

Exploring Online 'and' Offline Enterprising and Informal Work Activities

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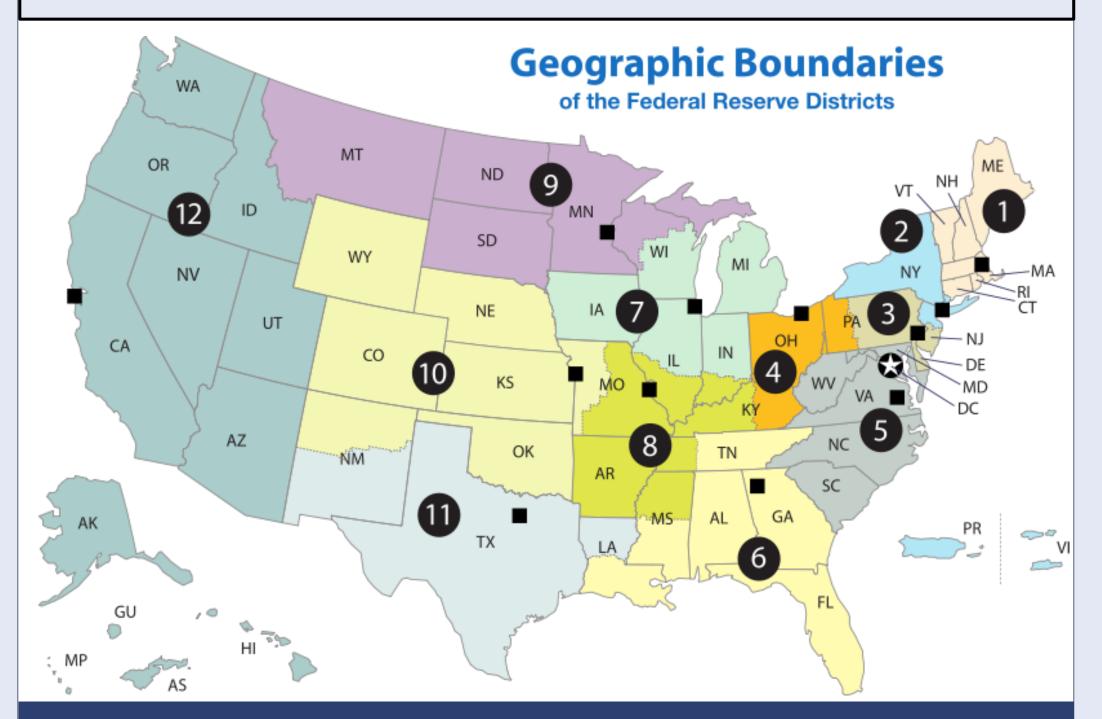
*This study does not necessarily reflect the views or opinions of the Federal Reserve Bank of Kansas City or the Board of Governors of the Federal Reserve System.

OVERVIEW

Our study explores how the various modes of generating income from *online* and *offline* paid informal work contribute to the economic and financial well-being of the general consumer household population.

We explore the rise of the informal work trend in the context of all households with particular attention focused on low-to-moderate income (LMI) households. We explore how households fare and the subsequent spill-over effects for communities and local ecosystems.

The Federal Reserve System: Board of Governors & Reserve Banks



RESEARCH QUESTIONS

The research questions we explore in our survey are:

- How prevalent and numerous are enterprising tasks-for-fees, renting and selling used items, and other informal work activities among households both online and offline?
- What are the demographics (age, education, ethnicity and race, etc.) of the workers engaging in informal work?
- Where do the workers engaging in informal work live?
- Are these informal work activities a significant source of income- patching over a monthly budgetary cycle, a regular and consistent source of income, or both?
- How are households self-reporting their motivation for engaging in informal paid work?

DATA & METHODOLOGY

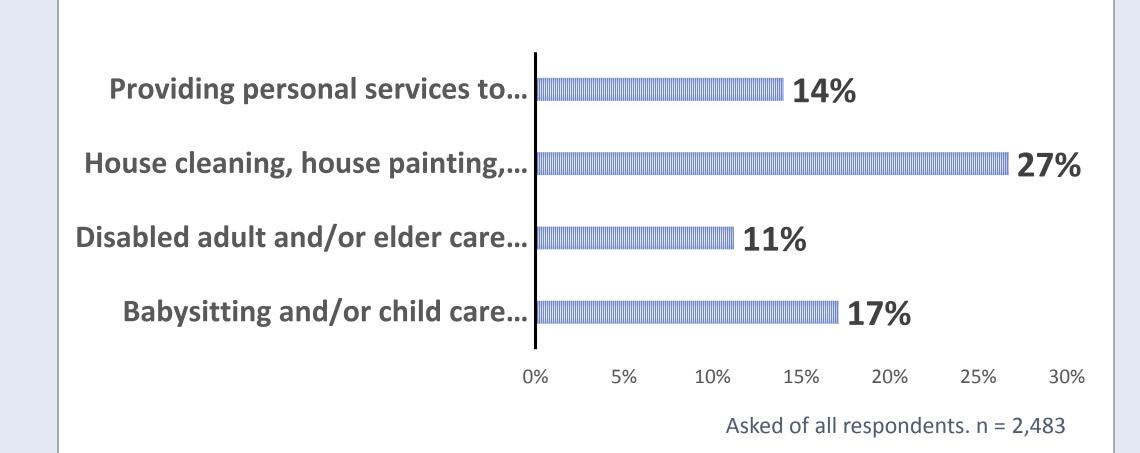
Using a nationally representative email-based survey data collected in October/November 2015 from a potential respondent pool of 12,480:

- 6,898 completed the survey with a response rate of 55.3 percent
- 2,483 qualified respondents were identified with an incidence rate of 36.0 percent (qualified respondents were those self-reporting that they were engaging in enterprising or informal work activities).

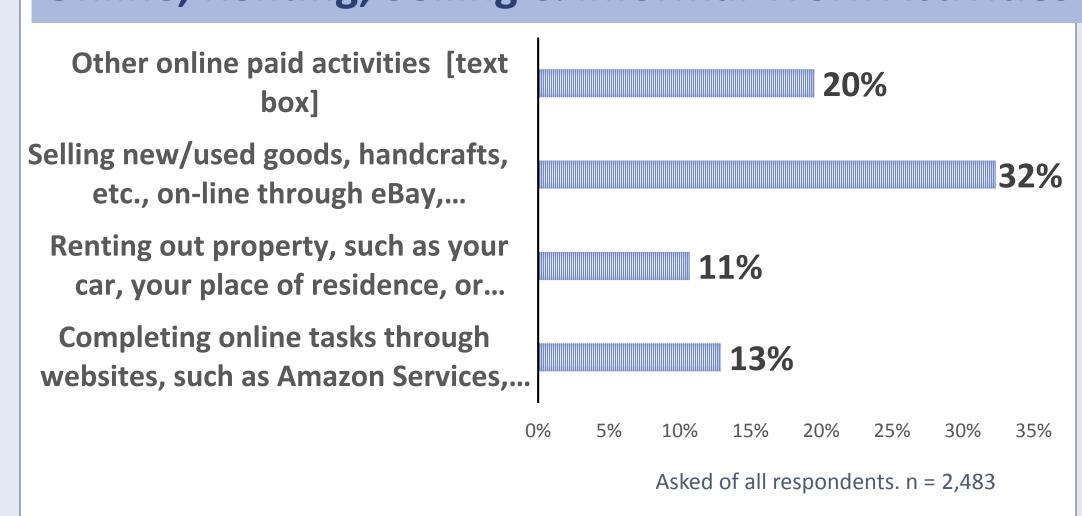
The qualified survey respondents (2,483) were asked questions that covered formal employment status as well as multiple jobs, attitudes of the self-employed and small business owners, motivations and reasons for undertaking informal paid work activities and demographic characteristics.

All survey questions specifically addressed respondent activity in the six months prior to completing the survey.

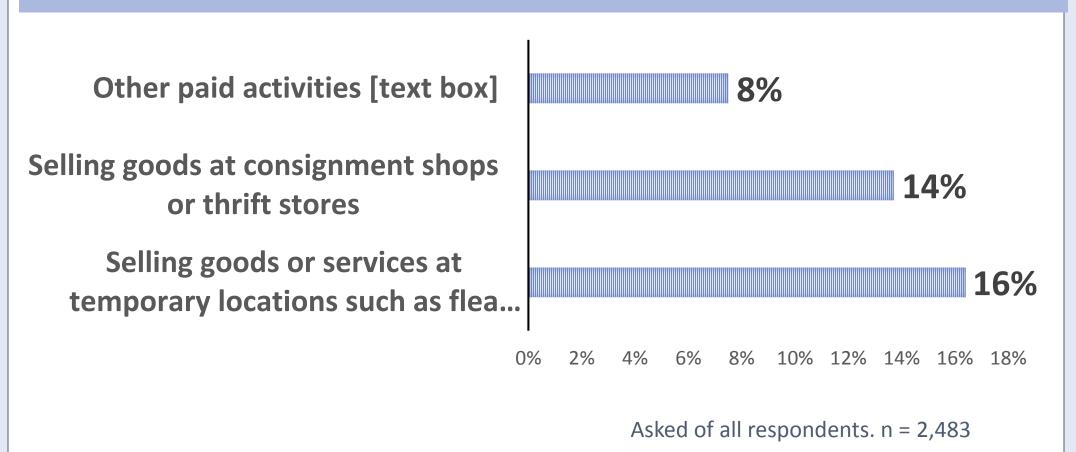
Offline & Informal Labor Services Activities



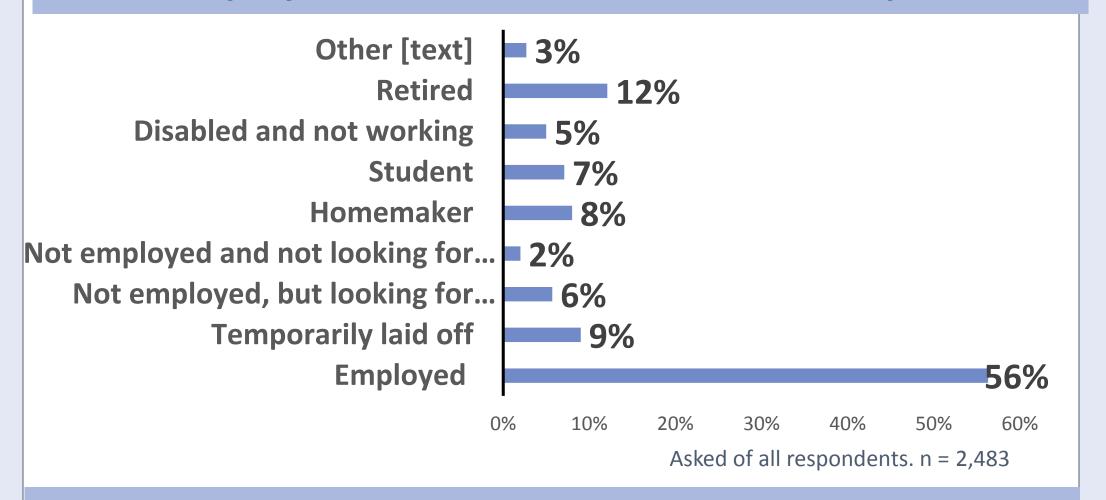
Online, Renting, Selling & Informal Work Activities



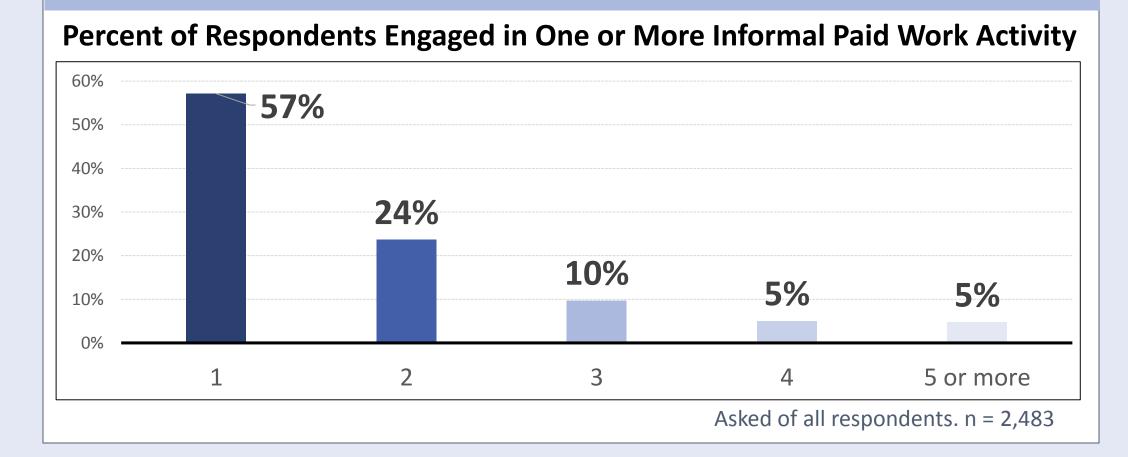
Flea Market, Mobile Vending and Other Alternative Offline Work Activities



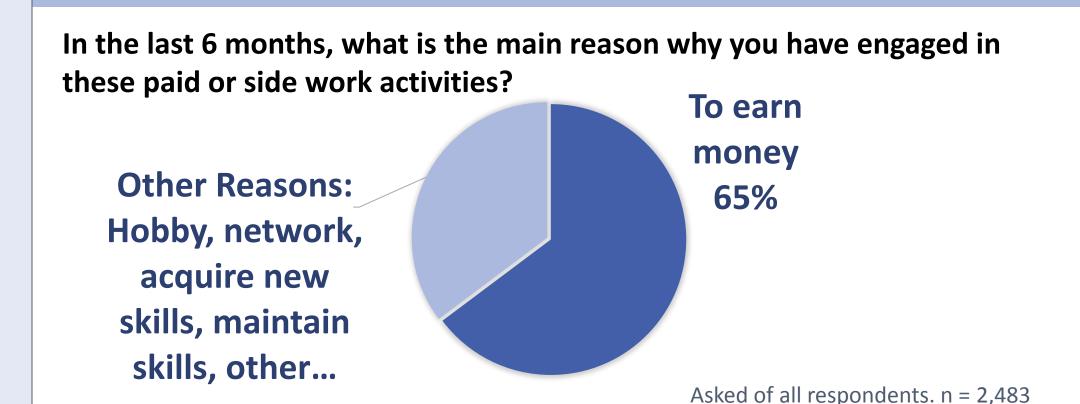
Main Employment Status – Total Qualified Respondents



Enterprising & Informal Work Activities: How Many?

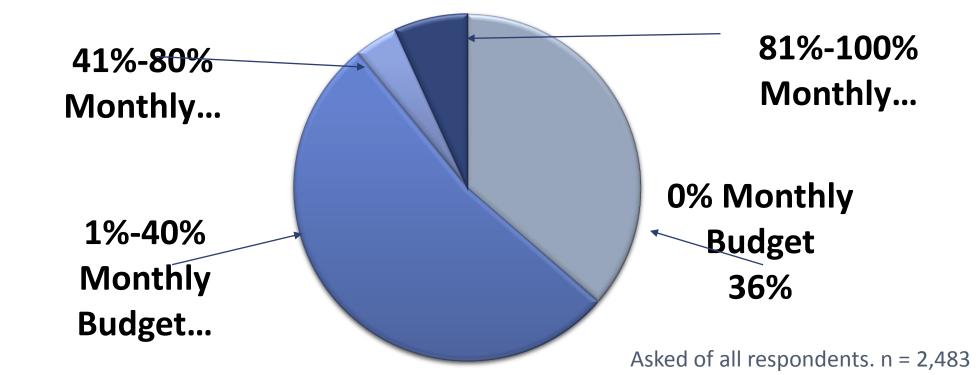


Enterprising & Informal Work: Monthly Budget



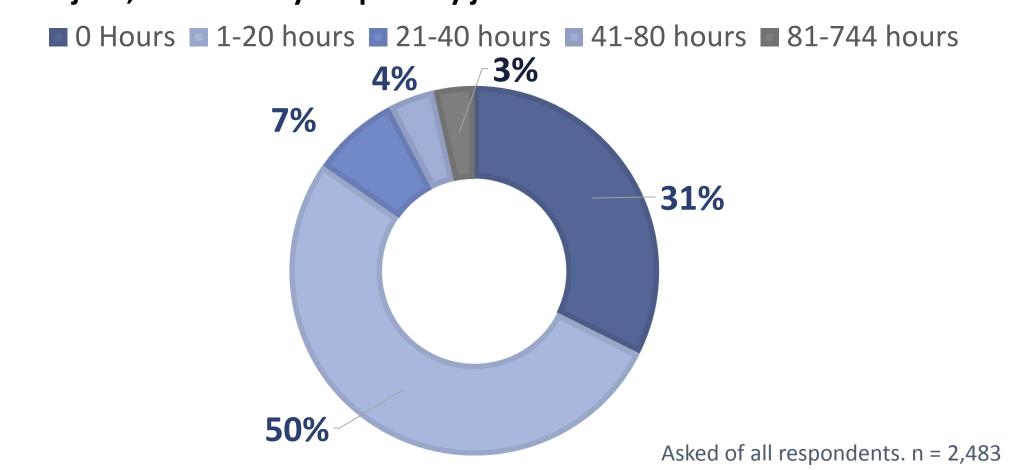
Enterprising & Informal Work: Monthly Budget

How much of your household monthly income do you usually get from paid work activities or side employment?

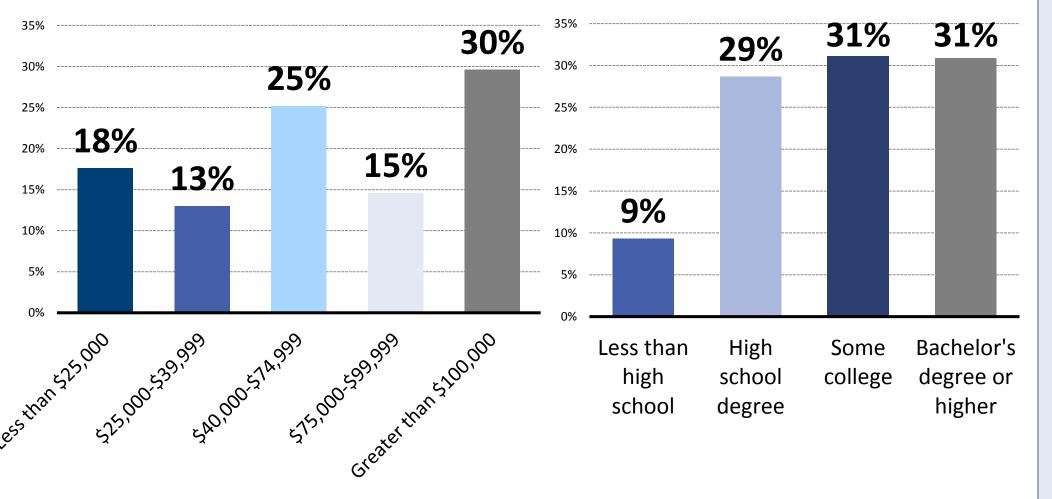


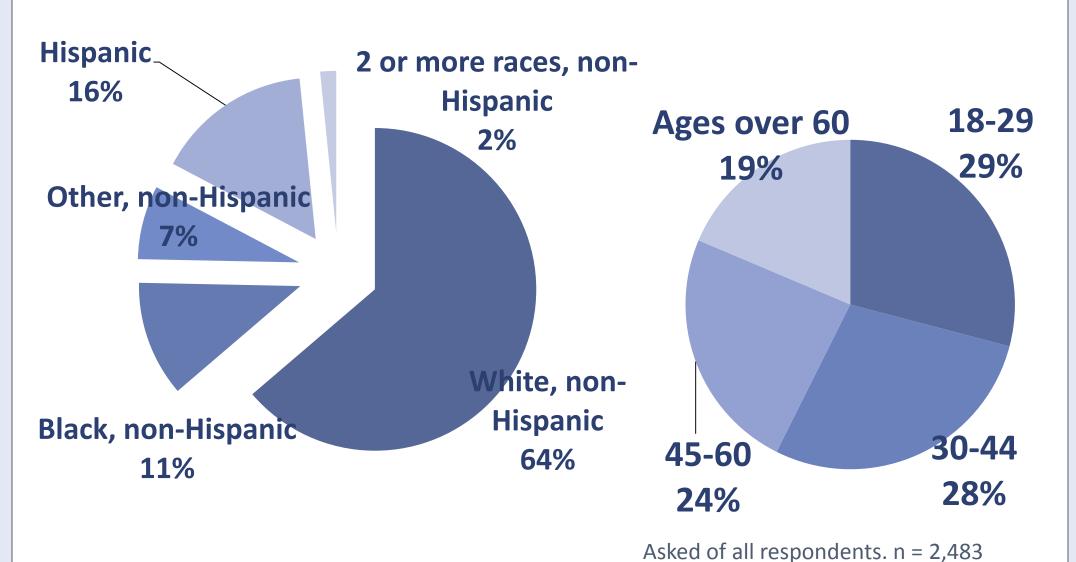
Enterprising & Informal Work: Monthly Hours

How much time do you usually spend per month on paid work activities or side jobs, other than your primary job?



Demographics and Economic Characteristics





Logit Model

Logit Model:

 $Pr(Gig\ Work) =$

f(Returns with Refunds, Age, Education Category, Gender (Male = 0, Female = 1), Household Size, Metro Status (MSA),

Density of 1099Miscellaneous tax forms filed,

Dependent variable: QFLAG1

Number of observations = 6898 Scaled R-squared = .041166
Number of positive obs. = 2483 LR (zero slopes) = 285.358 [.000]
Mean of dep. var. = .359959 Schwarz B.I.C. = 4426.31
Sum of squared residuals = 1523.12 Log likelihood = -4364.44
R-squared = .041597
Number of Choices = 13796

Returns with a Schedule C, F or SE, AGI category) + e

Number of Choices = 13796 Fraction of Correct Predictions = 0.651058

Standard t-statistic P-value Parameter **Estimate** Error .197969 -.850284 [.395]-.168330 [.225] **RET RFND1** .759024E-04 .626115E-04 1.21228 [.000]** -.018426 .162130E-02 -11.3647 PPAGE1 [.704] .514716E-02 .013549 .379885 PPEDUC1 [.000]** .300338 .051541 5.82717 PPGENDER11 [.000]** .087868 PPHHSIZE1 .019084 4.60426 [.105]* .125764 .077546 PPMSACAT1 1.62180 [.062]* .661898E-05 NO1099M_FILED1 .123453E-04 1.86513 .119524E-04 .522837E-04 .228607 RTSCHCEF1 -1.39001 -.125904E-03 .905773E-04 AGI11 AGI21 [.764] .405985E-04 .135345E-03 .299963 [.304] AGI31 -.195110E-03 .189879E-03 -1.02755 [.662] AGI41 -.510381E-04 .116889E-03 -.436636 [.675] -.419589 GT100K1 -.265611E-04 .633027E-04

Standard Errors computed from analytic second derivatives (Newton)

Results of the logit estimation indicate that Age, Gender, Household Size, Metro Status and Density of 1099Miscellaneous tax forms filed are all statistically significant and contribute to the probability of undertaking 'gig' work both online and offline.

CONCLUSIONS

To summarize, we asked qualified survey respondents (2,483) about their formal employment status, multiple job holding, what their motivations and reasons for undertaking informal paid work activities were and demographic characteristics.

A logit model was employed to assess variables that may impact, positively or negatively, the probability of engaging in both online or offline 'gig' work. To better understand informal paid work activities, future research may require data that captures all employment activities and the income stemming from these activities, as well as research focused on the mediating factors that may be driving the growth of these activities..

Additional Resources

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<u>s - march 29 20165.pdf</u>Kenny, M. and J. Zysman, (Spring 2016): "The Rise of the Platform Economy,"

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