Our Space Database Documentation:

Base layers and contextual variables listed here are current as of July 2014. New data layers and contextual variables are consistently being updated and added to the database. This is a summary and not a complete listing of data layers and attributes in the Our Space database. Layers and variables currently in progress are not listed. Some data layers may not cover the entire study area extent or time period. For more information or to request an up to date data listing please contact Our Space.

Our Space Database Base Layers:

Base Layer Name	Data Source(s)	Data Provider(s)	Spatial Feature Description	Strategy & Description	Spatial Data Type
Food Environment					
Commercial Retail Outlets	National Establishment Time-Series (NETS) Database	Walls & Associates (based on Dunn & Bradstreet)	Lat/Long point locations of all businesses in California with addresses	Categorized into supermarket, convenience store, fast food, etc. by database attributes (i.e. industry code (SIC code), business name, sales volume, employee count)	Vector point
Commercial Retail Outlets	InfoUSA Business Data	ESRI Business Analyst	Lat/Long point locations of all businesses in USA with no addresses	Categorized by database attributes (i.e. industry code (NAICS & SIC code), business name, sales volume, employee count)	Vector point
Food Service Providers	County Departments of Public Health	County Departments of Public Health	Addresses of county registered food service providers	Validation for other food retail databases	Vector point
Farmer's Markets	California Federation of Certified Farmer's Markets (CAFCFM) & US Department of Agriculture (USDA) Agricultural Marketing Service (AMS)	California Federation of Certified Farmer's Markets (CAFCFM) & US Department of Agriculture (USDA) Agricultural Marketing Service (AMS)	Addresses (CAFCFM) & Addresses and lat/long (USDA) of farmer's market locations	Component of food environment produce data	Vector point
Women Infant and Children (WIC) Supplemental Nutrition Program Vendors	California Department of Public Health	California Department of Public Health	Addresses of WIC venders	Provides locations of Women Infant and Children (WIC) Supplemental Nutrition Program vendors	Vector point
Supermarket Access & Food Expenditures	Jim Herries (ESRI)	ESRI	Data are in map form only.	Data comparison	Internet map package
Food Desert Index	United States Department of Agriculture (USDA)	United States Department of Agriculture (USDA)	Food Desert Index as defined by the USDA Healthy Food Financing Initiative (HFFI) Working Group using 2000 Census tracts	Data comparison	Vector polygon
Food Banks	California Association of Food Banks	California Association of Food Banks	Addresses of food banks	Location and type of food assistance programs for low-income populations	Vector point
Physical Activity Environment					
Greenness Coverage	Landsat 5 Thematic Mapper (TM)	National Aeronautics and Space Administration (NASA)	30 m spatial resolution 8 band satellite imagery	Derived vegetation using Normalized Difference Vegetation Index (NDVI)	Raster
Parks and Recreation Areas	California Protected Areas Database (CPAD) & TeleAtlas	GreenInfo Network & ESRI Business Analyst	Polygons of parks and open space	Measure of physical activity resources; Recreation and open space areas, e.g., parks & open space	Vector polygon
Commercial Physical Activity Resources	NETS & InfoUSA	Walls & Associates (based on Dunn & Bradstreet) and ESRI Business Analyst	Lat/Long point locations of all businesses in California with addresses	Measure of physical activity resources (i.e. gyms, YMCAs, yoga studios, swimming pools, community centers, etc.)	Vector point
Public and Private Schools	California Department of Education	California Department of Education	Addresses of schools and school type	Measure of physical activity resources and public and private school educational & recreational services	Vector point
Bicycle Routes	California Department of Transportation, Metropolitan Transportation Commission, Sacramento Area Council of Governments (SACOG), & County Planning Departments	California Department of Transportation, Metropolitan Transportation Commission, Sacramento Area Council of Governments (SACOG), & County Planning Departments	Line features of recommended bicycle paths as alternatives to busy roads and designated bike routes	Active transportation travel routes	Vector polyline
Park Facilities	GreenInfo Network	GreenInfo Network	Points of park centroids	Attribute info for types of facilities at public parks (i.e. playgrounds, tennis courts, etc.)	Vector point
Social Environment					
Socio-demographics	US Census	US Census Bureau, United States Department of Commerce	Polygons (County, tract, block group, block)	Race/ethnicity, income, housing, transportation, composite neighborhood deprivation, etc.	Vector polygon
Community Tapestry	ESRI Tapestry Segmentation	ESRI Business Analyst	Polygons (County, tract, block group, ZIP code)	Estimates of socio-demographic characterizations and purchasing patterns	Vector polygon
Traffic Safety Data	Transportation Injury Mapping System (TIMS)	UC Berkeley Safe Transportation Research and Education Center (SafeTREC)	Point locations of vehicle, pedestrian, and bicycle collisions that resulted in injury or mortality	Safety indices for communities	Vector point
Crime	Federal Bureau of Investigation (FBI) Statistics Division, County & Municipal Police Departments	Federal Bureau of Investigation (FBI) Statistics Division, County & Municipal Police Departments	Law enforcement agency level crime reports and arrest data by type. Includes municipal and county level crime statistics.	Safety indices for communities	Vector polygon
Cadastral	County Planning & Assessor's Departments & Sacramento Area Council of Governments (SACOG)	County Planning & Assessor's Departments & Sacramento Area Council of Governments (SACOG)	Parcel polygons	Characterize neighborhood structure; real estate values & taxes	Vector polygon

Base Layer Name	Data Source(s)	Data Provider(s)	Spatial Feature Description	Strategy & Description	Spatial Data Type
Land Use	Metropolitan Transportation Commission (MTC) & County Planning Departments	Metropolitan Transportation Commission (MTC) & County Planning Departments	Polygons of parcels or land use features with land use designation	Component of walkability index	Vector polygon
Zoning	California Legacy Project & County Planning Departments	California Legacy Project & County Planning Departments	Polygons of zones from Zoning or General Plans Database	Indicator of land use and development areas	Vector polygon
Political Districts	ESRI Business Analyst & State of California	ESRI Business Analyst & State of California	Polygons of State & Congressional districts	Political zones	Vector polygon
Neighborhood Boundaries	Factle Map Company and Zillow	Factle Map Company and Zillow	Polygons of neighborhood boundaries only for major urban areas	Alternative neighborhood measure to census units	Vector polygon
Car Ownership	California Dept. of Motor Vehicles (DMV) & US Census	California Dept. of Motor Vehicles (DMV) & US Census Bureau, United States Department of Commerce	DMV: Polygons of ZIP codes; US Census: Polygons (County, tract, block group, block)	Indicator of accessibility	Vector polygon
Healthcare Facilities	California Office of Statewide Planning and Development (OSHPD)	California Office of Statewide Planning and Development (OSHPD)	Addresses of health facilities and facility type	Includes major medical facilities, public health clinics, and social services offices; Provides information on healthcare service access and proximity	Vector point
Foreclosure Risk Index	U.S. Department of Housing and Urban Development (HUD)	U.S. Department of Housing and Urban Development (HUD)	Polygons of 2000 Census tracts		Vector polygon
Urbanized Area	US Census	US Census	Polygons of 2010 urban areas		Vector polygon
Kaiser Northern California Healthcare Facilities	California Office of Statewide Planning and Development (OSHPD) and Kaiser	California Office of Statewide Planning and Development (OSHPD) and Kaiser	Addresses of health facilities and facility type	Includes major medical facilities, public health clinics, and social services offices; Provides information on healthcare service access and proximity	Vector point
Population Characterizations and Projections	ESRI Consumer Spending	ESRI Business Analyst	Polygons (County, tract, block group, ZIP code)	Census and purchasing patterns; Annual estimates of socio-demographic compositional data	Vector polygon
Pollution					
Regulated Facilities Air Emissions	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities regulated by the USEPA that release pollutants into the air	Base-layer, environmental and disamenity indicator	Vector point
Superfund Sites (CERCLIS)	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities designated as Superfund sites by the USEPA	Base-layer, environmental and disamenity indicator	Vector point
Regulated Facilities Toxic Releases (TRI)	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities regulated by the USEPA that release toxic substances into the environment	Base-layer, environmental and disamenity indicator	Vector point
Regulated Facilities Hazardous Waste (RCRAInfo)	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities regulated by the USEPA that handle materials designated as hazardous waste	Base-layer, environmental and disamenity indicator	Vector point
Regulated Facilities Water Dischargers (PCS/ICIS)	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities regulated by the USEPA that discharge to United States waters	Base-layer, environmental and disamenity indicator	Vector point
Regulated Brownfields (ACRES)	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	The real properties regulated by the USEPA where the expansion, redevelopment, or reuse may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant	Base-layer, environmental and disamenity indicator	Vector point
Regulated Facilities Biennial Reporting (BR)	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities regulated by the USEPA that handle materials designated as hazardous waste	Base-layer, environmental and disamenity indicator	Vector point
Regulated Facilities RADInfo	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities that are regulated by the USEPA regulations for radiation and radioactivity	Base-layer, environmental and disamenity indicator	Vector point
Toxic Substances Control Act (TSCA) Facilities	U.S. Environmental Protection Agency	U.S. Environmental Protection Agency	Facilities regulated by the USEPA that produce, import, use, and dispose of specific toxic substances including polychlorinated biphenyls (PCBs), asbestos, radon and lead-based paint	Base-layer, environmental and disamenity indicator	Vector point
Air Quality	California Air Resources Board (CARB) & Public Health Dept. UC Berkeley	California Air Resources Board (CARB) & Public Health Dept. UC Berkeley	Polygons of 2000 census tracts with monthly average data from 1988-2002 of NO2 (ppb) and PM2.5 (ug m-3) from CARB monitoring sites.	Environmental health variable	Vector polygon
Transportation					
Road Network	TeleAtlas	ESRI Business Analyst	Polyline network of roads	Assess travel times and services areas; geocode addresses; street connectivity & accessibility; Roads with speed limit and address attributes	Vector polyline
Public Transportation: Intracity Bus	Metropolitan Transportation Commission (MTC), California Department of Transportation, County Departments of Transportation, & regional transportation agencies	Metropolitan Transportation Commission (MTC), California Department of Transportation, County Departments of Transportation, & regional transportation agencies	Points of transit stops and polylines of fixed transit routes	Component of accessibility index	Vector polyline & vector point
Public Transportation: Ferries	California Department of Transportation & TeleAtlas	California Department of Transportation & ESRI Business Analyst	Polylines of commuter ferry routes	Component of accessibility index	Vector polyline
Public Transportation: Heavy & light rail	Metropolitan Transportation Commission (MTC), Sacramento Area Council of Governments (SACOG), California Department of Transportation, & County Departments of Transportation	Metropolitan Transportation Commission (MTC), Sacramento Area Council of Governments (SACOG), California Department of Transportation, & County Departments of Transportation	Points of transit stops and polylines of transit routes	Component of accessibility index	Vector polyline & vector point
Truck Networks	California Department of Transportation	California Department of Transportation	Line features of truck networks on state highways	Exposure to diesel exhaust	Vector polyline

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Rail Lines & Stations	California Department of Transportation & TeleAtlas	California Department of Transportation & ESRI Business Analyst	Line features of heavy and light railroad lines, including Amtrak, commuter, and local train lines	Travel routes, travel times, means of access; noise	Vector polyline & point
Intercity Bus Terminals	California Department of Transportation	California Department of Transportation	Points of intercity bus terminals; includes Greyhound and Amtrak bus terminals	Component of accessibility index	Vector polyline & point
Traffic Volume	Dynamap	TeleAtlas/GDT	Polylines of ferry and road network with traffic volume.	Indicator of traffic volume, air, and noise pollution	Vector polyline
Airports	TeleAtlas & California Department of Transportation	ESRI Business Analyst & California Department of Transportation	Points of airports and attributes, polylines of airport runways, and polygons of airport boundaries	Indicator of air and noise pollution	Vector point, line, polygon
Ports	TeleAtlas & California Department of Transportation	ESRI Business Analyst & California Department of Transportation	Points of marine ports & polygons of port boundaries	Indicator of air and noise pollution	Vector point & polygon
Climate					
Precipitation	PRISM Climate Group	Northwest Alliance for Computational Science & Engineering, Oregon State University	4km spatial resolution average precipitation units in mm	Environmental health variable	Raster
Temperature	PRISM Climate Group	Northwest Alliance for Computational Science & Engineering, Oregon State University	4km spatial resolution average maximum and minimum temperature units in degrees C	Environmental health variable	Raster
Background Data					
Orthophotographs	National Agriculture Imagery Program (NAIP)	U.S. Department of Agriculture (USDA)	1 m spatial resolution; natural color digital aerial photography; 3-bands pre 2009 and 4-bands post 2009	Imagery base-layer	Raster
Digital Elevation Model	National Elevation Dataset Digital Elevation Model (NED-DEM)	U.S. Geological Survey (USGS)	3-D terrain data at 10 m spatial resolution (1/3 arc-second)	Topography to characterize walkability and derive elevation variables such as slope and aspect	Raster
Hydrology	TeleAtlas & U.S. Bureau of Reclamation	ESRI Business Analyst & California Spatial Information Library (CaSIL)	Polylines and polygons of water features and bodies	Base-layer	Vector polyline & vector polygon
Geographic Names	Geographic Names Information System (GNIS)	U.S. Geological Survey (USGS)	Points of current and historical physical and cultural geographic features and names	Base-layer	Vector point
Land Cover	National Land Cover Database (NLCD)	Multi-Resolution Land Characterization (MRLC) Consortium	30 m spatial resolution land cover product derived from Landsat; data products include: Land cover, canopy cover and impervious	Base-layer, environmental indicator	Raster
County Boundaries	ESRI & California Department of Forestry and Fire Protection (CAL FIRE)	ESRI Business Analyst & California Spatial Information Library (CaSIL)	Polygons of county boundaries	Base-layer	Vector polygon
Native American Land Boundaries	US Census Bureau	US Census Bureau, United States Department of Commerce	Polygons of Native American land and reservation boundaries	Base-layer	Vector polygon
School District Boundaries	US Census Bureau	US Census Bureau, United States Department of Commerce	Polygons of unified, elementary, & secondary school district boundaries	Base-layer	Vector polygon
Crop Land Cover	Crop Data Layer	U.S. Department of Agriculture (USDA) National Agricultural Statistics Service (NASS)	Raster data of crop type land cover	Base-layer	Raster

Our Space Database Contextual Variables:

Variable	Description	Base Layer Sources	Spatial Data Type	References
Food Environment				
Kernel Density Food Environment Surface	Estimated density of individual and combined food resources; Categories: healthful, unhealthful, and difference between healthful and unhealthful.	NETS and InfoUSA data transformed into Kernel density surfaces	Raster	
Kernel Density All Food Vendor Surface	Estimated density of all individual food related vendor resources including all restaurant types and supermarkets.	NETS and InfoUSA data transformed into Kernel density surfaces	Raster	
Social Environment				
Neighborhood Deprivation Index	Index comprising income/poverty, education, employment, housing, and occupation variables empirically summarized using principal components analysis.	US Census decadal data and American Community Survey 5-year estimates	Vector polygon	Messer et al. 2006
Kernel Density Disamenity Surface	Estimated density of individual disamenity resources.	NETS and InfoUSA data transformed into Kernel density surfaces	Raster	
Crime	Crime rates at local and municipal level.	Federal Bureau of Investigation (FBI) Statistics Division, County & Municipal Police Departments	Vector polygon & point	
Physical Activity Environment				
Physical Activity Environment Surface	Estimated density of individual physical activity resources.	NETS and InfoUSA data transformed into Kernel density surfaces	Raster	
Walkability Index	Composite index of walkability per context with variables that include street connectivity, access to destinations, topography, traffic, greenness, transit, and climate.	Misc.	Vector polygon	
Background Data				
Gamma Index for Connectivity per context	Index comprising information on road network links and nodes. Indicator of accessibility and connectivity.	TeleAtlas Street Network	Vector polygon	