

# Indiana's Infrastructure

## Rating, condition and stats

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Center for Regional Development

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# Introduction and Outline:

- Hoosier State is known as the “Crossroads of America”.
  - “Rivers, canals, railroads and finally interstates facilitated the centralized location for Indiana” (Indiana Historical Society 2018).
- This presentation covers rating, conditions and stats primarily for surface transportation infrastructure system.
  - State and local network conditions
- Surface transportation is integral to transportation and logistics cluster, acting as “catalyst” for clusters relying on bulk goods movement and deliveries.
- The presentation also introduces SMR (small modular reactors) especially some economic and location aspects in context of energy generation infrastructure.

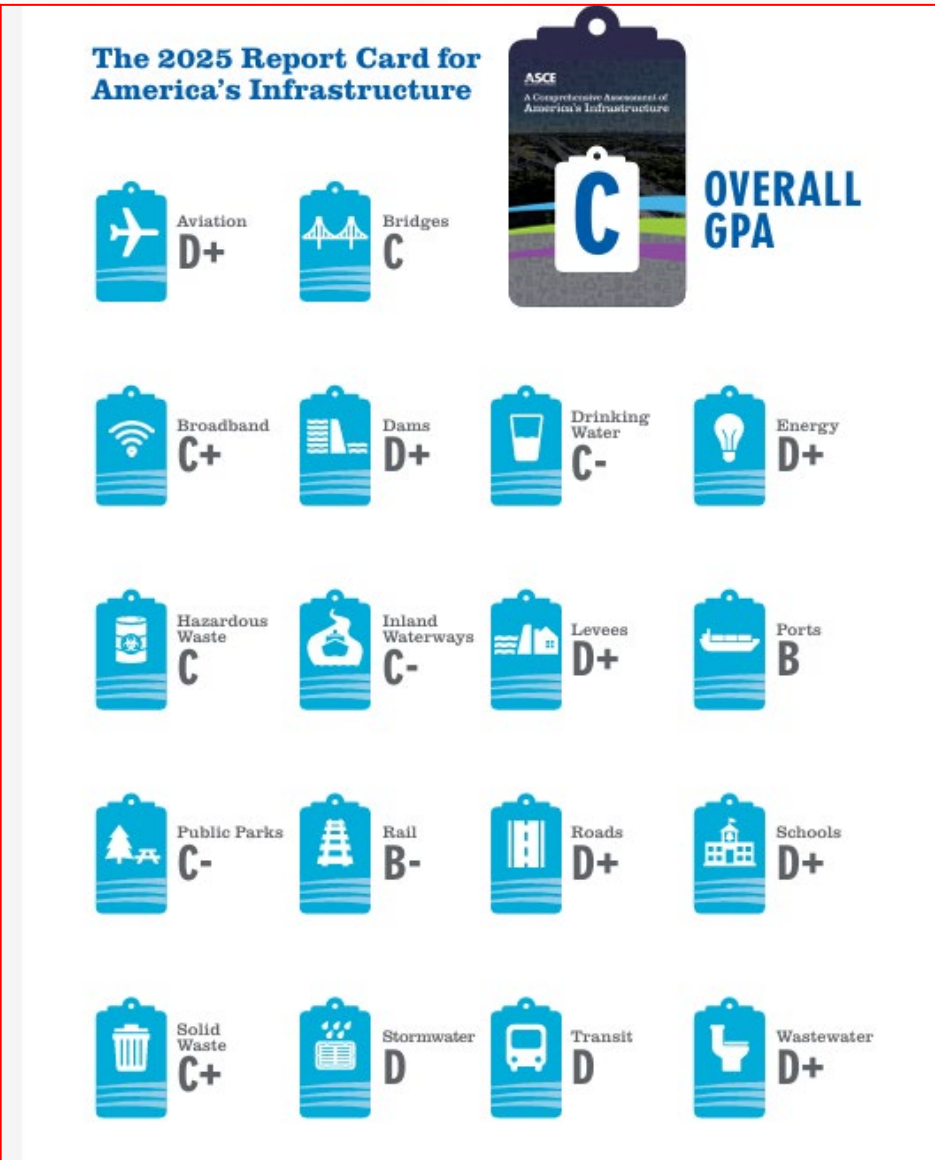
# Report Card for America's Infrastructure ASCE: 1

- Since 1998, American Society of Civil Engineers (ASCE) has issued a report card on the assessment of U.S. infrastructure every four year.
  - 18 categories of infrastructure are assessed.
  - 2025 grading ranges from a **B** in **ports** to a **D** in **stormwater and transit**.
  - Overall infrastructure assessment grade was **C** (Mediocre, requires attention).
  - First time since 1998, a higher overall grade of **C** was received.
  - Capacity, condition, funding, future need, O&M, public safety, resilience, and innovation.
  - [www.infrastructurereportcard.org](http://www.infrastructurereportcard.org) by ASCE.

# Report Card for America's Infrastructure ASCE: 2

2021

2025



- 2017 score was **D+**
- 2021 score was **C-**
- 2025 score was **C**
- No **D-** in 2025
- **Investment matters**

**Infographic source: ASCE**

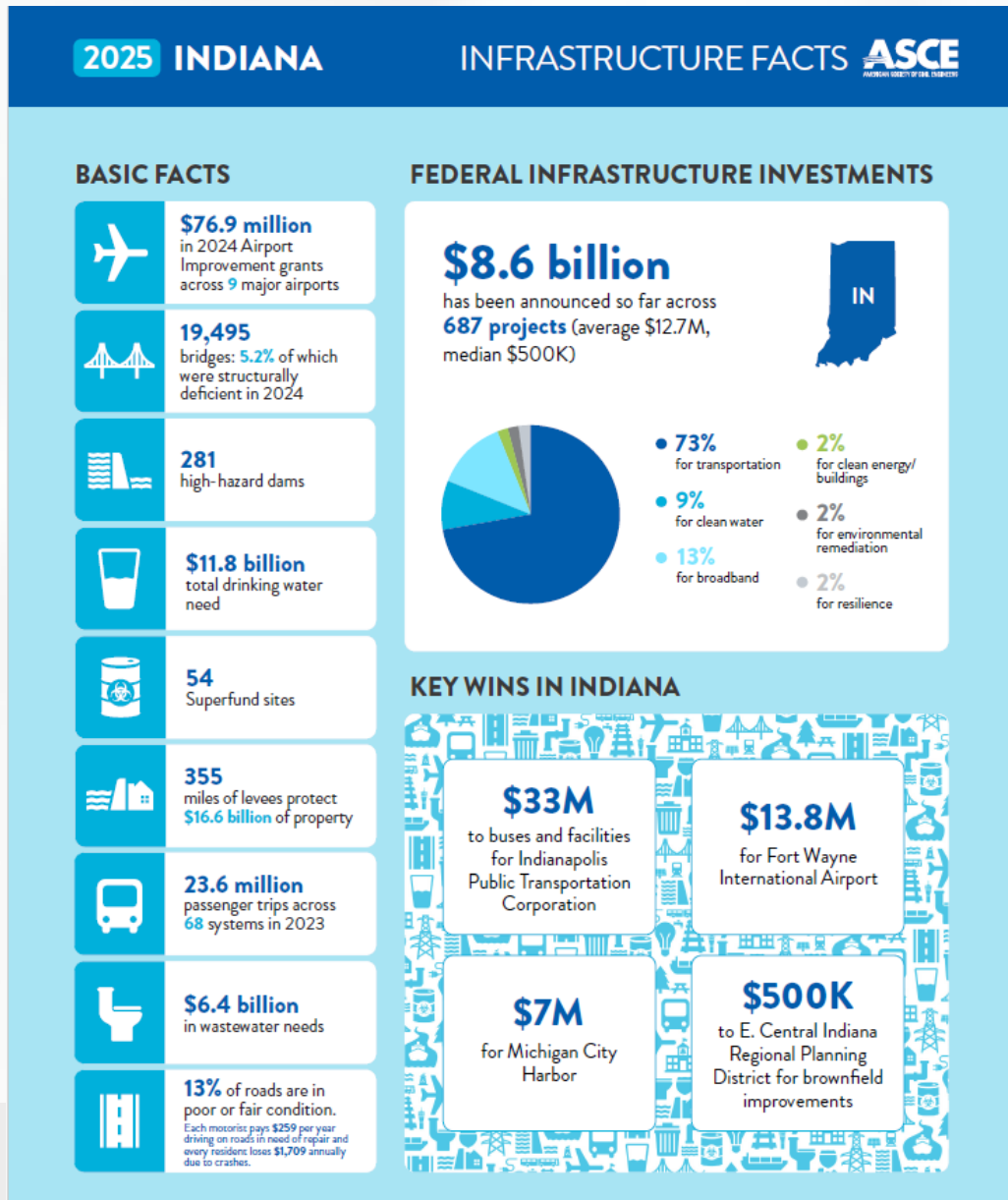
Source:  
<https://infrastructurereportcard.org/wp-content/uploads/2025/03/Executive-Summary-2025-NatL-IRC-WEB.pdf>; Page 7

<https://2021.infrastructurereportcard.org/wp-content/uploads/2020/12/2021-IRC-Executive-Summary-1.pdf>; Page 5

# Bridging The Gap ASCE: 3

- ASCE economic studies found that the lack of investments in infrastructure could have significant economic losses for national, regional, and local economies.
- ASCE’s “Failure to Act 2021” study estimated that families could lose \$3,300 annually because of deficient and subpar infrastructure.
- The infrastructure investments after 2021 reduced the economic burden to \$2,700 annually per family.
- Objective should be “Continue To Act” for benefits to different industries.
- ASCE study estimated that **Professional Services** could save **\$26B** annually; **Agriculture** save **\$7B** annually; Manufacturing save **\$52B** annually; Health Care save **\$21B** annually; and **Real Estate** save **\$36B** annually (ASCE Bridging The Gap 2024).
- There is a projected need for **\$3.7T** from 2024-2033 (ASCE Bridging The Gap 2024).

# Report Card for Indiana's 2025 Infrastructure ASCE: 4



- Around 5.2% of nearly 19,500 bridges are structurally deficient (SD). It means relatively poor condition or insufficient load-carrying capacity due to the original design or deterioration.
- Ranked 31<sup>st</sup> in % and 16 in # for SD (descending).
- Around \$12 billion needed for drinking water and \$6.4 billion needed for wastewater infrastructure.
- 13% of roads are in poor or fair condition.

Source: <https://infrastructurereportcard.org/wp-content/uploads/2025/03/IN-2025-State-Fact-Sheet-WEB.pdf>

NCDOT; American Road and Transportation Builders Association (ARTBA)

Infographic source: ASCE

# Multimodal infrastructure assets for Indiana

- 105,928 miles of public roads with 11,169 centerline miles (10.5%) state owned and maintained by INDOT and 1,238 centerline miles (less than 2%) interstates (INDOT, LRTP 2018-2045).
- **19,291 bridges** with 5,747 (30%) state or INDOT owned/maintained (LRTP 2018-2045).
- **4,134 miles of rail** with **1.5B tons of cargo annually** (LRTP 2018-2045).
- **117 public use airports, 3 ports, 225 maritime terminals**, trails and bikeways, commuter rail, and inland waterways (LRTP 2018-2045).
- Of 11,169 centerline miles for federal aid system have, interstate (11%), NHS- Non interstate (27%), Rural On System (57%), Urban On System (4.5%), and remainder is Off System.
- Functional Classification of 11,169 centerline miles: Interstate (11%), Freeway & Expressway (2.4%), OPA (22.5%), Minor Arterial (23.1%), Major Collector (40.5%), Minor Collector (0.2%), Local (0.2%), etc.

Source: INDOT LRTP [https://www.in.gov/indot/files/INDOT\\_LRTP\\_FINAL\\_FullDocWebPost.pdf](https://www.in.gov/indot/files/INDOT_LRTP_FINAL_FullDocWebPost.pdf)

<https://www.in.gov/indot/about-indot/central-office/asset-data-collection/indiana-road-system-facts/>

Indiana Road System Facts, [https://www.in.gov/indot/about-indot/central-office/asset-data-collection/indiana-road-system-facts/?utm\\_source=chatgpt.com](https://www.in.gov/indot/about-indot/central-office/asset-data-collection/indiana-road-system-facts/?utm_source=chatgpt.com)

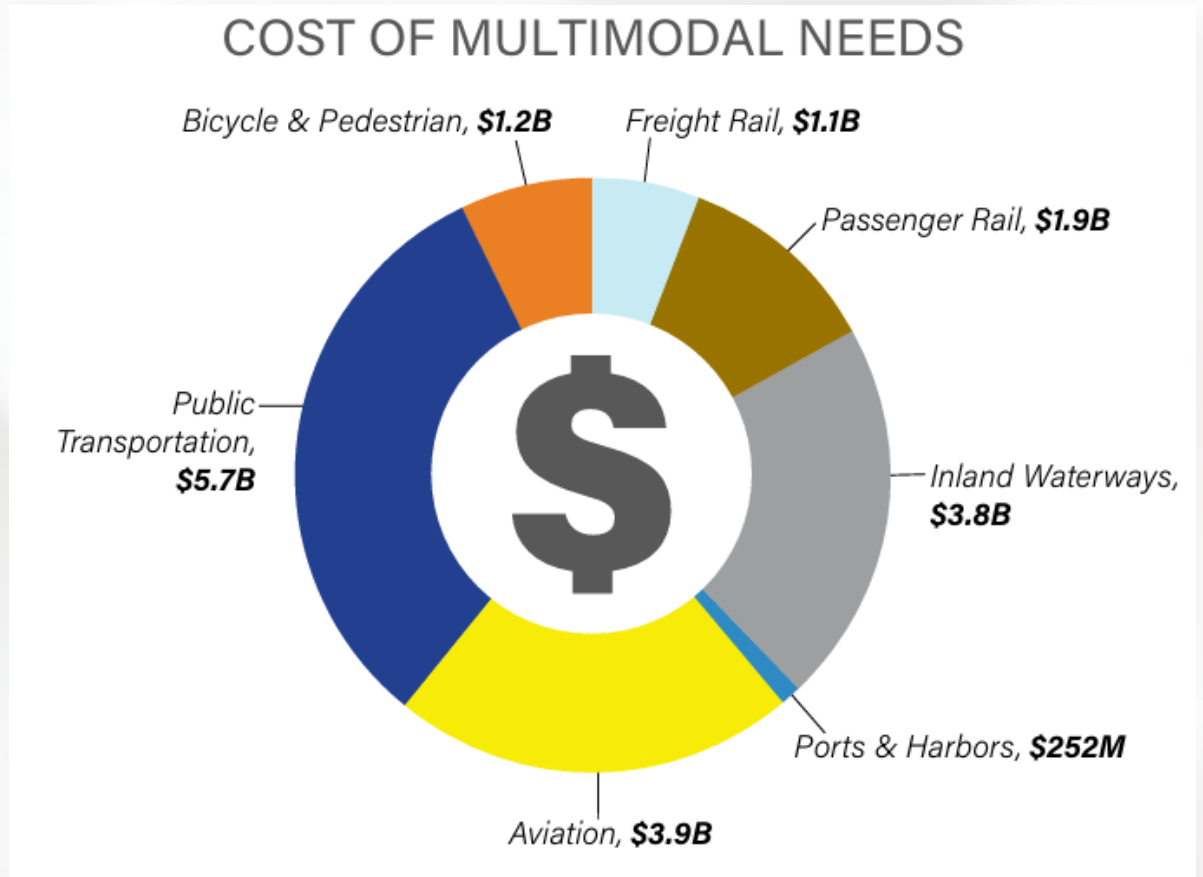
# Multimodal infrastructure needs assessment for Indiana

- The Long Range Transportation Plan 2045 by INDOT identifies **\$1B** annual funding needs for pavement and bridge and **\$9.2B** for major corridor improvements.
- State Transportation Improvement Program (STIP) 2018-2021 identifies more than **\$4.4B** in projects. STIP is prepared every four years. (INDOT LRTP 2045, Chapter 8).

Source: INDOT LRTP 2045

[https://www.in.gov/indot/files/INDOT\\_LRTP\\_FINAL\\_FullDocWebPost.pdf](https://www.in.gov/indot/files/INDOT_LRTP_FINAL_FullDocWebPost.pdf)

Infographic source: INDOT LRTP 2045



# Indiana Local Roads and Bridges, Indiana LTAP

- 85,954 (89%) centerline miles of roads are the responsibility of local agencies.
- 28% of roads in city/town are in good condition compared to 27% of roads in counties. 31% of roads in city/town are in poor condition compared to 27% in counties. 7% of roads in city/town and county are failed roads (Indiana Local Roads and Bridges, LTAP).
- Local agencies look after 13,173 bridges 20 feet or greater in length. 40% are good, 55% are fair and 5% are in poor condition (Indiana Local Roads and Bridges, LTAP).
- LTAP has estimated a **funding gap** of nearly \$1B to only preserve network conditions, \$1.8B to improve network condition, and \$2.4B to eliminate poor and failed roads over a **ten year period**.
- The estimated **annual funding needs** for bridges for replacement, rehabilitation, and preservation are more than \$0.5B (Indiana Local Roads and Bridges, LTAP).
- During FY 2023, local agencies spent \$1.5B to supplement funds using various revenue sources such as TIF funds, gaming revenues, general funds, etc. (Indiana Local Roads and Bridges, LTAP).

Source: Purdue LTAP <https://www.purdue.edu/intlap/resources/LRBR-onepager-FINAL.pdf>  
Local agency asset management plans submitted to Indiana LTAP in 2023.

# Small Modular Reactor (SMR) Technology 1

- Indiana Office of Energy Development (IOED) sponsored a comprehensive study of SMR technology, costs and benefits for the state of Indiana.
- The study was led by Purdue University nuclear engineering and other departments, and other partners (Kim et al. 2024).
- It was a mixed-methods research gathering quantitative and qualitative data on technology, potential regional economic impacts, workforce development opportunities, and community engagement (Kim et al. 2024).
- Technology, economic and workforce, and social impacts.
- SMR can provide opportunities for 24/7 source of electricity to address the expected load growth of 1.5% to 3% between 2022 and 2030, opportunities for high paying jobs during construction and operation and maintenance, taxes, employment through supply chain providers (Kim et al. 2024).
- SMR requires meeting several federal and state regulations, stringent safety and environmental protocols and standards, and community engagement and agreement (Kim et al. 2024).

# Small Modular Reactor (SMR) Technology 2

- SMRs are generally less than 500 megawatts (MW), scalable, and modular electrical energy generation technology (Kim et al. 2024).
- 50% of the total cost of a SMR goes to the reactor plant and nearly 10% goes to the turbine plant equipment providing significant opportunities to develop supply chain capacity and workforce development opportunities in Indiana (Kim et al. 2024).
- A Department of Energy (DOE) study found that Indiana is ranked 2<sup>nd</sup> in terms of suitable coal-2-nuclear conversion with 8 to 10 suitable locations in the state in addition to several suitable sites of recently retired plants (Kim et al. 2024).
- A 500 MW SMR can create 2,000 direct jobs during construction and could employ around 140 high-paying FTE jobs during operations phase. Long-term recurring annual economic impact of nearly \$350 million is possible. The economic impacts of a SMR is much larger than a coal plant of equivalent size (Kim et al. 2024).

# Indiana Broadband Investments

## Indiana Connectivity Program

(Rounds 1-16)

- Grant funding: \$14.9M
- Match funding: \$41.9M
- Total funding: \$56.9M
  
- Households: 3,478
- Businesses: 151

## Next Level Broadband Connections

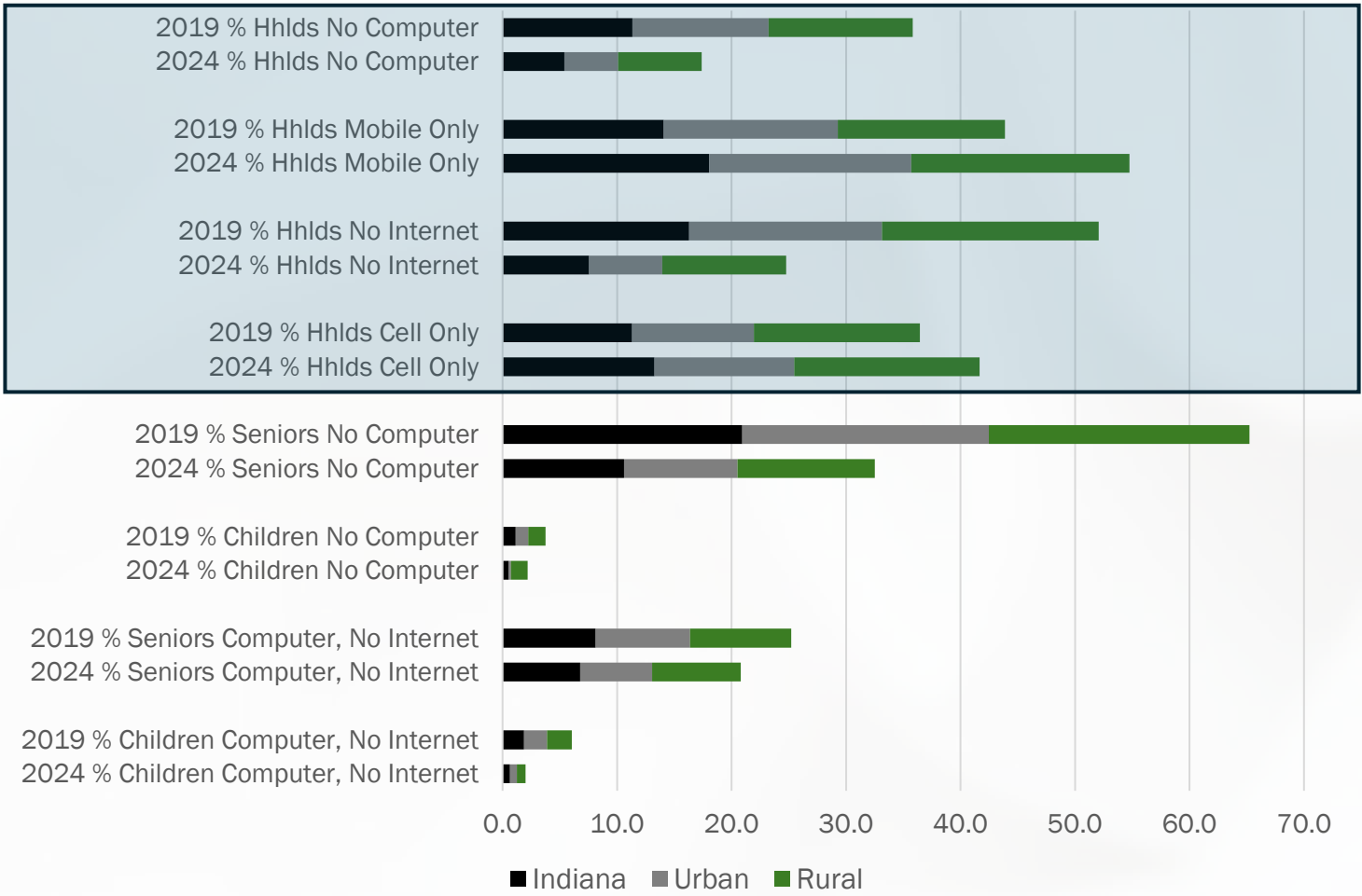
(Rounds 1-4)

- Total projects: 232
- Total providers: 71
- Grant funding: \$321M
- Match funding: \$421M
- Total funding: \$742M
  
- Counties: 88
- Passings: 97,138

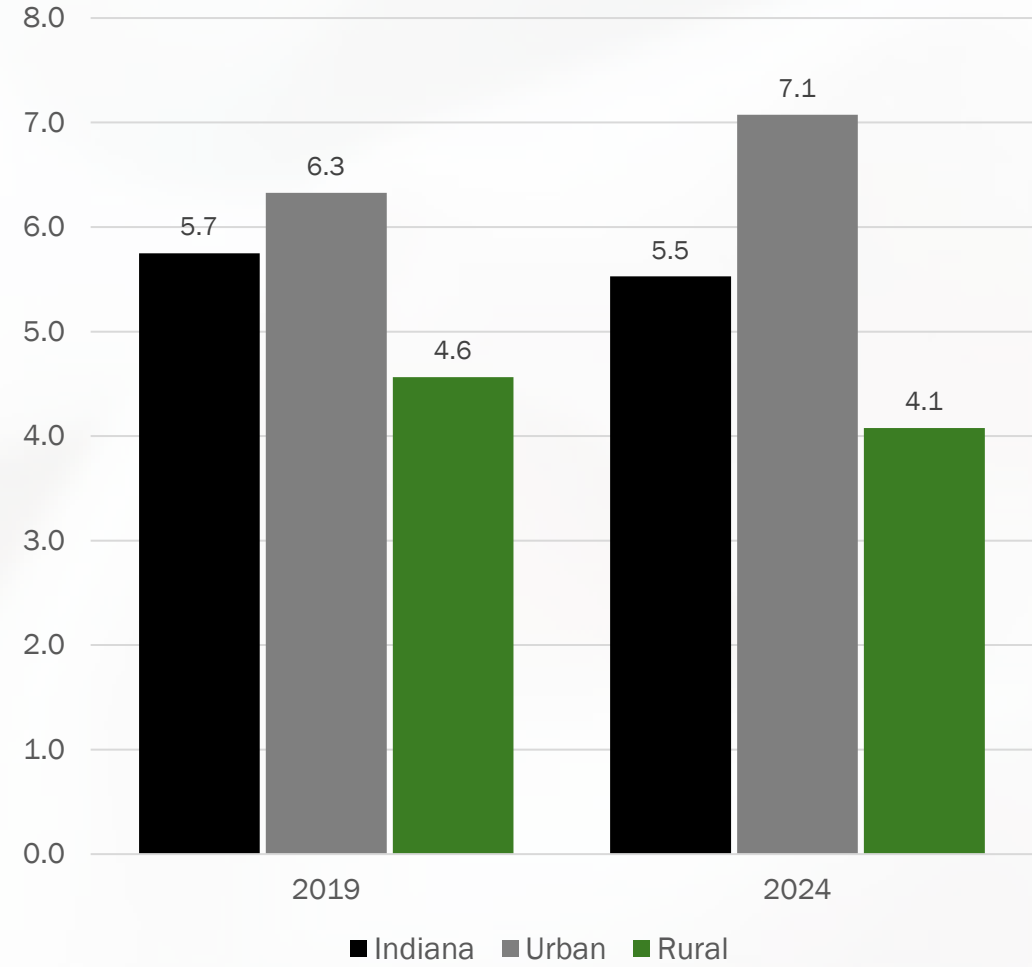


# Homework & Senior Gap; Digital Distress; Internet Income Ratio

Digital Distress; Homework & Senior Gap

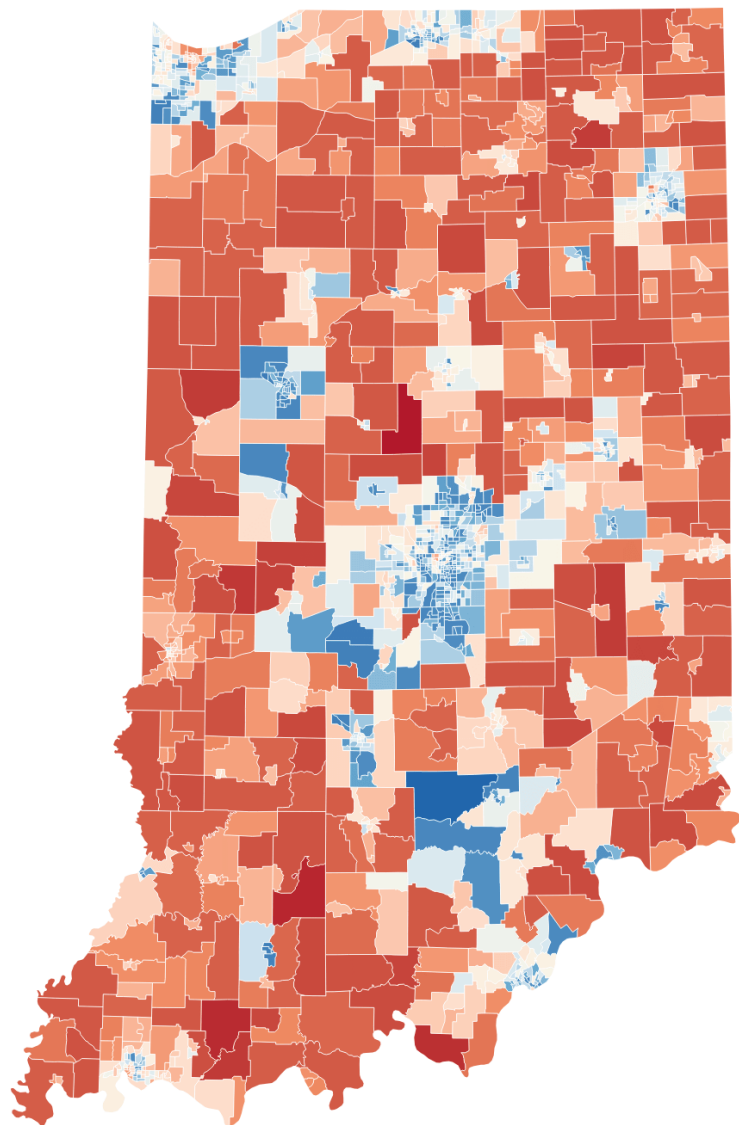


Internet Income Ratio



# 2019 Broadband Quality Score (BQS)

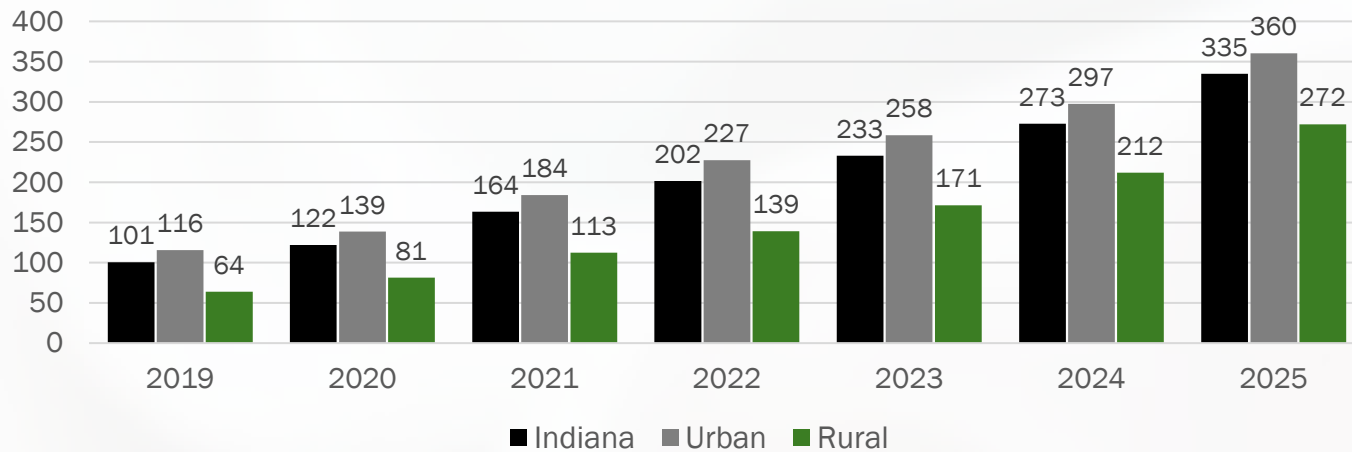
The Broadband Quality Score (BQS) ranges from 0 to 100, where a higher number denotes better quality broadband based on average download and upload speeds as well as average latency. Tracts with less than 50 speed tests were not included.



Source: PCRD; Ookla Global Fixed Network Performance Maps • Created with Datawrapper

# 2019 - 2025 Broadband Quality

### Average Download Speeds (Mbps)



### Average Upload Speeds (Mbps)

