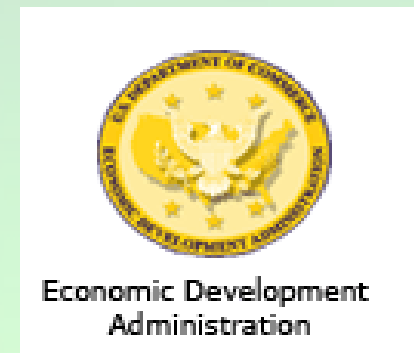


Development of a Regional Knowledge Economy Index



Purpose


A Knowledge Economy Index will aid the region by:

- Generating awareness about the state of our Knowledge Economy,
- Facilitating the development of targeted regional Knowledge Economy economic development strategies, and
- Assisting us in monitoring progress over time.

Methodology/Indicators

- ❑ Through the research done by the CCED, six potential index categories have been identified and several indicators for each.
- ❑ We propose to calculate a score for each category of indicators. To provide context, the scores will be compared to state averages.

Knowledge Economy Index



1. Knowledge Jobs
2. Talent
3. Innovation Capacity
4. Digital Economy
5. Globalization
6. Economic Dynamism

1. Knowledge Jobs

- ❑ As knowledge and information continue to drive economic growth, providing knowledge jobs is increasingly critical to generating economic growth. – MSU CCED
- ❑ What is the percentage of our regional labor force is comprised of Knowledge Jobs?

1. Knowledge Jobs

We propose to measure Knowledge Jobs by the percentage of the workforce employed in IT, biomedical and high-tech jobs. Examples of these jobs include:

- Computer software engineers
- Network systems analysts
- Engineering technicians and drafters
- Environmental engineers
- Physicians, RNs, chemists, biologists

2. Talent

The indicators in this category reflect the degree to which our region's workforce has the talent necessary to compete.



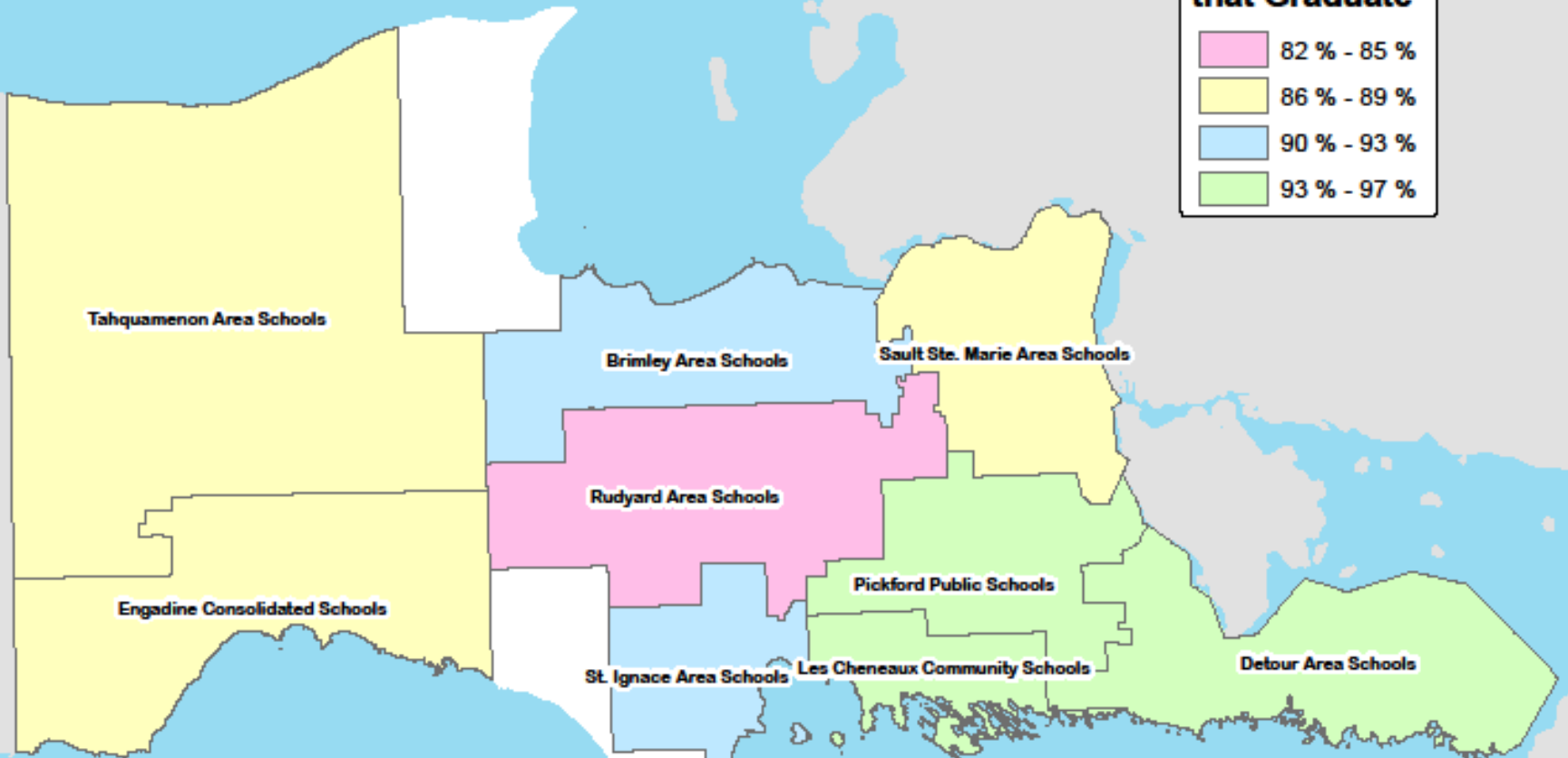
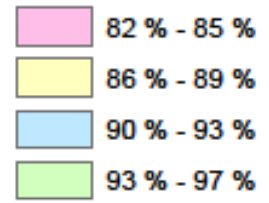
2. Talent

How can we measure talent?

- Number of certificates and degrees granted by local colleges and university,
- High school graduation rates and
- ACT scores.

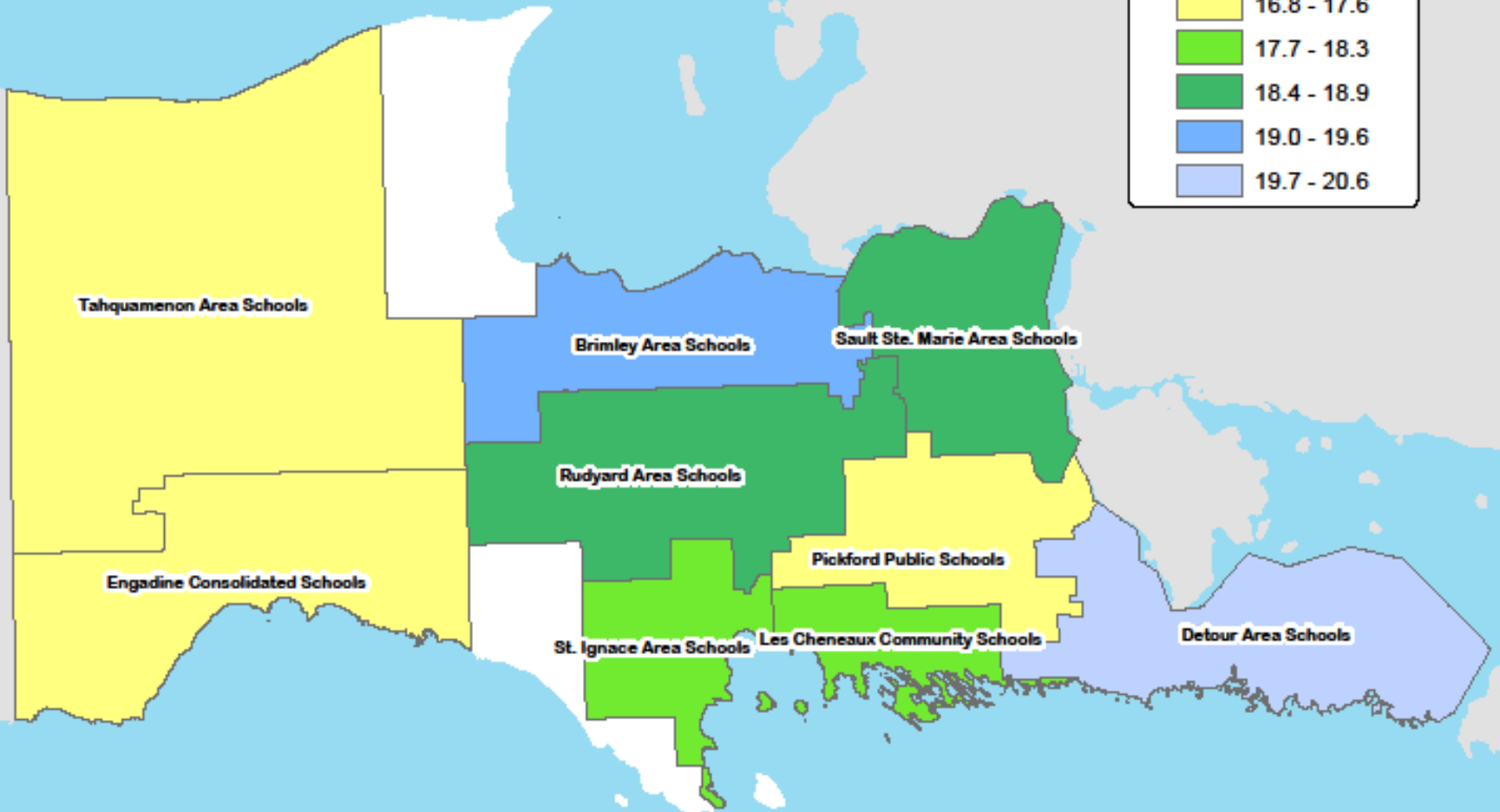
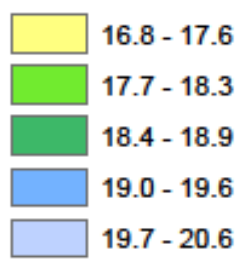


Percentage of Students that Graduate





Average ACT Composite Score



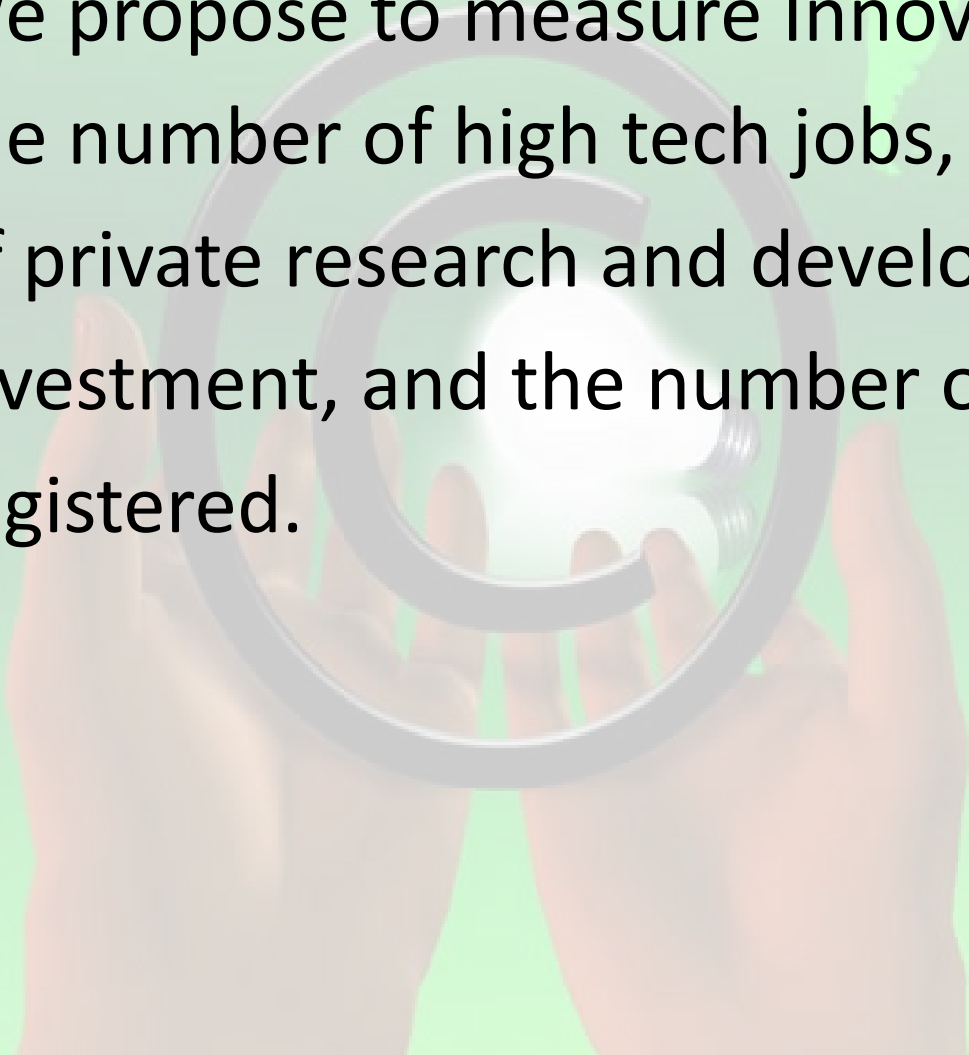
3. Innovation Capacity

To compete successfully and sustainably in the Knowledge Economy, communities must be able to transform new ideas into economic opportunities.



3. Innovation Capacity

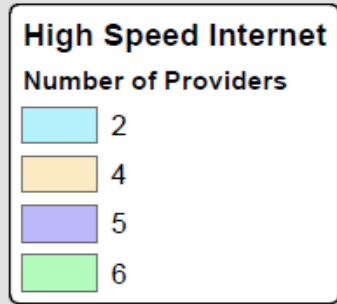
We propose to measure Innovation Capacity by the number of high tech jobs, the amount of private research and development investment, and the number of patents registered.



4. Digital Economy

The indicators in this category show the degree to which our region utilizes digital technologies.

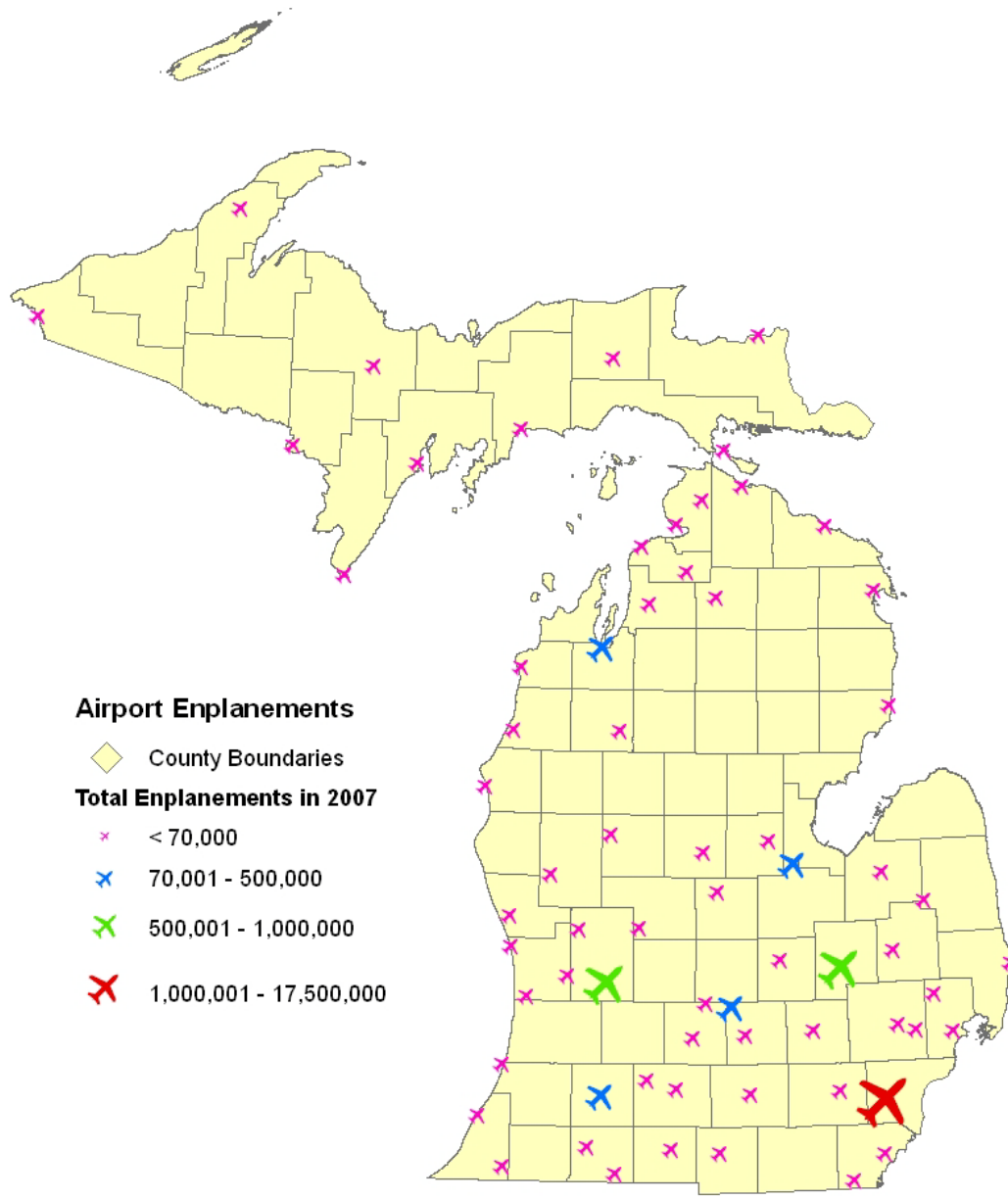
- Number of high-speed internet providers,
- Percentage of local units engaged in e-governance
- Number of e-prescribing pharmacies
- Number of wireless hotspots.



5. Globalization

The indicators in this category reflect the degree to which our region is engaged globally.

- The number of exporting firms,
- The rate of air travel, and
- Number of foreign guest skilled workers.



Airport Enplanements

Rank	Locid	City	Airport Name	Hub	CY2007 Enplanements	CY 2006 Enplanements	% Change
374	CIU	Sault Ste. Marie	Chippewa County International	N	13,733	13,626	0.8%
975	MCD	Mackinac Island	Mackinac Island	None	98	39	151.3%
1479	ANJ	Sault Ste. Marie	Sault Ste Marie Municipal/Sanders on Field	None	10	14	-28.6%
1708	ERY	Newberry	Luce County	None	5	0	0.0%

Source: FAA Enplanement Data, www.faa.gov

Year			11 (EUPRPD)	Michigan
2007	H-1B Visas		143.00	13483.00
	per x people, x =	100000	252.98	134.78
	per x sq mi, x =	1000	72.58	2.37

Source: Foreign Labor Certification Data Center, www.flcdatacenter.com

6. Economic Dynamism

The indicators in this category reveal the degree to which our economy is adaptive and dynamic.

- How much churning is going on? Or adaptation to changing environment.
- Percent change in employment, wages, new enterprises and dissolutions.

EUP	2007 Q1	2007 Q2	2007 Q3	2007 Q4	NAICS 621, 622, 623
Total Employment	484.00	495.00	504.00	503.67	
Turnover	23.02%	5.74%	6.59%	6.31%	
Turnover*Employment	111.40	28.42	33.20	31.76	
EUP	2007 Q1	2007 Q2	2007 Q3	2007 Q4	621 - Ambulatory Health Care Services
Total Employment	301	301	310	303	
Turnover	6.70%	5.80%	6.00%	5.90%	
Turnover*Employment	20.167	17.458	18.6	17.877	
EUP	2007 Q1	2007 Q2	2007 Q3	2007 Q4	622 - Hospitals
Total Employment	872	882	904	901	(Suppressed, calculated by subtracting 621, 623, and 624 from 62)
Turnover	33.10%	4.40%	5.40%	4.40%	
Turnover*Employment	288.632	38.808	48.816	39.644	
EUP	2007 Q1	2007 Q2	2007 Q3	2007 Q4	623 - Nursing and Residential Care Facilities
Total Employment	279	302	298	307	
Turnover	9.10%	9.60%	10.80%	12.30%	
Turnover*Employment	25.389	28.992	32.184	37.761	

Source: U.S. Bureau of the Census, North American Industry Classification System, www.census.gov/NAICS

Questions? Comments?

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