\*asae° mmc+tech Conference

### MAY 12-13, 2025 WASHINGTON, DC

WALTER E. WASHINGTON CONVENTION CENTER

# Data Visualization to Drive Engagement and Member Value

Sandstorm<sup>®</sup> Janna Fiester and Laura Chaparro

# THE FUTURE CREATER

# Hello, we're Sandstorm

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Janna Fiester she/her/hers Vice President of UX and Creative



Laura Chaparro she/her/hers Senior Account Director





## **About** Sandstorm

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Accessibility-certified, creative technology agency for 25+ years for **purpose-driven brands**  Association, nonprofit, healthcare & higher ed expertise

**Certifications:** CPACC (accessibility), DEIB, Drupal, Pantheon, Acquia, and WBENC (women-owned) Team leads with **decades** of experience

**Interdisciplinary team**: UX/UI, strategy, technology, data, Al

UX practice started by **Ph.D in human factors** in 2006

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# What's Ahead Today

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**Power of Visualization** 

**Opportunities for Association Engagement** 

7 Key UX Insights That Drove the Experience

Your Association's Next Moves





# What is data visualization?

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### ✓ A graphical representation of data

- ✓ Use charts, graphs, and maps
- More accessible way to identify trends, and patterns in data





# Why use data visualization?

### **DID YOU KNOW**

Interactive visualizations lead to a **60% increase in user engagement.** 

- ✓ Instant access to real-time, proprietary data
- Highly visual, interactive data exploration
- Quick view of KPIs
- Easily share insights across teams
- Better data understanding for smarter decisions

https://www.numberanalytics.com/blog/10-surprising-statistics-modern-data-visualization-trends





# Why does it fail?

**DID YOU KNOW** 

BARC survey revealed that **only 20% of dashboards achieve widespread adoption** within organizations.

### X Bad UX or UI

- X Does not reflect an organizational need
- **X** Lack of context leading to misinterpretation
- X Too much data with no interactivity
- X Inaccurate or outdated data

https://www.dataversity.net/putting-a-number-on-bad-data/





# **Opportunities** for associations

### **DID YOU KNOW**

Companies leveraging modern data visualization have, on average, experienced a 20% boost in overall business growth. Monetize your proprietary research

- Create non-dues revenue streams
- Attract new audiences media, public, etc
- Showcase industry leadership
- Share timely, valuable insights

https://www.numberanalytics.com/blog/10-surprising-statistics-modern-data-visualization-trends

















### \*Flourish







Redesign in Action: Deloitte Insights' ConsumerSignals

- Static data with limited interactivity
- Lacks context for interpretation
- Unclear or missing timeframes
- Outdated or hard-to-read visuals



marketing, membership, communications + tech

Search

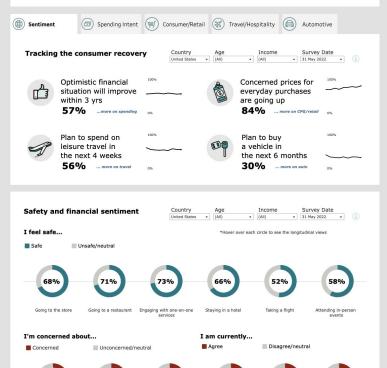
Deloitte.

### Global State of the Consumer Tracker

As pandemic concerns gradually begin to ease, consumers confront new challenges in the form of inflation and geopolitical uncertainty. The Deloitte Consumer Industry center continues to collect data to better understand the shifts in the current consumer mindset and explore the potential implications for an ever-evolving post-pandemic world.

For more than two years, we've been exploring shifting priorities, financial well-being, share-ofwallet spending intentions, climate change attitudes and more. This exploration continues to prompt new questions, new data, and new insights.

Deloitte's Global State of the Consumer Tracker is an online panel survey fielded monthly across 23 countries. Monthly waves target sporkmately 1,000 adults (18 years and older) in each country. The country level approximate margin of error is 4/-3%. Responses are weighted at the country level to mirror publicly available sources of age, gender and income distribution. India and South Africa are only weighted by age and gender. Response data from India and South Africa are likely to be over expresentative of urban, higher income populations.



We conducted in-depth user research to inform the new ConsumerSignals Dashboard

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- Design-Thinking
   Workshops
- ✓ User Research
- ✓ Competitive Analysis
- ✓ User Personas
- ✓ User Journeys
- ✓ UX/UI Design
- ✓ Usability Study
- Accessibility
   Compliance





### **Overview of the Personas**



The **section** is always **hunting for the next new, creative idea**. They are constantly **looking to the future** and **getting ahead of the competition** by changing the playing field.

The goes to Deloitte Insights to back themselves up when they are trying to convince The



The **second second seco** 

The turns to Deloitte Insights to access the latest information on compliance and industry best practices.



The **is** invested in **staying compliant and implementing best practices**. Not concerned with trends, their primary focus is **how to correctly execute tasks** associated with their daily work or **implement directives** passed down from senior leadership.

The goes to Deloitte Insights to understand the current landscape to ensure that what they're about the implement makes sense.







**Anu is a 29-year-old in accounting who lives on her own in the city.** She works from home in a room full of houseplants. Anu plays club volleyball on the weekends and is training for her fourth marathon.

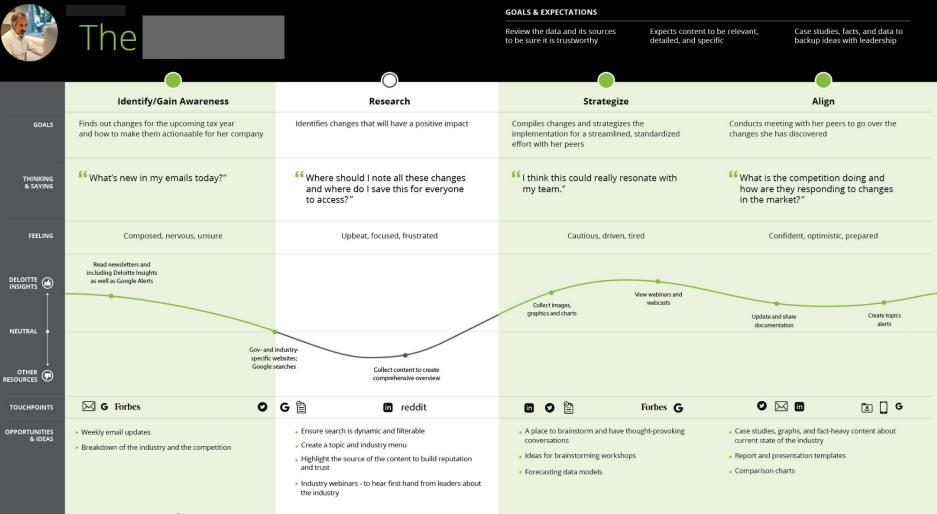
Anu is a meticulous fact-checker and the one people on her team rely on to get things done. She pays close attention to new guidelines, standards, and rules so that she always stays within compliance. Anu often conducts deep and specific research, which she then summarizes for her team.

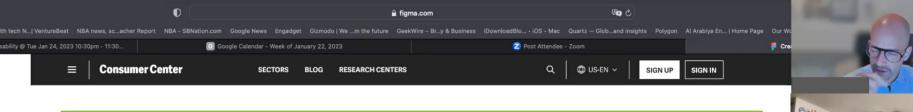
A good day for Anu is one where she can check ten things off her to-do list. She values evidence, facts, and concrete benchmarks against which she can update her tasks and processes. She always looks for places to streamline and organize. In short, Anu dives into the details to ensure she and her team are efficient.











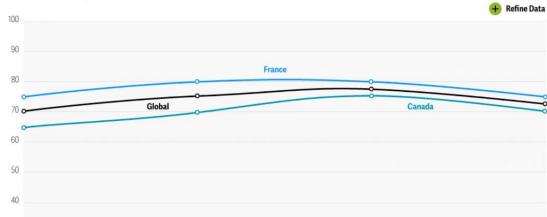
UPDATED DECEMBER 16, 2022

### **Global state of the consumer tracker**

Deloitte's online monthly panel surveys consumers across 24 countries, targeting 1,000 adults per country (18 years and older).

### **Global Financial Wellbeing Index**

Consumer perception of personal financial wellbeing (12-items presented as an indexed score)





SHARE COLLECT

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4 in 10

Consumers feel their financial situation worsened over the past year

### 1 in 3

Optimistic that their situation will improve next year





# 7 Key UX Insights That Drove the Experience



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# Presenting timely insights

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Show the most recent update date

Add a short summary or intro to orient users

Highlight key takeaways at the top

UPDATED MARCH 2025					\$
ConsumerSig	gnals		Global financ	ial well-being	
behind it. Every month, we survey the about their sense of financial well-beir	Noration of consumer spending behavior an- susands of consumers across more than a do 19, spending intentions, and upcoming purcl cery store to upcoming vacations, next vehic	ozen countries hases big and		ancial well-being index decreased to th, and down from 103.0 a year ago.	o 102.4 in February, down from
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spending strategies being used to navia	als provides a view into consumers' everyda gate an unpredictable world. We invite you of proprietary consumer indices, and deep-4	to explore our	TS		
spending strategies being used to navig interactive data dashboard, collection	gate an unpredictable world. We invite you	Units to explore our dive articles.		Travel & hospitality	Automotive
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# Presenting timely insights

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Provide in-context ways to explore deeper details

Use tooltips to explain research methods and data sources

UPDATED MARCH 2025						∽ ⊻
ConsumerSignals is a longitudinal exp ehind it. Every month, we survey tho bout their sense of financial well-bein mall—from their next trip to the grou- nore. Now in its fourth year, ConsumerSign, pending strategies being used to navig treaterive data dashboard, collection	loration of consumer spending bel usands of consumers across more ug, spending intentions, and upcon ery store to upcoming vacations, i als provides a view into consumer: gate an unpredictable world. We ip	than a dozen countries ning purchases big and next vehicle purchase, and s' everyday finances and the voite you to explore our	<b>102.4</b> The global	fina	<b>ial well-being</b> ancial well-being index decreased to th, and down from 103.0 a year ago.	1024 in February, down from
IRANCIAL AND SPENDING SENTIMENT Financial well-being mancial well-being sentiment ontimes to recover from 2022 lows. Sut the recovery's pace is losing nomentum. Explore financial well-being	Spending intent The recovery in financial sentim yet to translate to stronger discretionary spending intentior in 2024. Explore spending intent	Learn More Research methodology Online cosumer panel N=1,000 consumers per cou wave, adults age 18- Country margin of error a3 apply to averages of two or mo countries) Response data for Australia France, Germany, Italy, Japan, Netherlands, South Korea, Spa Kingdom, and the United State weighted at the country level to publicly available age and in profiles Response data for Brazil, Cl	6 (does not re study , Canada, in, United is are kccording come	ny in	<b>Travel &amp; hospitality</b> While a run of strong leisure travel intent shoues signs of easing, many continue to prioritize leisure travel abead of other discretionary categories. Explore travel & hospitality	Automotive Global vehicle purchase intent shows mixed signal across key markets. Explore automotive
Financial well-be Deloitte's financial well-being index (I present-day financial health and future often focus on consumer opinion about	FWBI) captures changes in how co e financial security. Unlike consun et economic conditions (e.g., healt	Mexico, and South Africa, are in weighted by income. Data repu- higher-income consumers con national income distributions. and weighting are used to holo income distributions consisten wave	esents npared to Soft quotas I sample			œ

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# Insight 2 Curated, Personalized Content is Key





# Curated content based on industry

Deloitte

deloitte.com/insights

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Ability to access curated content by industry sector

Available at the top of the page

And through the table of contents

UPDATED MARCH 2025					<
behind it. Every month, we survey th about their sense of financial well-be	gnals ploration of consumer spending behavior at ng, spending intentions, and upcoming pur cerry store to upcoming vacations, next veh	lozen countries chases big and		<b>ial well-being</b> uncial well-being index decreased t th, and down from 103.0 a year ago.	o 102.4 in February, down from
spending strategies being used to nav	tals provides a view into consumers' everyc gate an unpredictable world. We invite you of proprietary consumer indices, and deep	to explore our			
spending strategies being used to nav	igate an unpredictable world. We invite you	to explore our	HTS		
spending strategies being used to nav interactive data dashboard, collection	igate an unpredictable world. We invite you	1 to explore our -dive articles. 🚯		Travel & hospitality	Automotive













# Interactivity to increase engagement sandstorm

Data points are enhanced with hover states

Ability to manipulate data by filtering



Deloitte. deloitte.com/insights

#### KEY TAKEAWAYS

The global financial well-being index decreased to 102.4 in February, down from 103.1 last month, and down from 103.0 a year ago.

DIVE DEEPER

Global financial well-being: A robust recovery losing momentum ARTICLE • 8-MIN READ



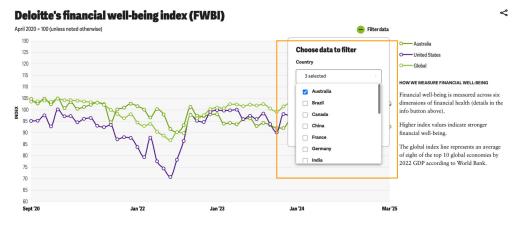


# Supporting deeper exploration

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Allowed for additional filter capabilities

Shared related content to allow users to dig deeper



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KEY TAKEAWAYS

The global financial well-being index increased to 102.9 in March, up from 102.4 last month, and no change from a year ago.

Note: Our most recent survey was fielded before the reciprocal tariff news came out.

DIVE DEEPER

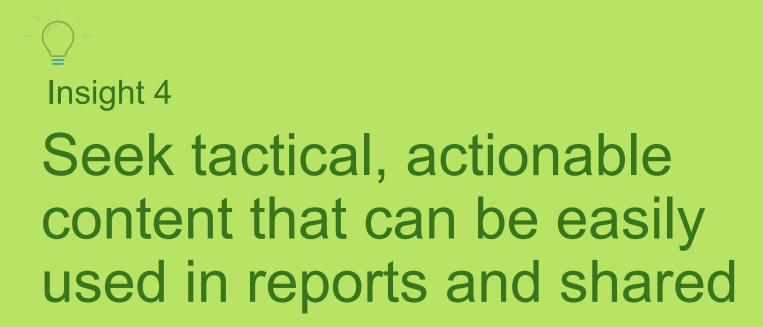
Global financial well-being: A robust recovery losing momentum ARTICLE • 8-MIN READ

Consumers navigate financial ups and downs ARTICLE • 4-MIN READ













# Making content easy to share

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Graphs are branded for and designed in a format for presentations

Methodology and the key are presented together

Ability to share each chart









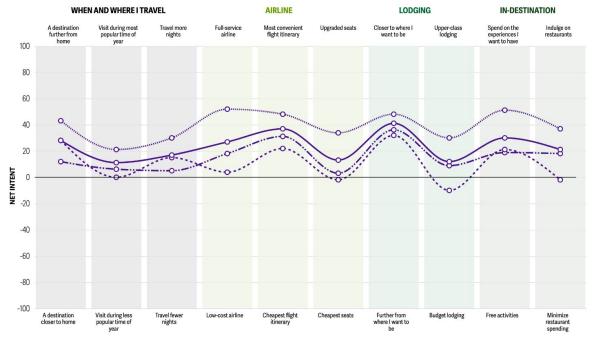






### **Travel planning (net intent)**

Which statements best describe how you're thinking about your next leisure trip? (among survey respondents planning to travel for leisure within the next three months)





#### METHODOLOGY NOTE

+ Filter data

Net intent represents the percentage of survey respondents that selected the more expensive trip option (top row) minus the less expensive trip option (bottom row).

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### **Splurge purchases**

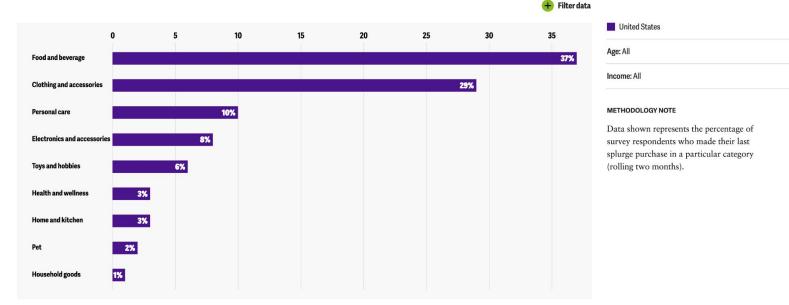
Insight into where consumers are splurging, how much they're spending, and what's driving it

#### KEY TAKEAWAYS

69% of US respondents in March made at least one splurge purchase to treat themselves, down from 70% from last month, and down from 82% a year ago.

### US\$50

Median amount of last splurge purchase



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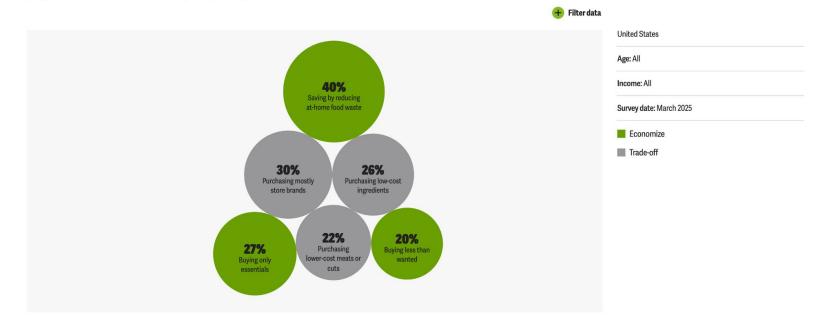


### Food frugality behaviors

Explore the cost-saving behaviors that comprise Deloitte's FFI (1)

#### KEY TAKEAWAYS

Globally, saving by reducing at-home food waste and only buying essentials are among the two most popular ways consumers continue to navigate higher food prices.



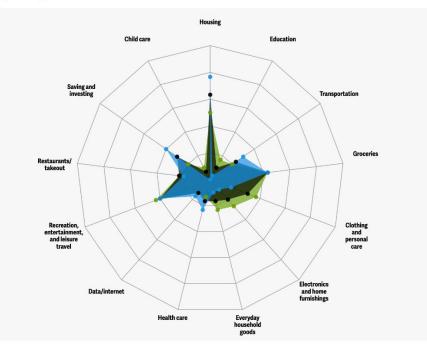
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THE FUTURE CREATE 70 30

### Share of wallet

#### Estimated monthly spending amount 🚯



Filter data
United States
Age: All
Demographic: Age
18-34
35-54
55 and over
METHODOLOGY NOTE

Child care category added in March 2022.

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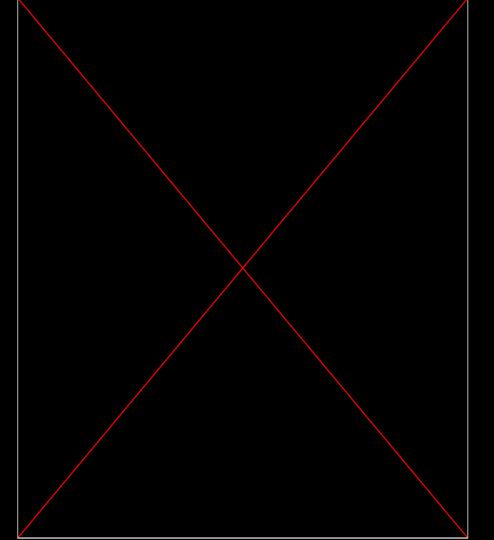
















# Accessibility is still key





## Accessibility as a Design Imperative

WCAG 2.1 standards influenced color, contrast, and interactivity

Corporate line styles + markers to differentiate data

### **Chart Styles**

Switzerland

UAE United Kingdom



Line Styles



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**Marker Styles** 

-----



51% increase in traffic

**170%** more file downloads

**22%** reduced bounce rate

 $\mathbf{8x}$  increase in scrolling through the dashboard





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Communications Arts Interactive Media



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# AND ConsumerSignals is the most visited page on all of Deloitte properties





### FUTURE ENHANCEMENTS Integrate AI

- Al-powered search with natural language query
- Insight summaries for non-technical users
- Chat-based guide to navigate data and understand terms
- Predictive analytics





### TAKEAWAYS Driving Member Value Through Better Data Visualization

- Personalization drives engagement
- Context build trust
- ✓ Design influences adoption
- / Deeper exploration adds value
- Reinforces your authority in the industry







# Email us to get the deck

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Laura Chaparro Ichaparro@sandstormdesign.com





### **Complete Your Session Evaluation**





