### Managing the affordability crisis

Jamie Wimberly, Senior Vice President

Bob Cooke, Executive Consultant

Tom Martin, Vice President



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### **Utility Customer Research Consortium**

The E Source Utility Customer Research Consortium is a blue-ribbon panel of executives working together to identify opportunities for improvement and innovation in customer service and care.

The Utility Customer Research Consortium emphasizes peer-to-peer interaction and information sharing and is committed to working with the members to conduct collaborative research and consumer surveys, and to develop other content to enrich the dialogue among members and to provide thought leadership in the utility sector.

# Current Utility Customer Research Consortium members



















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### **Agenda**

- Growing affordability crisis and arrearage management
- How can data science improve how we respond to arrears?
- Arrears risk
- Micro-cohorting
- Employment, income, and debt recovery
- Credit risk and payment behavior
- Areas of focus



### **Speakers**



**Jamie Wimberly** 

Senior Vice President,

**Utility Customer Strategy** 

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**Bob Cooke** 

**Executive Consultant,** 

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**Tom Martin** 

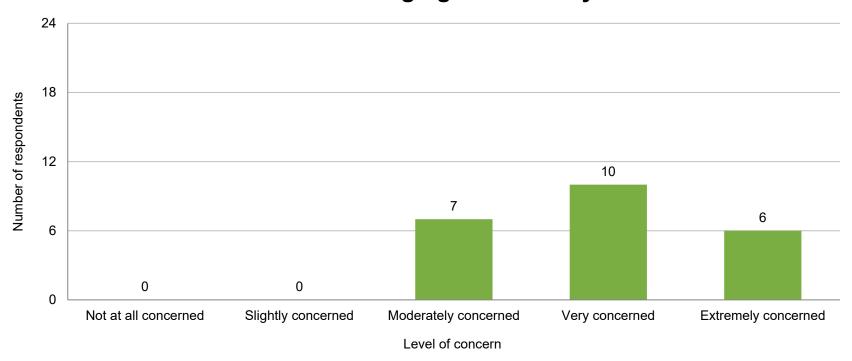
Vice President of Commercialization,

**Data Science** 

E Source



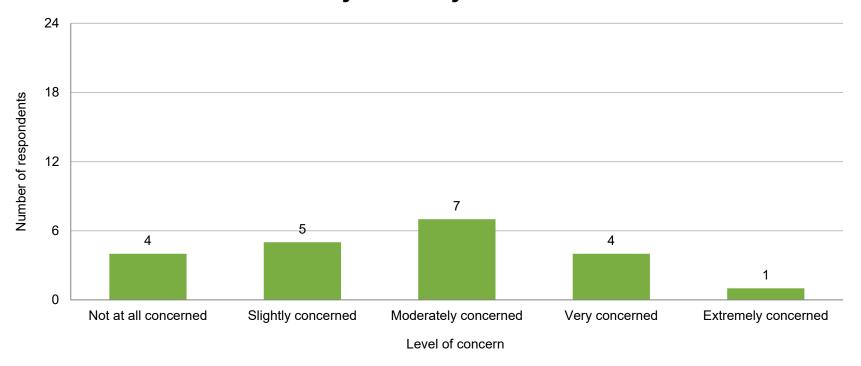
## Poll: Over the next two years, how concerned are you with managing affordability?



© E Source. **Base:** Event attendees (n = 23). **Question:** Over the next two years, how concerned are you with managing affordability? **Notes:** Use caution with small sample size. Some respondents may be from the same utility.



## Poll: Over the next two years, how concerned are you about your utility's debt levels?



© E Source. **Base:** Event attendees (n = 21). **Question:** Over the next two years, how concerned are you about your utility's debt levels? **Notes:** Use caution with small sample size. Some respondents may be from the same utility.



Growing affordability crisis and arrearage management

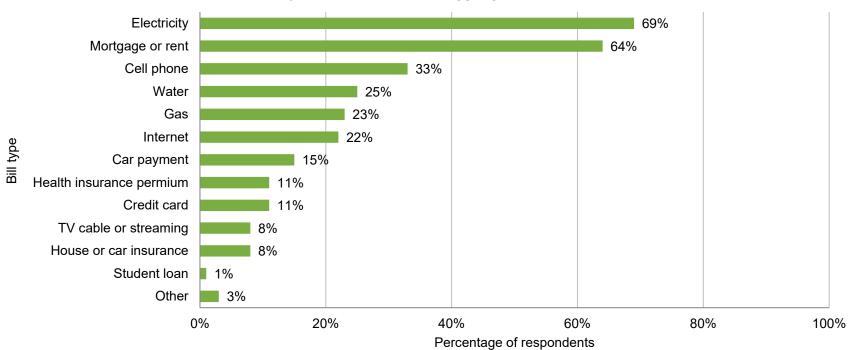


### **Opening thesis**

- A growing number of utility customers are struggling to stay current and pay down any debt they owe to the utility.
- The challenge will grow harder with expected rate increases and other riders.
- · High default rate of payment arrangements leads to even more debt and costs.
- Utility collections process is dysfunctional and needs attention.
- There are ways to help the customer out of debt and to keep them whole.
- Data science will be key to a proactive management approach.

### Payment view





© E Source; data from Fiserv 2021 Expectations & Experience: Consumer Payments. Question: If you could only afford to pay three bills next month, which would you choose to pay? Select up to 3 responses below.



### **Payment view**

- 38% either have difficulty or can't pay all their bills.
- 84% of consumers were more likely to pay a bill first if it had late fees.
- 64% would prioritize a payment if there was a threat of disconnect.
- 48% would take credit score risks into consideration.



### **Debt view**

Score your customer base and segment by risk score and age

FICO score

300–579 (Poor)

580-669 (Fair)

Generation

Gen Z (18–26)

Gen X (43–58)

Silent generation

Millennials (27–42)

Baby boomers (59–77)

670–739 (Good)

740–799 (Very good)

800-850 (Exceptional)

risk score and age groupings for payment and collection strategies.

## d age payment n strategies.

Percent change

2022-2023

4.1%

-0.2%

-1.7%

4.6%

2022-2023

15.4%

8.0%

1.9%

-1.3%

-1.9%

2021-2022

8.3%

5.1%

3.9%

4.2%

9.1%

2021-2022

24.3%

14.7%

5.8%

0.5%

-1.3%

### Struggling customers



~30% of households
earning less than
\$50,000 per year have
not fully paid utility bills



25% of all income levels report being past due on utility bills



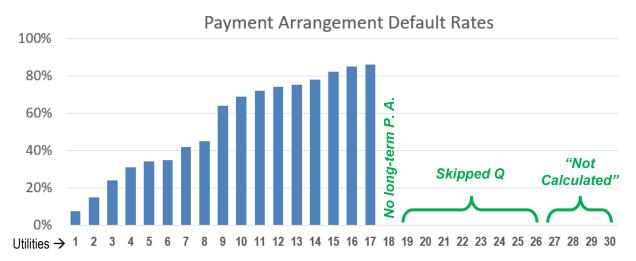
5% of low-income households indicate they owe more than \$500 on utility bills



~40% of low-income households are concerned about staying current on utility bills

# Reported default rates of payment arrangements

A high percentage of payment arrangements fail (arithmetic mean is 57%)



© E Source. "Utility Payment Arrangements: Survey Findings and Analysis" Utility Customer Research Consortium Contingency Planning Research Project. Presented to DEFG's Utility Customer Research Consortium. Survey question Q16. Based on your response to the previous question, what was the default rate for long-term, pre-COVID residential customers attempting to complete a standard payment arrangement? (Define your terms and the base for the calculation. If you track more than one, please provide those you track.)



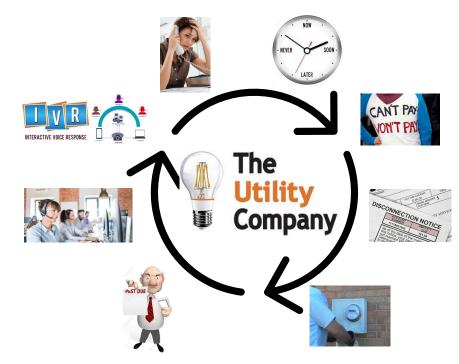
### Payment arrangement: Typical scenario

Broken arrangements increase costs and allow customer balances to increase over time.

Bad debt increases.

#### Additional costs:

- Increased call volume
- Increased average handle time
- Customer education



How are you handling commercial customers?

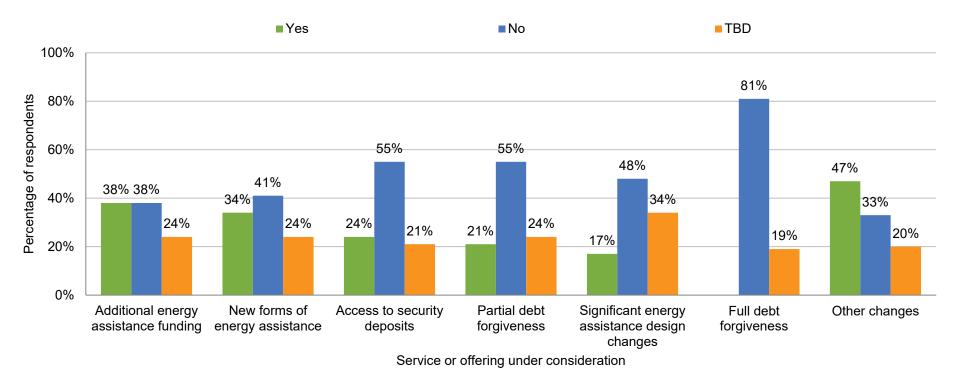
### **Total financial impact**

Utility company example*: Total financial impact of broken arrangements	
Total cost to renegotiate defaulted	\$2,321,111
payment arrangement	
Annual cost of broken agreements	\$1,890,000
(variance)	
Total cost	\$4,211,111

<sup>©</sup> E Source ("An Analysis of Utility Payment Arrangements" presentation to the Utility Customer Research Consortium, March 2021). **Note:** \*Midsize utility in Pennsylvania.



### **Utility survey: Service alternatives**



© E Source (Utility Payment Arrangements: Survey Findings and Analysis, Utility Customer Research Consortium Contingency Planning Research Project). **Base:** n = 30 utilities.



How can data science improve how we respond to arrears?



### Data science and arrears: Key questions

1

What's the risk of a given customer to fall into arrears, and what's the expected amount of those arrears?



What's the best outreach and intervention strategy to reduce the most arrears risk for a given customer?

Outcome: Cohorts of customers by arrears risk

Outcome: Optimized customer outreach and engagement plans



### A data-driven approach to Audience of One

**DATA** 

Data

sion

#### **MODELING**

simulations

#### **OUTCOMES**

#### **Utility data**

Customer details (address, phone, etc.)

Call center interactions

Billing & payment history

Assistance & program history

Third-party data

E Source Data Package

Curated research

Decision support system

Predictive

Customer arrears risk model

Incorporates both risk of falling into arrears and likely arrears amount

Real-world results for learning recalibration



### What's driving arrears risk up or down?

#### Bill payment behavior:

- Percent of payments paid by ACH, credit card, autopay
- Trends over time—credit card,
   ACH, checks

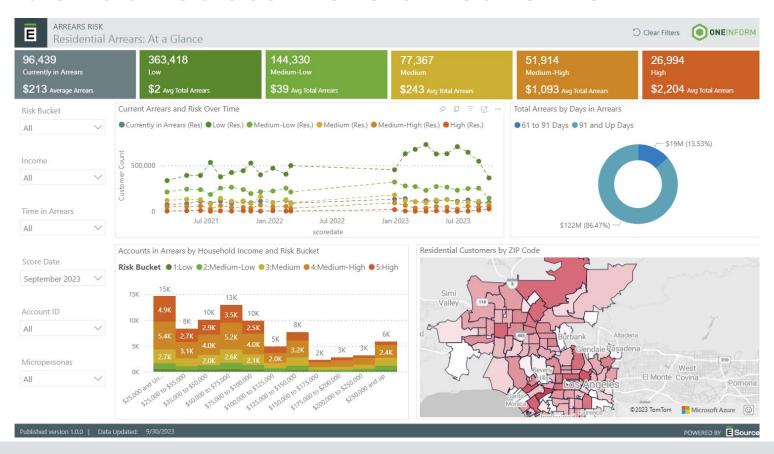
#### Locational:

- Density of other customers in arrears around them
- Latitude and longitude

#### **Credit or finance attributes:**

- Recent 24-month delinquency
- Credit score
- Likely mortgage refinancers
- Likelihood of self-perceived
   COVID-19 impact billpayment ability
- Likelihood of interest in financial relief options

#### Residential customers arrears risk

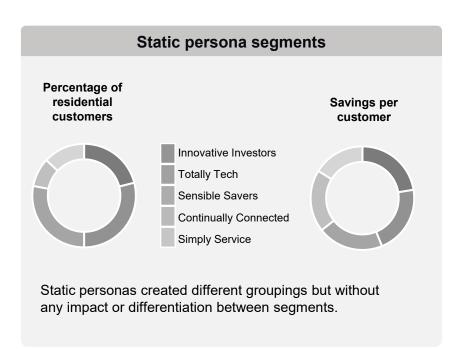


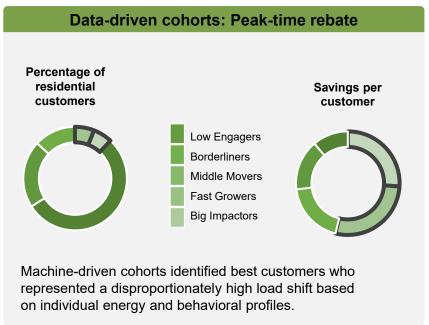


Micro-cohorting for customer engagement



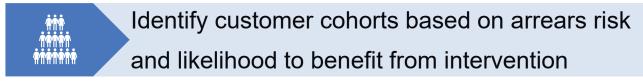
# Current partnership: Data-driven customer cohorts

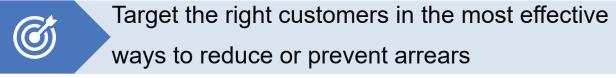


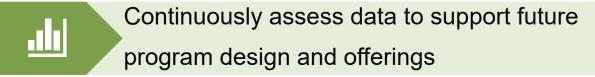




### Audience of One targeting objectives









Reduced arrears, collections, and shutoffs; improved customer satisfaction; and lower call volume and cost to serve



Employment, income, and debt recovery

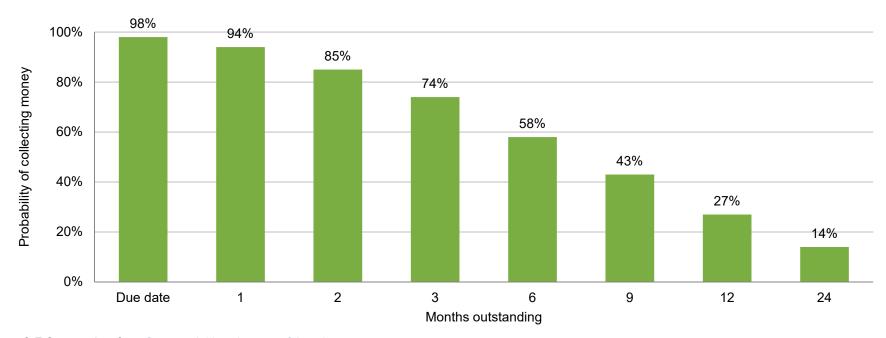


### Employment, income, and debt recovery

- 16% of the workforce is part time.
- Over 30% of US households fall under the federal poverty level guidelines.
- Since 2021, median income has dropped 5% while the cost of living has risen 3.5%.
- 6% of households in the US are unbanked in 2024.
- Gen Z has the greatest amount of debt.
- Gen Z and baby boomers require the greatest financial assistance.
- Debt for credit scores below 580 has increased by 250% since 2022.

### Employment, income, and debt recovery

#### Probability of recovering commercial debt with age



© E Source; data from Commercial Law League of America



**Credit risk and** payment behavior



### Managing the credit risk lifecycle

#### Portfolio Maintenance



- Update/Cleansing/Linking of data
- · Payment performance assessment, baseline scoring, risk segmentation / dimensioning
- Arrears inventory assessment/ reduction

#### Account Initiation

#### Credit Screen & Evaluation

- ID validation
- · N&A, contact verification
- Fraud check
- false positives, premise DNP
- · Trailing debt investigation
- · Scoring/Credit evaluation
- Deposit assignment
- Baseline risk score
- · FACTA/Red Flag compliance

#### Securitization/ Deposits

- Policy adherence
- · Deposit payment options
- · Deposit billing/notification
- · Deposit payment collection
- · Deposit adjustments & reassessments
- · Bond/Certificate monitoring

#### Customer Service

- Risk monitoring/updates internal and external
- Segmentation
- · Risk-based treatments & contact routing
- · Call handling & negotiation skills
- · Automation & self-servicing
- · Maintain current information
- Continual status calibration

#### **Payment** Options

Account Management

- Mail/Remit processing
- Cash Walk-in, 3rd party, kiosk, drop box
- bank, grocery, retail pay
- Credit/Debit card
- Realtime payment processing
- · Autopay with ACH & card
- IVR/Web/Mobile/Text pay
- PavPal. Venmo. Google pav

#### Preventative Treatment

- Alerts & notifications
- Social media
- Payment assistance options
- rate plans budget/level billing
- Energy assistance
- · Re-securitization & updates
- Returned mail processing
- Credit reporting

#### Final Billed Collections

- · Collection agency placements/recalls
- · Agency audits & management · Non placed debt management
- · Collection optimization

OCA

- techniques to reduce inventories
- small balance collections
- settlements & legal actions
- Reporting & reconciliation

#### In House

- Work low risk collections
- · Leverage automation
- · Returned mail processing and skip tracing
- · Balance transfer to active account
- · Pre Agency placement letters

#### Severance

- Field Service prioritization
- · Shut-Off "last gasp" notification
- Risk segment updates
- · Reconnect criteria usage on off meter
- failure to sign for service
- · Note risk of account and voluntary/involuntary status

#### Late Stage

Active Collections

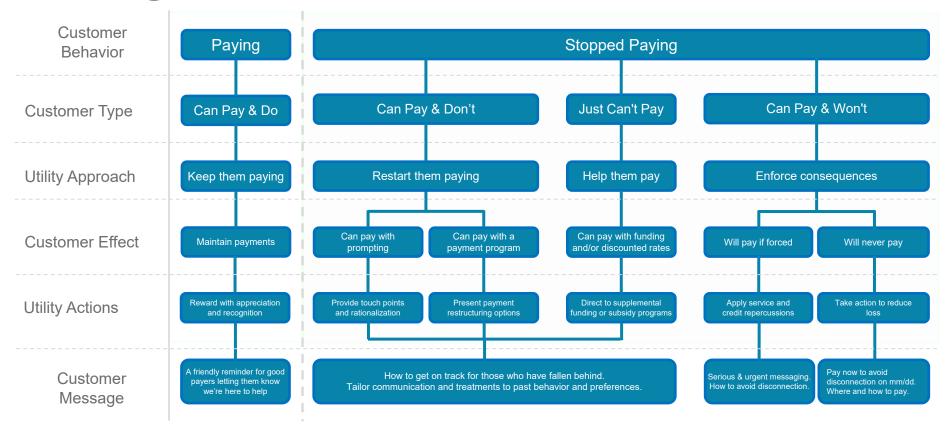
- Disconnect notices and prevention campaigns
- · Letters/Calls/Notifications
- Landlord/owner review
- Door hangers

#### **Early Stage**

- Segmented/Tailored programs. communication. & treatments
- · Letter/call/email/text notification
- by customer preferred channel outreach and self-service channe
- Affordable pay arrangements
- · Payment options/processing
- financial aid deferrals
- bill credits flat rate
- · Engagement commitment



### **Driving customer behavior**









#### **Areas of focus**

#### Customer engagement:

- Keep customers engaged monthly
- Create targeted offers, communications, and outreach campaigns
- Make monthly notifications a requirement for payment program enrollment
- Evaluate and revise program terms and conditions

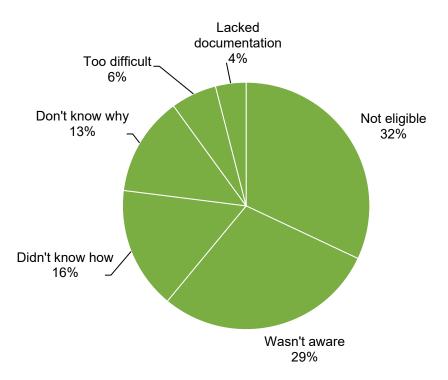


#### **Areas of focus**

#### Payments and loss:

- Financial assistance—
   community outreach and organizational partnerships
- Payment and credit
- Mitigate loss—arrears and write-off offsets
- Operational

#### Reasons for not applying for financial assistance



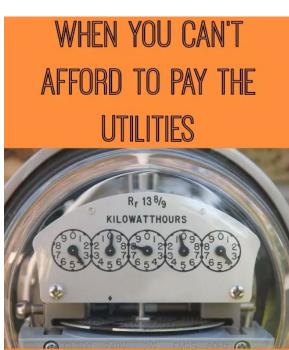
© E Source (Low Income Energy Issues Forum, February 2024)



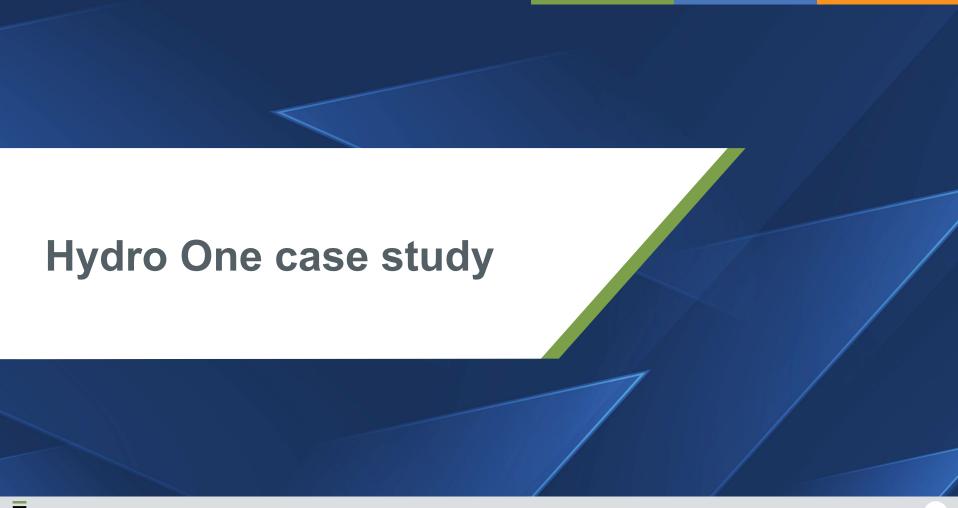
#### Areas of focus

#### Affordability and sustainability to **keep current**:

- Budget billing—payment distribution
- Financial assistance programs and payment arrangements—afford to pay back
- Rates—afford to pay
- Prepay—manage usage
- Weatherization—manage usage

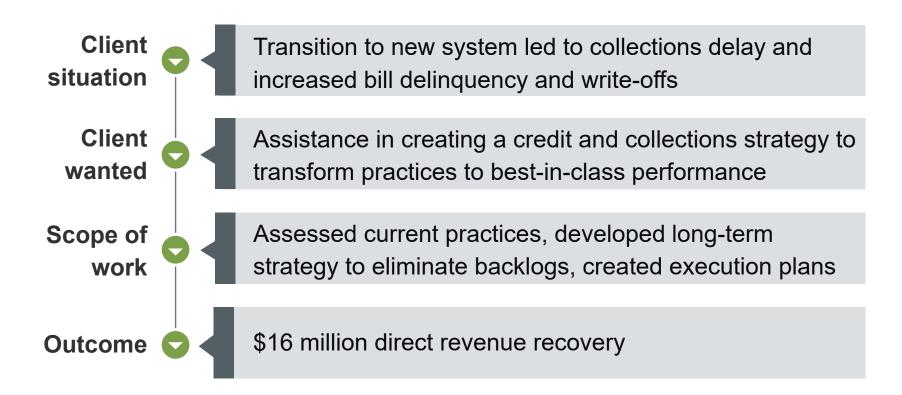








### Credit risk strategy, process realignment





### For more information, please contact



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