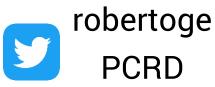
# EDA UC 2020 Showcase New Online Economy

Roberto Gallardo, Ph.D.

Purdue Center for Regional Development / Extension





Center for Regional Development Extension

## What the Research Says



- Broadband DOES matter for a whole host of social & economic outcomes!
  - Household income
  - Employment levels
  - Firm attraction
  - Farm profits
  - Civic engagement
  - Increased housing values
- <u>Adoption</u> is (arguably) more important than simple <u>availability</u>
- The extent to which very fast speeds matter is TBD...









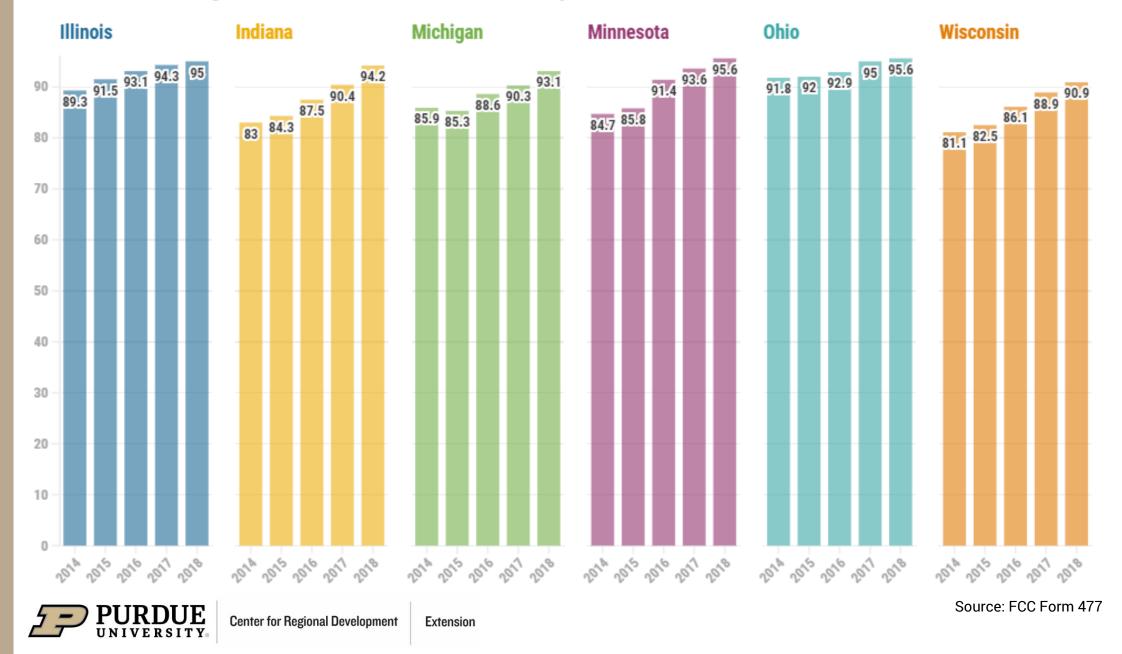
### **Defining Broadband**

- Internet access that is always on and faster than dial-up
- Different technologies, different speeds
- Download: 25 Mbps
- Upload: 3 Mbps
- 25/3 for short

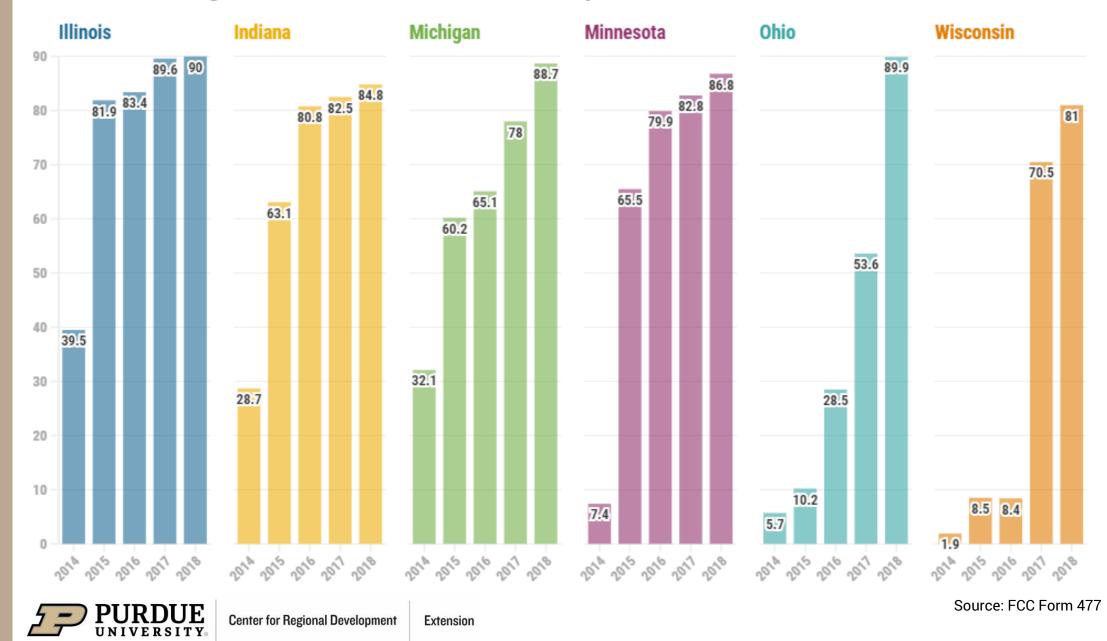




#### Percent Housing Units with access to 25/3 Mbps



#### Percent Housing Units with access to 100/20 Mbps



#### Asymmetrical speeds ...

#### ... is like using a dirt-road heading one way and coming back using a multi-lane highway

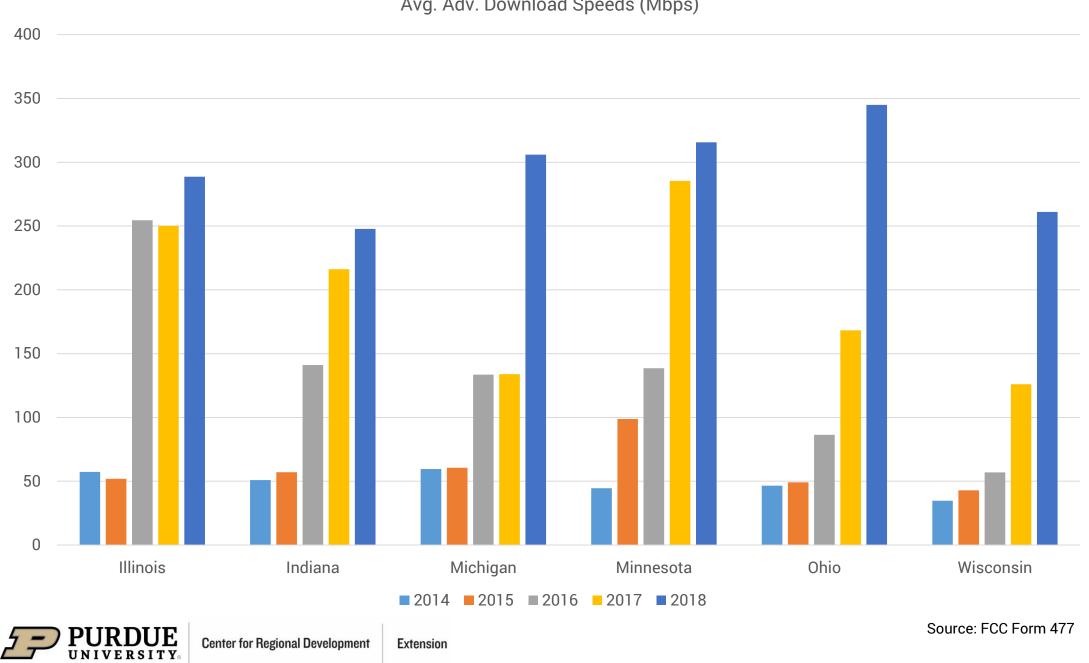


Dirt road

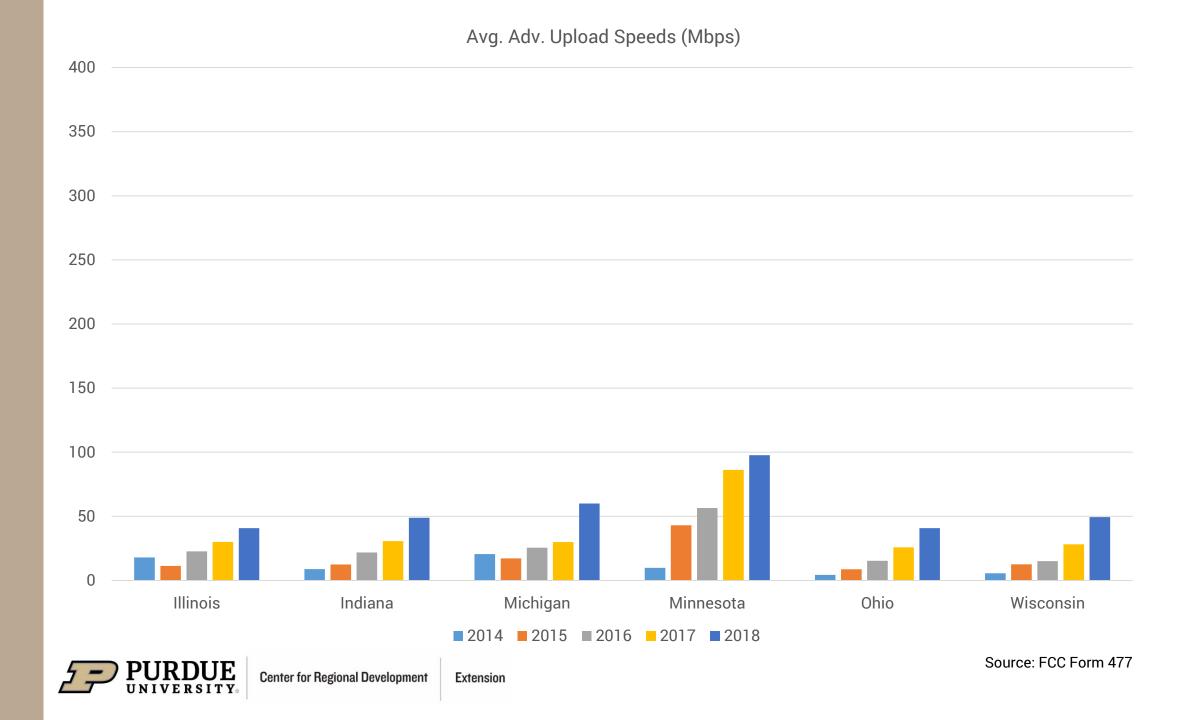


Multi-lane highway

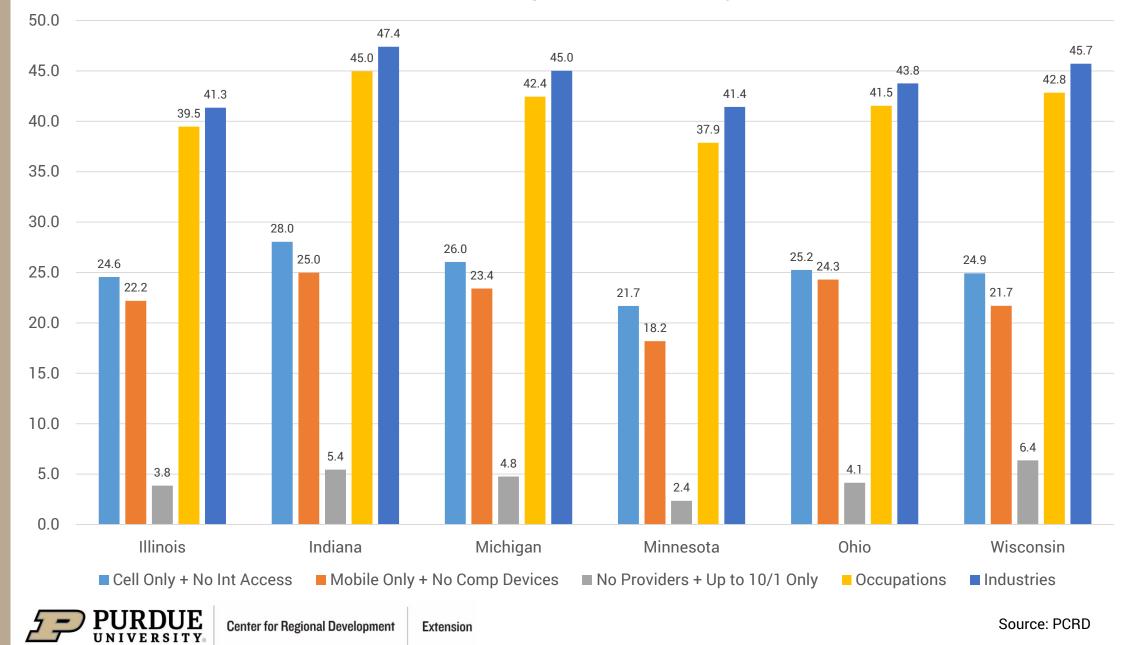


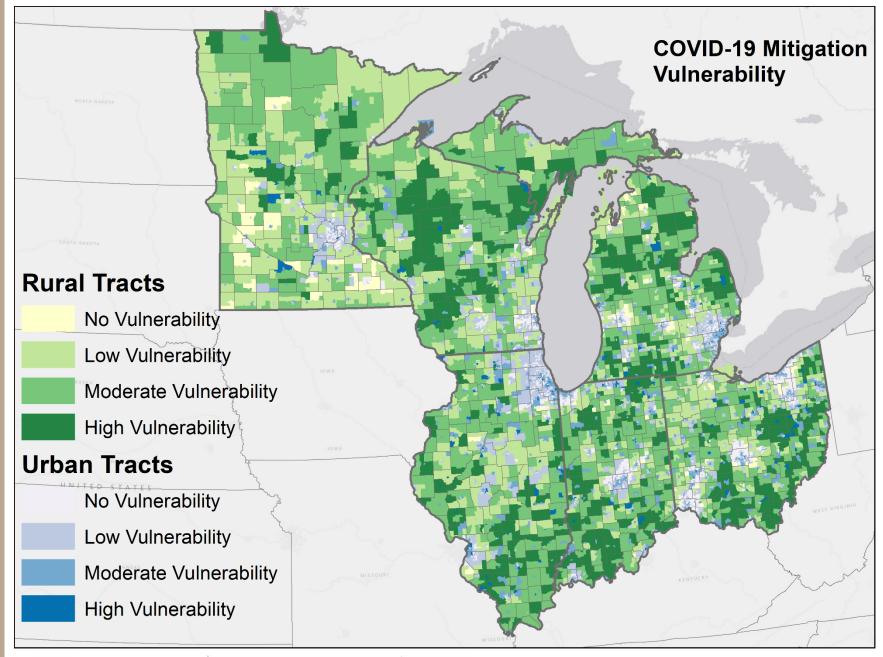


#### Avg. Adv. Download Speeds (Mbps)



**COVID Mitigation Vulnerability** 

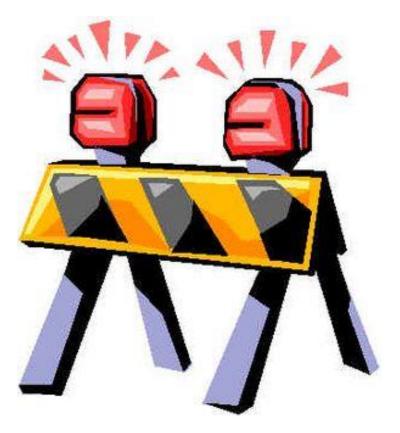






#### Infrastructure Barriers

- Lack of leadership
- Lack of expertise
- Lack of density/ROI inexistent
- Right-of-ways
- Easements
- Topography





### **Potential Policy Focus**

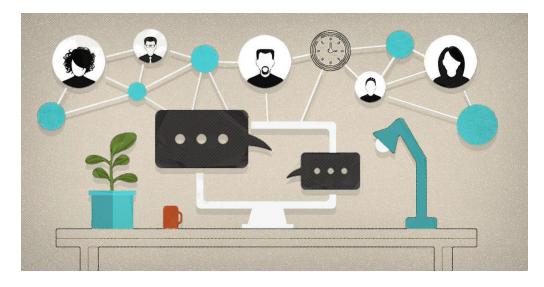
- Establish digital inclusion or broadband action team
- Upgrade "minimum" speed criteria
- Leverage, rather than exclude, multiple broadband funding sources in same region
- Allow communities to apply for broadband funds to improve empowerment





#### **Remote Work Readiness Survey**

- Partnered with state agencies
- 200+ organizations surveyed
- Document "readiness"
- Identify barriers/opportunities
- Educational/training materials



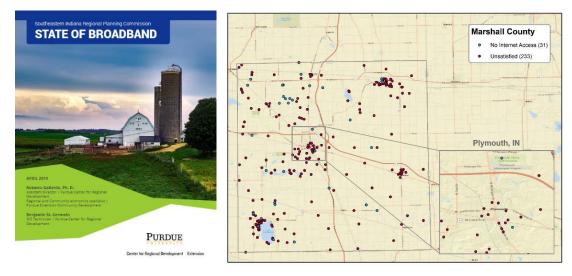


#### What is PCRD/Extension doing? Relevant Data

- State of Broadband Reports
  - Identify 25/3 providers
  - Map 25/3 footprint and technologies
  - Data validation
  - Pop., household, & business broadband gaps
  - Digital Distress
  - Homework Gap
  - Digital economy trends
  - Digital Inclusiveness



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*Table 11.* Jobs requiring low, medium, and high digital skills in the SIRPC counties, 2010-2017

County	Percent change in low digital skill jobs	Percent change in medium digital skill jobs	Percent change in high digital skill jobs	2010 share requiring high digital skills	2017 share requiring high digital skills
SIRPC	4.8	2.7	7.6	18.2	18.4
Indiana	12.5	6.7	12.9	20.9	21.3
U.S.	17.4	8.7	15.8	24.6	25.1

Source: EMSI 2018 Q4

#### What is PCRD/Extension doing? Community Engagement

<image/>	RUSH county INDIANA Home	County Offices	Events Calendar	Broadband Connect	About Rush County	۹	
Wision   News	Broadband Connect				Home / Broadband Co	nnect	
BROBADBADD Mission:   Rush County Task Forces Work with providers, community leaders, organizations, and residents to improve internet access and digital literacy throughout Rush County.   The Rush County Broadband Connect Task Force is an all-volunteer group formed in the spring of 2019 under the leadership of Dr. Roberto Gallardo, assistant director for the Purdue Center for Regional Development. Goal 1. Improve/upgrade broadband connect/vity and access throughout Rush County. Indiana in multiple phases.   Members of the task force are representative of county/city government, schools, local economic development organizations, community foundation, farm organizations, utilities, banks, students, private citizens, nonprofits/social service groups, and attorneys. Goal 3. Improve digital skills and literacy among multiple groups in the community.   Goal 4. Integrate digital inclusion strategies into the community and economic development Goal 4. Integrate digital inclusion strategies into the community.	C	Information on the program					
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HOME NEWS VIDEO GERRY DICK

#### **Rush County Details 'Digital Inclusion' Plan**

Monday, February 17th 2020, 6:11 PM EST By Alex Brown, Assistant Managing Editor



(Pixabay Photo/Michael Jarmoluk)

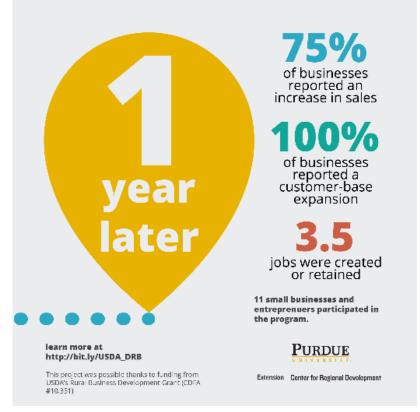


Extension

### What is PCRD/Extension doing? Digital Ready Businesses



- From April 2018 through September 2019
- 22 extension educators trained; 16 counties; 89 workshops; 100+ businesses
- Online version & certification
- Android/iOS app study guides



#### cdext.purdue.edu/dr



### What is PCRD/Extension doing? Remote Work Certification

- Four-week online course
- Provides skills to remote work
  - W-2
  - Freelancer
  - Self-employed
- Workflow
- Productivity & time management
- Teams
- Critical thinking



Extension



# Employability Digital Skills Program (EDSP)

Provide employability digital skills through online modules

- Connect and collaborate effectively
- Communicate effectively
- Project management

Purdue-backed badge/certificate



