



Boosting Your Bias Immunity

LAUREN ISAACSON

Market & UX Research Consultant

Curio Research

Character Reference

You're who? You do what?

Lawful Good

Neutral Good

Chaotic Good

Lawful Neutral

True Neutral

Chaotic Neutral

Lawful Evil

Neutral Evil

Chaotic Evil

Character Reference

You're who? You do what?



Research Polymath

Numerating and Talking

Quantitative Research

Understanding what
and how much



Types of Primary Research



Qualitative Research

Understanding what
and why



WHAT IS BIAS



WHY WE ARE BIASED



AVOIDING BIASED QUALITATIVE RESEARCH



AVOIDING BIASED QUANTITATIVE RESEARCH



AVOIDING BIASED DECISIONS



What Is Bias?

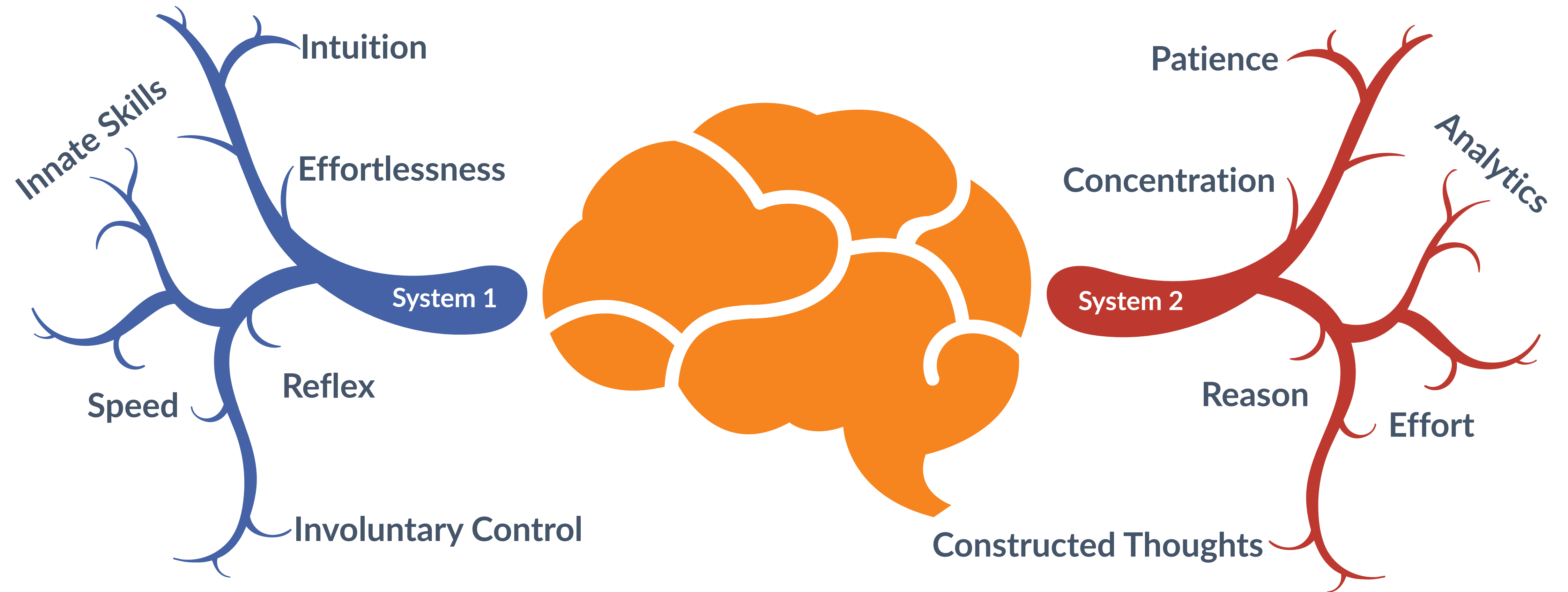
Seeing is not necessarily believing

“A cognitive bias refers to the systematic pattern of deviation from the norm or rationality in judgement, whereby inferences about other people and situations may be drawn in an illogical fashion. Individuals create their own ‘subjective social reality’ from their perception of input.”

—Wikipedia

Thinking Fast and Slow

The foundation of behavioural economics



Move Fast and Break Things!

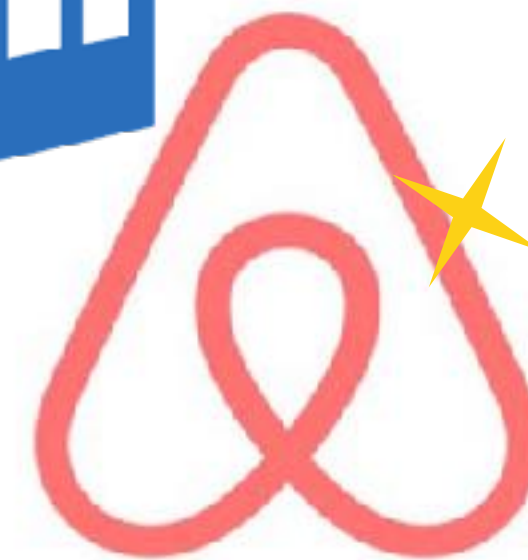
And Fix Them Only If It's In Our Financial Best Interest

Disrupting Hotels

When is a house not a home?

Sharing Living Spaces

Allow people to rent out spare bedrooms or entire homes to tourists.



Income & Ease of Travel

Hosts make extra money and travellers can stay somewhere cheaper and often more authentic than a hotel. Win Win.

Mass Gentrification

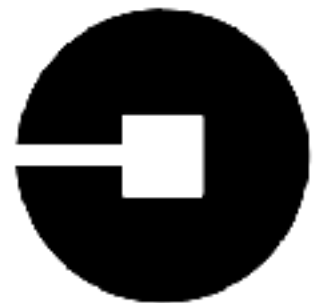
What happens when a place to live has more economic value as a place for tourists to stay?

Disrupting Urban Transit

When taxis compete with mass transit, who wins?

On-Demand Ride Hailing

Turning under-utilized vehicles into income generators. Bringing mobile tech to the often frustrating taxi experience.



UBER



New Income & Ease of Intercity Movement

Drivers have a new source of extra or primary income. Riders can get from place to place with the simplicity of a well designed app.

Increased Traffic & Imperfect AI

More single person car trips for higher traffic and letting AI choose between killing pedestrians or riders

Disrupting Newspaper Ads

No local ads means no local journalism

Offer Free/Cheap Ads

Offer online ads and means of communication for people and businesses to communicate directly with each other.



craigslist

Peer2Peer & SMB Ads Get Direct

It's easier for individuals to advertise to others. SMBs can target and communicate with their customers directly.

Media Atrophy & Distrust

Local journalism is no longer viable. The public distrusts a media they no longer interact with.

Disrupting Justice

Do robots get hangry?

Objective Robot Judges

Use prior sentencing data to train computers to make objective judgements in criminal cases.



COMPAS



Objective Consistency

Judgements don't fluctuate with the time of day or whether the judge just ate. Machines don't bring emotion into decisions.

Uneven Fairness Baseline

The system is defined as fair, but the definition of what is fair differs. We see the system the algorithm is based off as fair, but what if it's not?

Why Are We Biased

To protect and serve

Primary Sources of Bias

Efficiency and Defence

Self Protection

Avoid bodily and ego harm



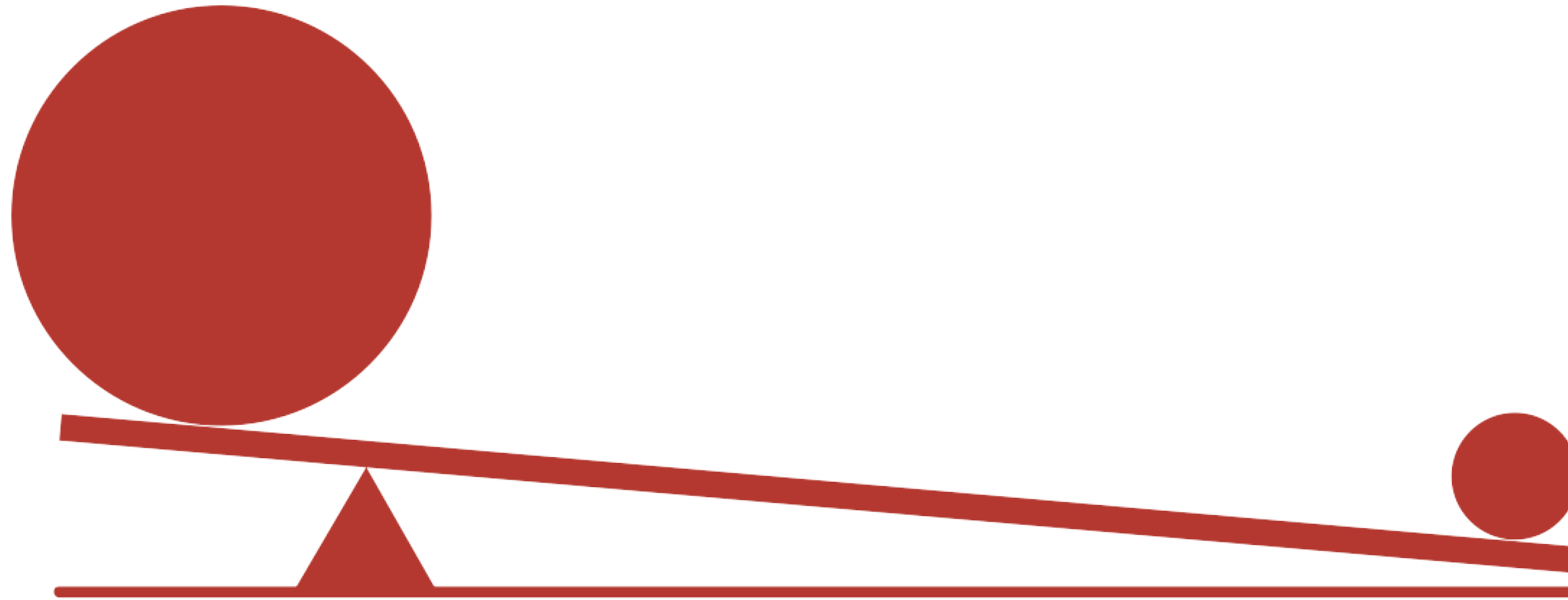
Efficient Decision Making

System 1



Bias is like polluted air

- Impossible to avoid, but filterable.
- Filtering requires identification of potential influencing biases.



How researchers leverage bias

Sometimes bias serves a purpose. For researchers, it can maximize the ratio of insights to data.

- We can't collect and analyze all data from everywhere.
- We intentionally bias our methodology, our sample selection, and the analysis to get most insight value from our research.



Types of Bias

Name Thy Enemies

The World of Biases

Using bias to understand bias

There are over 170 types of cognitive biases

The World of Biases

Using bias to understand bias

There are over 170 types of cognitive biases



ABUNDANT INFORMATION

Selective filtering
We can't take it all in



LIMITED CONTEXT

We can't know everything, so we fill in the gaps



LIMITED TIME

We need to act fast



LIMITED MEMORY

We can't remember everything, so what sticks?

Abundant Information

Selective filtering, we can't take it all in



Limited Context

We can't know everything, so we fill in the gaps



Limited Time

We need to act fast



OPTIMISM BIAS

We overestimate the probability of a positive outcome



BARNUM EFFECT

We connect things leaps through leaps of imagination because we don't have all the facts



DUNNING-KRUGER

When you're not an expert, there is a tendency to think layperson's knowledge is all there is

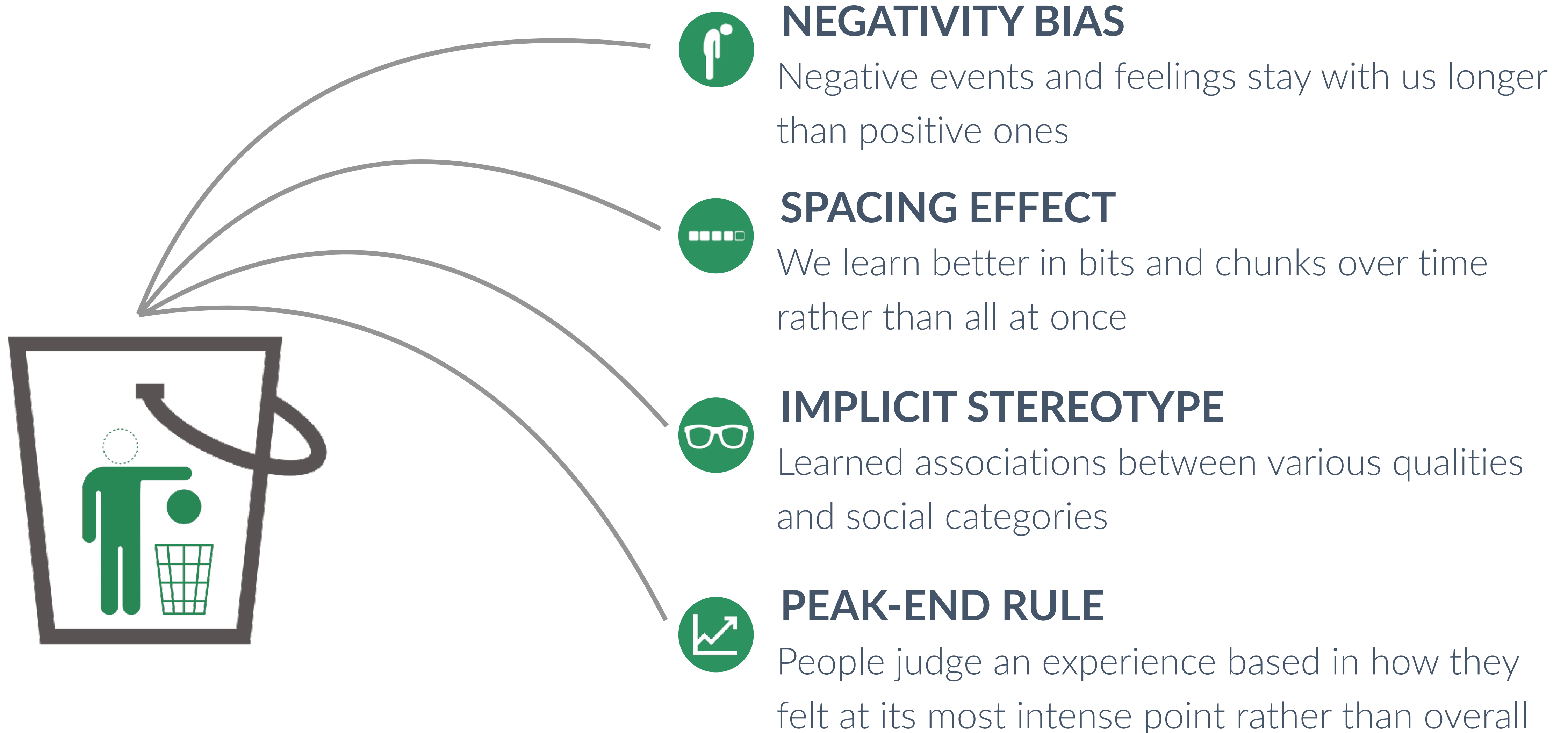


GROUPTHINK/BANDWAGON EFFECT

Opinions are based on fitting in with the group rather than evidence.

Limited Memory

We can't remember everything, so what sticks



Avoiding Biased Qualitative Research

That's interesting. Tell me more about that.

Confirmation Bias

- Don't test your own designs.
- Involve outsiders in the discussion guide approval process.
- Hire research agency or contractor for the project.



Research Bias

- Try to begin every questions with Who, What, When, Where, Why, and How
- Avoid Should, Would, Is, Are and Do You Think, unless you plan to have a follow up.
- Let the silence sit there.



Anchoring Heuristic

- Randomize the order of test stimuli
- Don't offer multiple choice questions
- Don't set baselines within questions.



Availability Heuristic

- Debrief. Debrief. Debrief. Make sure stakeholders are seeing the same things you are.
- Get transcripts of your interviews and analyze them thoroughly.



Interpretive Bias

- Restate ambiguous answers in your own words, but make sure the participant knows they have permission to contradict you.
- Don't let ignorance get in the way of understanding. Ask for clarification.



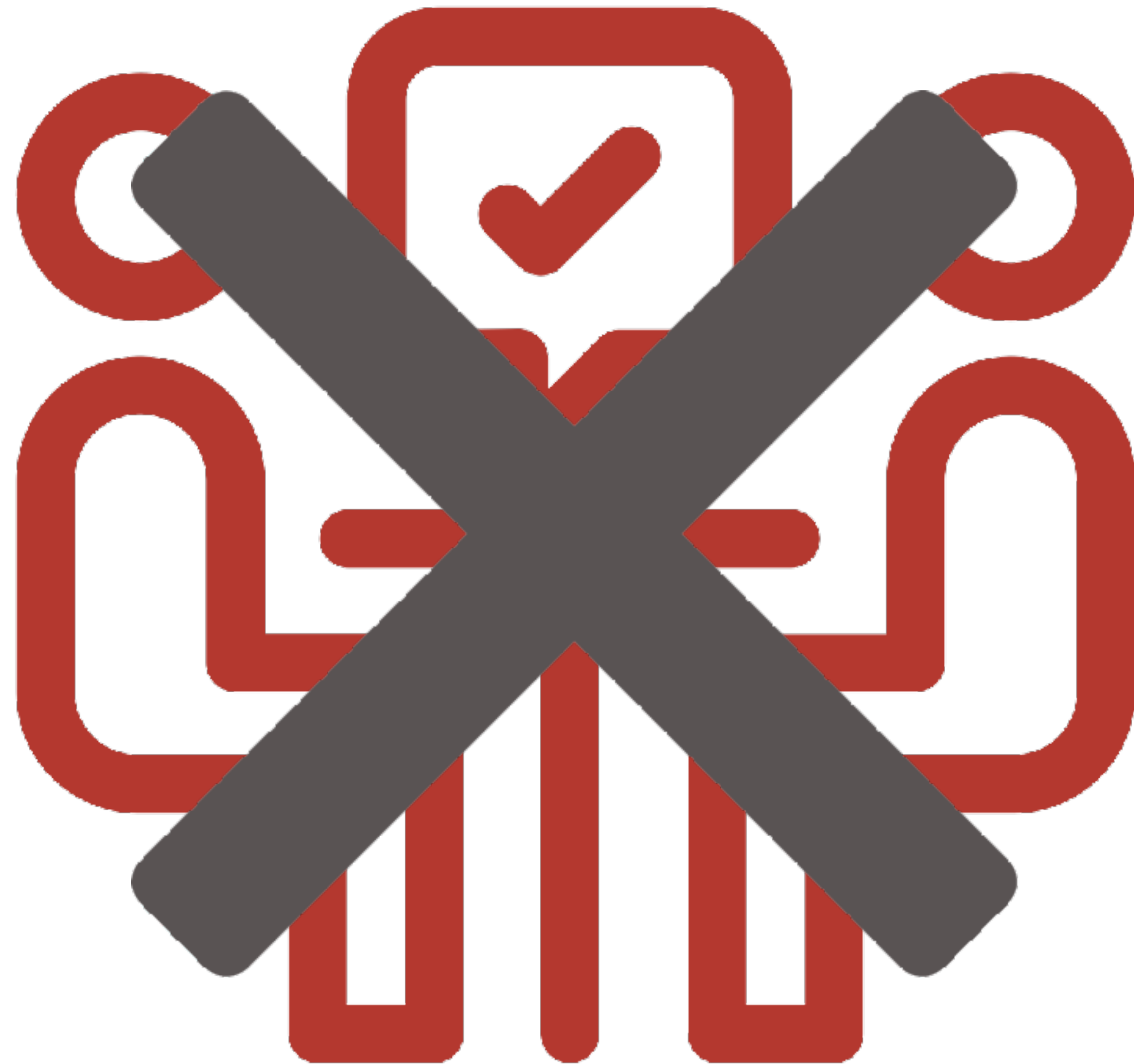
Be Self Critical, But Not Self Flagellating

We're all in a constant state of learning and improvement

Avoiding Biased Quantitative Research

Random probability sampling

Acquiescence Bias



- Avoid questions that ask respondents whether or not they disagree with you.
 - Yes/No
 - Agree/Disagree
 - True/False



Desirability Bias

- Don't ask people to report on their own consumption or behaviour in retrospect.
 - Get the by monitoring data in the moment or from a neutral third party



Sample Bias

- Use a sample size calculator to know how many respondents you need for statistical significance.
- Give up some control of how the respondents for your sample are selected.
 - Random number generators
 - Dice
- Use quotas to make the sample reflect the population.

Research Bias



- Word questions carefully.
 - Avoid leading, framing, and telegraphing
- Use red herring questions to increase your data quality.



Example Time!



Debiasing a Question

Debiasing a Question

What is your opinion on the following statement:

Jean Luc Picard was (will be) the best captain in Starfleet.

- ☐ Strongly agree
- ☐ Agree
- ☐ Neither agree nor disagree
- ☐ Disagree
- ☐ Strongly disagree

Debiasing a Question

What is your opinion on the following statement:

Jean Luc Picard was (will be) the best captain in Starfleet.

- ☐ Strongly agree
- ☐ Agree
- ☐ Neither agree nor disagree
- ☐ Disagree
- ☐ Strongly disagree



Debiasing a Question

Who was (will be) the best captain in Starfleet?

- ☐ James T. Kirk
- ☐ John Archer
- ☐ Benjamin Sisko
- ☐ Kathryn Janeway
- ☐ Jean Luc Picard

Debiasing a Question

Who was (will be) the best captain in Starfleet?

- ☐ John Archer
- ☐ Kathryn Janeway
- ☐ Jean Luc Picard
- ☐ James T. Kirk
- ☐ Benjamin Sisko



Randomize

Debiasing a Question

Who was (will be) the best captain in Starfleet?

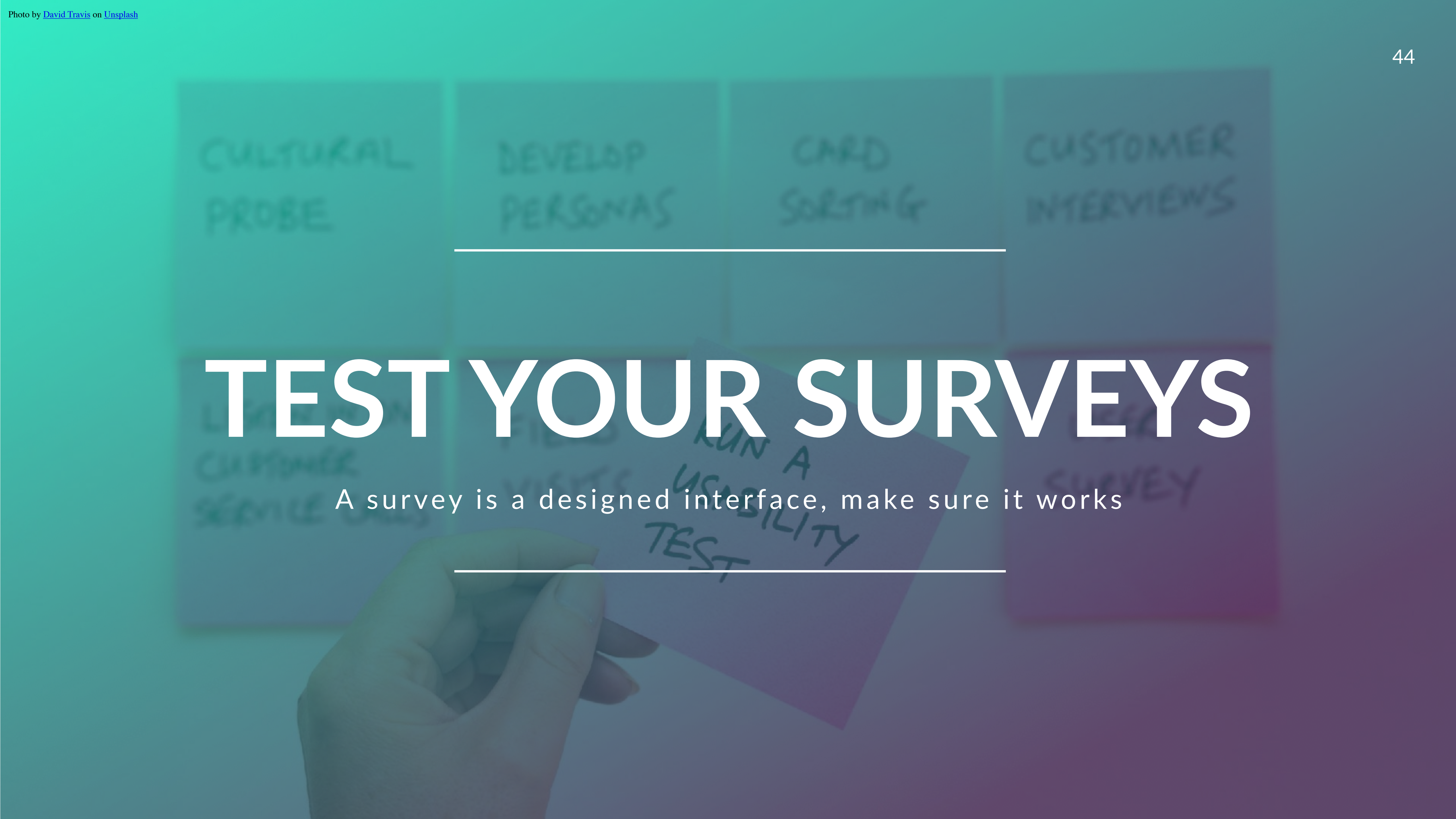
- ☐ John Archer
- ☐ Kathryn Janeway
- ☐ Jean Luc Picard
- ☐ James T. Kirk
- ☐ Han Solo
- ☐ Benjamin Sisko

Debiasing a Question

Who was (will be) the best captain in Starfleet?

- ☐ John Archer
- ☐ Kathryn Janeway
- ☐ Jean Luc Picard
- ☐ James T. Kirk
- ☐ Han Solo
- ☐ Benjamin Sisko





TEST YOUR SURVEYS

A survey is a designed interface, make sure it works



Avoiding Biased Decisions

Move at a steady pace and make good choices





REMEMBER

.....

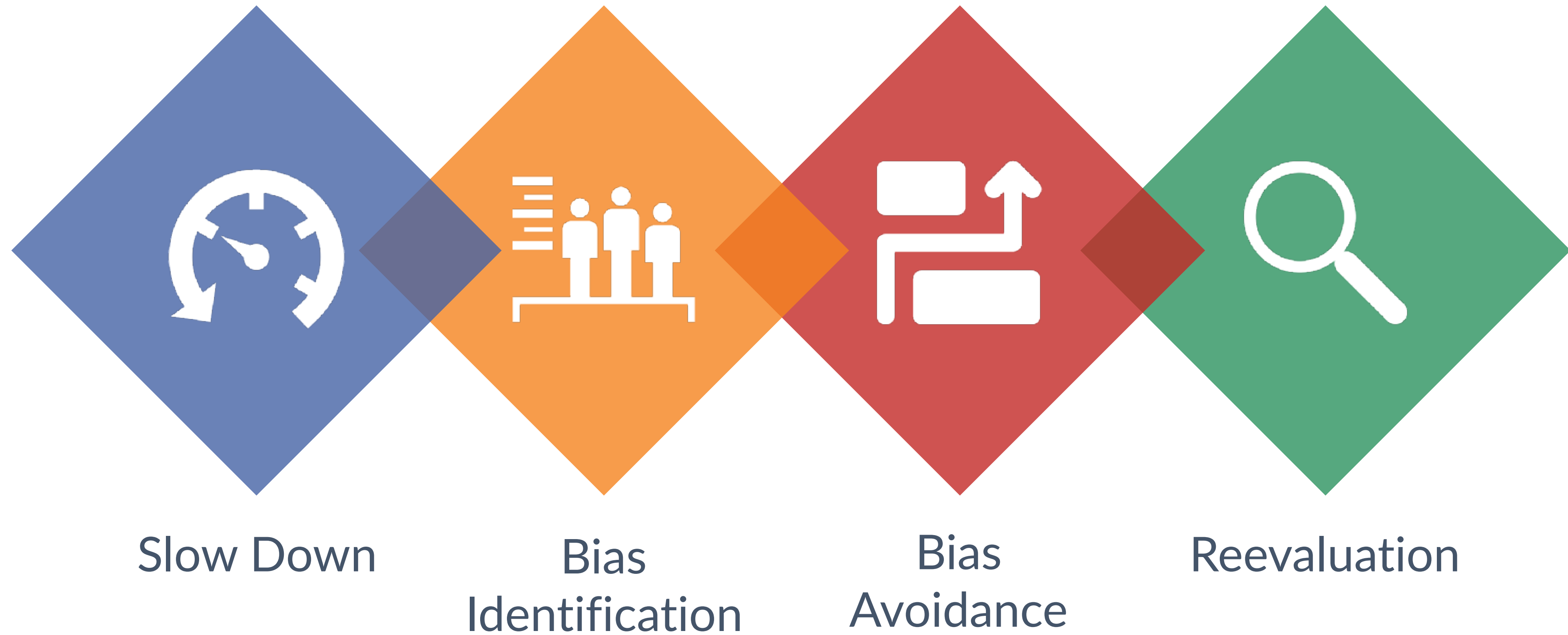
Bias is unavoidable, but it is
manageable

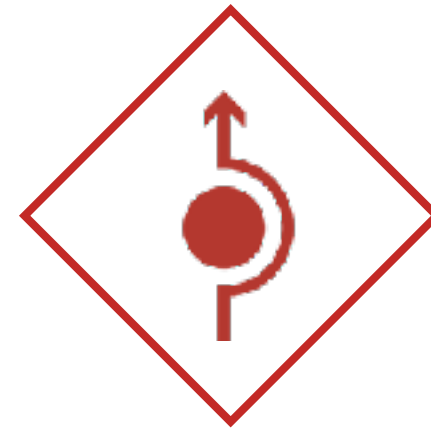
Think Like a Researcher

Disprove your hypothesis

Process Matters

I love it when a plan comes together





**Biases Are Avoided on Purpose,
Not By Accident**

Take Good Notes

It works for Comey, it will work for you



Write it down or it never happened



Get agreement on goals



What is the understanding of risk?



Revisit after the decision is in action

Don't Try to Control Everything

How do you reduce individual or group influence?



Secret Ballots



Individual Opinions



Reverse
Brainstorming



Outside Input



Uncomfortable
Questions



No HiPPOs



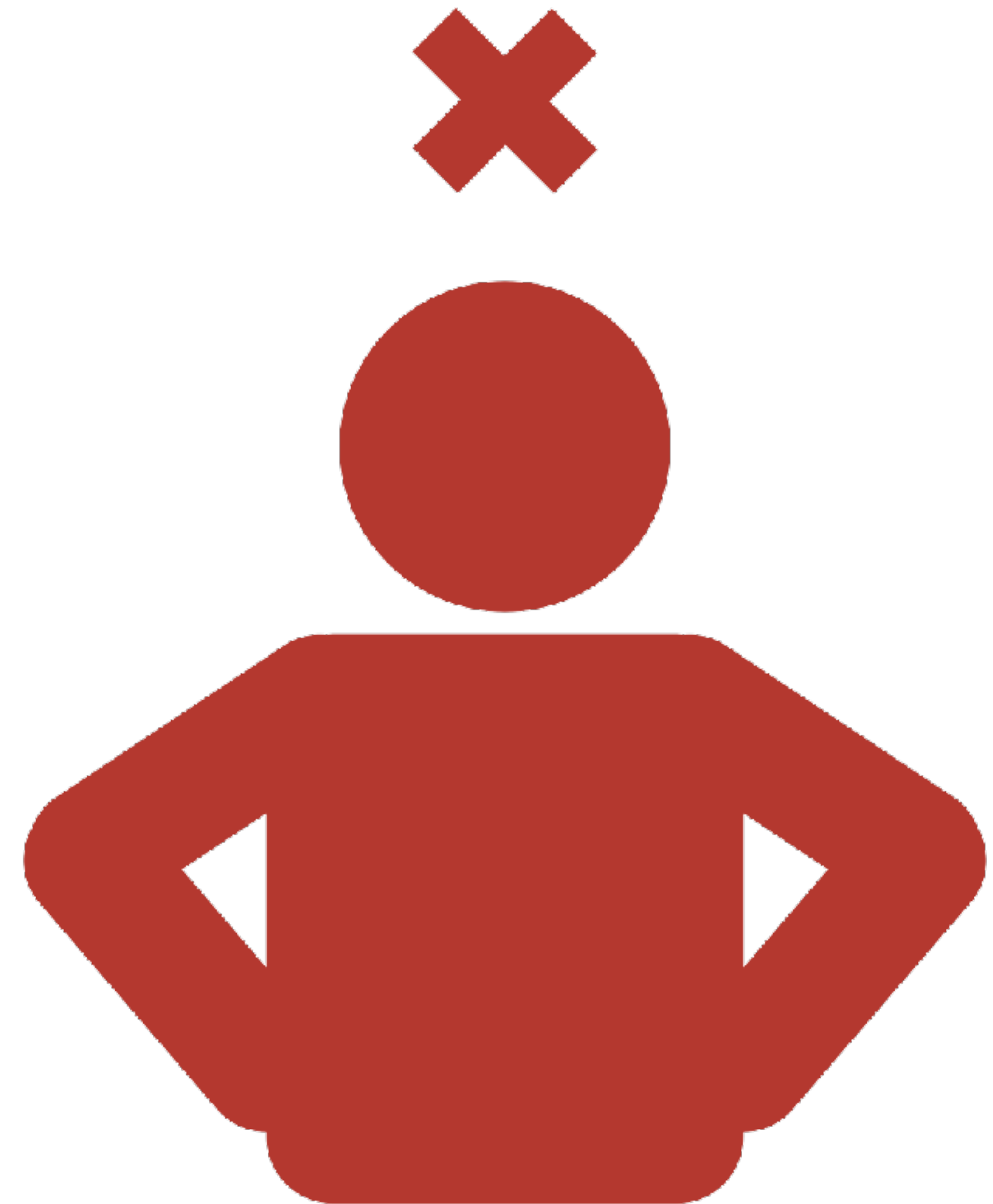
“ If we are all in agreement on the decision - then I propose we postpone further discussion of this matter until our next meeting to give ourselves time to develop disagreement and perhaps gain some understanding of what the decision is all about. ”

ALFRED P. SLOAN

CEO of GM

Hypotheses were made to be disproved

- Researchers don't try to prove their theories. They try to disprove them.
- If an idea can withstand counter evidence, it's probably a good idea.



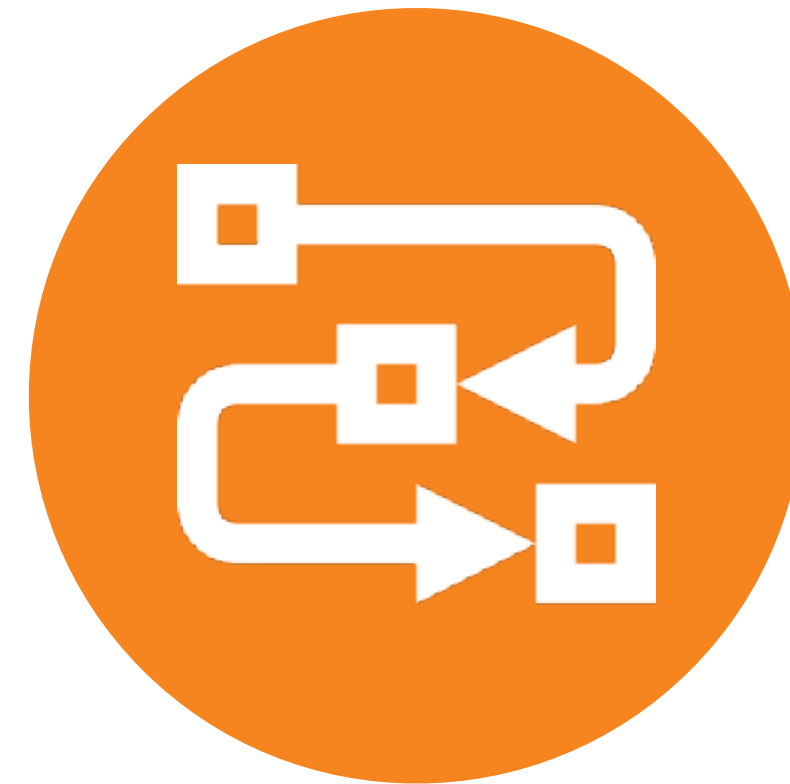
Think Like a Researcher

Yes, take a photo of this slide



What are the biases at play?

Abundant Information
Limited Context
Limited Time
Limited Memory



Have a process

Slow your roll
Identify potential biases
Avoid biases
Reevaluate



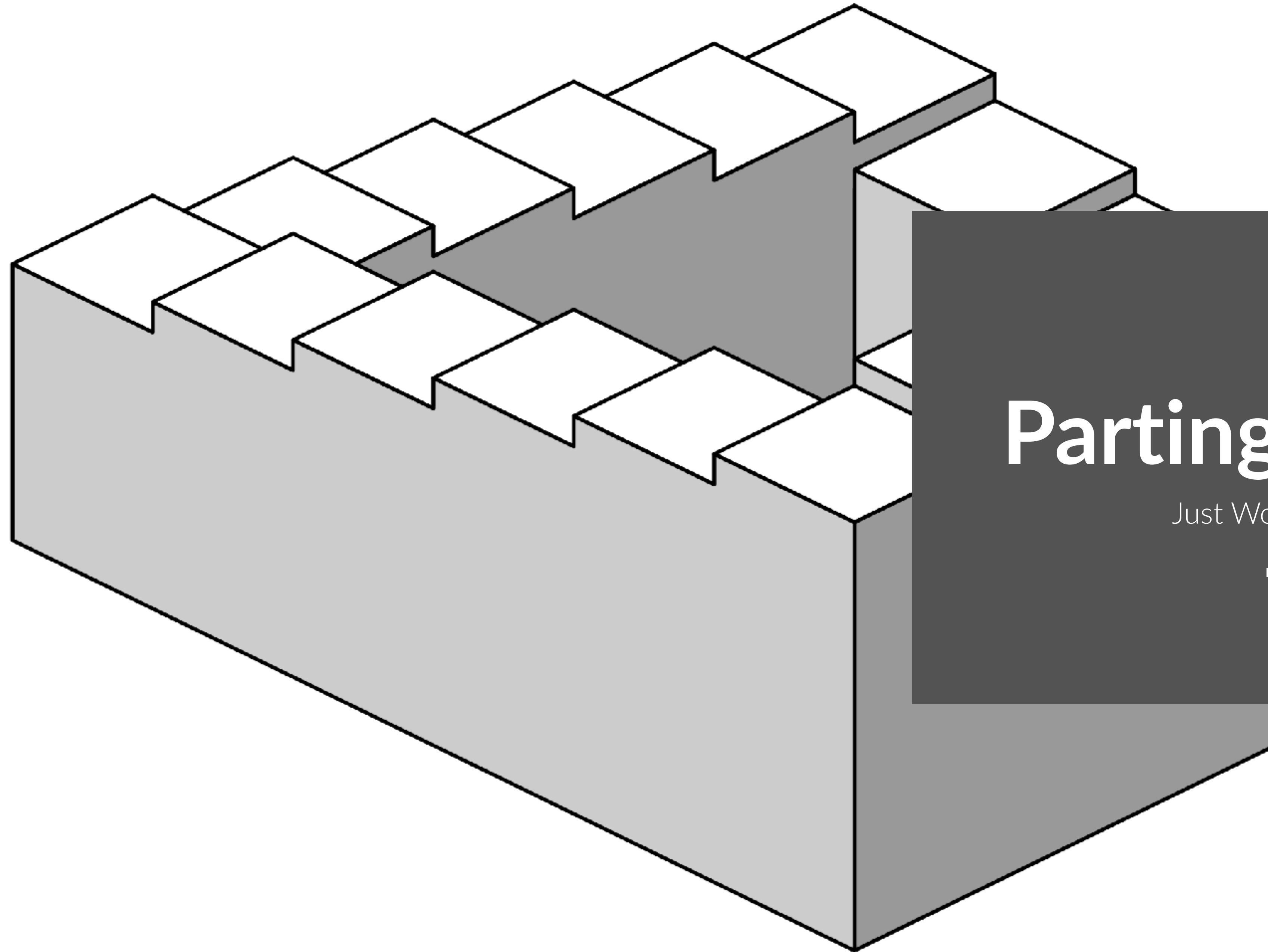
Take good notes

Record consensuses
Revisit after implementation



Be open to disagreement

Break echo chambers
Strong ideas withstand contrary arguments



Parting Thought

Just World Hypothesis









THANK YOU

LAUREN ISAACSON

@CURIO_RESEARCH

WWW.CURIORESEARCH.NET

