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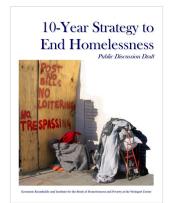
244 South San Pedro Street, Suite 506 Los Angeles, CA 90012 213-892-8104

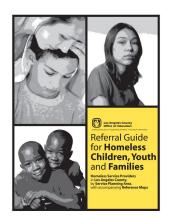
Employment as an Alternative to Chronic Homelessness

Predictive Screening Tools to Identify High-Risk Individuals for Intensive Early Intervention

ERt's homeless research

- Accountability
- Personalization
- Resources
- Interventions















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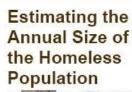
Silicon Valley Triage Tool terthyling and Housing High-Cost Humiless Residents February 2016 ECONOMIC







Escape Routes META-ANALYSIS OF HOMELESSNESS IN LA. April 2018







Early Intervention to Prevent Persistent Homelessness Index lide to leading Unrylog Mater of Yong Alatra beause Practicely Hondow March 2010



ECONOMIC ROUNDTABLE

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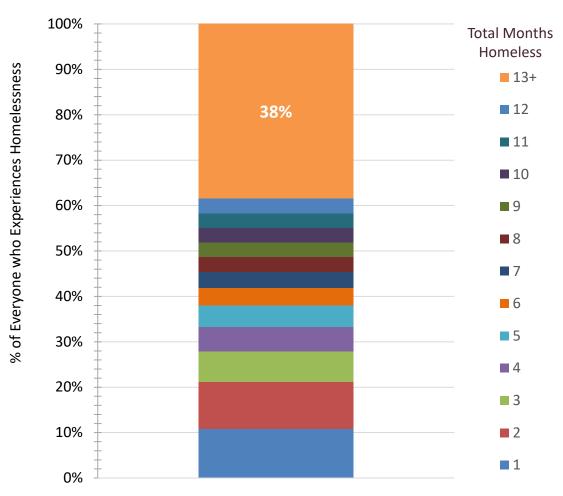
38% of people who become homeless don't find quick exits

- Crucial to give early help to the 38% of people who remain homeless for over 12 months.
- Many of these individuals will have ongoing, high public costs.
- Avoiding high future costs justifies the costs for comprehensive early intervention.

Identify high-risk homeless individuals earlier



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Number of Months Homeless

Source: Linked administrative records of homeless individuals in Los Angeles County.

Extended homelessness is associated with extensive harm

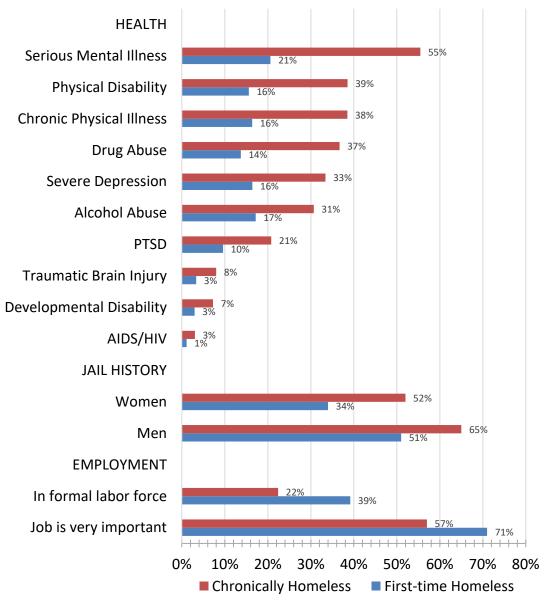
- 1. Every reported *health* problem is 2 to 3 times more prevalent.
- 2. Incarceration histories increase, particularly among women.
- 3. Less interest in developing skills and finding a *job*.

Intervene on the first day rather than the last day



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Source: LAHSA, 2016 and 2017 demographic surveys of unsheltered individuals. 4

There's a solution for every person's problems, but there are no mass solutions

Homelessness is:

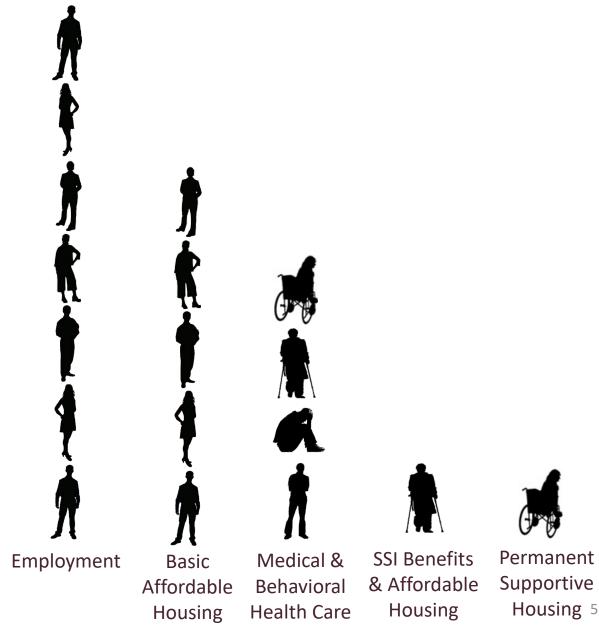
- A housing problem
- An income problem
- A social service problem



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Needs of People Experiencing Homelessness

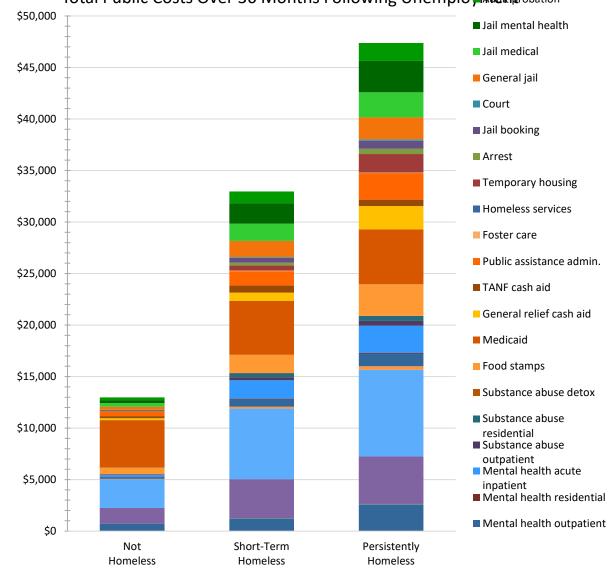
(each figure represents 10% of the population)



Average annual public cost of \$15,800 for unemployed workers who become persistently homeless

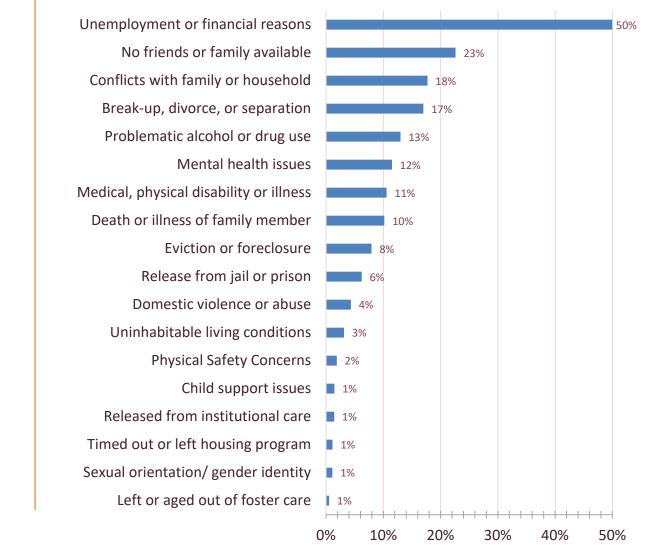
The solution of employment is cheaper than the problem of homelessness





Total Public Costs Over 36 Months Following Unemploying introbation

Reasons Cited by Homeless Adults for Loss of Housing



Unemployment is the reason identified most often for loss of housing

- Most homeless young adults and unemployed workers are looking for a job.
- Re-employment reverses the path into homelessness.



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Source: LAHSA 2018 demographic survey of unsheltered adults. Respondents identified an average of two reasons, so total responses exceed 100%.

Two-thirds of homeless adults do something to earn money

People most active in the formal labor market:

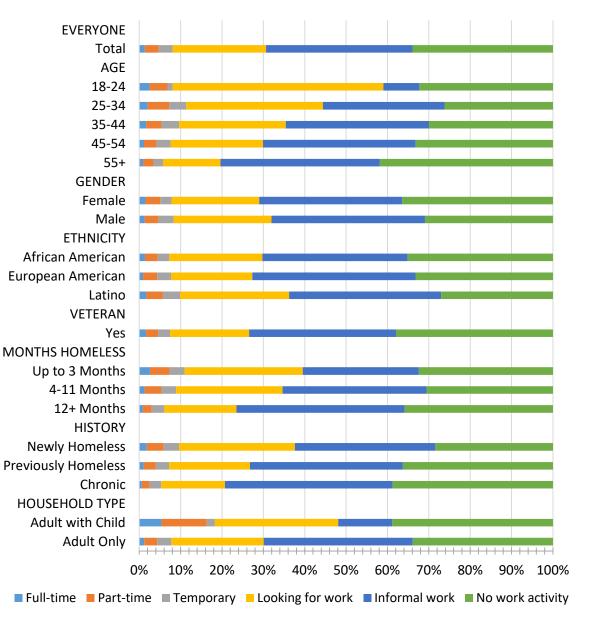
- 1. Young adults 18-24 years old 59%
- 2. Parents with children 49%
- 3. Newly homeless 40%

Help homeless adults find decent jobs



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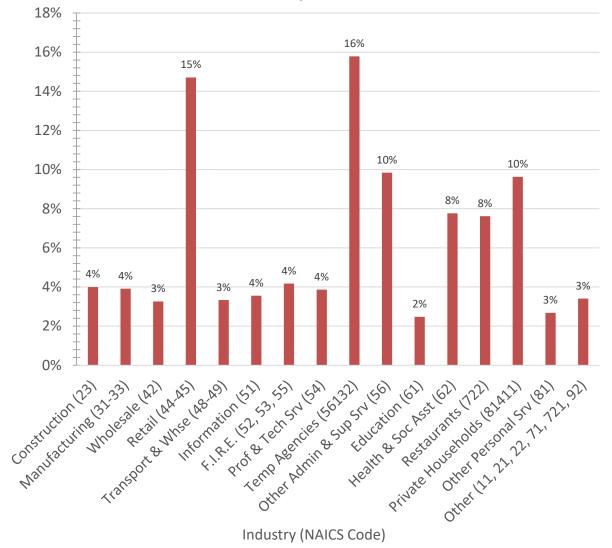
Employment Status of Unsheltered Homeless Adults



Persistently homeless workers most frequently lost jobs in:

- Temp agencies
- Retail
- Private households
- Restaurants
- Health care and social assist.

Industries in which Unemployed Workers who became Persistently Homeless had Jobs





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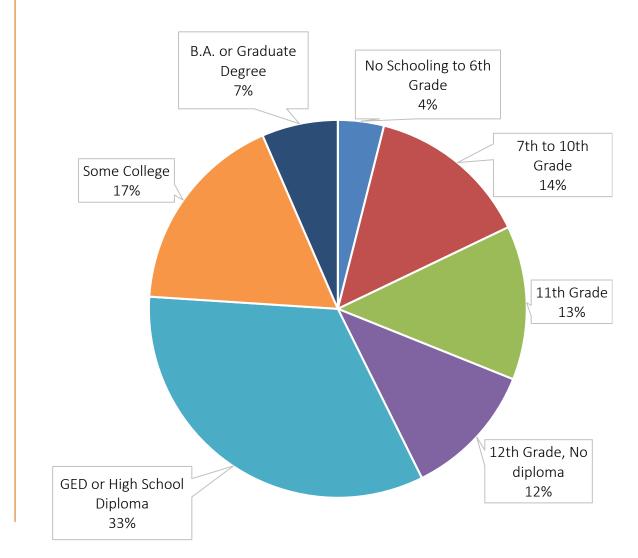
Source: longitudinal linked administrative records of homeless individuals in Los Angeles County.

Many have basic skills

- 57% of homeless residents age 18+ reported having at least a high school degree
- 24% have college experience.
- Many have educational attainments that typically enable individuals to be part of the labor force and consistently earn an income.
- **BUT** many need skill training for better jobs

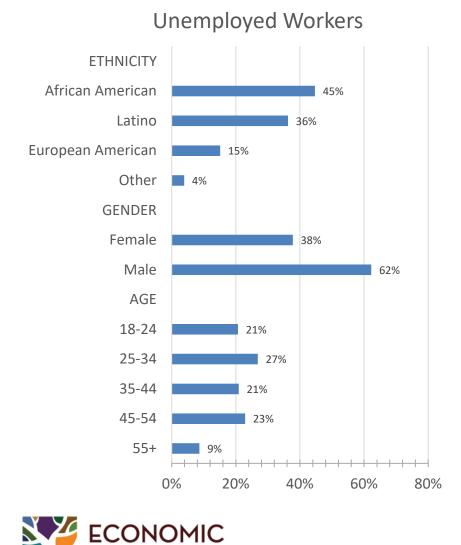


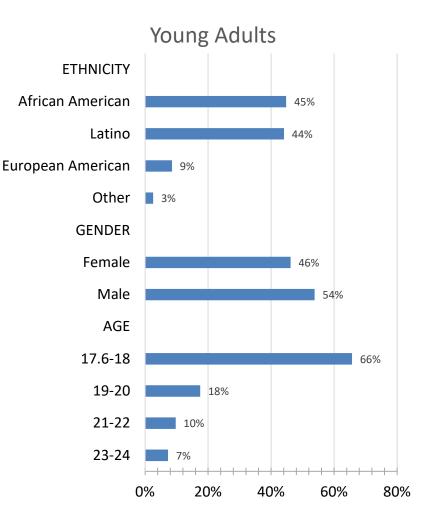
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Sources: Weighted average of LAHSA 2017 demographic survey and Homeless Management Information System (HMIS) data for shelter residents in January 2013. Data is for persons 18+ years of age. 10

Demographics of persistently homeless individuals





Source: longitudinal linked administrative records of homeless individuals in Los Angeles County. Age is at time of screening.

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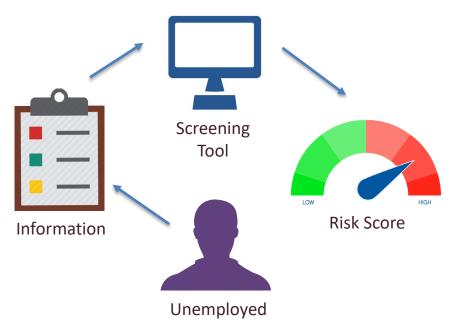
UNDTABLE

Predictive screening process



Protecting Human Subjects

- All survey activity and records about participants must conform to the research protocol approved by ERt's Institutional Review Board
- Protocol covers informed consent, risks to individuals surveyed, benefits, data security for information about individuals, and restrictions on access to information



Worker or Youth

Collecting information

 Interview about demographics and history of work, mental health, health care, drugs, jail, social services, and homelessness

Screening

- Information entered into statistical algorithm that estimates the probability of persistent homelessness
- Option for clinical override of score
- Eligible individuals enrolled and given comprehensive help

Screening tool in Excel spreadsheet

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW ACROBAT

Screening tool with pilot screening cases 8-23-2019.xlsx - Excel

| A | В | С | D | E | F | G | н | 1 | J | К | L | м | N | 0 | Р | Q | R | S | т | U | ٧ | W | x | Y | Z |
|----------|--|--|----------|--------|------------|----------------|-------------|-----------|------------|----------|--------|--------------|----------|-----------|-----------|-----------|-----------|----------|--------|--------|----------|--------|----------|--------|-----|
| Scr | eening Tool for Unemployed Workers | | | Gui | de for In | terpretin | a Screer | ina Tool | Probabil | lities | | | | | | | | | | | | | | | |
| 501 | centing root for onemployed workers | | 20% to 1 | | | oility of bec | - | - | | nucs | | | | | | | | | | | | | | | |
| ollow | v the instructions in column "C" when the description in column "B" fits a client | | | | | probability of | | | | lace | | | | | | | | | | | | | | | |
| | ne column per client to enter information for up to 25 clients in columns D to AB | | | | | old probab | | | | | | | | | | | | | | | | | | | |
| | 1 or a number in rows 12 to 54 of each column as indicated by instructions in column ' | "C" | 0/01012/ | | on the con | Jid probab | inty for be | coning pe | isistentiy | nomeress | | | | | | | | | | | | | | | |
| | robability that a client is in the highest cost group is shown in row 7 of each column | - | | | | | | | | | | SCREENING | TOOL PRO | OBABILITY | OF BCOM | ING PERS | ISTENTLY | HOMELESS | | | | | | | |
| | , | | 96% | 33% | 5% | 24% | 74% | 9% | 36% | 25% | 83% | 14% | 81% | 49% | 43% | 80% | 74% | 8% | 86% | 97% | 98% | 20% | 23% | 89% | 81 |
| | | | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | Enter | En |
| | | Instructions | | Values | Values | Values | Values | Values | Values | Values | Values | | | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | |
| Questi | | for Entering | | | | t for Client | | | | | | for Client f | | | | | | | | | | | | | |
| Numb | 8 | Values | 01 | 02 | 03 | 04 | 05 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 26 | |
| | Demographics | 5 . A.F. | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | Enter 1 if true | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | | Enter 1 if true Enter 1 if true | 1 | | 1 | <u> </u> | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | — | | | | - |
| 4 | | Enter 1 if true | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | | | 1 | - |
| 5 | | Enter 1 if true | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | + |
| 6 | | Enter 1 if true | - | - | | <u> </u> | 1 | - | - 1 | 1 | | 1 | | 1 | 1 | | | | 1 | | | | | - | + |
| 7 | | Enter 1 if true | | | 1 | | | | | | 1 | | 1 | | | 1 | 1 | 1 | | | | | | | |
| 8 | | Enter 1 if true | | | - | | | | | | 1 | | - | | | - | - | - | | | | | | | |
| 9 | | Enter 1 if true | | | | | | | | | | | | | | | | | | | | | | | + |
| 10 | | Enter 1 if true | 1 | | | | 1 | | | | 1 | | | | | | | | 1 | 1 | 1 | | | 1 | - |
| 11 | | Enter 1 if true | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | | - |
| 12 | | Enter 1 if true | | | | | 1 | | 1 | | | | _ | | | | | 1 | | | | | | | |
| 13 | | Enter 1 if true | | | | | | 1 | | | | | | 1 | | | | | | | | | | | |
| 14 | Single individual now | Enter 1 if true | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| | Employment History | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Employed year before last (anytime 13 to 24 months ago) | Enter 1 if true | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | |
| 16 | Employed three to five years (anytime 25 to 60 months) ago | Enter 1 if true | 1 | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | | | 1 | |
| 17 | | Enter Number | | 12 | 5 | 4 | 9 | 12 | 12 | 10 | 0 | 1 | 9 | | 4 | 2 | 6 | 0 | 8 | 8 | 6 | 6 | 3 | 10 | |
| 18 | | Enter Number | | 32 | 0 | 6 | 24 | 0 | 24 | 12 | 36 | | | 8 | 24 | | 18 | 3 | 12 | | 12 | 6 | | 12 | 4 |
| 19 | | Enter Number | 7 | 12 | 5 | 3 | 9 | 9 | 120 | 10 | 96 | | 8 | 8 | 2 | 1 | 9 | 3 | 8 | 1 | 3 | 2 | 1 | 3 | 4 |
| 20 | | Enter Number | 1400 | 2 | 2 400 | 850 | 3 1200 | 1 1400 | 0 | 2000 | 2 | 104 | 1100 | 3 | 5 1500 | 3 2720 | 1 2120 | 300 | 2 | 250 | 450 | 520 | 2 1680 | 2 1200 | 4 |
| 21 22 | | Enter Number Enter Number | 2300 | 2666 | 400 | 850 | 1200 | 1400 | 1000 | 2000 | 1200 | 104 | 1500 | 1520 | 1500 | 2720 | 2120 | 300 | 1600 | 500 | 450 | 520 | 1680 | 1200 | |
| 22 | Homeless History | Enter Number | 2300 | 2000 | 400 | 000 | 1200 | 1400 | 1000 | 2400 | 1200 | 104 | 1500 | 1520 | 1500 | 2720 | 2120 | 300 | 1000 | 500 | 400 | 520 | 1000 | 1500 | - |
| 23 | | Enter 1 if true | 1 | | | | 1 | | 1 | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | |
| 24 | | Enter 1 if true | 1 | | | | - | | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | | <u> </u> | - | + |
| 25 | | Enter 1 if true | 0 | | | | | | 1 | 1 | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | - |
| 26 | | Enter Number | 0 | 6 | 0 | | 0 | 0 | 2 | 5 | | | 12 | | 3 | 24 | 16 | | | 8 | 24 | | | 7 | |
| 27 | Homeless in the month before unemployment started | Enter 1 if true | 1 | 1 | | | 1 | | | | 1 | | 1 | | | 1 | | | 1 | 1 | 1 | | | 1 | |
| | Health and Behavioral Health | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Emergency medical service encounters this year | Enter 1 if true | | | 1 | | 1 | | | | | 1 | | | | | | | 1 | | 1 | | | | |
| 29 | | Enter Number | 0 | | 50 | | 1 | 0 | | 6 | | 2 | | | 10 | 12 | | 3 | 1 | 2 | 10 | | | | |
| 30 | | Enter 1 if true | | | 1 | | | | | 1 | | 1 | | | 1 | 1 | | | | 1 | | | | | |
| 31 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | | 1 | | | | | 4 |
| 32 | | Enter 1 if true | 1 | 1 | | | | | | | | | | | 1 | 1 | | | | | 1 | | | | 4 |
| 33 | | Enter 1 if true | | | 1 | | | | | | | | | | 1 | 1 | | | | | 1 | | | | 4 |
| 34 | | Enter Number | 0 | | 0 | 0 | | 0 | | | | | | | | | 2 | | | | | | | | 4 |
| 35 | | Enter 1 if true | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | Alcohol or substance abuse services year before last (anytime 13 to 24 months ago) Criminal Justice | Enter 1 if true | | | | - | | | | | | | | | | | 1 | | | | | | | - | 4 |
| 37 | | Enter Number | 3 | 0 | 0 | 0 | | 0 | | | | | | 11 | | | | | | | | | | | |
| 38 | | Enter 1 if true | 1 | | | <u> </u> | | | | | | | | ** | | | | | | | | | | | + |
| 39 | | Enter 1 if true | - | | | | | | | | | | | | | | | | | | 1 | | | | ft- |
| 40 | | Enter 1 if true | | | | | | | | | | | | | | | 1 | | | | 1 | | | 1 | f- |
| | Social Services | enter an dide | | | | | | | | | | | | | | | | | | | | | | | - |
| | | | | 1 | | | 1 | 1 | | | 1 | | | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | |
| 41 | Cash aid at the time of unemployment | Enter 1 if true | | | | | | | | | | | | | | | | | | | | | | | |
| 41 42 | | Enter 1 if true Enter 1 if true | | - | 1 | | - | 1 | 1 | | - | | | | - | | - | | - | - | | | | - | |



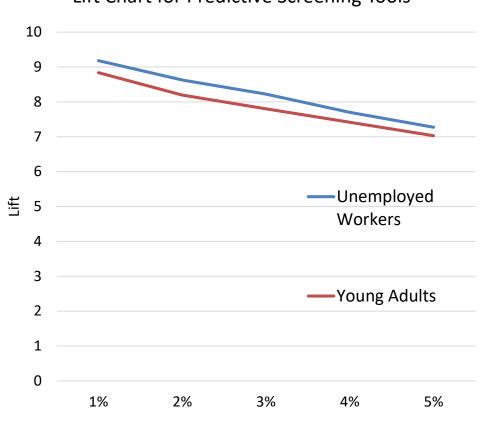
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Predictive screening tools enable more accurate targeting of early interventions

- Two screening tools identify highrisk individuals in two groups:
 - Unemployed workers
 - Young adults
- When targeting individuals most at risk, the tools are 9 times more accurate than random selection
- "Lift" is a statistical metric of successful identification when using versus not using the predictive screening tools
- 30 to 50 pieces of information used to estimate the probability of persistent homeless within 3 years



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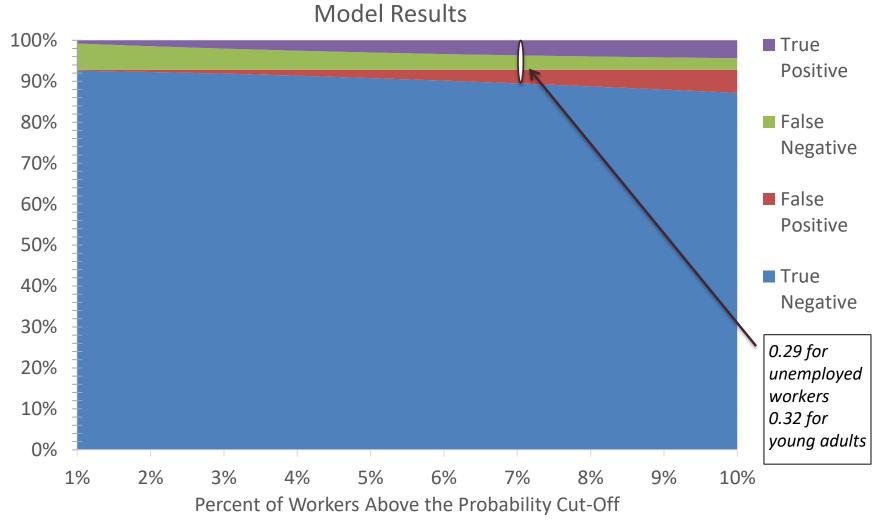


Lift Chart for Predictive Screening Tools

Percent of People Above the Probability Cut-off Level

Source: Economic Roundtable predictive models developed using longitudinal linked administrative records of over 1,000,000 residents of Los Angeles County who experienced homelessness. The population includes recipients of any type of public benefits: food stamps, Medi-Cal, cash aid.

Screening tool cut-off scores for eligible individuals





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