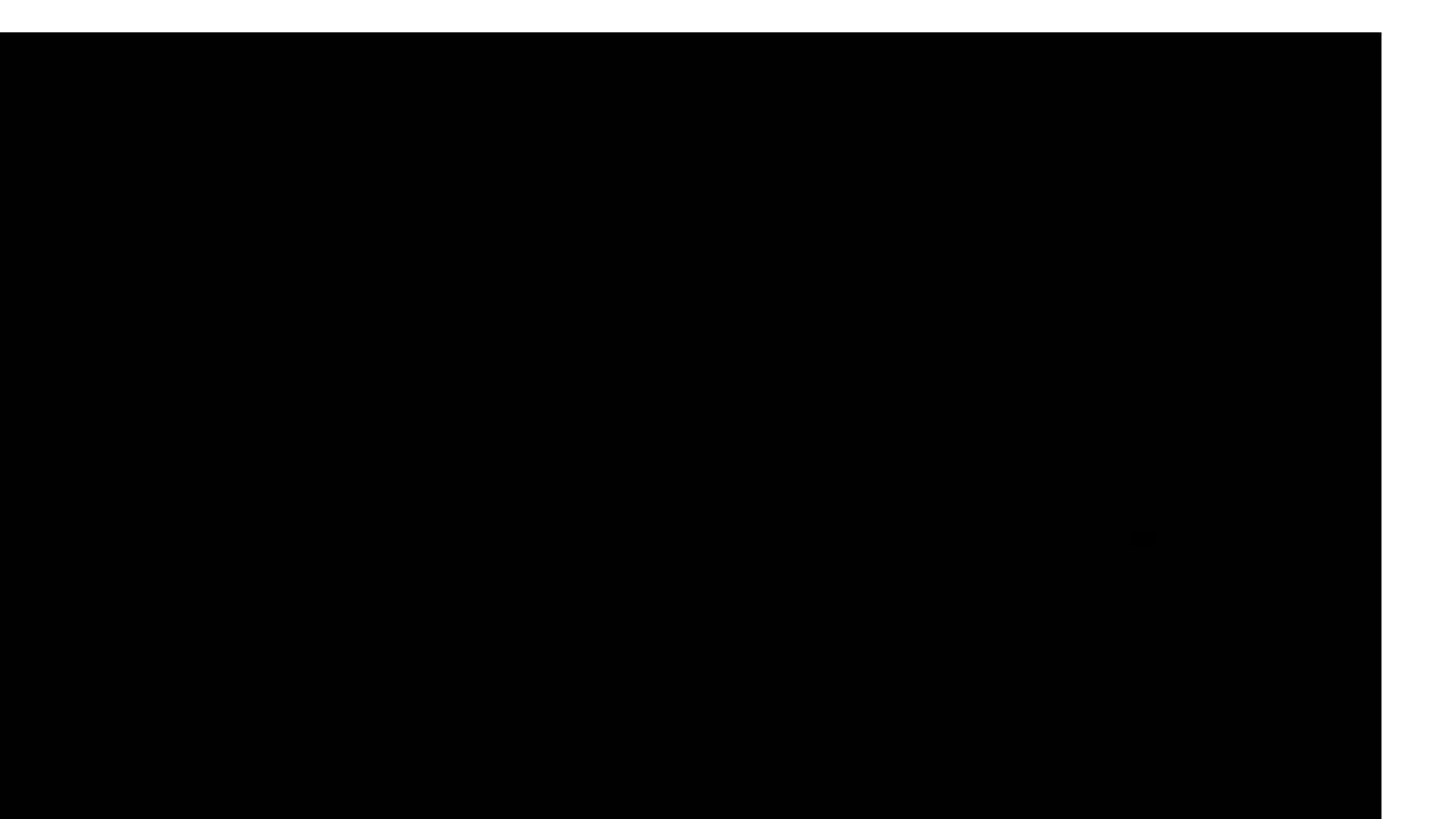


hyperloop  west

Los Angeles - San Diego - Tijuana - Ensenada

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TEAM

- **Juan Pablo Alatorre** is a designer specialized in the manufacture and design of architectural products and projects. He has worked in different professional and academic projects with an emphasis on speculative design in different cities in the United States and Mexico, ranging from urban schemes, design, product manufacture and furniture.

- **René Peralta** studied architecture at the New School of Architecture in San Diego, California and at the Architectural Association in London, England. From 2012-2014 he was Director of the Master of Science in Architecture with an emphasis on Landscape + Urbanism at the School of Architecture at Woodbury University in San Diego. He is currently a professor in the art+design program at San Diego State University (SDSU).

- **Alejandro Santander** is director of estudio santander, he has been recognized with regional, national and international awards and managed to be a finalist in multiple international competitions. He has participated in exhibitions in the United States, Mexico, Europe and Asia. Currently his work will be presented at the 2018 Venice Biennale.

- **Mario Lopez** has worked at the Center for U.S.-Mexican Studies at University of California, San Diego; at the Border Studies office of the California Department of Transportation (CALTRANS); at the Borders Committee of the San Diego Association of Governments (SANDAG), and as the Director of Operations for the South San Diego - County Economic Development Council (SCEDC).





Mega Region

Los Angeles

Long Beach

Irvine

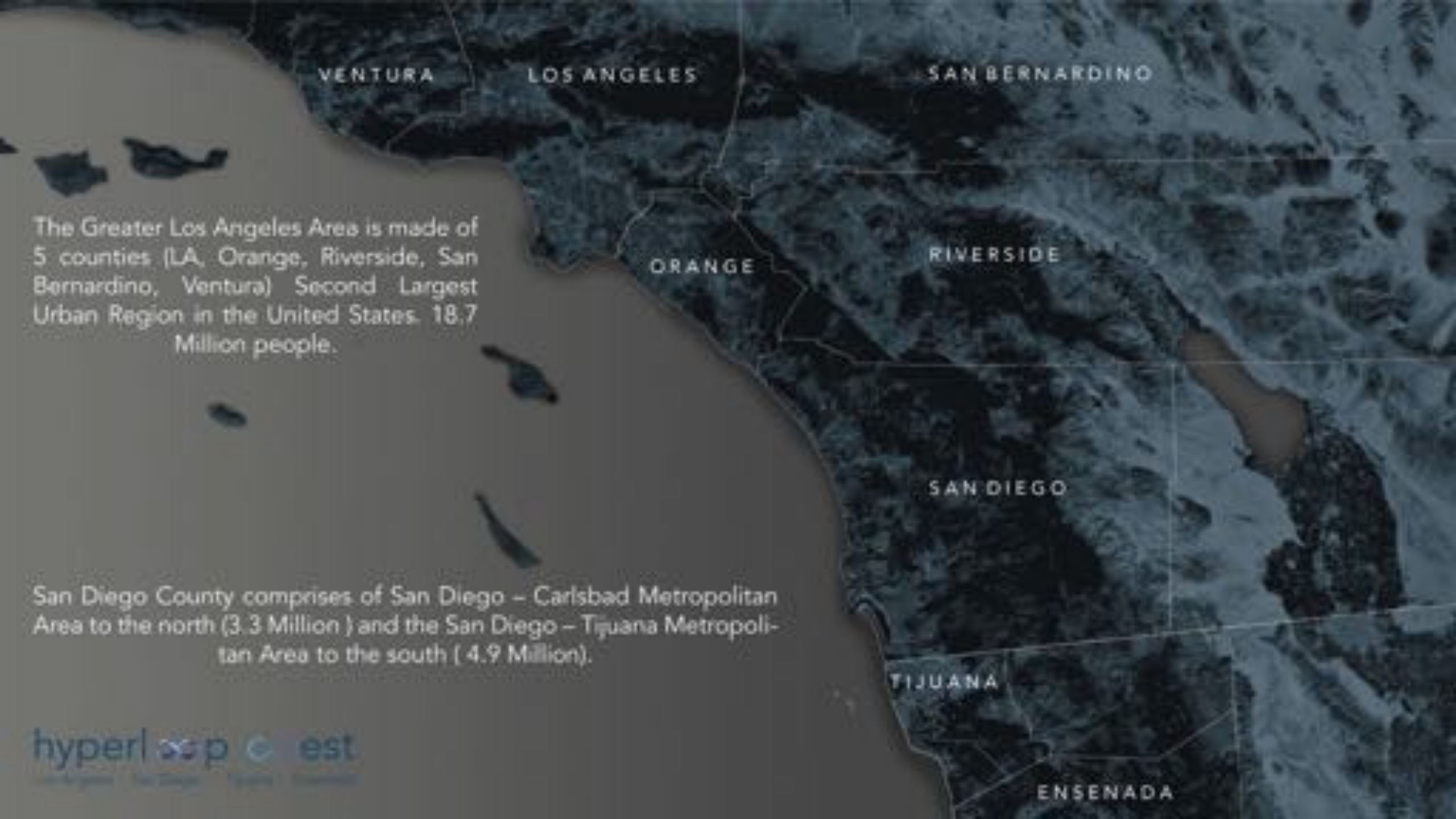
Solana Beach / North County

San Diego

Otay Mesa / South County

Tijuana / Otay

Ensenada

A map of Southern California showing county boundaries. The counties labeled are Ventura, Los Angeles, San Bernardino, Orange, Riverside, San Diego, Tijuana, and Ensenada. The map is overlaid with a semi-transparent dark blue layer containing text.

The Greater Los Angeles Area is made of 5 counties (LA, Orange, Riverside, San Bernardino, Ventura) Second Largest Urban Region in the United States. 18.7 Million people.

San Diego County comprises of San Diego – Carlsbad Metropolitan Area to the north (3.3 Million) and the San Diego – Tijuana Metropolitan Area to the south (4.9 Million).



Hyperloop West Corridor

Concept of the corridor

The Hyperloop West Corridor intends to take advantage of one of the most dynamic regions in the world. A region where international trade, scientific research, and cross border economic and social-cultural relationships are part of daily life. The team integrated for this project consists of individuals with specific knowledge of the corridor, who also are part of a sector that travels, lives and works across the region.

The corridor idea runs parallel to the point to point and on-demand transportation system objective, yet the team also envisions the making of a future urban ecology stimulated by regional autonomy; the ability to live, work, and play in an extended area. It can promote the concept of city-state sovereignty rather than nation state of a Westphalian model we have come to know.

The trajectory and proposed station locations

Hyperloop West is conceived as a two-phase project. The initial phase and the primary focus of this presentation is the San Diego to Los Angeles Corridor. A second phase will later be proposed that links the city of Tijuana and the port of Ensenada in Mexico.

The San Diego Region

Between 2008 and 2050, the San Diego region is expected to grow by 1.25 million residents and 500,000 jobs

Special economic clusters are on the rise and will be the future of the San Diego regional economy.

In 2012, SANDAG identified 13 industry clusters in the San Diego region, with a total of 331,410 jobs, representing 27% of the region's employment in 2010; in 2015, these cluster jobs had grown to 354,641. On average, industry cluster jobs still pay higher wages (\$60,900) than the regional average (\$49,200).

San Diego's Biotechnology and Pharmaceuticals and Entertainment and Hospitality clusters also saw strong growth post-recession.

Source: Traded Industry Clusters in the San Diego Region: 2016 Data Update. SANDAG

Otay Mesa

The Otay Mesa POE is California's largest commercial land port of entry.

New projects include: The Metropolitan Airpark (MAP) is a multi-phased development that includes 331 acres of development at the airport including airside facilities with a new jet fixed based operation, T-hangars and heliport, over 1.3 million square feet of industrial and commercial space, a 6-8 MW solar field, as well as hotels and restaurants.

At full build-out, Metropolitan Airpark will provide 4,000 permanent jobs, 8,000 long-term construction jobs, and is anticipated to bring \$500 million in annual revenue to the region.

Otay Mesa

Mexico

Otay II Port of Entry

Otay Mesa Port of Entry

Tijuana International Airport

USA

Cross Border Xpress

Brown Field Airport

Photo credit: <http://www.enlajmexico.org/>



Otay Mesa

The Otay Mesa POE is a multi-modal (commercial, passenger vehicles, and pedestrians) international processing land POE. The POE is the busiest commercial facility on the California-Baja California international border.

Otay Mesa is primarily a maquila crossing, where merchandise parts are shipped Southbound into the Tijuana area to be assembled and shipped Northbound into the US for delivery to distribution centers and retail stores.


The port handles the second-highest volume of trucks, and the third highest dollar value of trade among all United States (U.S.)-Mexico land POEs. In 2013, the Otay Mesa POE handled approximately 1.5 million trucks.

Otay Mesa / CBX

Otay Mesa also has the Cross Border Xpress the only cross border Airport facility in the country that serves passengers on both sides of the border. Users can access the more than 30 destinations within Mexico that TJJ offers, many of which are not served by other Southern California airports. TJJ also has direct flights to Shanghai and Beijing.

Source: <http://www.cdb.gov/otact/ports/otay-mesa>

Photo credit: <http://www.domusweb.it/en/news/2016/11/14/Tejocoma-terza-border-express.html>



Otay Mesa / CBX

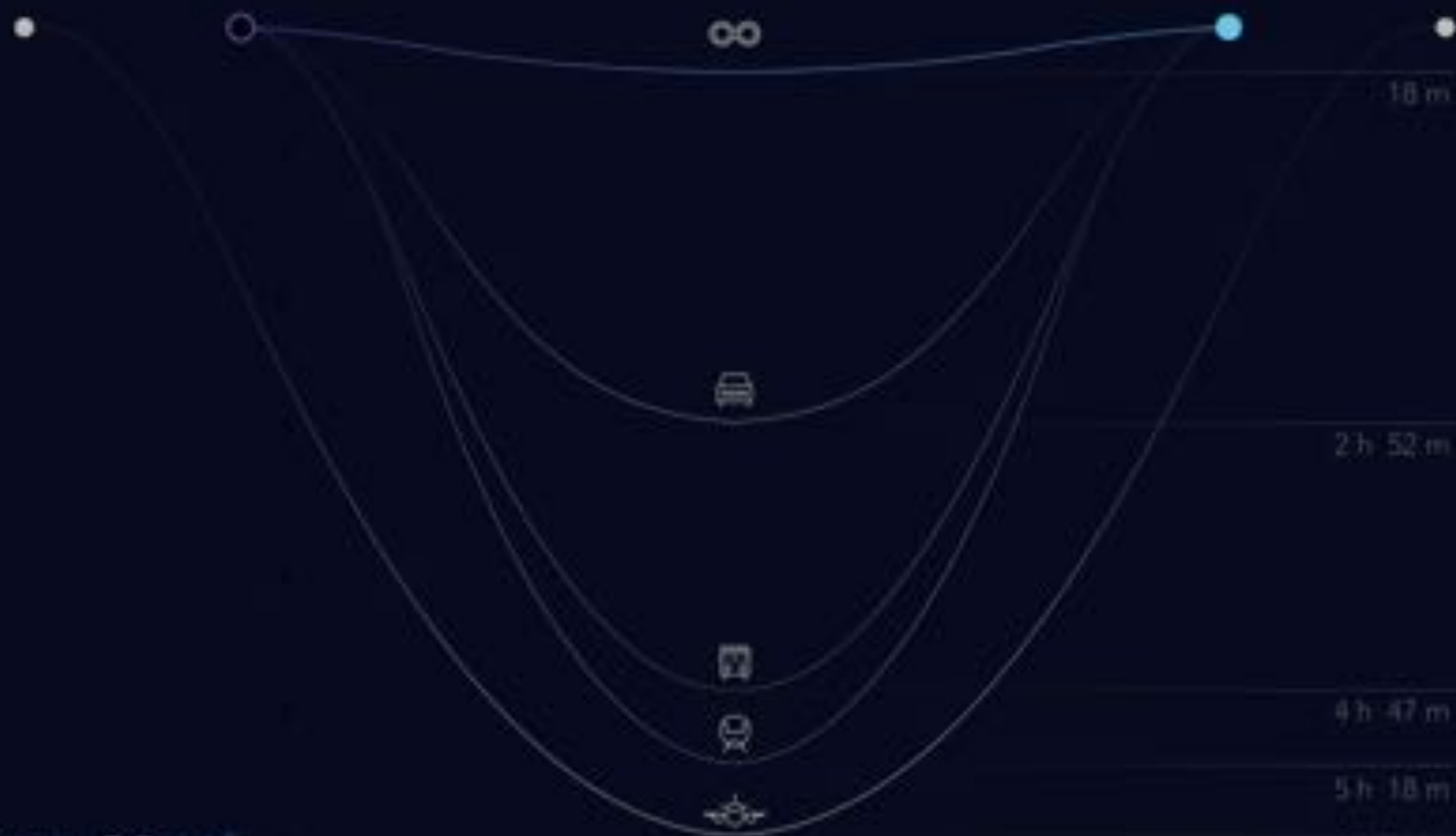
CBX skywalk is the first ever to connect a facility in the U.S. directly into a foreign airport terminal. CBX serves approximately 2.4 million passengers who already cross the border as part of their travels, helping them avoid long delays at congested San Ysidro and Otay Mesa land ports of entry.

Source: <http://www.dbp.gov/contact/ports/otay-mesa>

Photo credit: http://www.domusweb.it/en/news/2016/11/14/legomita_cross_border_express.html

LOS ANGELES

SOUTH COUNTY / OTAY MESA



The urban potential of the Hyperloop West Corridor

The urban impact Hyperloop can have in the region is comparable to the one the National Highway System of the United States had in the late 1950's across the country. The freedom of the automobile allowed the suburbs to grow and become the stage for the American Dream. Today, due to congestion and other environmental factors caused by accelerated urban growth, cities are struggling to find ways to move people around from residential sectors to employment centers.

LOS ANGELES

Medium Housing Price: 636,000 USD
Minimum Wage: 12.00 USD/HOUR

ORANGE COUNTY

Medium Housing Price: 691,600 USD
Minimum Wage: 10.50 USD/HOUR

SAN DIEGO

Medium Housing Price: 500,000 USD
Minimum Wage: 11.50 USD/HOUR

TIJUANA

Medium Housing Price: 61,000 USD
Minimum Wage: 5.00 USD/DAY

ROSARITO

Medium Housing Price: 61,000 USD
Minimum Wage: 4.35 USD/DAY

ENSENADA

Medium Housing Price: 200,000 USD
Minimum Wage: 4.45 USD/DAY

hyperloop est

Los Angeles - Sacramento - San Diego - Phoenix

Los Angeles

Orange
County

US
MX

San Diego

Tijuana

Rosarito

Ensenada

We believe Hyperloop West can achieve the following:

- Allow people to live and work where they choose. By having options to travel rapidly at longer distances, people can choose to live near family, a specific cultural region, and within the social networks important to them.
- Allow people to work where wages are higher and live where rents are lower. A new urbanism that moves away from the politics of segregation and exclusion.
- It can allow educators and students from all levels to seek knowledge in places that were not accessible before. Knowledge and culture can be shared across cities and even countries at a more constant rate. Hyperloop West can be part of a corridor of learning, what the British architect Cedric Price once called a "think belt", fostering the growth of the knowledge economy in the region.
- The restructuring capacity of transportation system such as Hyperloop West can make cities and regions rethink the potential of open landscapes, public space and other possible strategies of interaction that will emerge in the 21st century.

Photo credit: https://hyperloop-one.com/sites/default/files/styles/blog_image/public/2016-10/post-towers_1465235930914.jpeg?tok=WDYdmfOn

Source: The American Highway: The History and Culture of Roads in the United States. By William Kayzrich

Environmental and Public Health Benefits/ Cap and Trade opportunities

Pollution indicators:

- Ozone: amount of ozone in excess of the state's 8-hour ozone standard (0.07 parts per million) was calculated.
- PM2.5: Measure of PM2.5 concentrations. Particulate Matter is a mixture that can include organic chemicals, dust, soot and metals. These particles can come from cars and trucks, factories, wood burning, and other activities.
- Diesel Particular Matter: Exhaust from trucks, buses, trains, ships, and other equipment with diesel engines contains a mixture of gases and solid particles.

Traffic Density: exhaust from cars and trucks are the main source of air pollution in much of the state.

Among other socioeconomic and health factors.

Proposed Phases

- Integrate expert organizations into a working coalition
- Continue feasibility study on both sides of the border
- Select a test route along the US/MX border
 - Otay 2 to Jacumba (cargo)
 - San Quintin to Otay Mesa (cargo)
 - Tijuana to Ensenada (Cargo and passengers)
- Organize a working event with interested parties and Hyperloop One in 2018

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