

RE: Digitalization data question

Sifan Liu

Sent: Friday, October 20, 2017 6:18 PM**To:** Jacob Whiton; Alec Friedhoff**Cc:** Mark Muro

Hi Alec,

Jacob was correct that the allocation factors were based on 201 OES employment data. That is, when splitting a single 2000_SOC into two 2010_SOC codes, the total employment of 2000_SOC(1) is calculated as: $2000_SOC * \{ 2010_SOC(1) / [2010_SOC(1) + 2010_SOC(2)] \}$

The xwalk00 should be sufficient to crosswalk from 2000 SOC to 2010 SOC. The other crosswalk was meant for other purposes and we didn't end up using it in this report.

Please let me know if this clarifies, thanks!

Best,
Sifan

From: Jacob Whiton**Sent:** Friday, October 20, 2017 5:36 PM**To:** Alec Friedhoff <AFRIEDHOFF@brookings.edu>; Sifan Liu <SLiu@brookings.edu>**Cc:** Mark Muro <MMURO@brookings.edu>**Subject:** RE: Digitalization data question

Hey Alec,

Sifan should definitely jump in here and correct me, but I'm pretty sure the allocation factors were based on 2016 OES employment data.

As far as the two crosswalks are concerned, my understanding was that they were from different rounds of definitional revisions and covered different occupations.

Jacob Whiton | Research Assistant

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From: Mark Muro**Sent:** Friday, October 20, 2017 5:07 PM**To:** Alec Friedhoff <AFRIEDHOFF@brookings.edu>; Jacob Whiton <JWhiton@brookings.edu>; Sifan Liu <sl1217@georgetown.edu>**Subject:** RE: Digitalization data question

Alec, thanks; Sifan or Jacob, can you get back to Alec on this before the weekend so he can keep going?

Meanwhile, Alec, let me know if there's anything you want to walk through as far as visuals and approach!

Hope you're well!

From: Alec Friedhoff
Sent: Friday, October 20, 2017 4:59 PM
To: Jacob Whiton <JWhiton@brookings.edu>; Sifan Liu <sl1217@georgetown.edu>
Cc: Mark Muro <MMURO@brookings.edu>
Subject: RE: Digitalization data question

Hey guys,

I'm back on the case of the detailed data. Two questions:

(1) What data source did you use to create the allocation factors, to say, split a single 2000 SOC occ into two or more 2010 SOC codes?

(2) What is the difference between the two crosswalks you sent, xwalk00 and xwalk07?

-Alec

From: Jacob Whiton
Sent: Monday, October 09, 2017 11:12 AM
To: Alec Friedhoff; Sifan Liu
Cc: Mark Muro
Subject: RE: Digitalization data question

Hey Alec,

Looping in Sifan here as she's best situated to offer detailed guidance on data work for the report.

My understanding is that the OES data for 2002 and 2016 were linked using the crosswalks I've attached here, and where occupations were broken up between the two periods, 2016 employment shares were used to distribute employment in 2002.

Hope that helps, Alec, but do stay in touch with further questions!

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From: Alec Friedhoff
Sent: Monday, October 09, 2017 10:20 AM
To: Jacob Whiton <jwhiton@brookings.edu>
Cc: Mark Muro <MMURO@brookings.edu>
Subject: RE: Digitalization data question

Hey guys,

I was planning to pump out a bunch of maps today to get a sense for the spatial distribution of various occupations to see if that yields anything interesting.

Do you have metro level occupation data (i.e. not just summary data) that I can take a look at? I can pull directly from the OES, but then I wondered how you handled the crosswalk between the 2010 SOC occupation codes, for 2016 data, and the 2000 SOC occupation for the 2002 data. Anything you've got would be helpful.

Thanks,
Alec

From: Jacob Whiton
Sent: Thursday, October 05, 2017 9:41 AM
To: Alec Friedhoff
Cc: Mark Muro
Subject: RE: Digitalization data question

Unfortunately, not to my knowledge, Alec. All of the findings on gender and racial gaps in the report are based on occupational groups.

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From: Alec Friedhoff
Sent: Thursday, October 05, 2017 9:39 AM
To: Jacob Whiton <jwhiton@brookings.edu>
Cc: Mark Muro <MMURO@brookings.edu>
Subject: RE: Digitalization data question

Thanks, Jacob. One question, do we have the gender and race/ethnicity cuts by detailed occupation? (at least at the national level). Thx!

From: Jacob Whiton
Sent: Thursday, October 05, 2017 9:00 AM

To: Alec Friedhoff
Cc: Mark Muro
Subject: RE: Digitalization data question

Hey Alec,

So it looks like Digital Skill level_ *Year* is actually just the occupation's digital score category—Low, Medium, or High—with each bin coded as 1, 2, and 3 respectively.

Attached is the current version of the summary tables including states, metros, and racial/gender breakdowns by occupational group. Hope that helps and do let me know if you have any other questions or are looking for additional data!

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From: Alec Friedhoff
Sent: Wednesday, October 04, 2017 10:28 PM
To: Jacob Whiton <jwhiton@brookings.edu>
Cc: Mark Muro <MMURO@brookings.edu>
Subject: Digitalization data question

Hi Jacob,

I'm working on a few sketches for the digitalization piece and had a couple questions about the data. There are some variables called highYY, mediumYY, and lowYY which I assume are the categories derived from the scoreYY variables for the given year, YY. What's not immediately clear to me are the skillYY variables. Can you explain what these indicate?

Also, I have a subset of the data that Sifan sent way back. It appears to be all occupations for the nation. When you have a chance, can you point me toward the state/metro data sets. (I've attached the data she originally sent, for reference.) The state/metro data aren't urgent. But what may be interesting to see sooner rather than later are the race and gender breakdowns of the occupations at the national level. If you could send that along at your earliest convenience, I'd appreciate it.

Best,
Alec