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### Key take aways

- Certificates, sub-baccalaureate degrees and awards, and certifications have quickly become important to state policy.
- The demand for hard numbers is growing much more quickly than the data to do a very good job, so 'good enough' solutions are needed.
- In the context of state education goal setting, I argue that accepting 'good enough' on stock counts and focusing of robust flow metrics is a good mini-max strategy.

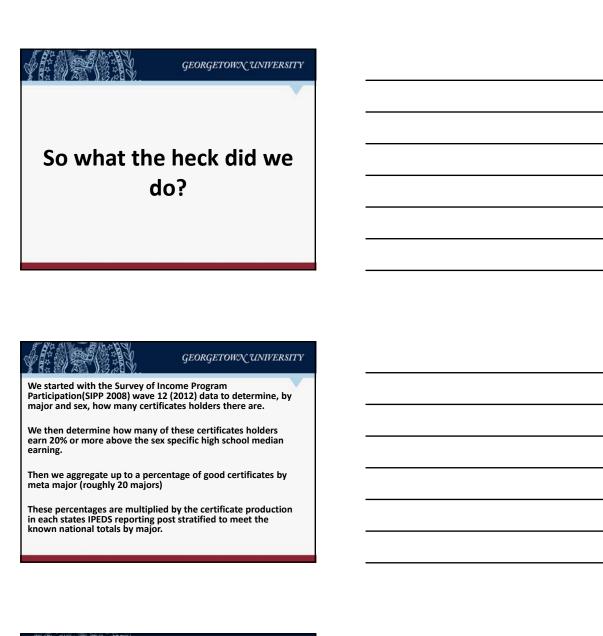
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CEW has developed new certificate counts by state for Lumina's Stronger Nation report.

These estimates are slightly more conservative than estimates found in our 2012 report reflecting both changes in our approach and the use of newer data (original report combined 04 and 08 panels)

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Because we don't have rich data on the full scope of certificates nor do we have good	
guidance on how many certificates are valued in the labor market we sought assurance that the data are reasonable.	
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To do this, we worked from the prior that	
stand-alone certificates are commonly reported as some college, no degree in	-
the Currently Population Survey as well as the American Community Survey.	
So we looked at the percentage of the some college, no degree workforce that earns a premium (20%) over high school medians.	
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This comparison between our	
'good' certificates estimate and	
how many people with some college earn a premium shows that	
our estimate fall well within range of believability.	

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Three states did not meet this robustness test. There are a number of possible reasons why this test did not work the use of the CPS instead of the ACS. Where the ACS has more data on short-term college  Also, our estimate of 'good' anchors on 2014 data where there could have been production changes in certifications over time (keep in mind that we are estimating stock).	
We do not have a comparable technique to check on good certificates among the full population (working, unemployed, not in the labor force).  This supports a key take away for me – States have the ground level intelligence to ensure that the numbers make sense. We provide a good starting point.	
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Two Key Challenges for IPEDS  1. IPEDS is primarily a flow system but political pressure is on stock. How do we reconcile the two?	
IPEDS is a credential/award not people counting reporting system. How do we use it to translate to people?	





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# What would we do better?

CEW can create a more analytically sophisticated methodology but sample size of national estimates are small implying the estimates needed to generate more sophistication come with the cost of much less reliability.

Even if each component piece of a 5-factor model are 90% accurate then in the multiplicative case may results are 59% reliable (.9\*.9\*.9\*.9\*.9).

State administrative data and qualitative insight on noncredit production by comparable field will be key to improvements.

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What wo	uld do better?	~
States can delve into ideas, like our caccount the interactions between ceas well as earning comparisons by se	rtificate field, occupation, and indus	
But CEW is not in the position to kno is a red herring (+/-) while states can weaker data is truly reflective of the	figure out if an estimate based on	nate
There is also a serious question about for determining that short-term ( on	ut whether a 20% premium is approp e –year or less) are valuable?	oriate
Human capital theory would suggest certificates.	7%-10% for these shorter period	
(IP/N), A122, Sept. 14 page.		
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So why didn't we try	y to refine our estimates?	~
Given the myriad of data complication estimates do the least harm.	ons we determined that conservative	į
We set out to establish a baseline.		
We believe that the variation in state estimations that might suit one state		te
We believe that states are the ultimate pass a smell test — especially given w	ate authority on whether the estima re are forced to use IPEDs or other	tes
administrative data to corral non-cre	dit and non-accredited certificate va	
States will likely define 'good' by the for 1 year certificates) which we can		turn
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Y RESIDENT		V
Where now	, Columbus?	,
	, 30.0	

THE RES		GEORGETOWN UNIVERSITY
We need	d to ask ourse	lves why we are doing this.
My perspe measuring		ost states are tasked with
Our baseling	ne estimates a ber of certifica	are <b>stock</b> figures that include ates that are either ) or out of the state purview.
Measuring	g progress is a	Flow issue.
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what CE determi baseline	EW and your p ine whether yo	ion that states investigate eer states have done and ou can stand up the art thinking about how to
This will	l be difficult er	nough
E		GEORGETOWN UNIVERSITY
We make t	this recommen	dation for a number of reasons.
	understand it a	<ul> <li>even if borrowed means that and can explain it - simple helps</li> </ul>
a baselir	ne – it'll be just	he day –if you need to estimate that – an estimate while the g take will be measuring
progress Third, th	s. nere are a numb	per of upcoming surveys that
		petter estimates, just not right

now.