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(Original Signature of Member) 119TH CONGRESS 1ST SESSION H. R. <u>1455</u>H

To codify the Institute for Telecommunication Sciences and to direct the Assistant Secretary of Commerce for Communications and Information to establish an initiative to support the development of emergency communication and tracking technologies, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

A BILL

To codify the Institute for Telecommunication Sciences and to direct the Assistant Secretary of Commerce for Communications and Information to establish an initiative to support the development of emergency communication and tracking technologies, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE.

4 This Act may be cited as the "Institute for Tele-5 communication Sciences Codification Act" or the "ITS

6 Codification Act".

1 SEC. 2. INSTITUTE FOR TELECOMMUNICATION SCIENCES.

- 2 (a) FINDINGS.—Congress finds the following:
- 3 (1) The test center within the National Tele-
- 4 communications and Information Administration (in
- 5 this subsection referred to as the "NTIA") <u>may, if so</u> requested by an rep-
- 6<u>5</u> resents executive branch agencyies , represent such agency on spectrum issues
- 76 before the Federal Communications Commission.
- 87 (2) Understanding radio frequency propagation
- 98 characteristics and modeling is a critical component
- <u>109</u> of making spectrum decisions.
- 111 (3) Federal agencies rely on expert engineering
- <u>1211</u> studies, simulations, and analyses to make deter-
- 1312 minations about how to make spectrum available for
- 1413 commercial use, including through system reloca-
- 15<u>14</u> tions and identifying spectrum sharing opportunities
- <u>1615</u> through the NTIA.
- 17<u>16</u> (4) Clearing of Federal spectrum, when fea-
- 1817 sible and determined to be in the public interest, is the priority action to take to make Federal
- <u>1918</u> spectrum available for commercial uses as required
- 2019 by section 113(j)(1) of the National Telecommuni-
- 2120 cations and Information Administration Organiza-
- <u>2221</u> tion Act (47 U.S.C. 923(j)(1)).
- 2322 (5) Sharing of Federal spectrum between Fed-
- 24<u>23</u> eral entities and commercial entities provides access

2524 to Federal spectrum for commercial uses in cir-

<u>2625</u> cumstances where clearing is not feasible.

1	(6) The test center within the NTIA is the Gov-
2	ernment's premier expert laboratory for spectrum <u>engineering</u> re-
3	search activities, spectrum sharing innovation and
4	testing, spectrum interference studies, and all_spectrum_ engineering_ activi-
5	ties related to advancing next generation wireless
6	technologies.
7	(7) The test center within the NTIA is critical
8	for undertaking engineering studies and analyses
9	that inform clearing or sharing opportunities and fa-
10	cilitate policy decisions to maximize the efficient use
11	of spectrum resources <u>, which NTIA determines to be in the</u> <u>public interest</u> .
12	(b) Operation of Test Center.—Part A of the
13	National Telecommunications and Information Adminis-
14	tration Organization Act (47 U.S.C. 901 et seq.) is
15	amended by adding at the end the following:
16	"SEC. 106. INSTITUTE FOR TELECOMMUNICATION
17	SCIENCES.
18	"(a) Establishment.—
19	"(1) IN GENERAL.—Under the authority pro-
20	vided to the Assistant Secretary under section 103,
21	the Assistant Secretary shall operate a test center to
22	be known as the Institute for Telecommunication
23	Sciences (in this section referred to as 'ITS').
24	"(2) Functions.—

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1	"(A) IN GENERAL.—In addition to any
2	functions delegated by the Assistant Secretary
3	under subparagraph (B), ITS shall serve as the a
4	primary laboratory for the executive branch of
5	the Federal Government to—
6	"(i) study radio frequency emissions,
7	including technologies and techniques to
8	control such emissions and interference
9	caused by such emissions;
10	"(ii) determine spectrum propagation
11	characteristics;
12	"(iii) conduct tests on technology that
13	enhances the sharing of electromagnetic
14	spectrum between Federal and non-Federal
15	users;
16	"(iv) improve the interference toler-
17	ance of Federal systems operating with, or
18	using, Federal spectrum;
19	"(v) promote activities relating to ac-
20	cess to Federal spectrum by non-Federal
21	users and the sharing of Federal spectrum
22	between Federal and non-Federal users;
23	and

1	"(vi) conduct such other activities as
2	determined necessary by the Assistant Sec-
3	retary.
4	"(B) Additional functions.—The As-
5	sistant Secretary may delegate to ITS any of
6	the functions assigned to the Assistant Sec-
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<u>84</u>	(3) Agreements and transactions.—In
<u>95</u>	carrying out the functions described in paragraph
<u>106</u>	(2), the Assistant Secretary, acting through the head
<u>117</u>	of ITS, may enter into agreements as provided
<u>128</u>	under the following authorities:
13	"(A) Sections 11 and 12 of the Stevenson-
14	Wydler Technology Innovation Act of 1980 (15
<u>159</u>	U.S.C. 3710; 3710a).
<u> 1610</u>	(B) Section 1535 of title 31, United
<u>1711</u>	States Code.
18	
19	United States Code.
20	
21<u>12</u>	(E) Section 113(g) of this Act.
22	
23	Public Law 91–412.
24	"(G) Any authorization in any other Fed-
	eral statute.

"(4) FEDERAL SPECTRUM DEFINED.—In this
 subsection, the term 'Federal spectrum' means fre quencies assigned on a primary basis to a Federal
 entity (as defined in section 113(l)).

5 "(b) EMERGENCY COMMUNICATION AND TRACKING
6 TECHNOLOGIES INITIATIVE.—

7 "(1) ESTABLISHMENT.—The Assistant Sec-8—retary, acting through the head of ITS, shall estab-

9<u>8 lish an initiative to support prepare a report on the</u> development of

109emergency communication and tracking technologies110for use in locating trapped individuals in confined1211spaces, such as underground mines, and other1312shielded environments, such as high-rise buildings or1413collapsed structures, where conventional radio com-1514munication is limited.

1615"(2) ACTIVITIES.—In order to carry out this1716subsection, the Assistant Secretary, acting through1817the head of ITS, shall work with private sector enti-1918ties and the heads of appropriate Federal agencies,

- <u>2019</u>to—
- 2120 "(A) perform a needs assessment to iden-
- <u>2221</u> tify and evaluate the measurement, technical
- <u>2322</u> specifications, and conformity assessment needs that would be
- 24<u>23</u> required to improve the operation and reliability

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1	of such emergency communication and tracking
2	technologies; and
3	"(B) support the development of technical
4	-specifications and conformance architecture to
5	improve the operation and reliability of such
6	emergency communication and tracking tech-
7	-nologies.
<u>83</u>	_"(3) REPORT.—Not later than 18 months after

94 the date of the enactment of this section, the Assist-105 ant Secretary shall submit to Congress, and make 116 publicly available, a report on the assessment per-127 formed under paragraph (2)(A).".