AMENDMENT NO._______ Calendar No._______

Purpose: In the nature of a substitute.


S. 1822

To require the Federal Communications Commission to issue rules relating to the collection of data with respect to the availability of broadband services, and for other purposes.

Referred to the Committee on _________ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Mr. WICKER

Viz:

1. Strike all after the enacting clause and insert the following:

   3 SECTION 1. SHORT TITLE.

   4. This Act may be cited as the “Broadband Deployment Accuracy and Technological Availability Act” or the “Broadband DATA Act”.

   7 SEC. 2. DEFINITIONS.

   8. In this Act:

      (1) BROADBAND INTERNET ACCESS SERVICE.—

   10. The term “broadband internet access service” has the meaning given the term in section 8.1(b) of title

(2) **BROADBAND MAP.**—The term "Broadband Map" means the map created by the Commission under section 3(c)(1)(A).

(3) **CELL EDGE PROBABILITY.**—The term "cell edge probability" means the likelihood that the minimum threshold download and upload speeds with respect to broadband internet access service will be met or exceeded at a distance from a base station that is intended to indicate the ultimate edge of the coverage area of a cell.

(4) **CELL LOADING.**—The term "cell loading" means the percentage of the available air interface resources of a base station that are used by consumers with respect to broadband internet access service.

(5) **CLUTTER.**—The term "clutter" means a natural or man-made surface feature that affects the propagation of a signal from a base station.

(6) **COMMISSION.**—The term "Commission" means the Federal Communications Commission.

(7) **FABRIC.**—The term "Fabric" means the Broadband Serviceable Location Fabric established under section 3(b)(1)(B).
(8) **FORM 477.**—The term "Form 477" means Form 477 of the Commission relating to local telephone competition and broadband reporting.

(9) **INDIAN TRIBE.**—The term "Indian Tribe" has the meaning given the term "Indian tribe" in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).

(10) **MOBILITY FUND PHASE II.**—The term "Mobility Fund Phase II" means the second phase of the proceeding to provide universal service support from the Mobility Fund (WC Docket No. 10–90; WT Docket No. 10–208).

(11) **PROPAGATION MODEL.**—The term "propagation model" means a mathematical formulation for the characterization of radio wave propagation as a function of frequency, distance, and other conditions.

(12) **PROVIDER.**—The term "provider" means a provider of fixed or mobile broadband internet access service.

(13) **SHAPEFILE.**—The term "shapefile" means a digital storage format containing geospatial or location-based data and attribute information—

(A) regarding the availability of broadband internet access service; and
(B) that can be viewed, edited, and mapped in geographic information system software.

(14) STANDARD BROADBAND INSTALLATION.—

The term "standard broadband installation"—

(A) means the initiation by a provider of new fixed broadband internet access service with no charges or delays attributable to the extension of the network of the provider; and

(B) includes the initiation of fixed broadband internet access service through routine installation that can be completed not later than 10 business days after the date on which the service request is submitted.

SEC. 3. BROADBAND MAPS.

(a) Rules.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Commission shall issue final rules that shall—

(A) allow for the collection by the Commission of accurate and granular data, not less frequently than biannually—

(i) relating to the availability of terrestrial fixed, fixed wireless, satellite, and
mobile broadband internet access service;
and
(ii) that the Commission shall use to compile the maps created under subsection (c)(1) (referred to in this section as "coverage maps"), which the Commission shall make publicly available; and
(B) establish—
(i) processes through which the Commission can verify the accuracy of data submitted under subsection (b)(2);
(ii) processes and procedures through which the Commission, and, as necessary, other entities or persons submitting information under this Act, can protect the security, privacy, and confidentiality of—
(I) information contained in the Fabric;
(II) the dataset created under subsection (b)(1) supporting the Fabric; and
(III) the data submitted under subsection (b)(2);
(iii) the challenge process described in subsection (b)(5); and
(iv) the process described in section 5(b).

(2) OTHER DATA.—In issuing the rules under paragraph (1), the Commission shall develop a process through which the Commission can collect verified data for use in the coverage maps from—

(A) State, local, and Tribal governmental entities that are primarily responsible for mapping or tracking broadband internet access service coverage for a State, unit of local government, or Indian Tribe, as applicable;

(B) third parties, if the Commission determines that it is in the public interest to use such data in—

(i) the development of the coverage maps; or

(ii) the verification of data submitted under subsection (b); and

(C) other Federal agencies.

(3) UPDATES.—The Commission shall revise the rules issued under paragraph (1) to—

(A) reflect changes in technology;

(B) ensure the accuracy of propagation models, as further provided in subsection (b)(3); and
(C) improve the usefulness of the coverage
maps.

(b) CONTENT OF RULES.—

(1) Establishment of a serviceable location fabric regarding fixed broadband.—

(A) Dataset.—

(i) In general.—The Commission shall create a common dataset of all locations in the United States where fixed broadband Internet access service can be installed, as determined by the Commission.

(ii) Contracting.—

(I) In general.—Subject to subclauses (II) and (III), the Commission may contract with an entity with expertise with respect to geographic information systems (referred to in this subsection as “GIS”) to create and maintain the dataset under clause (i).

(II) Application of the Federal Acquisition Regulation.—A contract into which the Commission enters under subclause (I) shall in all
respects comply with applicable provisions of the Federal Acquisition Regulation.

(III) LIMITATIONS.—With respect to a contract into which the Commission enters under subclause (I)—

(aa) the entity with which the Commission contracts shall be selected through a competitive bid process that is transparent and open; and

(bb) the contract shall be for a term of not longer than 5 years, after which the Commission may enter into a new contract—

(AA) with an entity, and for the purposes, described in clause (i); and

(BB) that complies with the requirements under subclause (II) and this subclause.
(B) **FABRIC.**—The rules issued by the Commission under subsection (a)(1) shall establish the Broadband Serviceable Location Fabric, which shall—

(i) contain geocoded information for each location identified under subparagraph (A)(i);

(ii) serve as the foundation upon which all data relating to the availability of fixed broadband internet access service collected under paragraph (2)(A) shall be reported and overlaid;

(iii) be compatible with commonly used GIS software; and

(iv) at a minimum, be updated annually by the Commission.

(C) **IMPLEMENTATION PRIORITY.**—The Commission shall prioritize implementing the Fabric for rural and insular areas of the United States.

(2) **COLLECTION OF INFORMATION.**—The rules issued by the Commission under subsection (a)(1) shall include uniform standards for the reporting of broadband internet access service data that the Commission shall collect—
(A) from each provider of terrestrial fixed, fixed wireless, or satellite broadband internet access service, which shall include data that—

(i) documents the areas where the provider—

(I) has actually built out the broadband network infrastructure of the provider such that the provider is able to provide that service; and

(II) could provide that service, as determined by identifying where the provider is capable of performing a standard broadband installation, if applicable;

(ii) includes information regarding download and upload speeds, at various thresholds established by the Commission, and, if applicable, latency with respect to broadband internet access service that the provider makes available;

(iii) can be georeferenced to the GIS data in the Fabric;

(iv) the provider shall report as---
(I) with respect to providers of fixed wireless broadband internet access service—

(aa) propagation maps and propagation model details that—

(AA) satisfy standards that are similar to those applicable to providers of mobile broadband internet access service under subparagraph (B) with respect to propagation maps and propagation model details, taking into account material differences between fixed wireless and mobile broadband internet access service; and

(BB) reflect the speeds and latency of the service provided by the provider; or

(bb) a list of addresses or locations that constitute the service area of the provider, except that the Commission—
(AA) may only permit, and not require, a provider to report the data using that means of reporting; and

(BB) in the rules issued under subsection (a)(1), shall provide a method for using that means of reporting with respect to Tribal areas; and

(II) with respect to providers of terrestrial fixed and satellite broadband internet access service—

(aa) polygon shapefiles; or

(bb) a list of addresses or locations that constitute the service area of the provider, except that the Commission—

(AA) may only permit, and not require, a provider to report the data using that means of reporting; and

(BB) in the rules issued under subsection (a)(1), shall provide a meth-
od for using that means of
reporting with respect to
Tribal areas; and

(v) the Commission determines is ap-
propriate with respect to certain tech-
nologies in order to ensure that the
Broadband Map is granular and accurate;
and

(B) from each provider of mobile
broadband internet access service, which shall
include propagation maps, and the propagation
models on which those maps are based, that in-
dicate the current (as of the date on which the
information is collected) fourth generation
Long-Term Evolution (commonly referred to as
"4G LTE") mobile broadband internet access-
service coverage of the provider, which shall—

(i) take into consideration the effect
of clutter; and

(ii) satisfy—

(I) the requirements of having—

(aa) a download speed of 5
megabits per second and an
upload speed of 1 megabit per
second with a cell edge prob-
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ability of not less than 90 percent; and

(bb) cell loading of 50 percent; and

(II) any other parameter that the
Commission determines to be nec-
essary to create a map under sub-
section (c)(1)(C) that is more precise
than the map produced as a result of
the submissions under the Mobility
Fund Phase II information collection.

(3) Update of Reporting Standards for
Mobile Broadband Internet Access Service.—
For the purposes of paragraph (2)(B), if the Com-
mission determines that the reporting standards
under that paragraph are insufficient to collect accu-
rate propagation maps and propagation model de-
tails with respect to future generations of mobile
broadband internet access service technologies, the
Commission shall immediately commence a rule
making to adopt new reporting standards with re-
spect to those technologies that—

(A) shall be the functional equivalent of
the standards required under paragraph (2)(B); and
allow for the collection of propagation maps and propagation model details that are as accurate and granular as, or more accurate and granular than, the maps and model details collected by the Commission under such paragraph (2)(B).

(4) CERTIFICATION AND VERIFICATION.—With respect to a provider that submits information to the Commission under paragraph (2)—

(A) the provider shall include in each submission a certification from a corporate officer of the provider that the officer has examined the information contained in the submission and that, to the best of the officer’s actual knowledge, information, and belief, all statements of fact contained in the submission are true and correct; and

(B) the Commission shall verify the accuracy and reliability of the information in accordance with measures established by the Commission.

(5) CHALLENGE PROCESS.—

(A) IN GENERAL.—In the rules issued under subsection (a), and subject to subparagraph (B), the Commission shall establish a
user-friendly challenge process through which
consumers, State, local, and Tribal govern-
mental entities, and other entities may submit
coverage data to the Commission to challenge
the accuracy of—

(i) the coverage maps;

(ii) any information submitted by a
provider regarding the availability of
broadband internet access service; or

(iii) the information included in the
Fabric.

(B) CONSIDERATIONS; VERIFICATION; RE-
SPONSE TO CHALLENGES.—In establishing the
challenge process required under subparagraph
(A), the Commission shall—

(i) consider—

(I) the types of information that
an entity submitting a challenge
should provide to the Commission in
support of the challenge;

(II) the appropriate level of gran-
ularity for the information described
in subclause (I);

(III) the need to mitigate the
time and expense incurred by, and the
administrative burdens placed on, entities in—

(aa) challenging the accuracy of a coverage map; and

(bb) responding to challenges described in item (aa);

(IV) the costs to consumers and providers resulting from a misallocation of funds because of a reliance on outdated or otherwise inaccurate information in the coverage maps;

(ii) include a process for verifying the data submitted through the challenge process in order to ensure the reliability of that data;

(iii) allow providers to respond to challenges submitted through the challenge process; and

(iv) develop an online mechanism, which—

(I) shall be integrated into the coverage maps; and
(II) allows for an entity described in subparagraph (A) to submit a challenge under the challenge process.

(C) USE OF CHALLENGES.—The rules issued to establish the challenge process under subparagraph (A) shall include—

(i) a process for the speedy resolution of challenges; and

(ii) a process for the regular and expeditious updating of the coverage maps as challenges are resolved.

(6) REFORM OF FORM 477 PROCESS.—

(A) IN GENERAL.—Not later than 180 days after the date on which the rules issued under subsection (a) take effect, the Commission shall—

(i) reform the Form 477 broadband deployment service availability collection process of the Commission to make the process consistent with this Act and the rules issued under this Act; and

(ii) remove duplicative reporting requirements and procedures regarding the deployment of broadband internet access service that, as of that date, are in effect.
(B) CONTINUED COLLECTION AND REPORTING.—On and after the date on which the Commission carries out subparagraph (A), the Commission shall continue to collect and publicly report subscription data that the Commission collected through the Form 477 broadband deployment service availability process, as in effect on July 1, 2019.

(c) MAPS.—The Commission shall—

(1) create—

(A) the Broadband Map, which shall depict—

(i) the extent of the availability of broadband internet access service in the United States, without regard to whether that service is fixed broadband internet access service or mobile broadband internet access service, which shall be based on collected by the Commission from all providers; and

(ii) the areas of the United States that remain unserved by providers;

(B) a map that depicts the availability of fixed broadband internet access service, which shall be based on data collected by the Commiss-
sion from providers under subsection (b)(2)(A);

and

(C) a map that depicts the availability of mobile broadband internet access service, which shall be based on data collected by the Commission from providers under subsection (b)(2)(B);

(2) use the maps created under paragraph (1)—

(A) to determine the areas in which terrestrial fixed, fixed wireless, mobile, and satellite broadband internet access service is and is not available; and

(B) when making any new award of funding with respect to the deployment of broadband internet access service;

(3) update the maps created under paragraph (1) not less frequently than biannually using the most recent data collected from providers under subsection (b)(2);

(4) establish a process requiring the Department of Agriculture and the National Telecommunications and Information Administration to consult the maps created under paragraph (1) when, as of the date on which the process is established or on any future date, distributing funds relating to the
deployment of broadband internet access service
under any program administered by the Rural Utilities Service or the Administration, respectively; and
(5) establish a process to make the data collected under subsection (b)(2) available to the National Telecommunications and Information Administration.

SEC. 4. ENFORCEMENT.
(a) IN GENERAL.—It shall be unlawful for a person or entity to willfully and knowingly, or recklessly, submit information or data under this Act that is materially inaccurate or incomplete with respect to the availability of broadband internet access service.
(b) VIOLATIONS.—A violation of this Act shall be treated as a violation of the Communications Act of 1934 (47 U.S.C. 151 et seq.), and the Commission shall enforce this Act in the same manner, by the same means, and with the same jurisdiction, powers, and duties as though all applicable terms and provisions of that Act were incorporated into and made a part of this Act.

SEC. 5. IMPROVING DATA ACCURACY.
(a) AUDITS.—The Commission shall conduct regular audits of information submitted to the Commission by providers under section (3)(b)(2) to ensure that the providers are complying with this Act.
(b) CROWDSOURCING.—

(1) IN GENERAL.—The Commission shall develop a process through which persons in the United States may submit specific information about the deployment and availability of broadband internet access service in the United States so that the information may be used to verify and supplement information provided by providers of broadband internet access service for inclusion in the maps created under section 3(e)(1).

(2) COLLABORATION.—As part of the efforts of the Commission to facilitate the ability of persons to submit information under paragraph (1), the Commission shall issue guidance and other information as appropriate to ensure that the information submitted is uniform and consistent with the data submitted by providers under section 3(b)(2).

(e) TECHNICAL ASSISTANCE TO INDIAN TRIBES.—

(1) IN GENERAL.—Subject to paragraph (2), the Commission shall hold workshops for Tribal governments in each of the 12 Bureau of Indian Affairs regions to provide technical assistance with the collection and submission of data under section 3(a)(2).

(2) ANNUAL REVIEW.—Each year, the Commission, in consultation with Indian Tribes, shall review
the need for continued workshops required under paragraph (1).

(d) **Technical Assistance to Small Service Providers.**—The Commission shall establish a process through which a provider that has fewer than 100,000 active broadband internet access service connections may request and receive assistance from the Commission with respect to geographic information system data processing to ensure that the provider is able to comply with the requirements under section 3(b) in a timely and accurate manner.

**Sec. 6. Cost.**

(a) **In General.**—Beginning with the first full fiscal year after the date of enactment of this Act, the Commission shall include in the budget submission of the Commission to the President under sections 1105(a) and 1108 of title 31, United States Code, amounts sufficient to ensure the proper and continued functioning of the responsibilities of the Commission under this Act.

(b) **Cost of Fabric.**—

(1) **USF.**—The Commission may not use funds from the universal service programs of the Commission established under section 254 of the Communications Act of 1934 (47 U.S.C. 254), and the regulations issued under that section, to pay for any costs associated with this Act.
(2) OTHER FUNDS.—The Commission may recover costs associated with this Act under section 9 of the Communications Act of 1934 (47 U.S.C. 9) to the extent provided for in an appropriation Act, as required under subsection (a) of that section.

SEC. 7. OTHER PROVISIONS.

(a) OMB.—Notwithstanding any other provision of law, the initial rule making required under section 3(a)(1) shall be exempt from review by the Office of Management and Budget.

(b) PRA.—Chapter 35 of title 44, United States Code (commonly known as the “Paperwork Reduction Act”) shall not apply to the initial rule making required under section 3(a)(1).

(c) EXECUTION OF RESPONSIBILITIES.—Except as provided in section 3(b)(1)(A)(ii), the Commission—

(1) including the offices of the Commission, shall carry out the responsibilities assigned to the Commission under this Act; and

(2) may not delegate any of the responsibilities assigned to the Commission under this Act to any third party, including the Universal Service Administrative Company.

(d) REPORTING.—Each fiscal year, the Commission shall submit to the Committee on Commerce, Science, and
Transportation of the Senate and the Committee on Energy and Commerce of the House of Representatives a report that summarizes the implementation of this Act and associated enforcement activities conducted during the previous fiscal year.