Bikes on Designated Mountain Allowing Class 1 Mountain **Bike Trails**

OC Parks Commission

March 6, 2025

Executive Summary

- recognize the 3-class system of e-bikes, and treatment of each class The rise of electrically assisted bikes is accelerating. OC Parks should join others to
- Class 1 mountain bikes, formally known as Class 1 Pedal Assist (no throttle/selfdesignated trails as other mountain bikes propulsion) should be treated as mountain bicycles and allowed on same
- Class 2 and 3 should not be permitted because they either (i) do not require pedaling and/or (ii) have higher speeds
- Amending existing ordinance 2-5-29 (n) can permit use of C1 mountain bikes bicycles in OC Parks on authorized bike trails (i.e., unpaved roads and natural trails) by amendment
- Options are presented to change the ordinance to allow C1 mountain bikes to be treated as mountain bikes, there may be other ways as well

Rule Changes Allowing C1PA on Bike Trails

- in OC Parks (Cal. Veh. Code §231*) Recognize C1 mountain bikes are bicycles NOT motorized recreational vehicles
- Recognize classifications of electric bicycles in OC Parks policy (Cal. Veh. Code §312.5**)
- Allow use of C1 mountain bikes on unpaved roads and natural trails where bicycles are permitted

Amended by Stats. 2021, Ch. 311, Sec. 1. (SB 814) Effective January 1, 2022

^{**} Added by Stats. 2015, Ch. 568, Sec. 1. (AB 1096) Effective January 1, 2016

Options for permitting C1 C1 mountain bicycles in OC Parks

- use of C1PA bikes on OC Parks unpaved roads and natural trails where bikes are permitted; or Vehicle Regulation Sec. 2-5-29(n)) to authorize the existing OC Parks ordinance (OC Ordinance Option 1 – Update Existing Ordinance: update
- Option 2 Adopt New Ordinance: adopt a new ordinance for OC Parks that recognizes electric bike classifications and authorizes C1PA bikes on County park unpaved roads and natural trails where bikes are permitted (building on classifications recently adopted by the Board of Supervisors based on the recommendation from the OC Public Works Commission for paved roads)
- There may be other ways as well

Option 1: Update Ordinance

- OC Municipal Ordinance (Vehicle Regulation Sec. 2-5-29 (n))
- Title 2: Public Facilities
- Division 5: Parks, Beaches and Recreational Areas
- approval of the Board of Supervisors. similar electric or combustible motorized wheeled conveyance in any park, beach or <u>natural trails , unless otherwise</u> designated for such use by the Director of OC Parks, with the motorcycle, go-kart, go-ped, mo-ped, all-terrain-vehicle, quad runner, dune buggy or any combustible motorized skateboard, scooter, dirt bike, mini bike, mini motor bike, mini California Vehicle Code, on those regional paved, off-road bikeways <u>and unpaved roads and</u> recreational area, with the exception of Class 1 and Class 2 electric bicycles, as defined by the Motorized Wheeled Conveyance Prohibited. No person shall operate or drive any **electric** or

Option 2: Create New Ordinance

Mirror OC Public Works new ordinance adopted by the Supervisors

New OC Public Works: Code Sec. 6-4-102: Definitions

- (0) Bicycle: As defined by Vehicle Code 231, as may be amended or superseded, a bicycle is a device upon which a person may ride, propelled by human power through a belt, chain, or gears, and having one or more wheels; for the purposes of his ordinance, an electric bicycle, or e-bike, shall be considered a bicycle.
- 图: California Vehicle Code 406(a). Electric Bicycle: An electric bicycle (also known as e-bike) is a bicycle equipped with fully operable pedals and an <mark>electric motor of less than 750 watts</mark>. Electric bicycle does not include motorized bicycles or mopeds as defined in
- that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the bicycle A "class 1 electric bicycle," or "low speed pedal-assisted electric bicycle," is a bicycle equipped with a motor reaches the speed of 20 miles per hour.
- Add a provision stating that: "A Class 1 Pedal Assist bicycle may be ridden in places where bicycles are allowed, including but not limited to, streets, highways, roads, bicycle lanes, and bicycle or unpaved roads or natural trails."

Appendix

7

Alignment with NCCP/HCP

- Committed to Reserve protection under the Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP) and other easements covering Crystal Cove State Park, Laguna Wilderness Park, Aliso and Wood Canyon Regional Park, and other OC Parks
- Key policy in NCCP/HCP
- determination that there is not an inherent conflict between the recreation uses permitted as part of the NCCP/HCP...and protection of sensitive biotic resources (NCCP/HCP at p. II-343)
- Permitted uses within the Reserve
- "mountain biking ... on designated trails" (NCCP/HCP, p. II-294)
- Prohibited uses within the Reserve
- "motorized recreation vehicles" (NCCP/HCP, p. II-350)

Alignment with California State Parks Off Highway Vehicle Policies

"OHMVR Division has received numerous inquiries regarding electric off-highway motorcycles sold from manufacturers including Sur-Ron, Talaria, Segway, and E Ride Pro."

"These electric off-highway motorcycles are often inaccurately referred to as electrical bicycles, commonly called "E-Bikes" and have often been sold and advertised by retailers as such. These vehicles are off-highway motorcycles and meet the California vehicle code definition of CVC\$ 400 and CVC \$436. These off-highway motorcycles do NOT meet the definition of Electric Bicycle (CVC \$312.5) or Motorized Bicycle or MOPED (CVC \$406)."

Classification Guide from CA State Parks OHV

Applicable Laws	Vehicle Code Definition	Electric Motor Power Limit	DMV Issued Plate or Device	Driver's License Required	Min. Operating Age	Helmet Requirements	Allowed to Utilize Bike Lane	Maximum Assisted Motor Speed	Equipped with Pedals		
CVC \$21212(a) Helmet Requirements	CVC \$231	N/A No Motor	N _o	N _O	None	Under 18	Yes	N/A No Motor	Yes	Bicycle	
CVC \$21212(a) Heimet Requirements	CVC \$312.5 (a)(1)	750 Watts	Z	N _o	None	Under18	Yes	20 MPH	Yes	Class 1 Electric Bicycle	CLASS
CVC \$21212(a) Heimet Requirements	CVC \$312.5 (a)(1) CVC \$312.5 (a)(2)	750 Watts	N _o	Z o	None	Under 18	Yes	20 MPH	Yes	Class 2 Electric Bicycle	IFICA.
CVC \$21213 Age + Helmet Req.	CVC \$312.5 (a)(3)	750 Watts	N _o	N _o	16	Under 18	Yes	28 MPH	Yes	Class 3 Electric Bicycle	NOIL
CVC \$12500(b) License Required	CVC \$406(a)	4 Gross Brake Horsepower. (3000W)	Special Issued License Plate	Yes	16	DOT Approved Helmet Required	Authorized by local ordinance	30 MPH	No	Moped Motorized Bicycle	CLASSIFICATION CHART
CVC \$21235 Operation Rules CVC \$22411 Scooter Speed Laws	CVC \$407.5	No Limit	N ₀	Yes	None	Under 18	Yes	15 MPH	No	Motorized Scooter	
CVC \$38020 Identification CVC \$38301(a) Illegal Operation Public Lands	CVC \$436	No Limit	CA OHV Sticker	None	None	Z o	Z _o	None	N _o	Electric Motorcycle (Off-Highway)	

Pedals Only Throttles/Higher Speed

Sur-Ron+

Bicycles in other California Jurisdictions Regulations Approving Class 1 Pedal Assist

- East Bay Regional Park District "Park District Board of Directors voted to allow Class 1 eus/whats-new/news/e-bike-update Bikes on all trails where regular bikes are allowed." (https://www.ebparks.org/about-
- San Diego County "Class 1 and 2 e-bikes are currently permitted on all County paved areas and trails where non-electric bikes are permitted, unless specifically restricted by DPR tor satety and maintenance concerns."

%20Fact%20Sheet%20from%20DPR.pdf) (https://www.sdparks.org/content/dam/sdparks/en/pdf/BrochuresMiscellaneous/E%20Bike

assist only, with no throttle, and have a maximum assist of 20 mph." adhere to the same trail rules as conventional bicycle riders. Class 1 E-bikes are pedal-Sonoma County - "Class 1 Electric Bicycles (E-Bikes) are allowed in Regional Parks wherever conventional bicycles are allowed unless otherwise posted. E-Bike riders must https://parks.sonomacounty.ca.gov/play/biking

and same impact as mountain bikes Studies on C1PA bikes: Positive for recreation

- European and U.S. Study on bike safety

 O When comparing e-bikes with pedal bikes, "all differences between e-bikes and conventional bicycles disappeared; e-bikes and conventional bicycles have the same crash risk." (https://ipmba.org/images/uploads/EbikeSafety-VFinal.pdf)
- make it easier to climb -- not just to go faster." (https://www.cotamtb.com/ebikes.html#:~:text=The%20Tahoe%20National%20Forest%2C%20which,considering%20class Deschutes National Forest Are the Bikes Faster? "Typically, the power is used to extend the ride another hour or two or
- Lake Tahoe area trails and e-bike use
- Impact on environment: "After considering the environmental effects described in the EA, I have determined these actions will not have a significant effect on the quality of the human environment." (<a href="https://www.tahoedonner.com/wp-content/uploads/2021/05/Decision-Notice-East-Zone-Connectivity-Restoration-Notice-Eas Project.pdf
- **Jakes Rocks trails District Ranger Rich Hatfield said**, "A recurrent theme in many of the comments that we received was that class 1 e-bike use would allow more people to start mountain biking or continue enjoying this outdoor pursuit as they age or their physical condition changes. As a public land manager, I want to encourage everyone to get outside, exercise, and enjoy our public lands. This project allows me to support that objective." (https://pawilds.com/class-1-e-bikes-allowed-
- NIH Study showing relative health comparisons of Class 1 eMTB's with pedal mountain bikes "Participants agreed that their heart rate is considerably lower while riding an eMTB as compared with a conventional mountain bike and eMTB use allows riders greater and deeper access to backcountry dirt trails." https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6711045

Dear Orange County Parks and Recreation Team,

I am here today to propose the installation of a disc golf course within the OC Parks system. If you are not familiar with the sport of disc golf, it is similar to ordinary ball golf, however instead of hitting a ball with a club, players throw a frisbee at some target.

Disc golf represents a community-friendly recreational opportunity with multifaceted benefits for both parks and local communities. As an accessible sport that requires minimal infrastructure and maintenance, disc golf offers a unique way to enhance public spaces while promoting inclusivity and active engagement. Unlike traditional golf, disc golf has an extremely low financial barrier, making it possible for individuals across all socioeconomic backgrounds to participate.

The sport's environmental impact is minimal, there are no manicured greens or irrigation requirements as courses can be integrated into existing park landscapes, utilizing natural terrain without extensive land modification.

Moreover, disc golf courses can serve additional community benefits beyond recreation. By attracting regular players to potentially underutilized park areas, these courses can help deter criminal activities and increase overall park safety through consistent human presence and community oversight.

So why does Orange County need a disc golf course? Orange County is a place I would describe as a disc golf desert. There is currently one dedicated 18 hole course in North Orange County which is located in the periphery of the region in the city of Huntington Beach. This course accommodates an extremely large population of players, to the point where there are multiple group back-ups on each hole, making it almost impossible to play a round in a reasonable amount of time, not to mention the extensive travel times required for most players to even access the course. Based on this course's popularity, there is a clear demand for additional courses in the county, which would not only alleviate some of the traffic Huntington Beach Disc Golf Course receives, but also better serve the large population of players within northern Orange County.

I sincerely urge Orange County Parks to consider implementing its first disc golf course into their system. While this presentation serves as more of a background and reasoning for the implementation of disc golf, I would be more than happy to provide much more detailed reports and proposals if the commission is interested. Logistics-wise, disc golf courses can be established on a sliding scale of around \$5,000-\$20,000, have very little maintenance costs, and can generate large amounts of revenue for parks. An example is in San Diego County, a 9-hole course generated \$72,000 in six months and revitalized a previously neglected park area.

It is highly likely that I would be able to raise additional funding for the project through tournaments, sponsorships, and donations. In addition, as a member of the Disc Golf Course Designers, and would be willing to design the course for free. For the past month I have been touring parks in the OC park's system and believe Ted Craig, Yorba Linda, Tri-City, Carbon Canyon, and Lake Irvine would be the most suitable candidates. I have already been in contact with all of these parks to try and work out a temporary course tournament to serve as a proof of concept in these locations. If you have any questions or concerns feel free to let me know.

Thank you for your time.