

Hadley, Ryan E

From: Matsumoto, Alan I <Alan.I.Matsumoto@centurylink.com>
Sent: Friday, June 15, 2018 3:29 PM
To: Comments, Urc
Subject: Indiana Broadband and Technology Association Initial Comments on GAO 2018-03 - IUSF-Broadband Study
Attachments: GAO 2018-3 IUSF-Broadband Study IBTA Initial Comments 061518.pdf

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The Indiana Broadband and Technology Association's ("IBTA") Initial Comments on General Administrative Order ("GAO") 2018-03 - IUSF-Broadband Study are attached. Thank you

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Indiana Broadband^{and}
Technology Association

June 15, 2018

Ms. Beth Heline
General Counsel
Indiana Utility Regulatory Commission
101 West Washington - Suite 1500 East
Indianapolis, Indiana 46204-3407

Re: IURC General Administrative Order 2018-3 – IUSF-Broadband Study

Dear General Counsel Heline:

The Indiana Broadband and Technology Association (“IBTA”), a non-profit trade association representing Indiana’s broadband and technology industries, respectfully submits its Initial Comments on General Administrative Order (“GAO”) 2018-03 - IUSF-Broadband Study. Please direct any questions or comments regarding the IBTA’s Comments to Alan I. Matsumoto on (317) 531-0710 or alan.i.matsumoto@centurylink.com.

Respectfully submitted,

/s/ John Koppin

John Koppin
President - Indiana Broadband and Technology Association
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Indianapolis, IN 46204
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STATE OF INDIANA
INDIANA UTILITY REGULATORY COMMISSION

GENERAL ADMINISTRATIVE ORDER 2018-03

IUSF-BROADBAND STUDY

INDIANA BROADBAND AND TECHNOLOGY ASSOCIATION’S COMMENTS

The Indiana Broadband and Technology Association, Inc.¹ (“IBTA” or the “Association”), a non-profit trade association representing Indiana’s broadband and technology industries, on behalf of its members² submits its Initial Comments on the Commission’s General Administrative Order (“GAO”) 2018-3, regarding a study of the Indiana Universal Service Fund (“IUSF”) and broadband deployment (“IUSF-Broadband Study”). The IBTA appreciates the opportunity to provide its Comments and supports the Commission’s efforts to prepare a final report to the Interim Study Committee on Energy, Utilities, and Telecommunications, pursuant to Section 13 of House

¹ This entity’s legal name is: “Indiana Telecommunications Association, Inc.” The assumed business name is “Indiana Broadband and Technology Association, Inc.”.

² AT&T Indiana, CenturyTel of Central Indiana, d/b/a CenturyLink, CenturyTel of Odon, d/b/a CenturyLink, Cincinnati Bell Telephone, Citizens Telephone Corp., Craigville Telephone Company, Inc., Endeavor Communications, Enhanced Telecommunications, Frontier Communications of Indiana, Frontier Communications of Thorntown, Frontier North Inc., Frontier Midstates Inc., Geetingsville Telephone Co. Inc., Ligonier Telephone Company, Monon Telephone Company Inc., Mulberry Cooperative Telephone Co., Inc., New Lisbon Telephone Company, New Paris Telephone Company, Northwestern Indiana Telephone Company, Inc., PSC, Pulaski White Rural Telephone Cooperative, Inc., Rochester Telephone Co., Inc., RTC Communications, Smithville Telephone Company, Southeastern Indiana Rural Telephone Cooperative (SEI), Swayzee Telephone Co. Inc., Sweetser Telephone Company, Inc., TDS Telecom – Camden, TDS Telecom – Hillsboro, TDS Telecom - New Richmond, TDS Telecom – Pittsboro, TDS Telecom – Poseyville, TDS Telecom – Roachdale, TDS Telecom – Sandborn, TDS Telecom – Tipton, TDS Telecom – Waldron, TDS Telecom – West Point, United Telephone Company of Indiana, Inc., d/b/a CenturyLink, Washington Country Rural Telephone Cooperative d/b/a Tele-Media Solutions, and Yeoman Telephone Company.

Enrolled Act (“HEA”) 1065. The IBTA’s members have a long history of leadership in broadband investment, owing in no small part, to the state of Indiana’s favorable regulatory environment and financial support through the IUSF, the federal universal service fund (“USF”) and intercarrier compensation (“ICC”).

The IBTA was a party to the Joint Settlement Agreement (the “Settlement Agreement”) that was filed on May 24, 2018 in Cause No. 45064. The Settlement Agreement recommended the Commission maintain the status quo for the IUSF. The IBTA respectfully requests the Commission take administrative notice of its testimony and the testimony of the Indiana Exchange Carrier Association, Inc. (“INECA”), also a party to the Settlement Agreement, that were filed on May 24, 2018 in Cause No. 45064. The IBTA and INECA testimony address many of the study topics that the Commission published in its GAO 2018-3 Order. The majority of INECA members are also members of the IBTA and accordingly, the IBTA supports INECA’s testimony.

The Commission’s GAO 2018-3 Study Topics

In the Commission’s May 18, 2018 GAO 2018-3 Order, the Commission published the following study topics:

- (1) The types of service on which the IUSF surcharge is imposed.
- (2) The types of service for which disbursements from the IUSF may be used.
- (3) The eligibility requirements for service providers to receive disbursements from the IUSF.
- (4) Broadband deployment (expansion and improvement of access to broadband services).
- (5) Any other matter concerning universal service reform that the Commission considers appropriate.

The IBTA's Comments will respond to each of the study topics. In addition, the IBTA and INECA testimony in Cause No. 45064 addressed the study topics, as discussed above.

The IUSF was created to advance the Commission's objectives of preserving and advancing universal telephone service, by ensuring its availability at just, reasonable and affordable rates, reasonably comparable between rural and urban areas of Indiana. The IUSF is needed for its originally intended purpose, to support the continuing provision of universal telephone service and remains an important source of funding for Communications Service Providers ("CSP"). Finally, as a matter of principle, the IBTA does not believe the IUSF should be used to directly fund the capital expenditures associated with broadband deployment and expansion.

(1) The types of service on which the IUSF surcharge is imposed.

The IBTA advocates no changes to the types of service on which the IUSF surcharge is imposed. The IUSF is funded through an IUSF surcharge assessment on retail intrastate telecommunications service through a mandatory pass through on customer bills. This method of IUSF funding has worked effectively in generating the necessary IUSF proceeds and accordingly, the IBTA does not recommend any changes.

(2) The types of service for which disbursements from the IUSF may be used.

The IBTA recommends no changes to the types of service for which disbursements from the IUSF may be used. As discussed, the IUSF disbursements are being used to support the provision of universal telephone service, in accordance with its originally intended purpose. The IUSF disbursements are an important source of funding to allow recipient CSPs to preserve and

advance universal service. The availability of IUSF funding, dedicated to universal service, frees up capital resources for rural broadband buildout.

The importance of the IUSF funding to support universal service is highlighted by the INECA Member Rate-of-Return Analysis that is included in INECA's testimony in Cause No. 45064. Only one of the INECA companies is achieving the authorized rate of return of the IUSF qualifications tests and ten of the INECA companies reported a negative rate of return.³ Diverting the IUSF disbursements to support other types of services would only serve to exacerbate that financial challenge.

(3) The eligibility requirements for service providers to receive disbursements from the IUSF.

The IBTA recommends maintaining the existing eligibility requirements for service providers to receive disbursements from the IUSF. In order to be eligible for IUSF disbursements, a CSP must be designated an Eligible Telecommunications Carrier ("ETC") by the Commission and must offer all services and functionalities, the "supported services" for universal telephone service, as originally identified when the IUSF was created. In addition, there are qualifications tests for determining continuing eligibility to receive disbursements from the IUSF. The IUSF disbursements remain a key funding source for CSPs to support the provision of universal telephone service.

As discussed in the IBTA's direct testimony in Cause No. 45064, supporting IUSF status quo, the IUSF is currently accomplishing the Commission's objectives of preserving and

³ INECA Testimony in IURC Cause No. 45064 - Attachment No. 4.

advancing universal service within the State of Indiana and the day-to-day operation and administration of the IUSF is adequate and efficient for contributing carriers and fund recipients. Therefore, the IBTA sees no reason to change the eligibility requirements to receive IUSF disbursements.

(4) Broadband deployment (expansion and improvement of access to broadband services).

The IBTA prepared the “IBTA Report on Broadband Progress” (the “Report”) that is included with these Comments as Attachment 1. The Report is based on the Federal Communications Commission’s (“FCC”) Form 477 data that reports broadband speeds and technology for each census block in which a broadband provider offers service. The IBTA’s Report was completed in December 2017, using FCC Form 477 data that was filed in March 2017, but not made available until November 2017. Accordingly, the IBTA’s Report utilized the most up-to-date Form 477 information that was available at the time.

The IBTA’s Report offers clear evidence of the industry’s substantial network investment in broadband deployment and its efforts to expand and improve access to broadband services and greater speeds. Key Findings from the Report:

1. Dramatic Improvement

Indiana has seen dramatic improvement of 10 Mbps access in recent years. Today, more than 90% of Hoosiers have access to 10 Mbps speeds or better. This is a 76% increase over 2008.

2. Varied Technologies

A variety of technologies are being utilized to deploy broadband access in Indiana. There is widespread use of DSL, cable modem, fiber-to-the-premises, and fixed wireless to deliver service.

3. Continuing Buildout

More than 6,546 square miles (almost a fifth of Indiana) have received access to 10 Mbps in the last two years.

4. Regional Comparability

Indiana's high-speed connectivity stacks up well to neighboring states, with access to 1 Gbps service and access to fiber-optic service exceeding regional averages.

Three of the IBTA's members, AT&T, CenturyLink, and Frontier have accepted funding from the FCC's Connect America Fund ("CAF") Phase II program to deploy broadband to homes and small businesses throughout rural Indiana. Collectively, these three members have committed to accepting over \$51 million annually in support over a six-year period. Through CAF Phase II and company-specific capital investment, the members will provide broadband speeds of at least 10 Mbps down/1 Mbps up to over 135,000 high-cost locations in rural Indiana. The companies are targeting to have enabled 60 percent of these CAF Phase II locations by the end of 2018.

One IBTA member company, TDS Telecom, accepted CAF II Alternative Connect America Model ("ACAM") based support to deploy broadband in rural areas throughout its operating territory in Indiana. TDS accepted over \$3 million annually in support over a ten-year period to provide speeds of at least 10 Mbps down/1 Mbps up to over 7,000 locations. The remainder of the member companies accepted Legacy Based Support and have varying levels of broadband deployment obligations depending on the existing availability of broadband in their service areas.

The IBTA believes broadband adoption is another area that merits attention to help lessen some of the financial challenges of providers to deploy broadband in rural areas. With higher adoption rates, broadband providers have greater incentives to serve a community and thereby increasing the quality of life, economic activity, productivity, and engagement. For example, the Broadband Ready Community Certification program that is overseen by the Indiana Economic Development Corporation (“IEDC”) appropriately requires the community to: “establish a procedure to promote broadband adoption in the unit, after the unit is certified as a broadband ready community.”⁴ Digital literacy education programs to educate Indiana residents regarding the benefits and uses of broadband will increase broadband adoption rates and potential positive economic impact in communities, especially in rural areas.

(5) Any other matter concerning universal service reform that the Commission considers appropriate.

The IBTA does not have any other matters regarding universal service reform that it wishes to address at this point. However, the IBTA is prepared to provide Reply Comments in response to other universal service reform matters that other parties may raise.

Conclusion

The IBTA appreciates the opportunity to provide its Initial Comments on GAO 2018-03 and believes its perspectives will further the Commission’s efforts to prepare a final report on the IUSF and broadband deployment to the Interim Study Committee on Energy, Utilities, and Telecommunications, pursuant to Section 13 of HEA 1065. The IBTA is willing to work with

⁴ IC 5-28-28.5-8


Staff through workshops or other opportunities to assist in its efforts to develop a comprehensive and effective IUSF-Broadband Study.

2018

INDIANA REPORT ON BROADBAND PROGRESS



Indiana Broadband and
Technology Association



“Today, high-speed Internet access (or broadband) is critical to economic opportunity, job creation, and civic engagement.”

FCC CHAIRMAN Ajit Pai

A Note About This Data

Since 2014 the FCC has collected Form 477 data from every broadband provider in the country. Providers are required to report broadband speeds and technology for each census block in which they offer service. This “IBTA Report on Broadband Progress” utilizes that data, as well as information from FCC annual broadband reports. Information from more than one hundred Indiana telecommunications providers are included in these maps and charts.

Form 477 data is filed twice a year. Data accurate as of June 30 is filed in September. Data accurate as of December 31 is filed in March. The FCC usually releases the data six to ten months after it is filed. For example, this “IBTA Report on Broadband Progress” was completed in December 2017, using data that was filed in March 2017, but not made available until November 2017. Accordingly, this report utilizes the most up-to-date Form 477 information available.



Bill Soards

IBTA CHAIRMAN

There's no doubt that broadband access is critical to our modern world. And IBTA member companies are proud to be in the business of bringing that access to the families and businesses of Indiana.

For more than a hundred years, telecommunications firms have been investing in the Hoosier state. These investments have transitioned our technologies from hand-cranked magneto phones, operator-assisted calling, and party lines, to world-class fiber and wireless services. Long distance calls and internet searches can zip across the globe with a speed and quality that were impossible to fathom not all that long ago. The history of the telecom industry in our state is one of investment and improvement.

We know the job isn't done, of course. Consumers have increasing demands for faster and faster broadband speeds. New and evolving applications in telemedicine, advanced manufacturing, agriculture and the Internet of Things (IoT) will require incredible speed and quality. It will take significant investment and continued leadership from our elected officials to meet the needs of Indiana. IBTA members are up to the challenge, just as they have been for more than a century.



John Koppin

IBTA PRESIDENT

Indiana has long been a leader in telecommunications, and one reason for that has been the common-sense regulatory approach established by the General Assembly and the Utility Regulatory Commission. Policy-makers and regulators, especially in recent years, have understood how a light-touch regulatory environment can foster innovation and investment.

IBTA members are seizing that opportunity by investing in networks that serve this state. Today, more than 90% of Hoosiers have access to 10 Mbps speeds or better. When the FCC released their sixth Broadband Deployment Report in 2010, it noted that only 14% of Indiana connections were capable of those speeds.

The Indiana approach is working, and the maps and charts in this report are evidence of that. The Indiana Broadband and Technology Association looks forward to continuing to work with our state leaders to ensure that Indiana continues to be served with the best in modern broadband services.

INDIANA TELEPHONE EXCHANGE AREAS

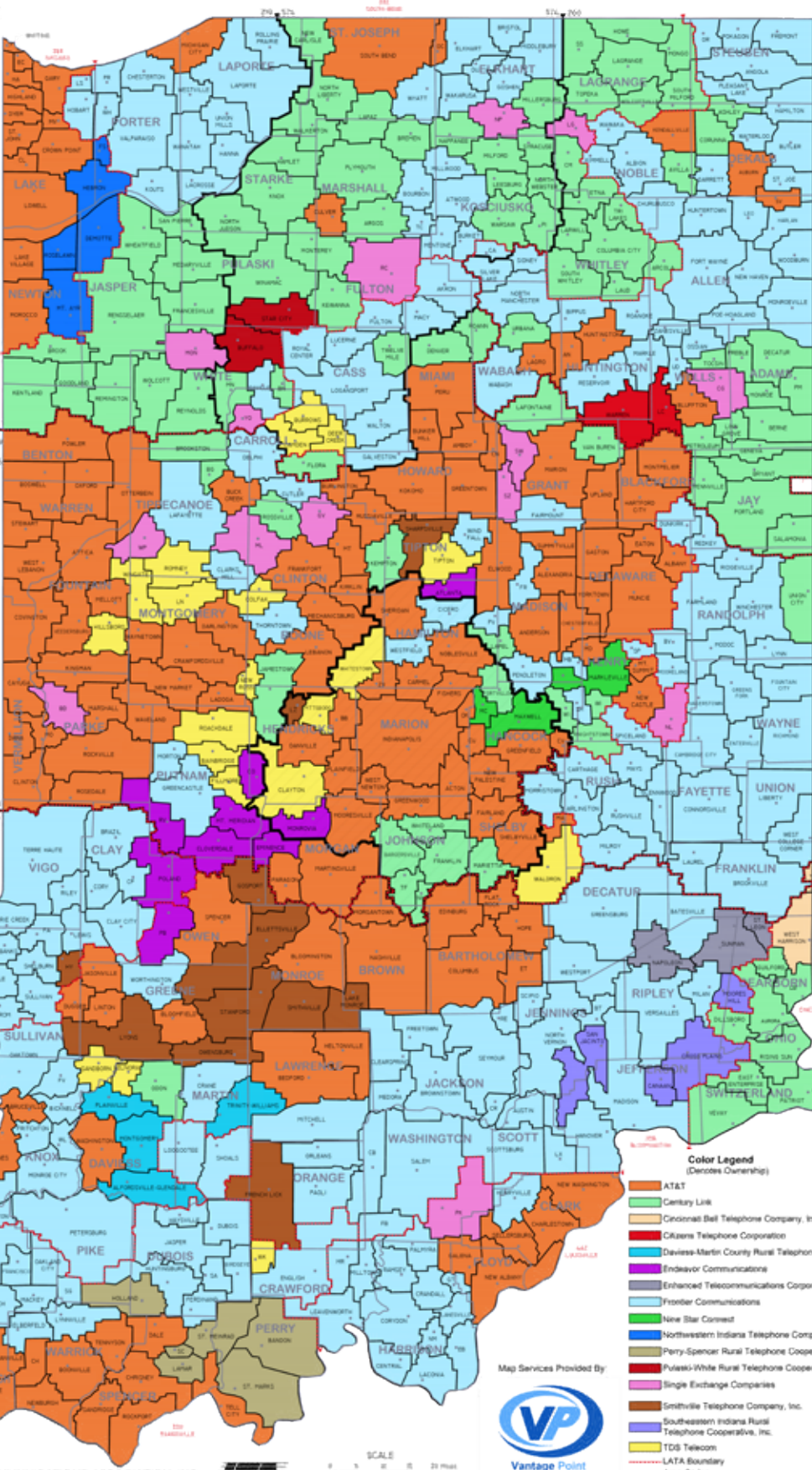
2018

LOCAL EXCHANGE CARRIER CORPORATIONS

AT&T	W-8
Bloomington Home Telephone, Inc.	W-8
CenturyLink	L-4
Cincinnati Bell	L-11
Citizens Telephone Corporation	E-8
Craigville Telephone Company, Inc.	E-10
Davess-Martin County Rural Telephone Corporation	M-4
Endeavor Communications	J-4
Enhanced Telecommunications Corporation	E-10
Frontier Communications Corporation	O-10
Georgetown Telephone Company, Inc.	E-5
Ministar Connect	W-8
Ligonier Telephone Company, Inc.	W-8
Monon Telephone Company, Inc.	O-4
Mulberry Cooperative Telephone Company, Inc.	E-5
New Lisbon Telephone Company, Inc.	W-8
New York Telephone, Inc.	E-7
Northwestern Indiana Telephone Company, Inc.	C-3
Perry Spencer Rural Telephone Cooperative, Inc.	O-5
Pulaski White Rural Telephone Cooperative, Inc.	O-5
Rochester Telephone Company, Inc.	O-4
Smithville Telephone Company, Inc.	E-5
Southeastern Indiana Rural Telephone Cooperative, Inc.	L-23
Swayzee Telephone Company, Inc.	E-7
Sweetser Telephone Company, Inc.	E-7
TDS Telecom	W-5
Washington County Rural Telephone Cooperative, Inc.	M-7
Yonon Telephone Company, Inc.	E-5

Exchange Abbreviations

AN - ANDREWS	PV - PERKINSVILLE
BB - BRONKHORST	RC - ROCHESTER
BE - BLOOMINGDALE	RE - REEDINGTON
BG - BATTLE GROUND	RV - REELSVILLE
BN - BURNETTSTOWN	SA - ST. ANTHONY
BT - BUTLERVILLE	SC - SAKATA CLAUSS
BV - BOUNTYVILLE	SG - SPURGEON
CA - CLAYPOOL	SH - SHIPLEY
CB - CARROLLSBURG	SP - SPRINGDALE
CG - CRAIGVILLE	SS - SHIPSHEWANA
CH - CHANDLER	SV - SPENCERVILLE
CI - COLUMBIANA	SW - SWEETSER
CM - CROMWELL	SZ - SIBAZEE
CO - CONVERSE	
CD - COATESVILLE	
CP - CENTER POINT	
CR - CROTHAMSVILLE	TC - TIPPECANOE
CL - CLUMBERLAND	TP - TRAFALGAR
CV - CHARLOTTEVILLE	UD - UNIONDALE
CY - CYNTHIANA	WH - WHEELER
DU - DUNLAP	WI - WILKINSON
EB - ELIZABETH	WK - WOLFFE
EC - EAST CHICAGO	WL - WELLSFORD
ST - ELIZABETH-TOWN	WP - WEST POINT
FA - FARMERSBURG	YO - YECAMAN
FB - FREDERICKSBURG	ZY - ZIONSVILLE
FE - FEITCHTON	
FT - FRANKTON	
FR - FOUNTAIN SPRINGS	
FV - FRENCHLANDVILLE	
GT - GEORGETOWN	
LD - LIBERTY CENTER	
LI - LINCOLN	
LN - LINDEN-NEW RICHMOND	
LS - LAKE STATION	
LX - LEXINGTON	
LZ - LUTON	
MA - MARILLA	
MB - MICHANICSBURG	
MC - MCCORDSVILLE	
MD - MIDDLETOWN	
ME - MULBERRY	
MR - MONTICELLO	
MT - MICHIGANTOWN	
MW - MOUNTAIN VIEW	
NH - NEW HARMONY	
NY - NEW YORK	
NL - NEW LISBON	
NM - NEW MCCLETON	
NP - NEW PARIS	
OC - OSCEOLA	
OK - OKLAHOMA CITY	
OR - ORLAND	
PA - PATRICKSBURG	
PI - PINECASTLE	
PK - PLEASANT MILLS	
PL - PLEASANTVILLE	
PO - PORTAGE	



This map shows the traditional incumbent service area of Indiana providers. Although incumbent territories are less meaningful in today's competitive and deregulated environment, they still provide information on where providers have voice networks, traditionally had carrier of last resort obligations, and may be well-positioned to provide broadband.

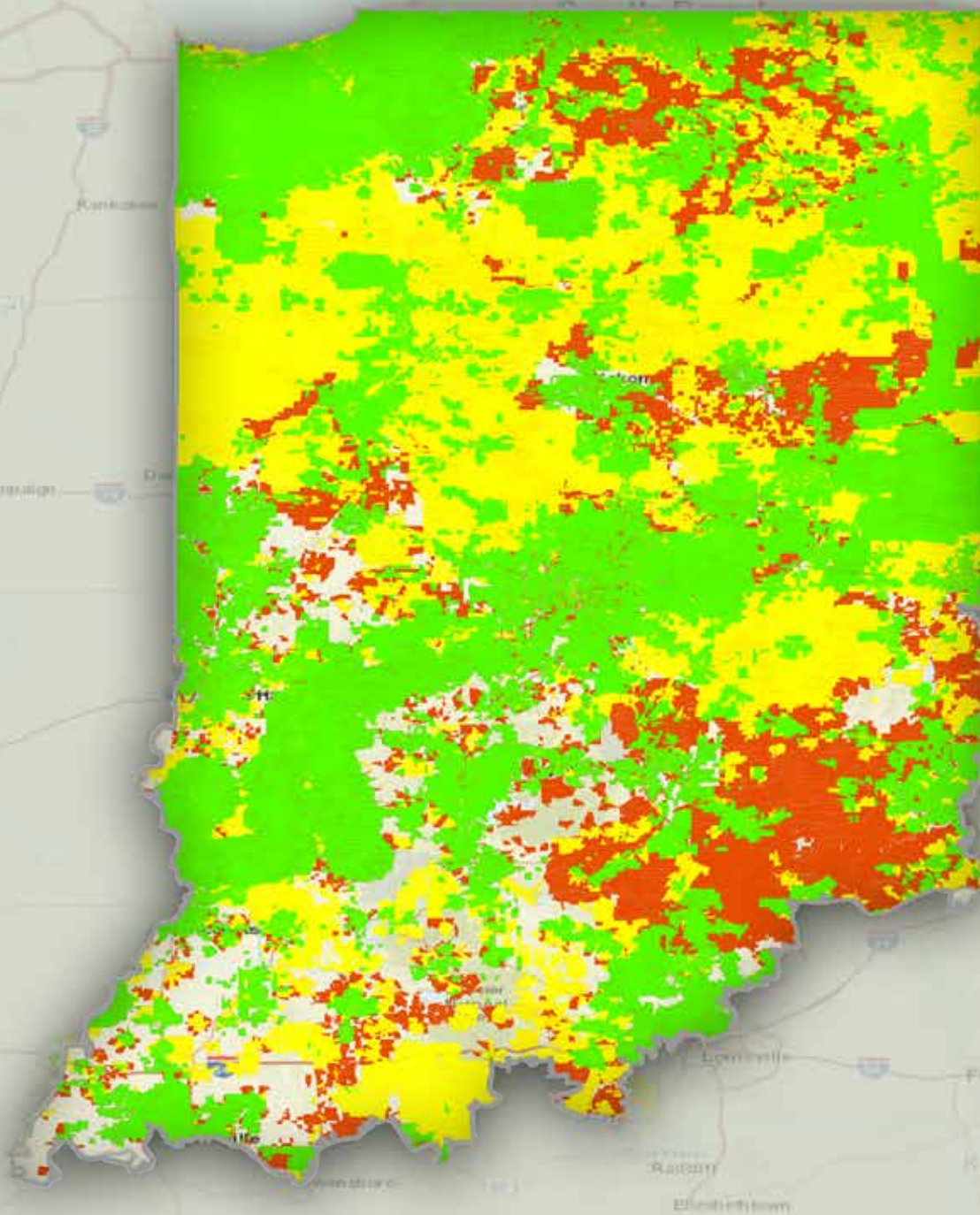
The chart below lists the more than one hundred telecommunication providers who have broadband facilities within Indiana. Several dozen provide residential service at 10 Mbps or better, with others serving business customers or other telecommunications providers.

Provider	Max Reported Residential Speed (Mbps)	Max Reported Business Speed (Mbps)	Indiana Census Blocks Served (#)	Indiana Census Blocks Served (%)
Access One	0	3	6	0%
Acme Communications	120	120	28,559	11%
Advanced Integrated Technologies	0	3	1	0%
Agile Network Builders	0	100	320	0%
AgPro Wireless	30	0	1,614	1%
Alliance Internet Communications	20	0	9	0%
Alpheus Data Services	0	50	1	0%
ALTIUS Communications	10	0	2,276	1%
APX Net	0	100	11	0%
Asset Black	0	100	1	0%
AT&T Services	1000	0	151,207	57%
Auburn Essential Services	100	1000	706	0%
Avenue Broadband, NewWave	100	0	7,815	3%
Big Sandy Telecom	50	50	3	0%
Birch Communications	6	300	105	0%
Bloomington Home Telephone Company	100	100	184	0%
Blu Sky Wireless	25	25	108	0%
Blueriver Networking Services	10	0	697	0%
BroadRiver Communication Corporation	0	100	1	0%
Broadview Networks Holdings	0	1.5	1	0%
BullsEye Telecom	0	1.5	4	0%
Call One	0	1.5	1	0%
Central Indiana Communications	1000	1000	1,941	1%
CenturyLink	100	0	22,620	8%
Charter Communications	300	1000	32,362	12%
Cincinnati Bell Any Distance	0	0	2	0%
Cincinnati Bell Telephone Company	1000	0	267	0%
Citizens Communications	100	0	6,592	2%
Citizens Telephone	100	100	584	0%
Clay County Rural Telephone Cooperative	1000	1000	2,089	1%
CMN-RUS	1000	1000	9,840	4%
Cogent Communications Group	0	1000	15	0%
Colo Telephone Company	25	25	1	0%
Comcast Cable	987	0	88,981	33%
Community Fiber Solutions	50	50	3,775	1%
Compudyne	0	30	1	0%
Comteck of Indiana	50	50	223	0%
Convergence Technologies	0	20	31	0%
Craigville Telephone Company	1000	0	511	0%
Crossroads Broadband	3	0	12	0%
Cyber Broadcasting	30	0	45	0%
Daviess-Martin County Rural Telephone	13	13	1,442	1%
DMCI Broadband	15	20	558	0%
DoveTel Communications	0	20	1	0%

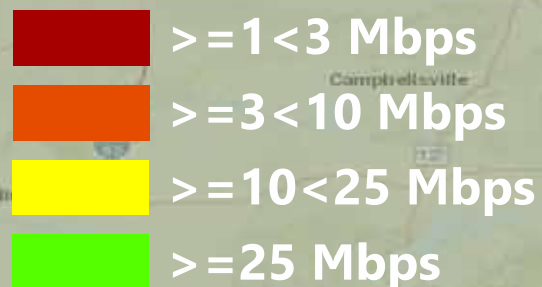
Provider	Max Reported Residential Speed (Mbps)	Max Reported Business Speed (Mbps)	Indiana Census Blocks Served (#)	Indiana Census Blocks Served (%)
EarthLink Business	0	100	1,025	0%
Eastern Indiana WIFI	300	102	281	0%
Essex Telcom	75	1000	7,577	3%
Everstream GLC Holding Company	0	1000	3	0%
eVolve Business Solutions	0	0	269	0%
FBN Indiana	100	1000	7,449	3%
First Communications	0	150	19	0%
Fourway Computer Products	25	100	85	0%
Frontier Communications Corporation	30	0	130,558	49%
Gallatin County Fiscal Court	8	5	7	0%
Global Capacity	6	45	425	0%
Geetingsville Telephone Co.	100	100	409	0%
Gtek Computers & Wireless	4	0	2	0%
Lightbound	0	1000	117	0%
iLOKA, NewCloud Networks	10	10	2	0%
Independents Fiber Network	0	1000	736	0%
Indiana Fiber Network	0	1000	73	0%
IP Global	0	20	1	0%
Joink	35	0	546	0%
KC Online	40	0	19	0%
King Street Wireless L.P.	1	0	61,384	23%
Lebanon Utilities	10	100	3,781	1%
Level 3 Communications	0	1000	1,424	1%
Lighttower Fiber Networks I	0	1000	3,227	1%
Ligonier Telephone Co.	30	0	563	0%
LigTel	15	0	6,413	2%
LocalLoop	20	0	16	0%
McClure Services	0	0	7	0%
MCI Communications Corporation	0	750	715	0%
McLeodUSA Telecommunications	0	1000	1,784	1%
Mediacom Indiana	1000	0	8,489	3%
Mercury Wireless Indiana	7	7	36,205	14%
MetaLINK Technologies	25	25	6,853	3%
Metro Fibernet	1000	1000	9,840	4%
Midwest Connections	1000	1000	1,016	0%
Midwest Telecom of America	20	20	12,741	5%
Miles Communications	1000	1000	9,571	4%
Mobilcomm	5	0	778	0%
Monon Telephone Company	50	50	1,637	1%
Mulberry Cooperative Telephone Co.	10	10	396	0%
National Mobile Communications	0	0	1	0%
NetCarrier Telecom	0	1000	1	0%
NetFortris Acquisition Co.	0	1.5	8	0%
Network Services Solutions	0	45	5	0%
New LisbonTelephone	1000	0	2,622	1%
New Paris Telephone	8	1000	1,953	1%
New Paris Telephones Quality Cablevision	14	14	542	0%
NineStar Connect	1000	1000	867	0%
NLBC	100	100	4,039	2%
Northern Indiana Technologies	3	0	693	0%

Provider	Max Reported Residential Speed (Mbps)	Max Reported Business Speed (Mbps)	Indiana Census Blocks Served (#)	Indiana Census Blocks Served (%)
Northwestern Indiana Telephone Company	100	1000	1,039	0%
NuWave Technology	10	10	288	0%
Perry-Spencer Communications	20	50	1,745	1%
Perry-Spencer Rural Telephone Cooperative	50	50	1,682	1%
Portative Technologies	20	50	624	0%
Precision Data Solutions	1000	0	180	0%
Pritell	5	0	8	0%
Pulaski White Rural Telephone Cooperative	150	150	799	0%
Q Wireless	10	0	1,867	1%
Richmond Power and Light	1	200	1,553	1%
Rochester Telephone Co.	50	1000	829	0%
RTC Communications Corp.	50	1000	2,776	1%
SAA bright.net	10	10	428	0%
SEI Data	3	0	280	0%
Smithville Communications	1000	1000	1,790	1%
Smithville Telecom	1000	1000	254	0%
S-Net Communications	0	1.5	1	0%
Southeastern Indiana Rural Telephone Coop	100	0	644	0%
Spectrotel	0	150	80	0%
Speedwavz	15	10	1	0%
Sunman Telecommunications Corporation	1000	1000	1,050	0%
Surf Air Wireless	25	25	12,949	5%
Swayzee Telephone Co	20	20	572	0%
Sweetser Telephone Company	50	50	184	0%
Talk America, Cavalier Telephone	0	6	1	0%
TDS MetroCom	0	100	1	0%
TDS Telecommunications Corporation	1000	1000	5,424	2%
Telecommunications Management, NewWave	100	0	2,945	1%
TelNet Worldwide	0	1.5	1	0%
The Laffoon Corporation	15	1000	701	0%
Transworld Network	10	1000	37,238	14%
TV Cable of Rensselaer	100	100	364	0%
Unite Private Networks	0	1000	188	0%
United States Cellular Corporation	1	0	9,992	4%
Urban Communications	10	0	1	0%
US LEC	0	100	28	0%
US Signal Company L.L.C.	0	1000	18,381	7%
Voyant Communications	0	100	26	0%
W A T C H TV	15	0	71,707	27%
Wabash Communications	5	20	463	0%
Wabash Mutual Telephone Company	80	1000	21	0%
Washington County Rural Telephone	50	0	549	0%
WideOpenWest Cleveland	1000	0	5,808	2%
Windstream Norlight	0	500	456	0%
Wintek Corporation	1000	1000	223	0%
XL Broadband	100	1000	16	0%
XSTREAM Wireless	20	50	105	0%
Yeoman Telephone Company	20	0	110	0%
Zayo Group	0	1000	23	0%

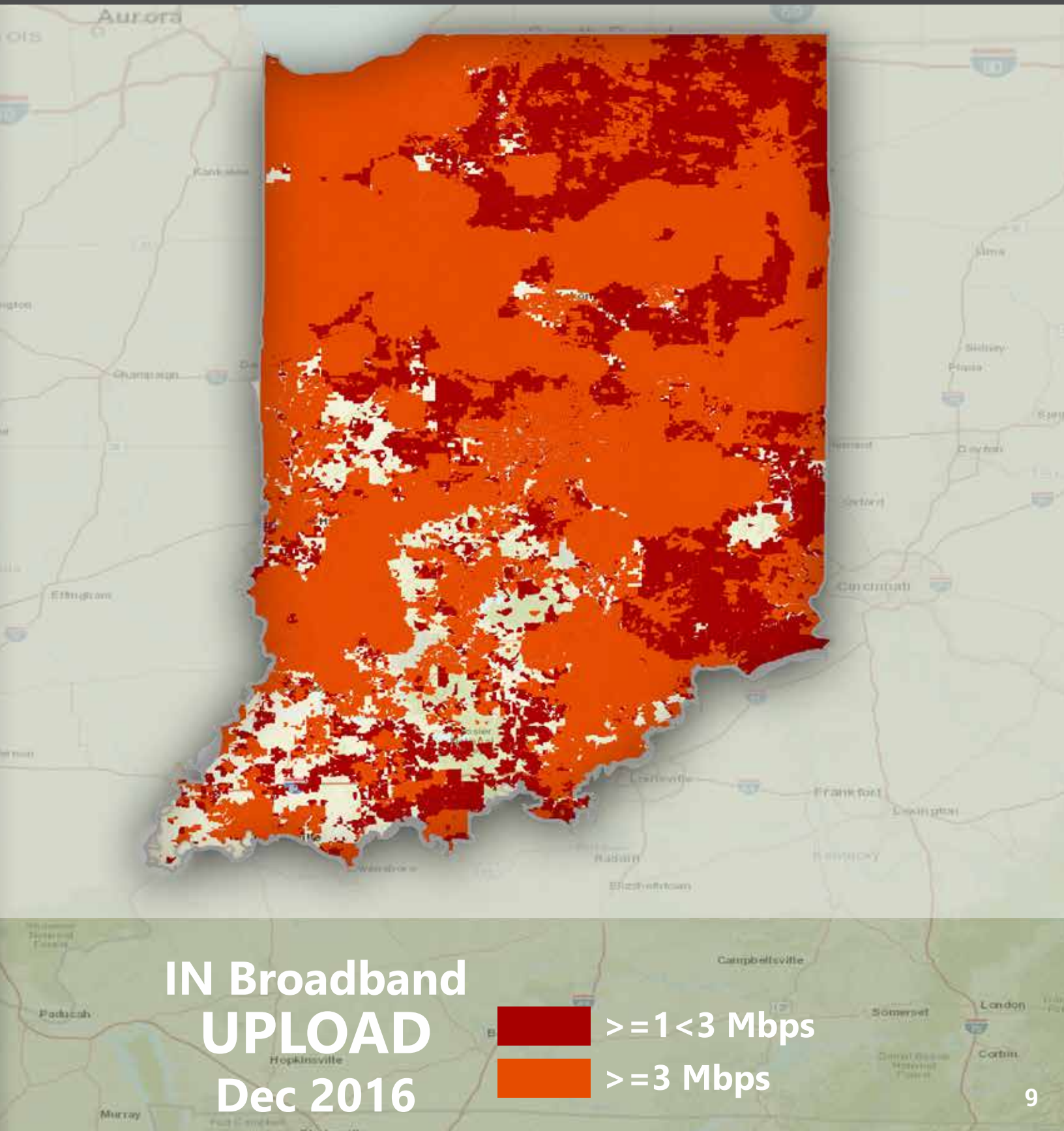
Three-quarters of Indiana geographically is covered with download speeds of 10 Mbps or better (shown in green and yellow). The populated areas of the state are generally well-served, and more than 86% of Indiana residents have access to broadband speeds of 25 Mbps or better, according to www.broadbandnow.com.



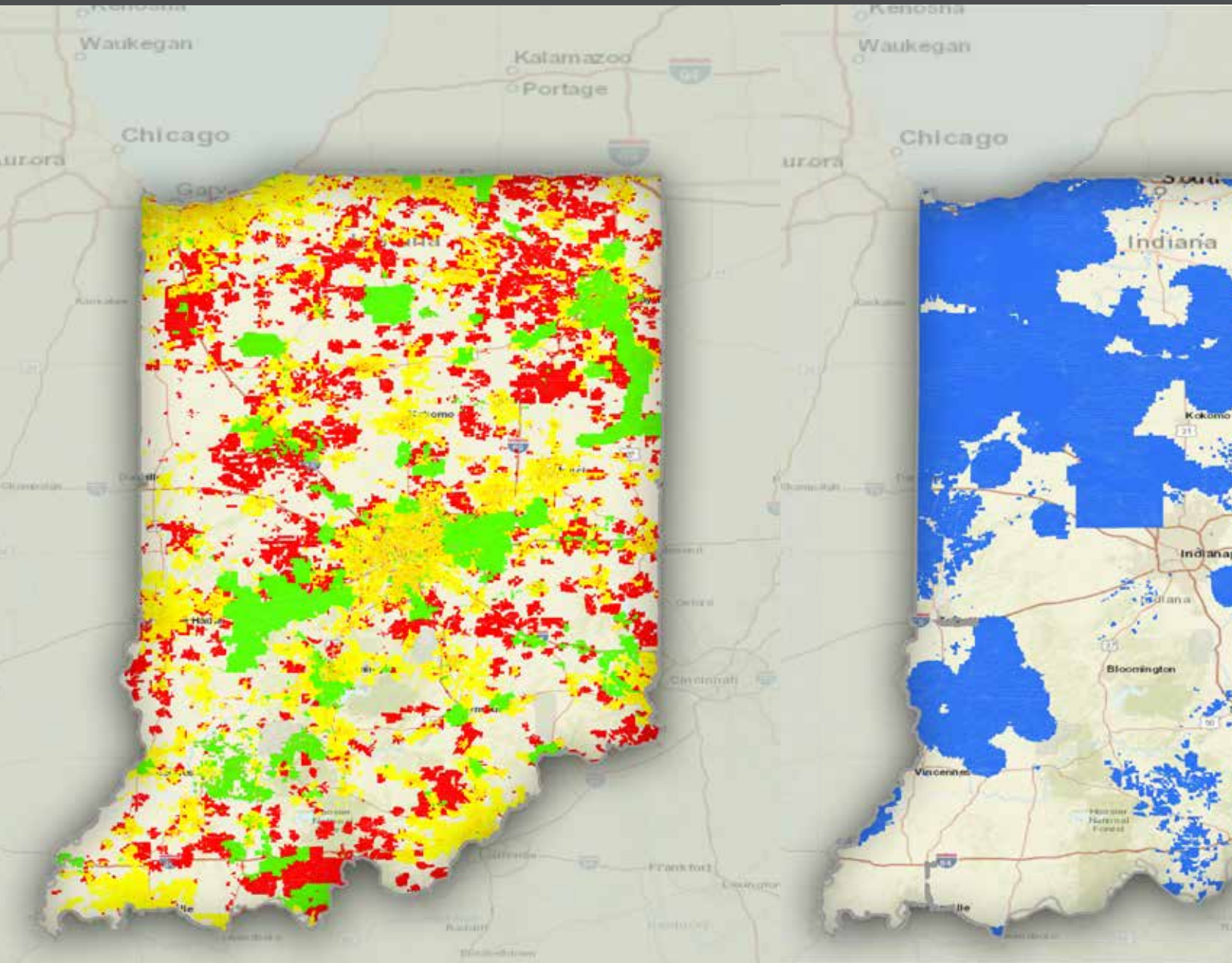
IN Broadband DOWNLOAD Dec 2016






Most of Indiana has upload speeds of 3 Mbps or better (shown in orange). Almost the entire state features upload speeds of at least 1 Mbps (shown in orange or red).



Indiana features widespread deployment of 10 Mbps using four different kinds of fixed broadband technology. The maps on this page shows where wired service is being delivered by DSL (red), cable modem (yellow), and fiber-to-the-premises (green). The second map shows fixed wireless service at 10 Mbps or better download (blue).



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-  DSL ≥ 10 Mbps
-  Cable ≥ 10 Mbps
-  Fiber ≥ 10 Mbps

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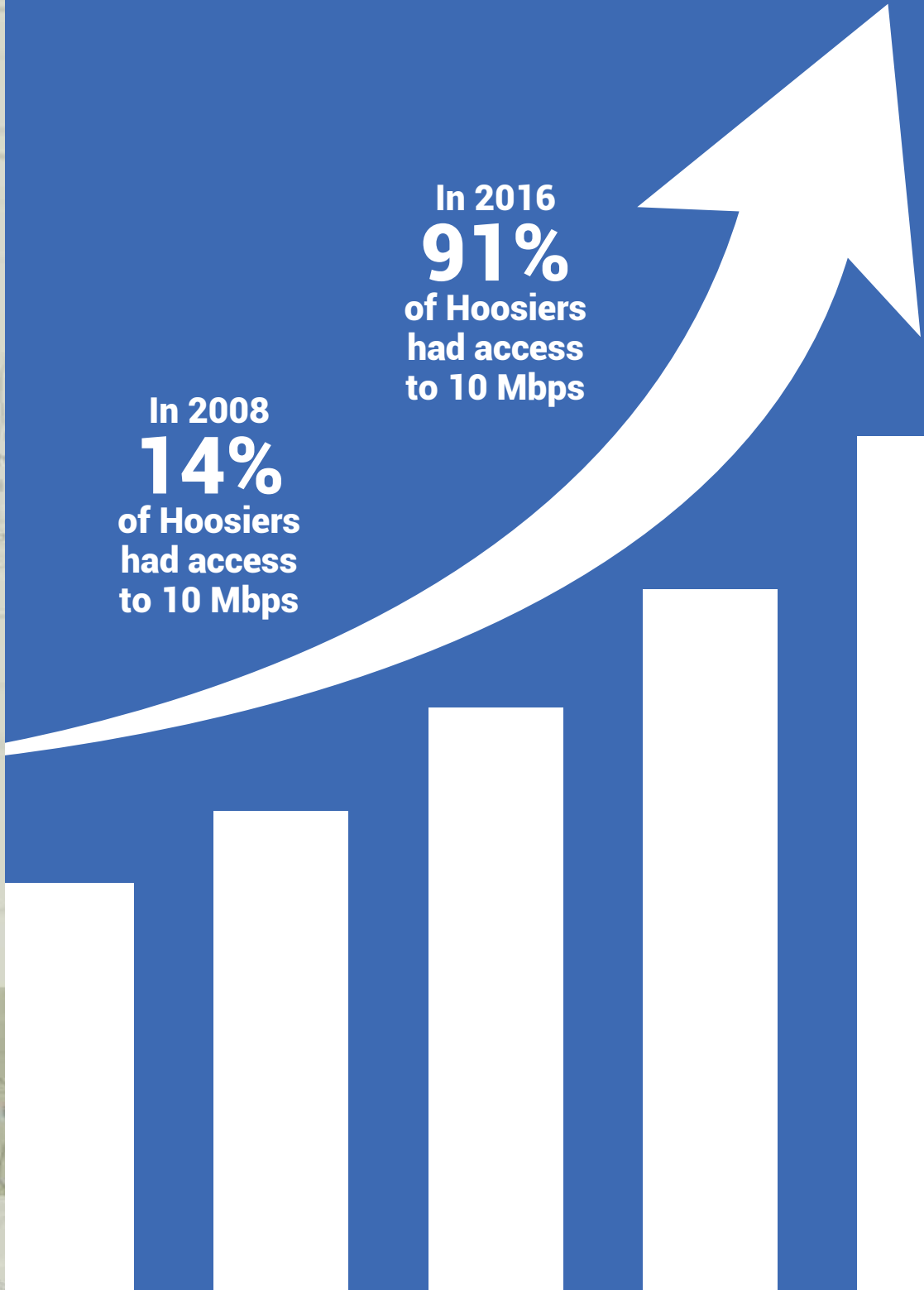


Access to 10 Mbps in Indiana has increased dramatically in recent years. As noted earlier, today, more than 90% of Hoosiers have access to 10 Mbps speeds or better. When the FCC released their sixth Broadband Deployment Report in 2010, it noted that only 14% of Indiana connections were capable of those speeds.

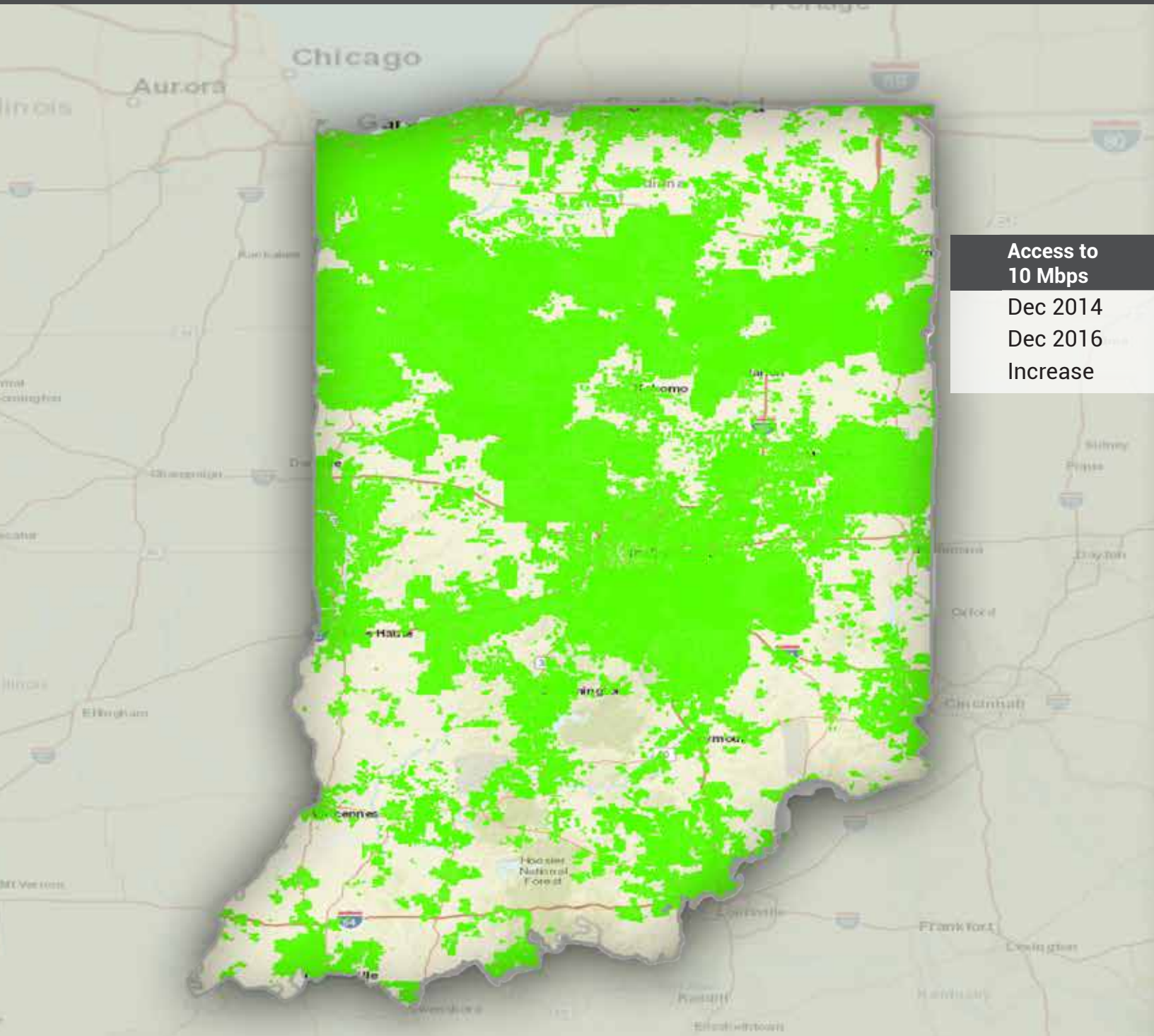


In 2008
14%
of Hoosiers
had access
to 10 Mbps

In 2016
91%
of Hoosiers
had access
to 10 Mbps




Substantial network investment has helped improve Indiana broadband access over the last two years, especially in northern and southwestern Indiana. The FCC didn't require filing of Form 477 data of broadband speeds at the census block level until December 2014, and that data is mapped on this page to show baseline access to 10/1 Mbps.

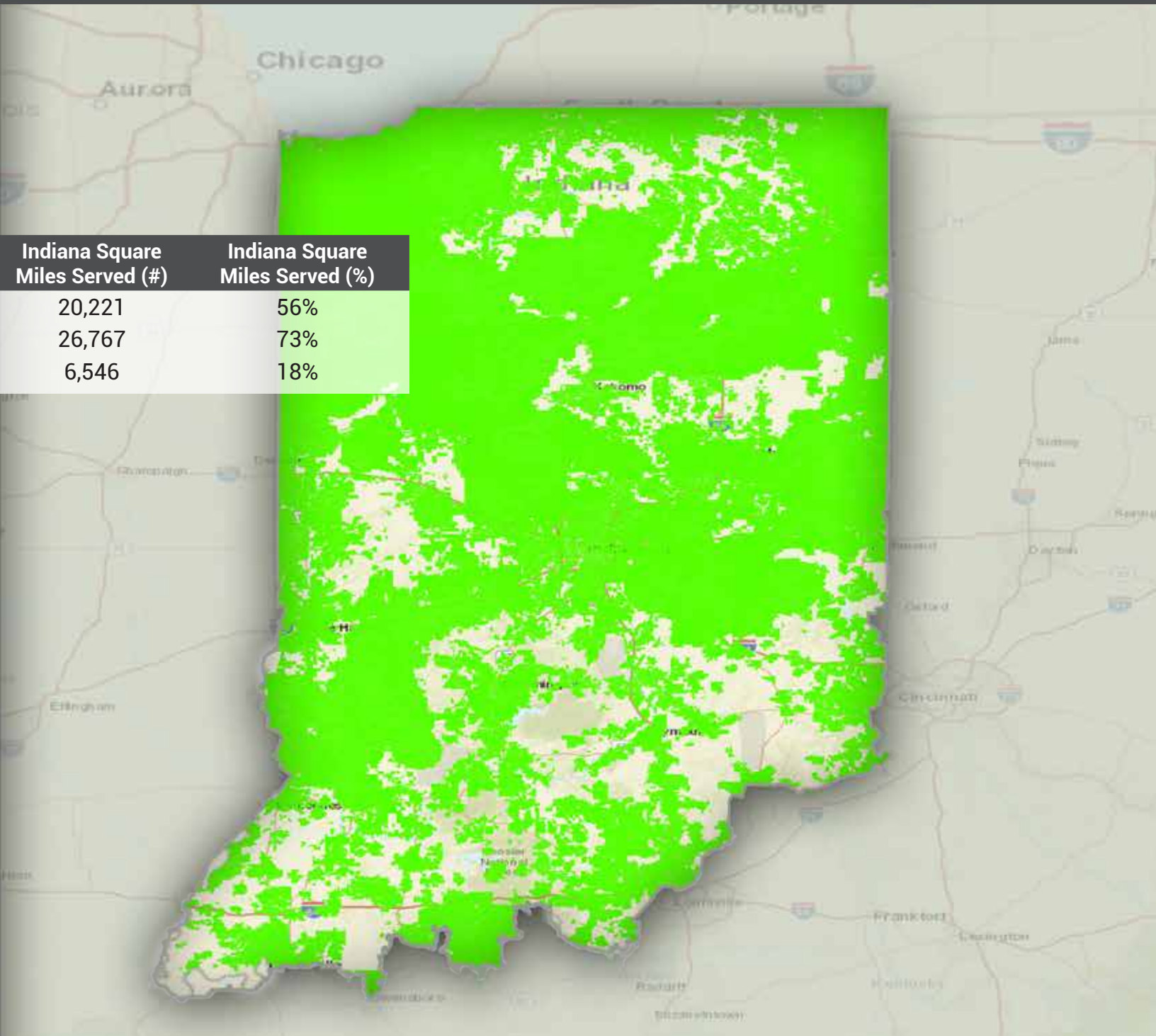


Access to
10 Mbps
Dec 2014
Dec 2016
Increase

IN Broadband
Dec 2014

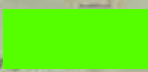
 ≥ 10 Mbps

This map shows the most recent publicly-available 10 Mbps data.

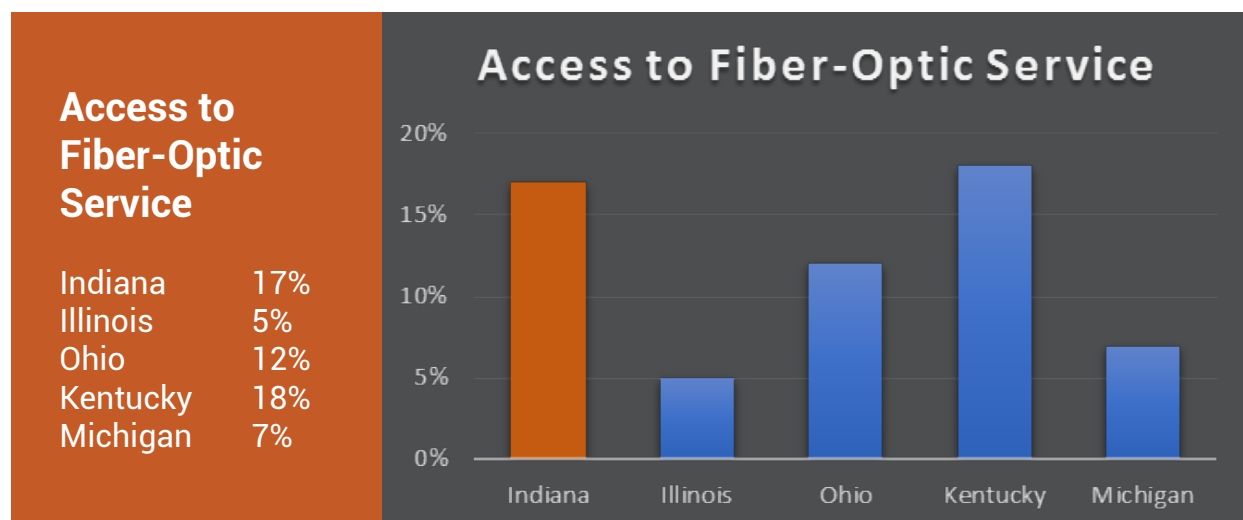
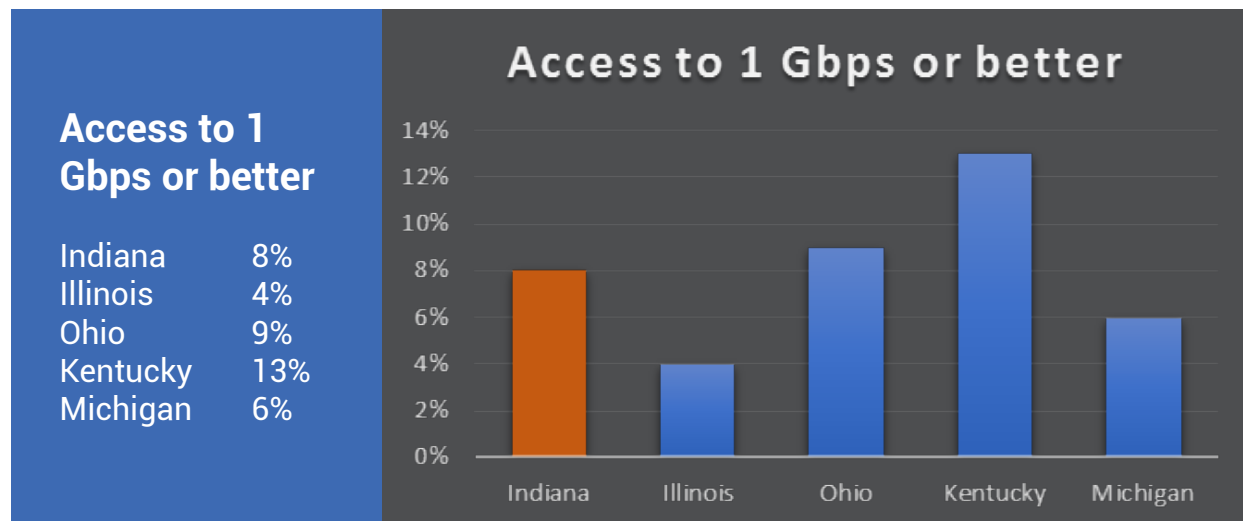
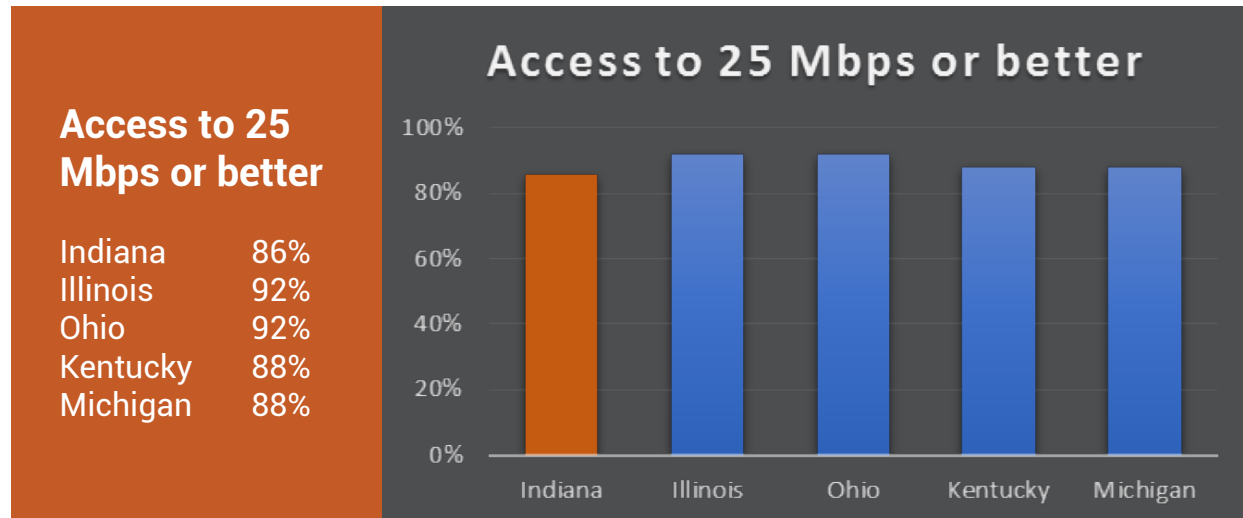


Indiana Square Miles Served (#)	Indiana Square Miles Served (%)
20,221	56%
26,767	73%
6,546	18%

**IN Broadband
Dec 2016**

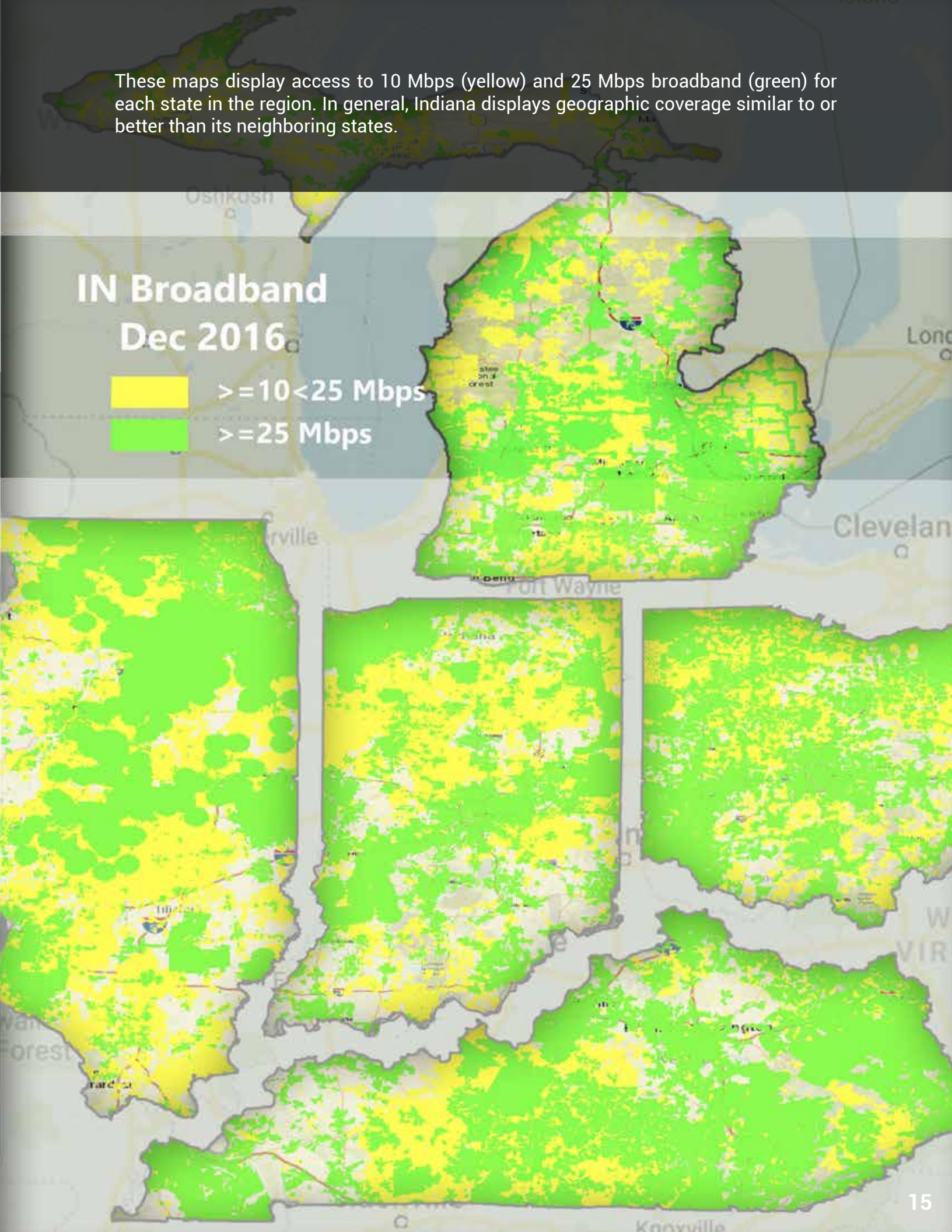
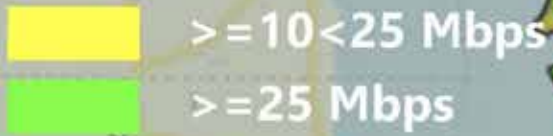
 **>= 10 Mbps**

Indiana's high-speed connectivity stacks up well to other states in the region, with access to 1 Gbps service and access to fiber-optic service that is better than what is found in a number of neighboring states.



These maps display access to 10 Mbps (yellow) and 25 Mbps broadband (green) for each state in the region. In general, Indiana displays geographic coverage similar to or better than its neighboring states.

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Key Findings

1. Dramatic Improvement

Indiana has seen dramatic improvement of 10 Mbps access in recent years. Today, more than 90% of Hoosiers have access to 10 Mbps speeds or better. In 2008, only 14% did.

2. Varied Technologies

A variety of technologies are being utilized to deploy broadband access in Indiana. There is widespread use of DSL, cable modem, fiber-to-the-premises, and fixed wireless to deliver service.

3. Continuing Buildout

More than 6,546 square miles (almost a fifth of Indiana) have received access to 10 Mbps in the last two years.

4. Regional Comparability

Indiana's high-speed connectivity stacks up well to neighboring states, with access to 1 Gbps service and access to fiber-optic service exceeding regional averages.

This report was sponsored by the Indiana Broadband and Technology Association and engineering and consulting firm Vantage Point Solutions. For more information on this report, contact:

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