

# Using Behavioral Science Interventions to Increase Program Participation and Outcomes

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# Agenda

- Behavioral Science Overview
- Overview and Types of Nudges
- Examples of Nudges in Employment Services
- Guided Discussion

# What is Behavioral Science?

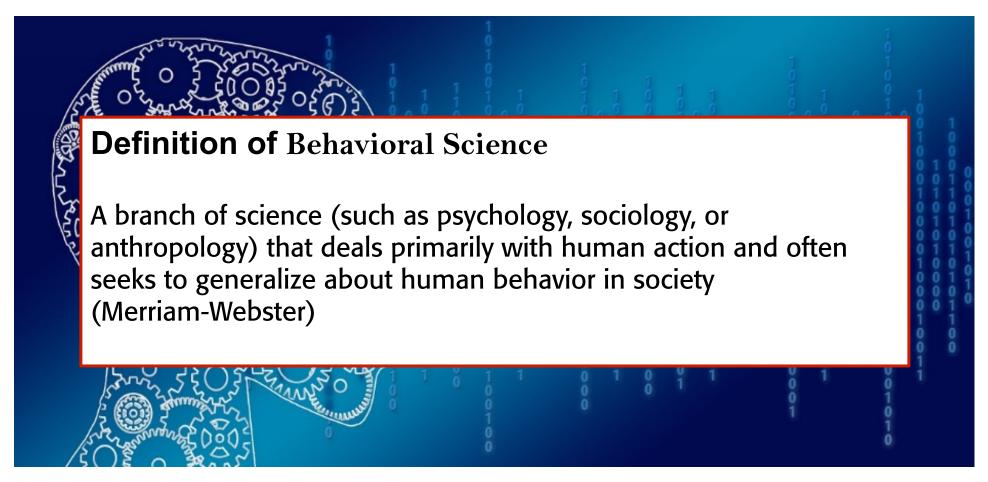


Photo Source: behavioraleconomics.com

# **Principles of Behavioral Science**



**Choice Overload** 



Cognitive Depletion & Decision Fatigue



**Hassle Factors** 



Identity



**Limited Attention** 



**Loss Aversion** 



**Primacy Bias** 



Procrastination



**Social Norms** 



**Status Quo Bias** 



The Availability Heuristic



The Planning Fallacy

Photo Source: Ideas42

# **Limited Attention**

- Finite amount of attention "cognitive load" or "bandwidth"
- When attention is stretched:
  - Forget
  - Miss details
  - Have difficulty weighing options
  - More oriented to present

# Example



Photo Source: interpretationbydesign.com

# **Service Strategies**

- Limit information
- Chunk information
- Limit jargon
- Multiple reminders
- Timely reminders
- Guided decision-making to key points
- Simplify process to reduce cognitive load
- Don't assume that because someone does not choose one option they are not interested

# **Choice Overload**



- When we have too many choices:
  - Don't always choose "best" option
  - Choose not to act at all

# Example

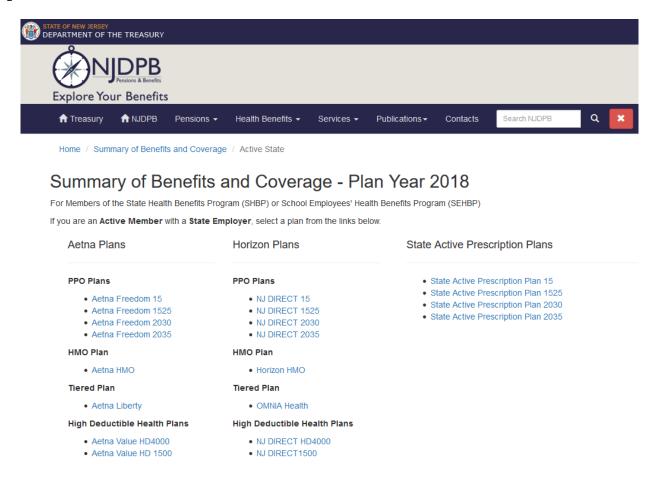


Photo Source: New Jersey Department of the Treasury.

# Example

### Available Plans:

Aetna Freedom 15, NJ Direct 15, Aetna HMO, Horizon HMO\*

- \$15 Primary Care copay
- \$15 Specialist Care copay
- \$100 Emergency Care copay

### Aetna Freedom 1525, NJ Direct 1525

- \$15 Primary Care copay
- \$25 Specialist Care copay
- \$100 Emergency Care copay

### Aetna Freedom 2030, NJ Direct 2030

- \$20 Primary Care copay
- \$30 Specialist Care copay (\$20 copay for children up to the 26th birthday)
- \$125 Emergency Care copay

### Aetna Freedom 2035, NJ Direct 2035

- \$20 Primary Care copay
- \$35 Specialist Care copay
- \$300 Emergency Care copay

Photo Source: Rutgers University

# Example

Plan Name and Option	Your Annual Payroll Deduction	Company Deposit into Your Account	Annual Deductible	Plan Payment Percent in Network	Provider Network
Healthy Living Plan	\$1,500	\$0	\$400	85%	Doctors and hospitals in network meet "elite" quality standards. Lower coverage for others
Thrifty Consumer Plan	\$1,200	\$500	\$1,500	85%	Doctors and hospitals in network meet "elite" quality standards.
Legacy	\$1,800	\$0	\$500	80%	No "elite" status designations
No Coverage	\$0	\$500	N/A	N/A	N/A

If you do not make an election, you will be automatically assigned to the Thrifty Consumer Plan.

The quality standards behind "Elite Provider" status and the "Healthy Living" standards are explained in your Benefits Guidebook.

Review the official plan documents for more details.

Source: Sibson Consulting

# **Service Strategies**

- Limit unnecessary information (from the customers perspective)
- Limit to three best options
- Present choices in a way that highlights context for decision-making
- Increase meaningful differences between the choices

# **Procrastination**



- Most likely to procrastinate when:
  - Actions are complex
  - Too many choices
  - Too much information
  - Can't finish something in one sitting
  - Task induces anxiety

# Example

Home About Us Career Areas Life at Walgreens Students Events

Back

Start Your Application

0%

### **CUSTOMER SERVICE ASSOCIATE**

Estimated completion time: 17-20 minutes.

Thank you for choosing Walgreens! We are excited you have an interest in joining our team! To begin the online application, click "Let's get started" below. Please note once an application has been submitted, responses to job-related questions cannot be edited. You may edit your candidate profile at any time.

Let's get started

Save and finish later

# **Service Strategies**

- Use implementation prompts to urge participants to make a plan to help them complete their goals
- Design tasks that allow participants to complete them in one sitting
- Send reminders

# **Key Points**

- We ALL have these errors and biases! (Applies to both customers and staff)
- Errors & biases interrelated
- We can use this information to:
  - Construct environments that create success by going with the flow of how people think/ act.
  - Encourage the right actions at the right times
  - Combat your own biases about customers and colleagues

# How to use these biases for program success

Behavioral Bias	Service Strategy		
Cognitive Load: Limited bandwidth	Simplify messaging, limit unnecessary information		
<b>Psychology of Scarcity:</b> Face more pressing issues and program requirements is low priority	Personalize communication, simplify messaging, highlight benefits, ensure requirement is necessary		
<b>Primacy Bias:</b> Favoring information presented first	Randomizing the order of choices so first isn't always selected, listing items that are most critical first, discuss most important matters first		
<b>Status Quo Bias:</b> Wanting to do what others are doing, what seems "normal"	Emphasize communication that shows successful outcomes of others who have participated		
<b>Procrastination</b> : Forgetting/putting off tasks	Ensure steps can be completed in one sitting, reminders		

# What is a Nudge?

# **Definition of Nudge**

Liberty-preserving approaches that steer people in particular directions, but that also allow them to go their own way (Sunstein 2014)

Altering people's behavior in a predictable way without significantly changing their economic incentives (Thaler & Sunstein 2008)

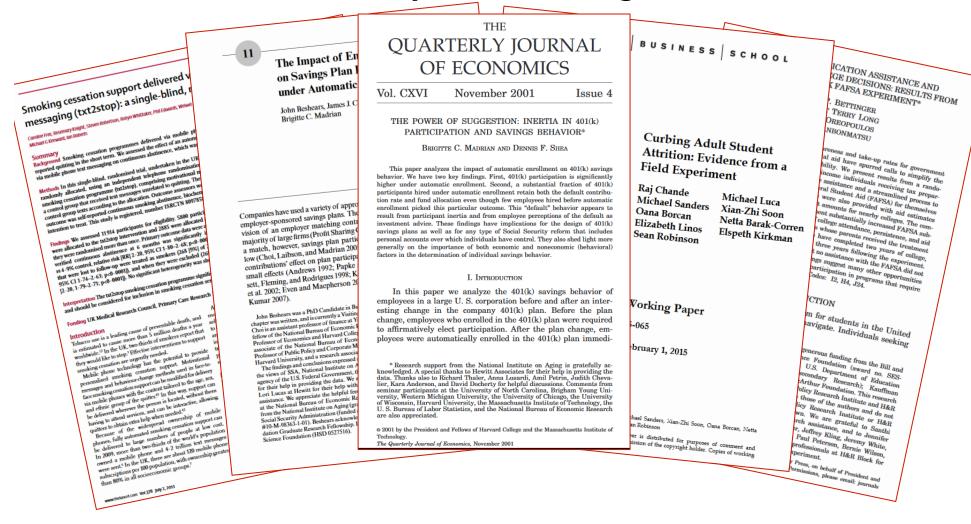
Photo Source: blogspot.com

# Types of Nudges

- Default Rules
- Simplification
- Uses of Social Norms
- Increases in Ease and Convenience
- Disclosure
- Warnings
- Pre-commitment Strategies
- Reminders
- Eliciting Implementation Intentions
- Informing People of the Nature and Consequences of Past Actions

Source: Sunstein 2014

# **Examples of Nudges**



# **Examples of Nudges for Job Seekers**

Is the Threat of Reemployment Services More Effective Than the Services Themselves? Evidence from Random Assignment in the UI System

By Dan A. Black, Jeffrey A. Smith, Mark C. Berger, and Brett J. Noel\*

We examine the effect of the Worker Profiling and Reemployment Services system. This program "profiles" Unemployment Insurance (UI) claimants to determine their probability of benefit exhaustion and then provides mandatory employment and training services to claimants with high predicted probabilities. Using a unique experimental design, we estimate that the program reduces mean weeks of UI benefit receipt by about 2.2 weeks, reduces mean UI benefits received by about \$143, and increases subsequent earnings by over \$1,050. Most of the effect results from a sharp increase in early UI exits in the treatment group relative to the control group.

The UI system is widely believed to provide incentives for workers to lengthen their spells of

\*Black: Center for Policy Research. 426 Eggers Hall, Symuson. NY 13244 (c-mail-stoomer, 1971). The property of the property of the property of the property of Maryland, College Park, MD 20742 (c-mail: smith@econ.amm.delt); Begrer GMak Berger GMak Berger GMak Berger passed away on April 30, 2003). Department of Economics, Gunton College of Business and Nock-American Express—TRS, 1000 North 25th Avenue, Building 10400, Phoenix, AZ 85021 (c-mail: Bretzl.) Nocl@acc.pom.), We thank the U.S. Department of Labor for fasaccial support through a contract between the Kenfel@acc.pom.), We thank the U.S. Department of Labor for fasaccial support through a contract between the Kenfel@acc.pom.), We thank the U.S. Department of Labor for fasaccial support through a contract between the Kenfel@acc.pom.), We thank the U.S. Department of Labor for fasaccial support through a contract between the Kenfel@acc.pom.) We thank the U.S. Department of Labor for fasaccial support through a contract between the Kenfel@acc.pom. We thank the University of Kentucky, Smith also thanks the Social Science and Hamailies Research Council of Camba and the CIIIC Chair in Human Capital and Productivity at the University of Western Dosario distinction of the Capital Capital Science and Hamailies Research Chair and Capital Science and Science an \* Black: Center for Policy Research 426 Fagers Hall tional University, Boston University, the U.S. Bureau of Labor Statistics, University of Colorado, Cornell Univerand saintinas, University of Colinato, Centite University, the Econometric Society meetings, University of Essex, University of Houseton, Indiana University, the Institute for Fiscal Studies, the Institute for Research on Poverty Summer Conference, Louisiana State University, University of Maryland, Mrt, University of Missouni, University of New South Wales, Ohio State University, the Society of Labor Economists meetings, the Society of Labor Economists meetings the Society of Labor Economists meetings the Society of Labor Economists meetings the Society of Labor Economists and Labor Economists and Laborator Econom of Labor Economists meetings, the Stockholm School of Economics, SUNY-Buffalo, Syracuse University, the Tin-bergen Institute, University of Toronto, UBC, Univer-

unemployment by providing a subsidy to their job search and leisure. This paper examines the behavioral effects of a new program that "profiles" Unemployment Insurance (UI) claimants based on the predicted length of their unemployment spell or the predicted probability that they will exhaust their UI benefits. Established in 1993 and formally called the "Worker Profiling and Reemployment Services" (WPRS) system, the program forces claimants with long predicted UI spells or high predicted probabilities of benefit exhaustion to receive employment and training services early in their spell in order to continue receiving benefits.

We consider the effects of the profiling pro gram on claimant behavior using data from Kentucky. Our data embody a unique experimental design. The randomization in our data occurs only to satisfy capacity constraints and only at the margin. UI claimants are assigned "profiling scores" that take on integer values

sity College Dublin, the Upjohn Institute, and University of Western Ontario provided useful comments. We especially thank Jasp Abbring, Joshua Angrist, Christopher Taber, and Bruce Meyer for their suggestions, along with three anon-

ymous referees.

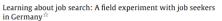
<sup>1</sup> See Stephen Wandner (1997), U.S. Department of La-bor (1999), or Randall Eberts et al. (2002) for more detailed

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   Institute of Economic Research, United States

ARTICLE INFO

We conduct a large-scale field experiment in the German labor market to investigate how information pro ission affects job seekers' employment prospects and labor market outcomes. Individuals assigned to the earment group of our experiment received a brochure that informed them about job search strategies and e consequences of unemployment, and motivated them to actively look for new employment. We study the causal impact of the brochure by comparing labor market outcomes of treated and untreated job seekers in administrative data containing comprehensive information on individuals' employment status an adea-ings. The effects of our treatment tend to be positive, but concentrated among job seekers who are at risk of

sign. In effects of our treatment densi to be posture, and concentrates among got severs who are at risk or being unemployed for an extended period frime. Specifically, uncentred effects in our overall sample are being unemployed for an extended period from Specifically uncentred effects in our overall sample as statistically significant effects for individuals who exhibit an increased risk of long-term unemployment. For this group, the bordure increases employment and earning in the year after the intervention by roughly 45. Cover the low cost of the intervention, our findings indicate that targeted information provision can be a highly effective policy tood in the labor market.

Job search is a complex and daunting endeavor. Besides the sub-

Job search is a complex and daunting endeavor, Eesides the sub-stantial economic losest that underployment typically entails, job seekers face a variety of non-trivial informational problems when looking for new employment. They need to think about how much effort to exert, which search channels to use, and what kinds of jobs to target, e.g., interns of industry, occupations or geographical loca-tion. The job search process is further complicated by the fact that there is relatively inthe information and feetback about important there is relatively inthe information and feetback about important

parameters of the search process, such as individual returns to search effort, path dependence, or the degree to which job arrival rates

elost, pasti dependence, or the degree to Winter job artival rates depend on the breadth of one's search. In addition to such informa-tional challenges, the search process also puts a strain on individuals' self-confidence and willipower. Besides the general unhappiness and frustration caused by the loss of a), a) ob seeker needs to overcome discouragement from rejected applications and further personal

We thank the co-editor, Monica Singhul, several anonymous referres, as well as Alberto Abadie. Bjørn Barting, Stefano DellaVigna, Larry Katz, Eva Ranefall, Alexandra Rodale, Flederie Schnerden, Frederie Schnerer, and Baberto Weber for their heighted comments and suggestions. The paper also bereffted from comments of the semi-and and conference mentiopasts in Arbitan, Sephaling, Bertin Basser, Gorenhagen, and and Conference mentiopasts in Arbitan, Sephaling, Bertin Basser, Gorenhagen, Wilchelm, and Zinche, We are grateful to Suzanee Koch, Steffen Klim, Christopher, John Conference, Weber and Death Mark Der growt with information of the experiment. We also thanks Sara Kasar for providing us with information to enterin regime fares. More in ofference, Websie Landing, Part and Capiter, and

MATHEMATICA Policy Research





### **Encouragement Emails Increase Participation in Reemployment** Services

by Matthew Darling, Christopher O'Leary, Irma Perez-Johnson, Jaclyn Lefkowitz, Ken Kline, Ben Damerow, and Randall Eberts

### Study background

Labor (DOL) Behavioral potential of using behavioral insights to improve the of DOL programs. It is sponsored by the DOL Chief Evaluation Office and draws on insights from behavioral economics, psychology, and related fields. In this brief, we present initial findings on the effects of an intervention designed to encourage Unemployment Insurance (UI) claimants to participate in their state's Reemployment and Eligibility Assessment (REA) pilot program and persist in their job search. For the study, selected Michigan Works! agencies and the W.E. Upjohn Institute partnered with the Department of Labor's Behavioral Interventions (DOL-BI) team to test the effectiveness of a series of seven email messages that supplemented an initial call-in letter to UI claimants from the Michigan Unemployment Insurance Agency (UIA). The messages incorporated insights from behavioral science and were designed to overcome barriers that may keep people from participating in the REA program and using reemployment services.

The study began in March 2015. The new emails were sent to 357 individuals who had valid email addresses and had been called in for mandatory REA services. Another group of 374 claimants received no messages other than the UIA's call-in letter. The effects of the new messages were measured using program and administrative data collected over seven months. In this brief, we report on how the new messages and the overall study were designed, and present initial findings about the messages' effect on REA participation and program completion.

- . UI claimants who were sent email messages were more likely to start the REA program by scheduling their first session.
- · UI claimants who received email messages were also more likely to complete the REA
- · Once individuals attended their first REA session, they were equally likely to complete the program regardless of whether they had received emails or not

### INTERVENTION DESIGN

Existing process. Michigan's REA pilot program, which operated in selected areas of the state from January to September 2015, sought to help UI claimants return to work sooner than the average period of 14 weeks. Claimants who were selected to participate in the program were called in for mandatory, one-on-one REA sessions with a Michigan Works! representative. During the first REA session, the claimants received an orientation to available reemployment assistance services, a UI eligibility assessment, and labor market information. Staff also reviewed the claimant's recent

Source: Darling et al. 2016

### Exhibit 2. Email sent to randomly selected UI claimants

Subject Schedule your Michigan Works/assessment Short preview. Your personalized Reemployment and Eligibility Assessment HI, I'm Dariene at Michigan Works? Southwest. Soon, you will receive a letter from the Unemployment Insurance Agency asking you to schedule a Reemployment Uses a and Eligibility Assessment within 14 days. The Michigan Unemployment Insurance Agency requires your participation in REA to continue unemployment benefits, **Provides** but we at Michigan Works! Southwest view REA as an opportunity to help you get back to work. personal a dear Flease call me at 268-495-7819 for Kalamazoo, 269-562-2048 for Three Rivers, or 277-256-5254 for Branch and Calhoun counties (whichever office is more and deadline convenient for you) as soon as possible to schedule your Reemployment and Eligibility Assessment. empathetic We will work with you one-on-one to help you get reemployed in a good job. We can provide a variety of effective reemployment services at no cost to you. All our tone services are always provided free. We look forward to meeting you soon. Sincerety. Emphasizes Darlene, REA Coordinator benefits of participation. What to Do Ned 1. Call melioday at 259-455-7519 (Malamazzo), 259-592-2049 (Three Rivers), or 577-255-8294 (Stanchard Calhour) to achedule your REA appointment. I can be reached during regular business hours, Monday through Friday. 2. Wring the following materials to your appointment: Your government issued photo identification. Your recent monthly record of work search (UIA form 1553). Your regume (if you don't have one, we can help you write one). Clearly Come to your appointment at one of the following locations: lists next Michigan Works! 1801 S. Burdick Street List steps resources Michigan Workel 18587 Entergrise Cr. 93 to facilitate Three Rivers, MI 49093 next steps Michigan Workel 210 Vista Drive Coldester, MI 42035 Michigan Morkel 125 Hamblin Assesse Sattle Creek, MI 49017 More Details about Michigan Works! RtA: Dur new neemployment services grognem for REA participants is designed to help easily solisify your job search requirements and make sure your unemployment benefits are not interrupted. You will meet one-on-one with an experienced nemployment services occuration to review your continued eligibility for UII benefits, clinicuss your recent, job asserts #forts, and develop a personalized peerployment strategy using variety of employment services available at Michigan Workst Southward. **Provides** more information about what to expect

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### Exhibit A.3. Second email: reminding claimant to schedule REA1

Subject: Reminder to schedule your Michigan Works! assessment:

Short preview: For your personalized Reemployment and Eligibility Assessment

[first\_name]

Last week I sent you an email about scheduling your Reemployment and Eligibility Assessment (REA) at Michigan Works!

Southwest. I haven't heard from you yet. Please call me at 269-488-7619 for Kalamazoo, 269-592-2049 for Three Rivers, or 877-256-8294 for Branch and Calhoun counties (whichever office is more convenient for you) as soon as possible to schedule your REA if you're still looking for work.

The deadline for your REA is rapidly approaching and we want to make sure you don't lose this opportunity to work one-on-one with our team to make your job search as easy as possible. If you don't call this week, you may lose access to your unemployment benefits.

We look forward to meeting you soon.

Sincerely, Darlene, REA Coordinator



### What to Do Next:

- Call me today at <u>269-488-7619</u> (Kalamazoo), <u>269-592-2049</u> (Three Rivers), or <u>877-256-8294</u> (Branch and Calhoun) to schedule your REA appointment. I can be reached during regular business hours, Monday through Friday.
- 2. Bring the following materials to your appointment:
  - O Your government issued photo identification.
  - © Your recent monthly record of work search (UIA form 1583).
  - O Your resume (if you don't have one, we can help you write one).
- 3. Come to your appointment at one of the following locations (click the link for addresses):

Michigan Works! Kalamazoo

### Exhibit A.6. Fifth email: encouraging claimant to persist in job search (1)

Subject: Michigan Works!: Make the most of your job search starting this week:

Short preview: Creating your personal job search plan

[first\_name]

Congratulations on completing the Michigan Works! Reemployment Program. Our team has enjoyed working with you and hopes that our services strengthened your reemployment efforts.

It's the start of a new week and this is a great time to take your job search to the next level by setting goals and making plans to reach them. What do you want to achieve in your job search this week? How will you do it? Will you submit job applications, revise your resume, or attend a job search workshop? These services are always available at your local Michigan Works! office. Please go to our website to see dates for upcoming special reemployment events: Schedule of Events

As you continue your job search, making a written plan of when, where, and how you will search increases the chances of reemployment success. Use all the tools available to you. For example, you can use the format of your UI 1583 Form (Monthly Record of Work Search) to plan your job search (and then record what you did).

As always, our team remains committed to helping you succeed. Please come visit our office or contact us if you need any additional help with reemployment.

Sincerely,
Your REA team
CareerServices@michiganworks14.org
MICHIGAN



# **Example: Texas Noncustodial Parents**



ATTORNEY GENERAL OF TEXAS
GREG ABBOTT

### Can your child support order be lowered?

Name of Incarcerated parent
TDCJ No.12345678 / OAG No. 0009415412
Unit/Address
City/State/Zip Code

Dear Incarcerated Parent.

Your child support obligation (how much you are ordered to pay by the court) does not automatically stop or change when you become incarcerated. While you are in prison, your unpaid child support, along with interest continues to add up.

Due to the change in your circumstances (incarceration), you may be eligible for a modification of your child support payment. This means that the court may lower your monthly child support and/or medical support obligation.

If you are interested in having your child support possibly lowered, please completely fill out the attached application. Upon receipt of your application, our office will contact the other parent (custodial parent) on your child support case to notify them of this process and to ask them for information regarding the case. The court will make a final decision regarding a modification based on all available evidence.

Sincerely,

Oscar Esquivel Incarcerated Parents Program Specialist bw

Source: Richburg-Hayes et al. 2017.

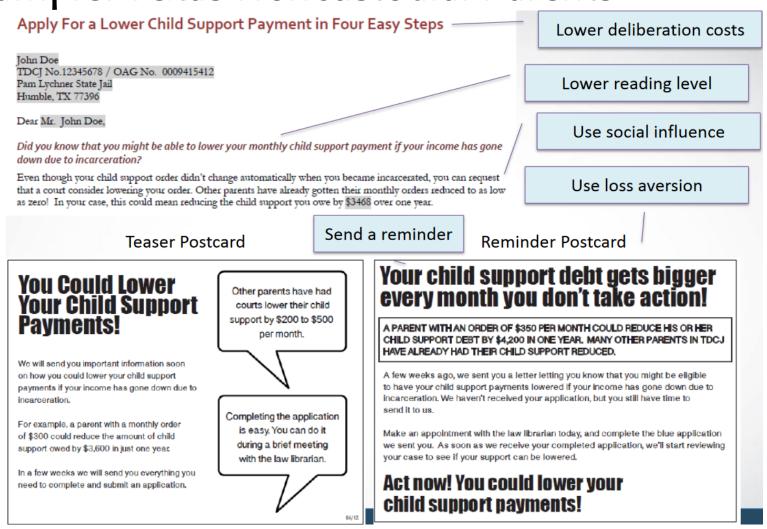
Primes prisoner identity

High reading level

References the custodial parent



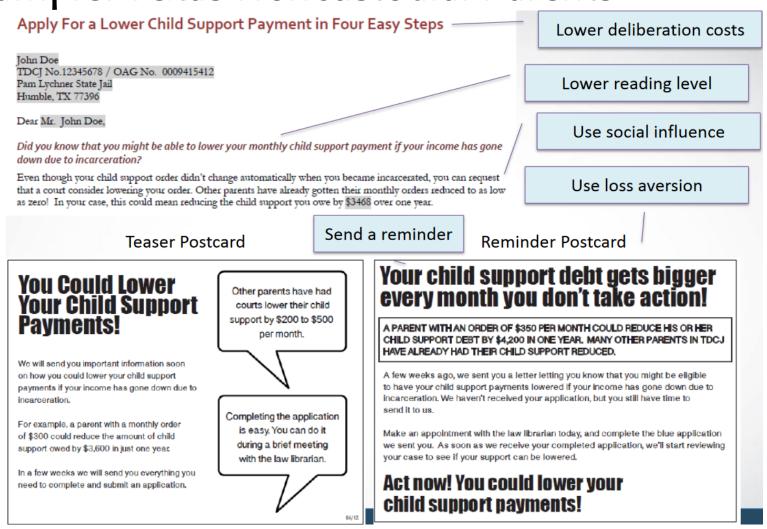
# **Example: Texas Noncustodial Parents**



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# **Example: Texas Noncustodial Parents**



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mdrc BUILDING KNOWLEDGE TO IMPROVE SOCIAL POLICY

# **New York City Paycheck Plus**

FOR NEW YORK CITY
39 Broadway, 10th floor
New York, NY 10006

Non-Profit Org. U.S. Postage PAID Syracuse, NY **Standard Postcard** 

# PAYCHECK PLUS JUST GOT BETTER

Stop by a Food Bank office to get more information about Paycheck Plus and receive a \$50 GIFT CARD!

It only takes a few minutes!

Si desea esta información en español, por favor llame al 212-340-4480

# COME TO FOOD BANK OFFICES listed here

between March 11 and April 9 to recieve

- More information about the Paycheck Plus bonus
- And a \$50 gift card

### **COME IN TODAY TO LEARN MORE!**

For other locations or questions call 646-981-6111

# FOOD BANK FOR NEW YORK CITY LOCATIONS NEAR YOU

### Capital One Bank

356 Fulton St., 2nd Fl., Brooklyn, NY 11201 Tue-Wed, 10am-7pm | Thu, 10am-8pm | Sat, 9am-5pm

### **Bed-Stuy Restoration Plaza**

1392 Fulton St., Brooklyn, NY 11216 Tue-Wed, 10am-5pm | Thu, 10am-6pm | Sat, 9am-2pm

### St. George Santander Bank

15 Hyatt St., 3rd Fl., Staten Island, NY 10301 Tue-Thu, 12pm-7pm | Sat, 9am-5pm

### Northern Manhattan Improvement Corp.

76 Wadsworth Ave., New York, NY 10033 Tue-Thu, 12pm-7pm | Sat, 9am-5pm

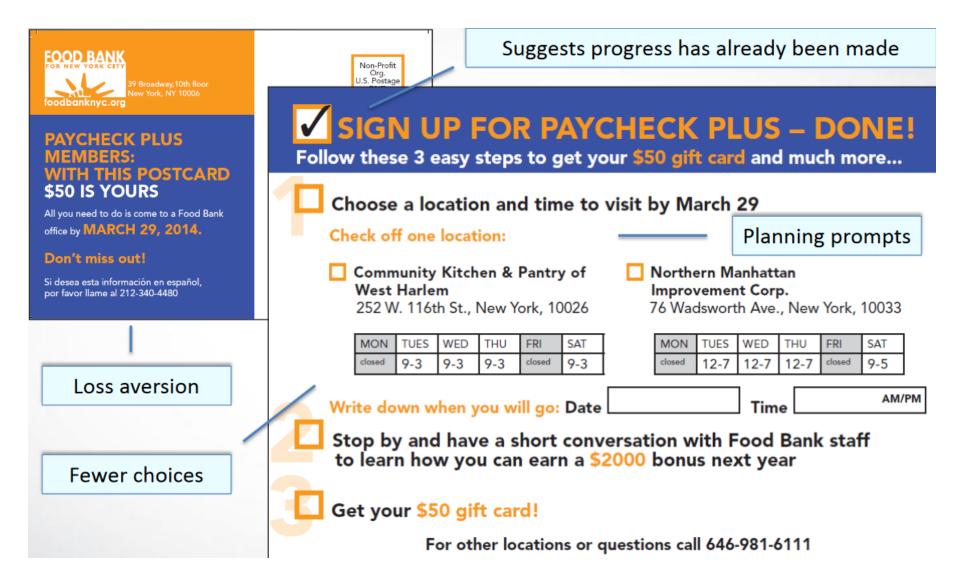
### Community Kitchen and Pantry of West Harlem

252 W. 116th St., New York, NY 10026 Tue-Thu, 9am-3pm | Sat, 9am-3pm

John J. Heldrich Center for Workforce Development

Source: Richburg-Hayes et al. 2017.





John J. Heldrich Center for Workforce Development

Source: Richburg-Hayes et al. 2017.



# **Example: One Stop Orientation**

# **Current Practice:**

- A lot of information about services
- A lot of jargon
- At times unclear next steps

# What we could do:

- Limit jargon and simplify information
- Put services in context
- Clearly present next steps

# Important Reminders for Developing Nudges

- Necessary to get user input and evidence when designing intervention
- Keep interventions simple
- Nudges should not be "one-size-fits-all"
- Consider distributional effects
- Allow for iterative process for light-touch interventions through experiments
- These strategies supplement effective programs

**Group Discussion** 

# WHAT ARE COMMON ISSUES IN YOUR ROLE THAT BEHAVIORAL SCIENCE COULD HELP?

**Group Discussion** 

# HOW CAN YOU USE NUDGES TO HELP SOLVE THOSE ISSUES?

# For more information, please contact:

Stephanie Holcomb, MPP

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Phone: (732) 932-1084

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# Sources

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