mobility Hub”

Dear Secretary Pete Buttigieg,

On behalf of Parking Guidance Systems, LLC (PGS), I am pleased to submit this letter of support for the University of California San Diego’s RAISE Grant Application “Voigt Electric Mobility Hub”. The Voigt Electric Mobility Hub seeks to support commuters and campus residents with 1,150 parking stalls, of which a minimum of 400 will include Level 2 EV charging and leverage industry-leading adaptive load management technology. The planned parking will support campus commuters and housing for more than 4,000 new residents, campus sporting events and performances at the nearby Epstein Family Amphitheatre. It will also provide a weekend parking option for southbound travelers on I-5, diverting private automobile trips to light rail and reducing impacts for historically disadvantaged communities in south San Diego.

Beginning in 2020, PGS and UCSD have partnered to make it easier for drivers to identify parking availability quickly and efficiently throughout campus. UCSD has leveraged our parking guidance technology to monitor real-time parking availability and seamlessly communicate to drivers where they are able to locate a parking space. PGS is committed to providing a parking guidance system for the Voigt Mobility Hub, which shall decarbonize transit, improve traffic flow, encourage electric vehicle usage, and help the University meet their parking demands with fewer spaces and less real estate.

**Decarbonize Transit**
Thirty percent of all traffic congestion is caused by vehicles navigating streets to locate parking, according to a recent study completed by Donald Shoup, a distinguished research professor in urban planning. The Urban Mobility Scorecard indicates that 3.1 billion gallons of gasoline are wasted within the United States due to congestion each year. Therefore, the 30 percent of wasted gasoline to vehicles navigating for parking equates to 930 million gallons of gasoline and 18.6 billion pounds of carbon dioxide emissions annually. The implementation of a parking guidance system will assist the University in seamlessly communicating parking availability to drivers, effectively reducing the carbon dioxide emissions and alleviating traffic congestion.
Abundant, Intelligent EV Charging
UCSD has committed to deliver a minimum of 400 Level 2 EV charging stations. With nearly 33% of parking spaces dedicated to electric vehicles, it is imperative that electric vehicle owners are able to quickly and efficiently identify an available station in real-time. The parking guidance system will allow The University to seamlessly communicate electric vehicle charging station availability in real-time, further encouraging the use of the electric vehicle charging stations to be deployed within the Voigt Mobility Hub.

Urban Mobility
Building more parking spaces has proven to have an adverse effect on urban mobility and future economic development. However, the Voigt Mobility Hub is designed to create viable transit through both new connectivity and decarbonizing existing transportation options, which further solidifies the University’s position as a nationally recognized leader in environmental and sustainability initiatives. A key component of the Mobility Hub is “right-sizing” the parking structure, to ensure that parking demand is met, while maximizing opportunity for future development. As part of the Voigt Mobility Hub, the parking guidance system will help minimize the need for additional parking spaces and shall optimize the occupancy the parking structure.

PGS is committed to deploying a parking guidance system throughout the UC San Diego campus, with an emphasis on providing an enhanced parking experience and reducing the carbon footprint. Our proven solution will work cohesively with the other cutting-edge technologies being deployed at the Voigt Electric Mobility Hub to assist the University in delivering an unprecedented last-mile connection to cultural and coastal resources.

UC San Diego is an award-winning organization and proven national leader in the transforming urban mobility. PGS believes they would be an excellent choice for RAISE funding and that the Voigt Electric Mobility Hub would both have transformational local impact and serve as a national model for an integrated approach to sustainable mobility.

Sincerely,

Derek Frantz
Vice President
Parking Guidance Systems, LLC