In Florida, a bicycle means every vehicle propelled solely by human power, and every motorized bicycle propelled by a combination of human power and an electric helper motor capable of propelling the vehicle at a speed of not more than 20 miles per hour on level ground upon which any person may ride, having two tandem wheels, and including any device generally recognized as a bicycle though equipped with two front or two rear wheels. The term does not include such a vehicle with a seat height of no more than 25 inches from the ground when the seat is adjusted to its highest position or a scooter or similar device. Thus, the term includes both traditional bicycles and motorized or electric bicycles (e-bikes).

The bill removes e-bikes from the definition of the term “bicycle” and creates a new definition for e-bikes using a three-tiered classification system. A class 1 e-bike is a bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the e-bike reaches 20 mph. A class 2 e-bike is a bicycle equipped with a throttle-assisted motor that may be used exclusively to propel the bicycle and that ceases to provide assistance when the e-bike reaches 20 mph. A class 3 e-bike is a bicycle equipped with a motor that provides assistance only when the rider is pedaling and that ceases to provide assistance when the e-bike reaches 28 mph.

The bill creates regulations governing the operation of e-bikes and provides that e-bikes and e-bike operators must be afforded all the rights and privileges, and be subject to all of the duties, of bicycles and bicycle operators. The bill authorizes e-bikes to operate where bicycles are allowed, including, but not limited to, streets, highways, roadways, shoulders, bicycle lanes, and bicycle or multiuse paths. However, local governments may regulate the operation of e-bikes on streets, highways, sidewalks, and sidewalk areas, and local governments and state agencies with jurisdiction over bicycle paths, multiuse paths, and trail networks may restrict or prohibit the operation of e-bikes on such paths and networks.

The bill provides that e-bikes and e-bike operators are not subject to the provisions of law relating to financial responsibility, driver or motor vehicle licenses, vehicle registration, title certificates, off-highway motorcycles, or off-highway vehicles.

The bill will likely have a negative, but insignificant, fiscal impact on state government revenues and no fiscal impact on local governments. See Fiscal Analysis.

The bill was approved by the Governor on June 20, 2020, ch. 2020-69, L.O.F., and will become effective on July 1, 2020.
I. SUBSTANTIVE INFORMATION

A. EFFECT OF CHANGES:

Current Situation

Bicycle Regulations
Section 316.003, F.S, defines a “bicycle” as:

Every vehicle propelled solely by human power, and every motorized bicycle propelled by a combination of human power and an electric helper motor capable of propelling the vehicle at a speed of not more than 20 miles per hour on level ground upon which any person may ride, having two tandem wheels, and including any device generally recognized as a bicycle though equipped with two front or two rear wheels. The term does not include such a vehicle with a seat height of no more than 25 inches from the ground when the seat is adjusted to its highest position or a scooter or similar device. A person under the age of 16 may not operate or ride upon a motorized bicycle.¹

Under state traffic control laws, bicyclists are considered vehicle operators and are generally required to obey the same rules of the road as other vehicle operators, including traffic signs, signals, and lane markings.² Section 316.2065, F.S., governs the operation of bicycles in Florida and provides for a number of bicycle-specific regulations, including:

- A bicycle rider or passenger who is under 16 years of age must wear a bicycle helmet.³
- A person may not knowingly rent or lease any bicycle to be ridden by a child who is under the age of 16 years unless the child possesses a bicycle helmet or the lessor provides a bicycle helmet for the child to wear.⁴
- Every bicycle in use between sunset and sunrise must be equipped with a lamp on the front exhibiting a white light visible from a distance of at least 500 feet to the front and a lamp and reflector on the rear each exhibiting a red light visible from a distance of 600 feet to the rear.⁵
- A person operating a bicycle on a sidewalk, or across a roadway on a crosswalk, must yield the right-of-way to any pedestrian and must give an audible signal before overtaking and passing the pedestrian.⁶

A person operating a bicycle on a roadway must ride in the bicycle lane, but if there is no bicycle lane, the bicycle operator must ride as close to the right-hand curb as practicable. However, a bicycle operator may move to the center of the lane when:

- Overtaking and passing another bicycle or vehicle proceeding in the same direction;
- Preparing for a left turn at an intersection or into a private road or driveway; or
- Reasonably necessary to avoid any condition or potential conflict, including, but not limited to, a fixed or moving object, parked or moving vehicle, bicycle, pedestrian, animal, surface hazard, turn lane, or substandard-width lane,⁷ which makes it unsafe to continue along the right-hand curb or edge or within a bicycle lane.⁸

¹ Section 316.003(4), F.S.
² Section 316.2065(1), F.S.
³ Section 316.2065(3)(d), F.S.
⁴ Section 316.2065(15)(a), F.S.
⁵ Section 316.2065(7), F.S.
⁶ Section 316.2065(10), F.S.
⁷ A substandard width lane is any lane that is too narrow for a bicycle and another vehicle to travel safely side-by-side within the lane.
⁸ Section 316.2065(5)(a), F.S.
Bicycle operators traveling on a one-way highway with two or more marked traffic lanes may ride as near to the left-hand curb as practicable and bicycle operators may not ride more than two abreast on a roadway.\(^9\)

For purposes of vehicle registration, s. 320.01, F.S., currently provides that a “motor vehicle” does not include bicycles. However, among other fees, s. 320.08, F.S., imposes a $5 flat fee for registration (or renewal of registration) of mopeds and motorized bicycles. In addition, a $2.50 motorcycle safety education fee is imposed on mopeds, which is deposited into the Highway Safety Operating Trust Fund.\(^11\)

Local authorities, in the exercise of their police power, may regulate the operation of bicycles.\(^12\) Additionally, local authorities may prohibit or regulate the use of heavily traveled streets by any class or kind of traffic found to be incompatible with the normal and safe movement of traffic.\(^13\) As the definition of “bicycles” includes motorized bicycles, local authorities are authorized to regulate motorized or electric bicycles.

**Electric Bicycles**

In 2002, Congress amended the Consumer Product Safety Commission (CPSC) definition of electric bicycles (e-bikes).\(^14\) The federal law defines an e-bike as a “two- or three-wheeled vehicle with fully operable pedals and an electric motor of less than 750 watts (1 h.p.), whose maximum speed on a paved level surface, when powered solely by such a motor while ridden by an operator who weighs 170 pounds, is less than 20 mph.” The federal law permits e-bikes to be powered by the motor alone (a “throttle-assist” e-bike) or by a combination of motor and human power (a “pedal-assist” e-bike).\(^15\)

Devices that meet the federal definition of an e-bike are regulated by the CPSC and must meet bicycle product safety standards; however, such product safety standards only specify the maximum speed that an e-bike can travel under motor power alone. It does not provide a maximum speed when the bicycle is being propelled by a combination of human and motor power. The law does distinguish e-bikes that can travel 20 mph or less under motor power alone from motorcycles, mopeds, and motor vehicles. The CPSC has clarified that the federal law does not prohibit e-bikes from traveling faster than 20 mph when using a combination of human and motor power.\(^16\)

While the federal government regulates the maximum speed that an e-bike can travel under motor power alone, its operation on streets and bikeways remains within each state’s control. Therefore, some states have enacted laws that categorize e-bikes with mopeds and other motorized vehicles, require licensure and registration, or prohibit their use in bike lanes or on multi-purpose trails.\(^17\)

According to a 2018 bicycle industry analysis, e-bike sales increased 83 percent between May 2017 and May 2018, and e-bikes made up 10 percent of overall bike sales in the United States for that period. E-bikes cost on average $2,000 - $3,000, compared to $1,000 average investment for a mid-

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\(^9\) Section 316.2065(5)(b), F.S.
\(^10\) Section 316.2065(6), F.S.
\(^11\) Section 320.08(1)(c), F.S. These funds may be used to fund a motorcycle driver improvement program, the Florida Motorcycle Safety Education Program, or the general operations of the Department of Highway Safety and Motor Vehicles.
\(^12\) Section 316.008(1)(h), F.S.
\(^13\) Section 316.008(1)(n), F.S.
\(^16\) Id.
\(^17\) Id.
range traditional commuter bicycle. As of June 2019, 22 states define e-bikes within a three-tiered classification system.

**Effect of the Bill**

The bill removes the definition of “motorized bicycle” from within the definition of “bicycle” and creates a separate, three-tiered classification for the definition of “electric bicycle.” The bill defines the term to mean a bicycle or tricycle equipped with fully operable pedals, a seat or saddle for the use of the rider, and an electric motor of less than 750 watts that meets the requirements of one of the following three classifications:

“Class 1 electric bicycle” means an electric bicycle equipped with a motor that provides assistance only when the rider is pedaling and that ceases to provide assistance when the electric bicycle reaches the speed of 20 miles per hour.

“Class 2 electric bicycle” means an electric bicycle equipped with a motor that may be used exclusively to propel the electric bicycle and that ceases to provide assistance when the electric bicycle reaches the speed of 20 miles per hour.

“Class 3 electric bicycle” means an electric bicycle equipped with a motor that provides assistance only when the rider is pedaling and that ceases to provide assistance when the electric bicycle reaches the speed of 28 miles per hour.

The bill creates regulations governing the operation of e-bikes and provides that an e-bike or an e-bike operator must be afforded all the rights and privileges, and be subject to all of the duties, of a bicycle or bicycle operator. An e-bike is considered a vehicle to the same extent as a bicycle, and the bill authorizes an e-bike to operate where bicycles are allowed, including, but not limited to, streets, highways, roadways, shoulders, bicycle lanes, and bicycle or multiuse paths. However, local governments may regulate the operation of e-bikes on streets, highways, sidewalks, and sidewalk areas, and local governments and state agencies with jurisdiction over bicycle paths, multiuse paths, and trail networks may restrict or prohibit the operation of e-bikes on such paths and networks.

The bill provides that an e-bike and an e-bike operator are not subject to the provisions of law relating to financial responsibility requirements of a motor vehicle such as insurance premiums, driver or motor vehicle licenses, vehicle registration, title certificates, off-highway motorcycles, or off-highway vehicles.

The bill requires an e-bike to function so that the electric motor is disengaged or ceases to function when the rider stops pedaling or when the brakes are applied.

The bill requires that, beginning January 1, 2021, manufacturers and distributors of e-bikes apply a label that is permanently affixed in a prominent location to each e-bike. The label must contain the classification number, top assisted speed, and motor wattage of the e-bike. The bill prohibits a person from tampering with or modifying an e-bike in order to change the motor-powered speed capability or engagement of an e-bike, unless the label indicating the classification number required is replaced after such modification.

The bill removes the registration fee requirement for “motorized bicycles” and makes conforming changes. The bill does not restrict the operation of an e-bike to persons of a specified age.

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18 *Id.*

Lastly, the bill removes outdated bicycle helmet standards relating to helmets purchased before October 1, 2012, and eliminates the height requirement for bicycle seats that prevents certain bicycles, such as recumbents,20 from being insured.

II. FISCAL ANALYSIS & ECONOMIC IMPACT STATEMENT

A. FISCAL IMPACT ON STATE GOVERNMENT:

1. Revenues:
   
   See Fiscal Comments.

2. Expenditures:
   
   The bill will likely have no impact on state government expenditures.

B. FISCAL IMPACT ON LOCAL GOVERNMENTS:

1. Revenues:
   
   The bill will likely have no impact on local government revenues.

2. Expenditures:
   
   The bill will likely have no impact on local government expenditures.

C. DIRECT ECONOMIC IMPACT ON PRIVATE SECTOR:

   The bill defines e-bikes and creates a three-tiered classification, specifically authorizing the use of class 2 and class 3 e-bikes. The bill also regulates the use of such e-bikes. As such, the bill may increase the sale of e-bikes in this state.

D. FISCAL COMMENTS:

   In Fiscal Year 2018-2019, the Department of Highway Safety and Motor Vehicles (DHSMV) collected $14,633 for both moped and motorized bicycle registration fees.21 Because the data is collected and stored together, it is estimated that 10 percent of the $14,633 is associated with motorized bicycle registration fees. The bill excludes an e-bike or an operator of an e-bike from the provisions of law relating to financial responsibility, driver or motor vehicle licenses, vehicle registration, title certificates, off-highway motorcycles, or off-highway vehicles. Based upon historical collections, DHSMV anticipates this exclusion will result in a negative, but insignificant, fiscal impact on the State Transportation Trust Fund and Highway Safety Operating Trust Fund revenues.

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20 Merriam-Webster defines “recumbent” with respect to a bicycle as “a bicycle with a wide seat that has a back support and is positioned so that the rider’s legs are extended horizontally forward to the pedals and the body is reclined. Merriam-Webster, available at https://www.merriam-webster.com/dictionary/recumbent (last visited Feb. 10, 2020).

21 E-mail from Kevin Jacobs, Deputy Legislative Affairs Director, DHSMV, RE: HB 971 (January 9, 2020).