

Why don't people think like we think?

changing strategies to better engage with
changing communities.

Dr Craig Cormick



We are going to talk about....

1. What drives the different ways we think
2. Understanding ways to segment people in like-minded groups
3. Risk vs perceived risk
4. How values drive attitudes and values segments
5. How you use that knowledge to better engage with communities – via a case study

Quick poll

1. **Arachnophobia** – The fear of spiders (30%)
2. **Ophidiophobia** – The fear of snakes (30%)
3. **Acrophobia** – The fear of heights (10%)
4. **Claustrophobia** – The fear of small spaces (10%)
5. **Agoraphobia** – Fear of open or crowded spaces (5%)
6. **Aerophobia** – The fear of flying (8%)
7. **Any other...?**

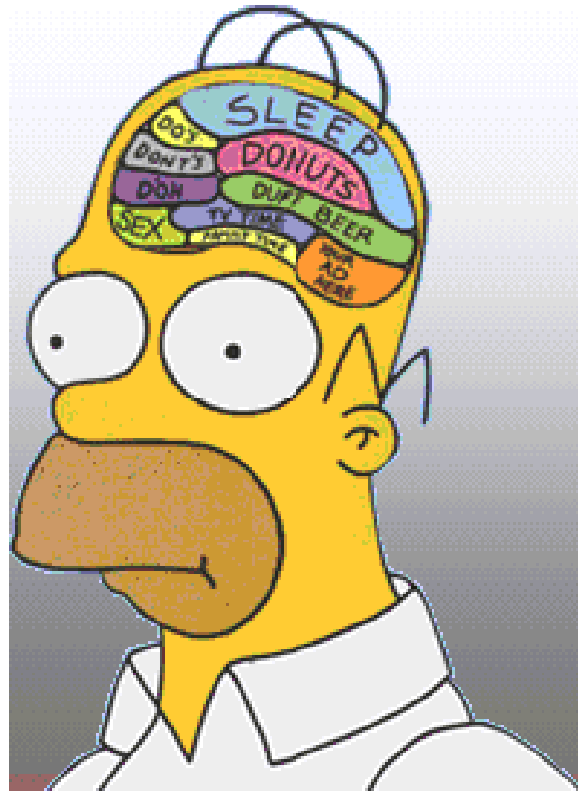
**Ask the person next to you –
‘What do you most fear?’**



Now tell them that their fear is completely illogical and counter to factual evidence of risk



Did that make any difference to the way they think?



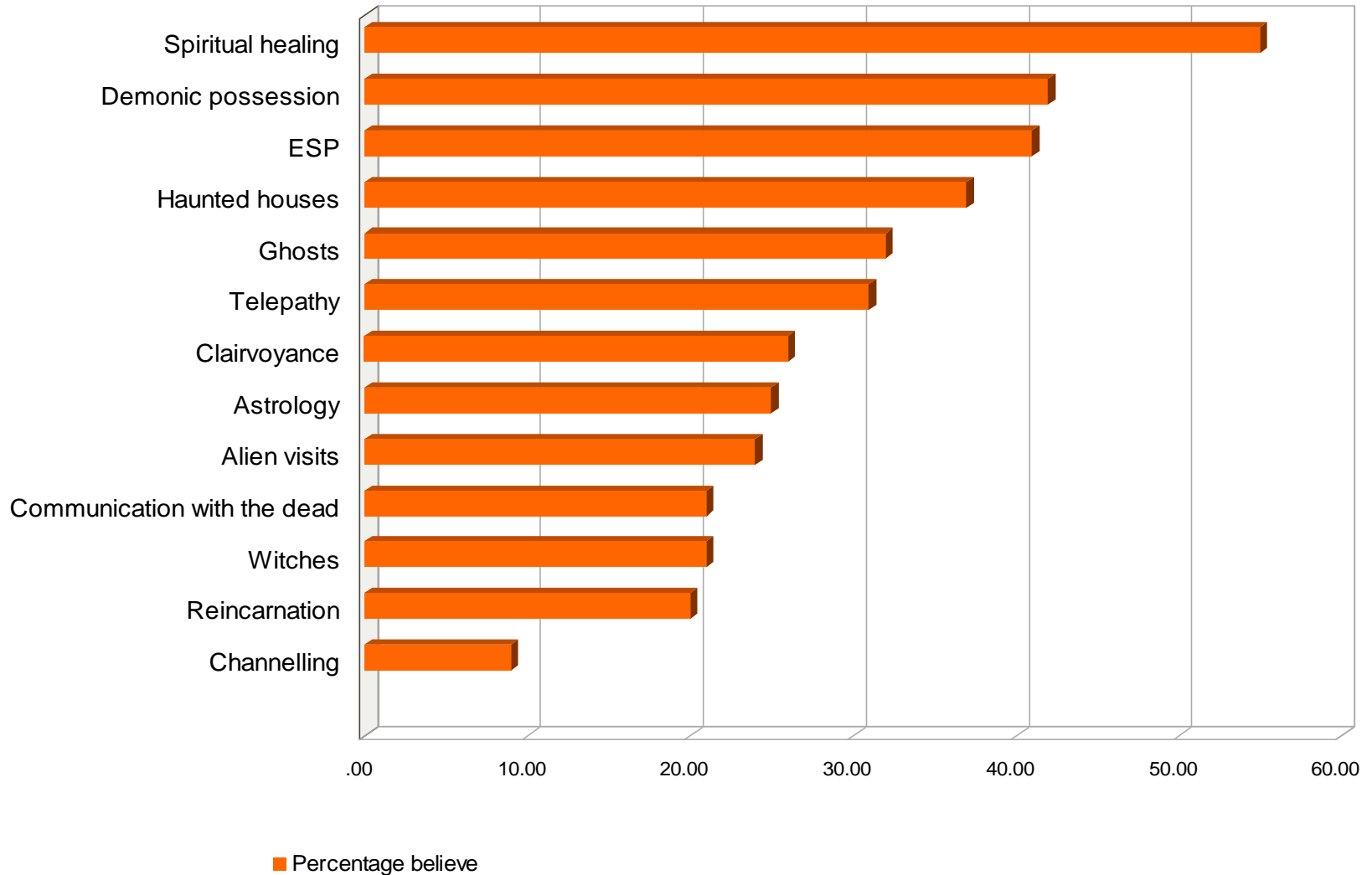
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Key learnings

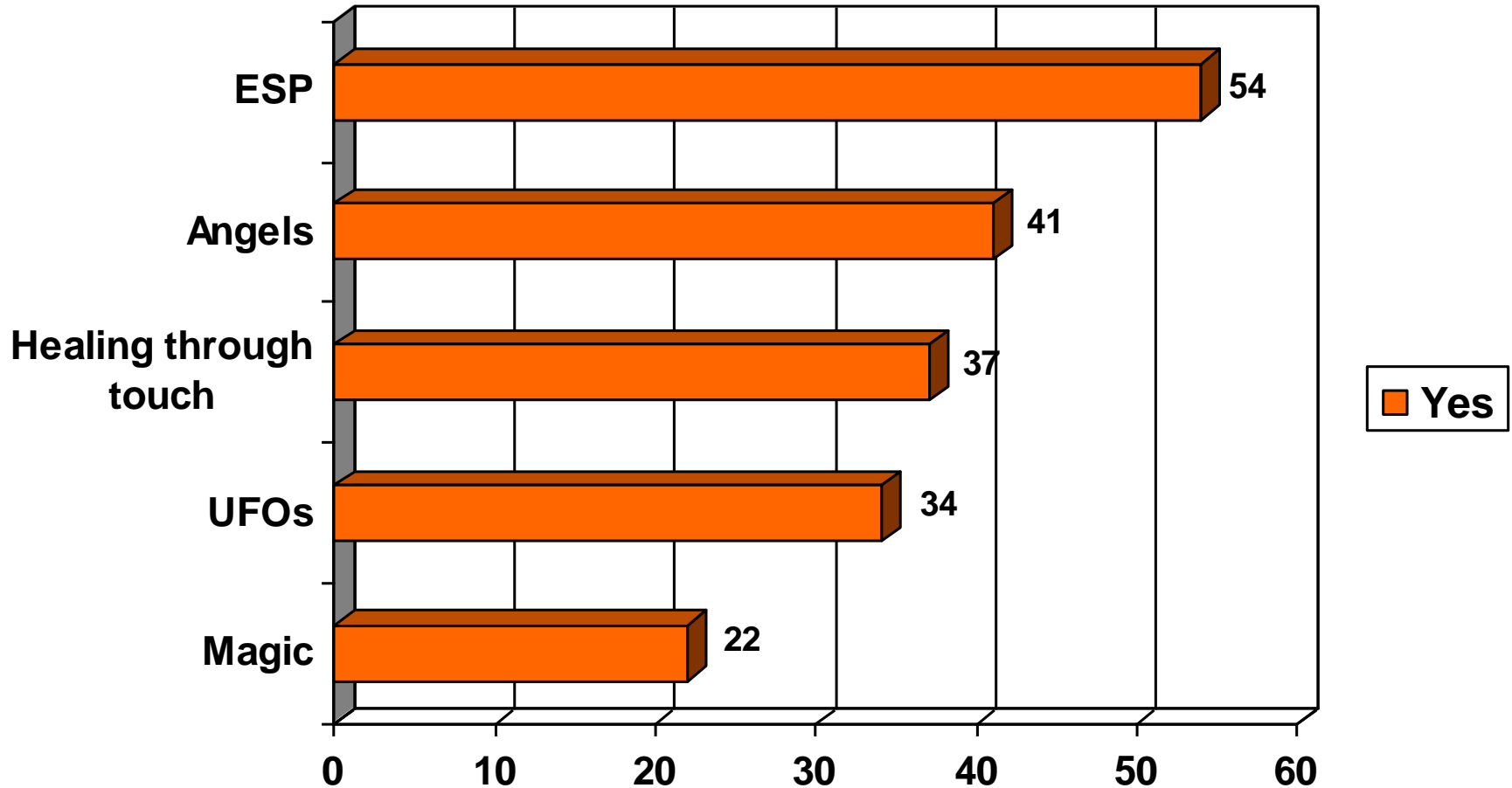
1. When **information is complex**, people make decisions based on their **values and beliefs**.
2. People seek **affirmation of their attitudes** (or beliefs) – no matter how fringe – and will **reject** any information or facts that are **counter** to their attitudes (or beliefs).
3. Attitudes that **were not formed by logic** are **not influenced** by logical arguments.
4. Public concerns about contentious science or technologies are **almost never about the science** – and scientific information therefore does little to influence those concerns.
5. People **most trust** those whose **values mirror their own**.

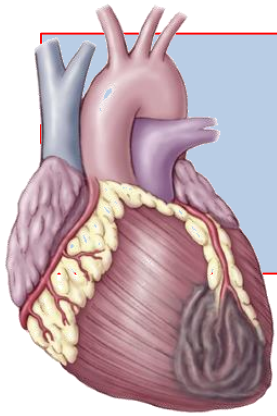
US Paranormal Beliefs



Australian Paranormal Beliefs

Do you believe in the existence of any of the following? (Aust)





The heart of the problem

- Is the way **we are wired** psychologically
- Leads us to **common errors** in our **thinking** that in turn leads to **distortions of perception, inaccurate judgments** or **illogical interpretations.**

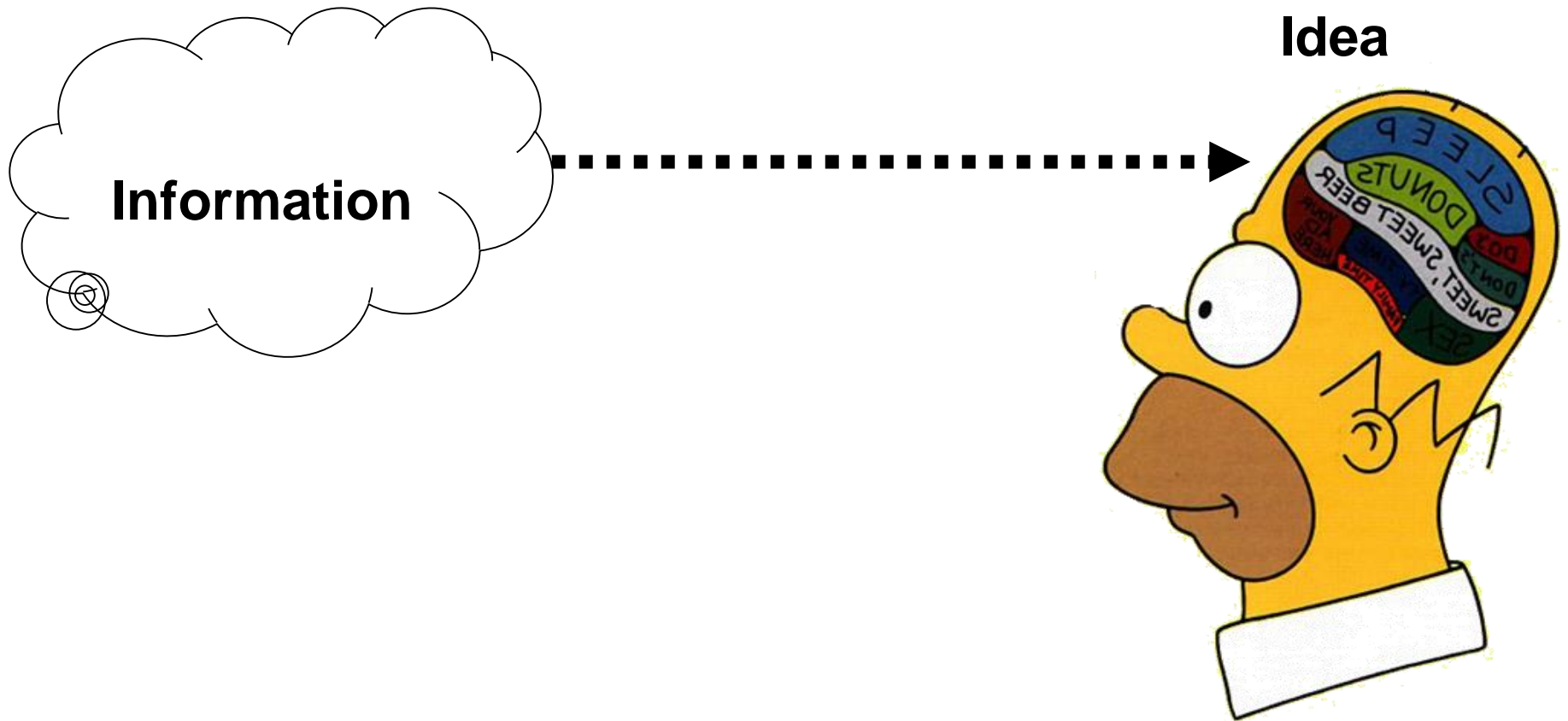


How we think

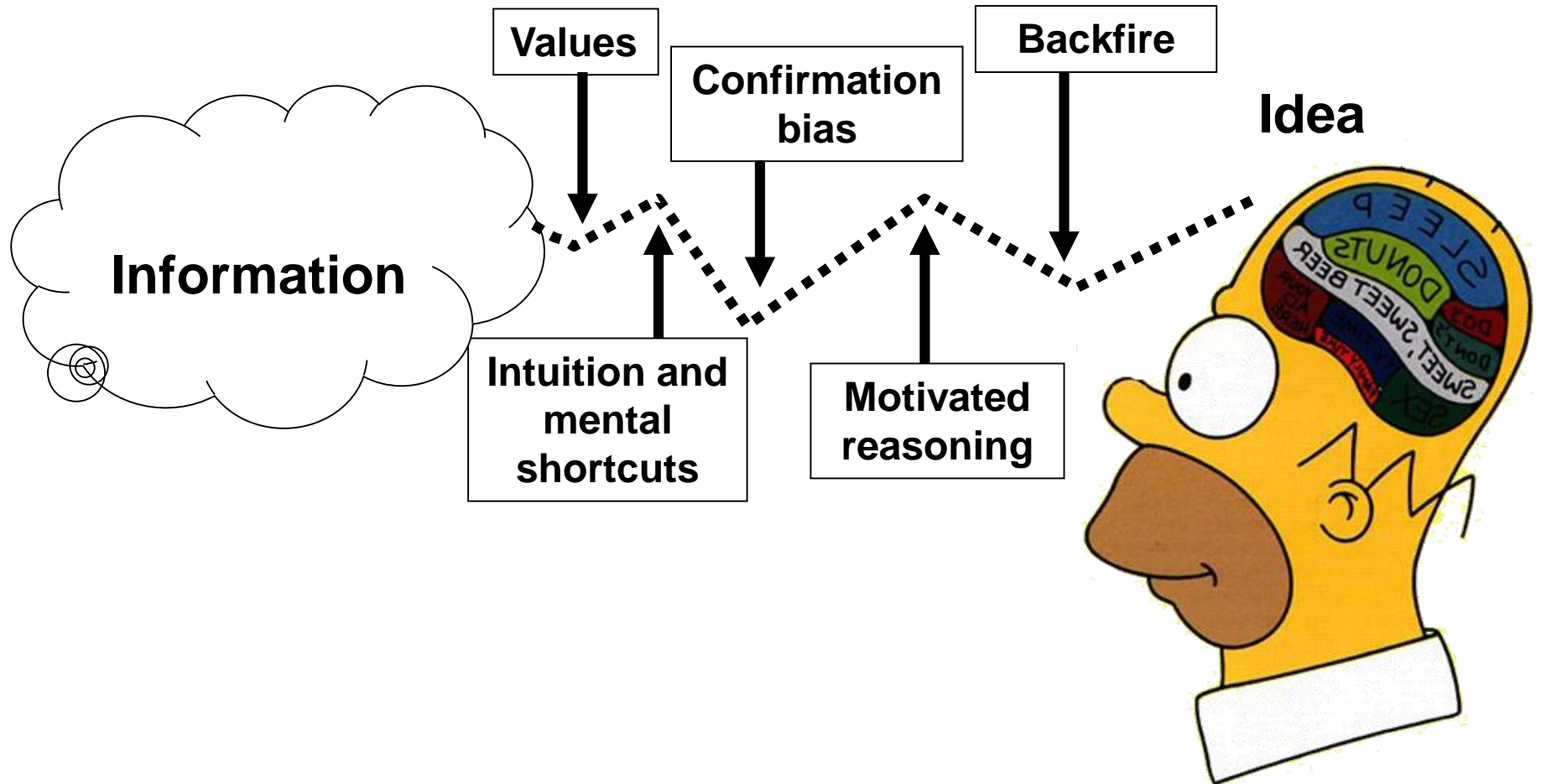
- When we are **time poor, overwhelmed** with data, **uncertain**, driven **by fear or emotion**, we tend to assess information on **mental shortcuts** or **VALUES** not **LOGIC**.
- And opinions that were **NOT formed** by **LOGIC** or **FACTS** are **not then** able to be easily **influenced by LOGIC or FACTS**.



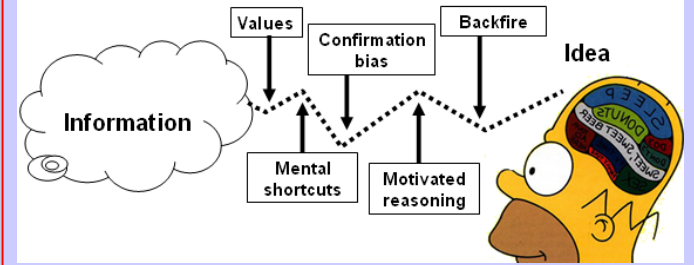
The fraught path of attitude formation



The fraught path of attitude formation



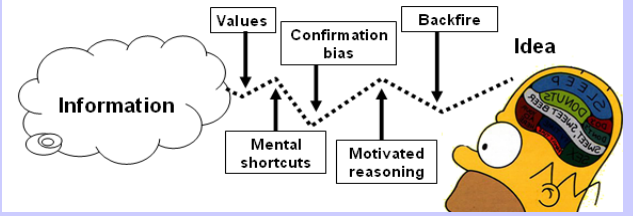
1. Intuition is unsuited to modern world



- Our **intuition** has served us well for **tens of thousands** of years.
- Has **stopped** us from stepping out of the safe cave into the **dangerous** dark of night.
- But it is **largely unsuited** to the **modern world**, leading to **superstitions, pseudoscience and beliefs** that are counter to **scientific evidence**.



2. Value driven attitude formation



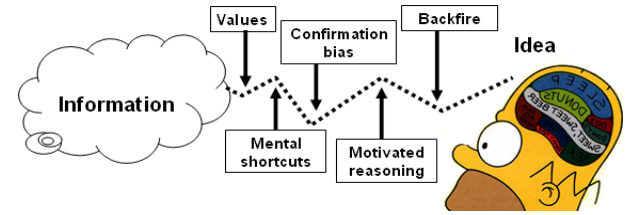
- Most people, when faced with an issue related to science and technology, adopt an **initial position of support or opposition**, based on a variety of **mental shortcuts** and **predisposed beliefs** rather than scientific evidence.

Eg: **Climate change denial** and **anthropocentrism**,
Anti GM foods and **natural values**.

Anti-embryonic stem cells and **right to life**.



2. Value driven attitude formation



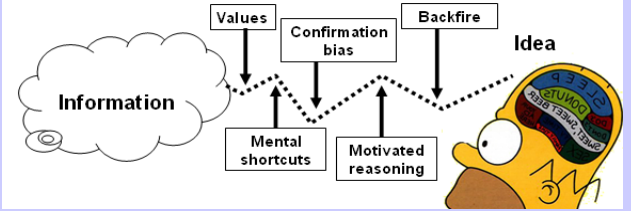
Understanding how values drive attitudes helps explain how:

Having **pro-development values** can lead to you saying **respect the science on GM foods**, but the **science on climate change is dubious**,

yet

Having **pro-environment values** can lead to you saying **respect the science on climate change**, but the **science on GM foods is dubious**.

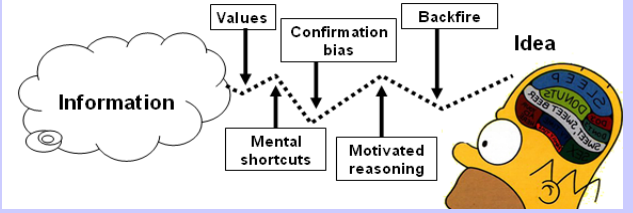
3. Backfire



- When people are shown information **proving that their beliefs are wrong**, they actually become **more entrenched** in their original beliefs.
- Highly intelligent people tend to suffer **backfire** more than less intelligent people do – making us immune to any facts that are **counter** to our **strongly-held beliefs**.



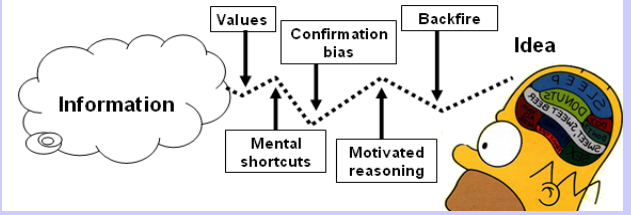
4. Confirmation bias



- When presented with **both sides** of an argument people tend to focus only on the **arguments that support their existing point of view**, become **more entrenched** in that view, and are less likely to see the merit of other viewpoints.



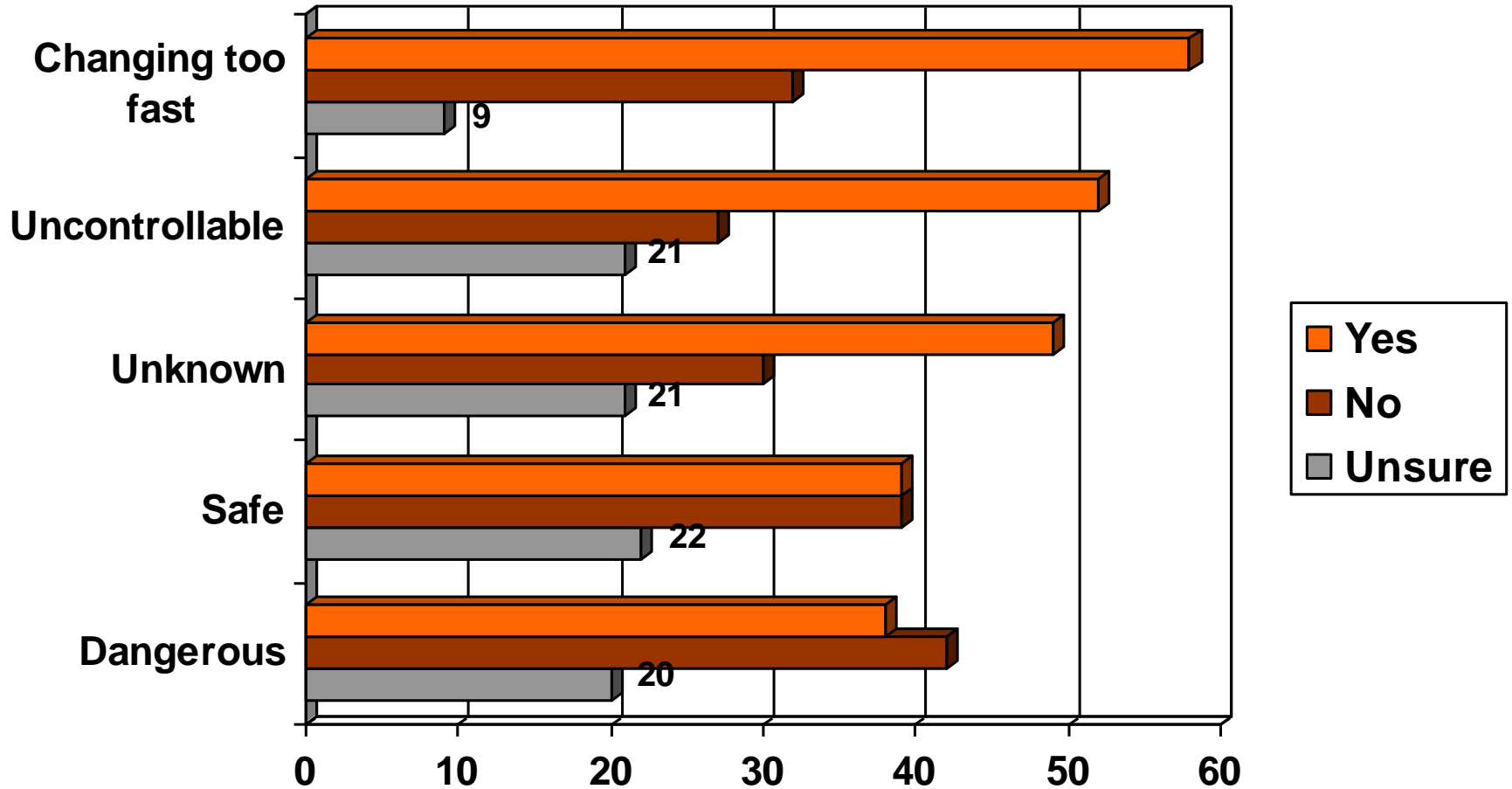
5. Amplification of Risk



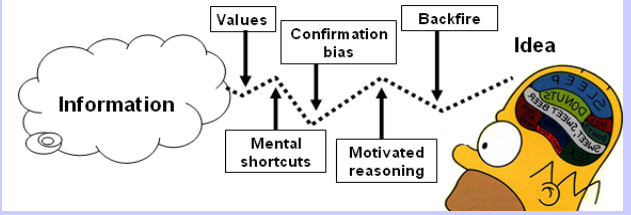
- The more people with **opposing points of view** talk about the topic, the **less likely** they will **agree** on any issue or even see it the same way.



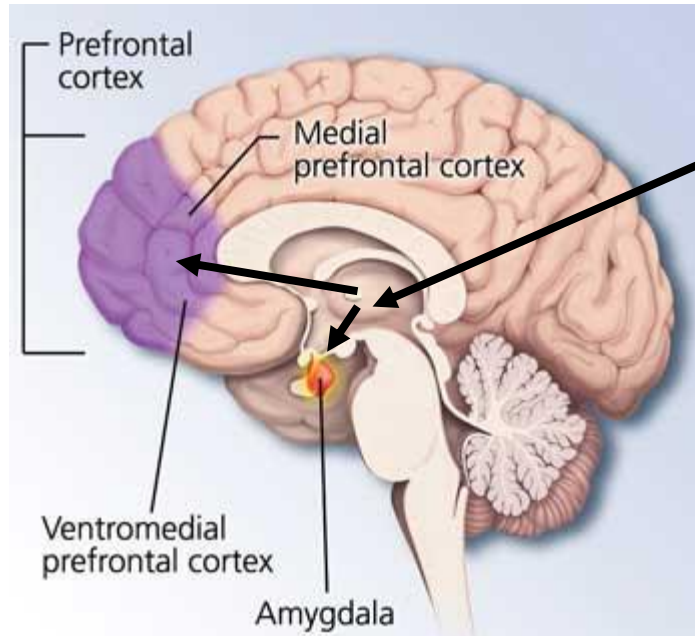
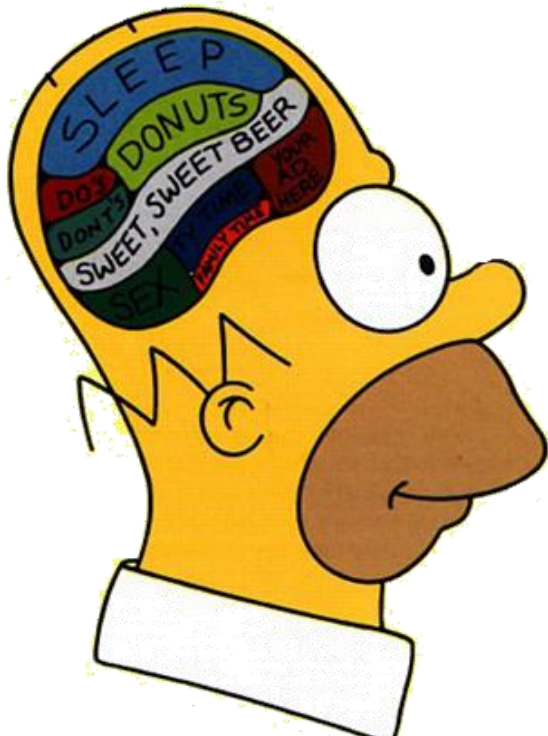
Is life and the world around you?



6. Even our brain wiring works against us



3. Prefrontal cortex: responsible for our higher order thinking and decision making

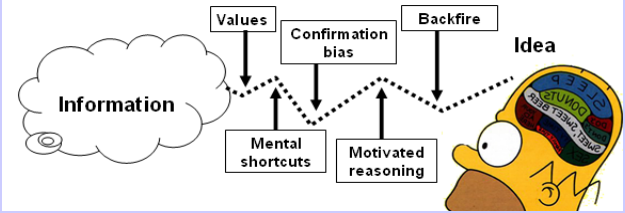


Brain Structures Involved in Dealing with Fear and Stress

1. Thalamus: the brain's post office

2. Amygdala: The 'danger, danger' part of the brain

6. Even our brain wiring works against us

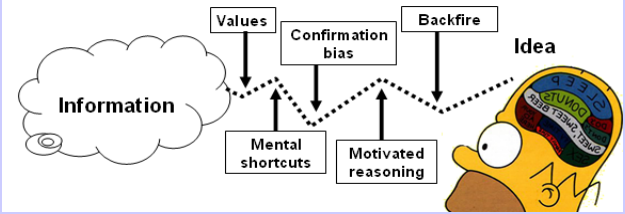


As David Ropeik says:

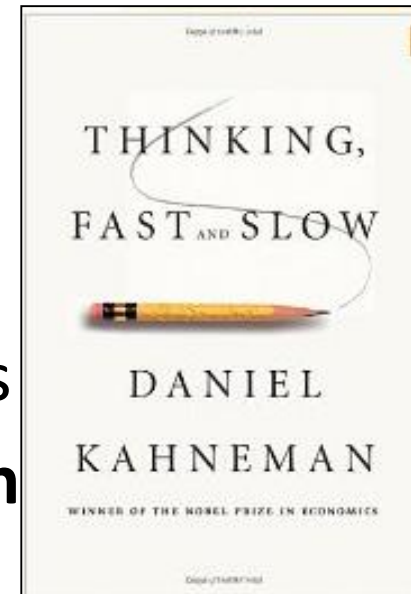
*“Both the physical architecture and biochemistry of the brain ensure that **emotion and instinct** have the upper hand over **reason and rationality**. ... **Before you know you are afraid, you are.** The inescapable truth is that, when it comes to risk, we are hardwired to feel first and think second.”*



What is all means in practice



- **Fast thinking** uses **mental shortcuts** and is prone to the **errors** they bring
- **Slow thinking** needs a lot of **energy**, uses more **analytical** and critical thinking, but is still **prone to errors** by **limited information** we have at hand

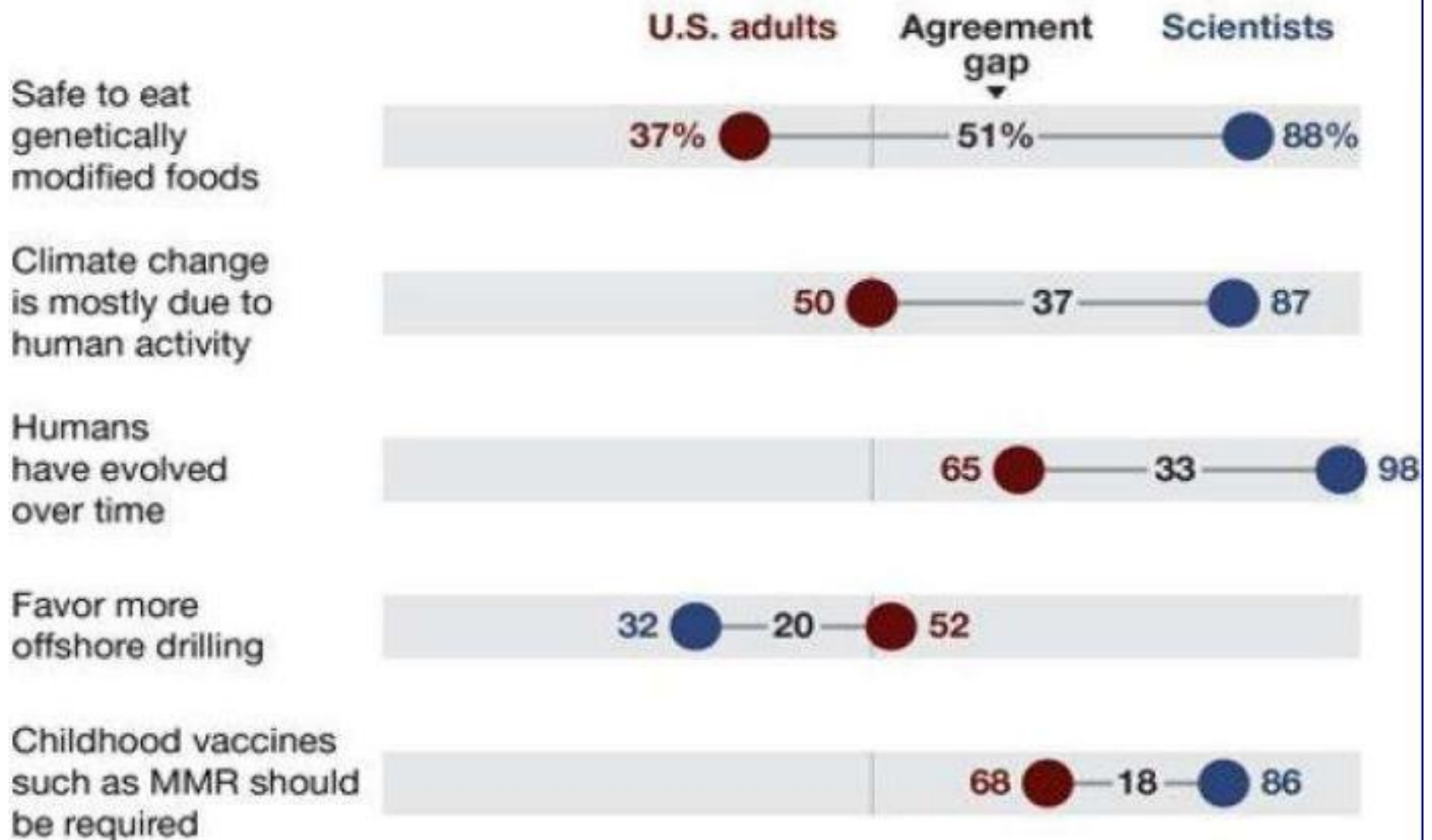


- We can **spot biases** in **other's thinking**, but **rarely** in our **own!**

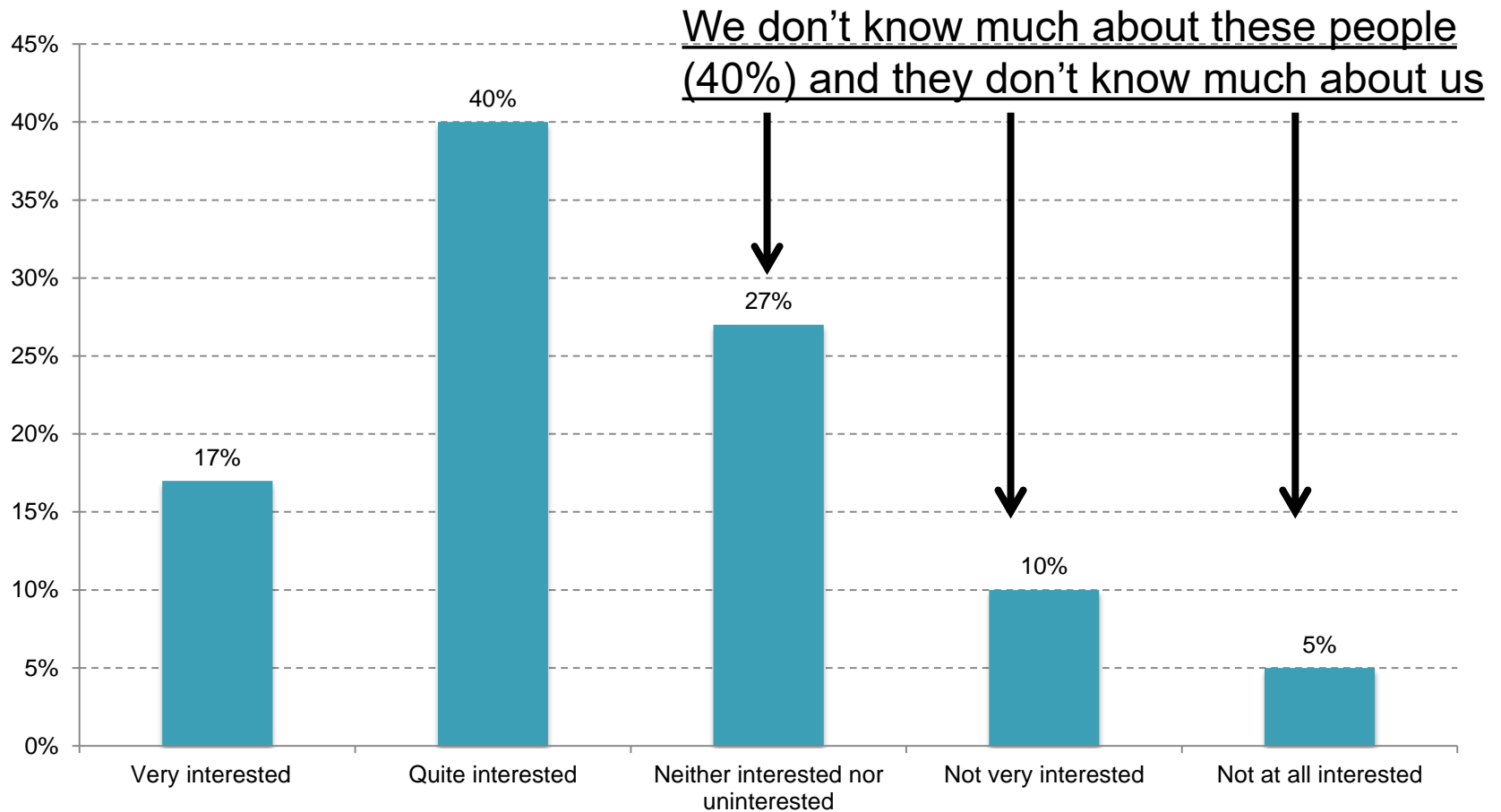
One of the core problems with science-based communication is that public and scientists' opinions are often far apart



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What do we know about our Public Attitudes to Science?



How interested are you in science generally? n=647

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Australian Segments by attitudes to science

Segment 2:

23%

**Fan Boys and
Fan Girls**

Segment 3:

8%

**I wish I could
understand
this**

Segment 4:

23%

**Too many
other issues
of concern**

Segment 1:

23%

**Mr and Mrs
Average**

Segment 6:

2%

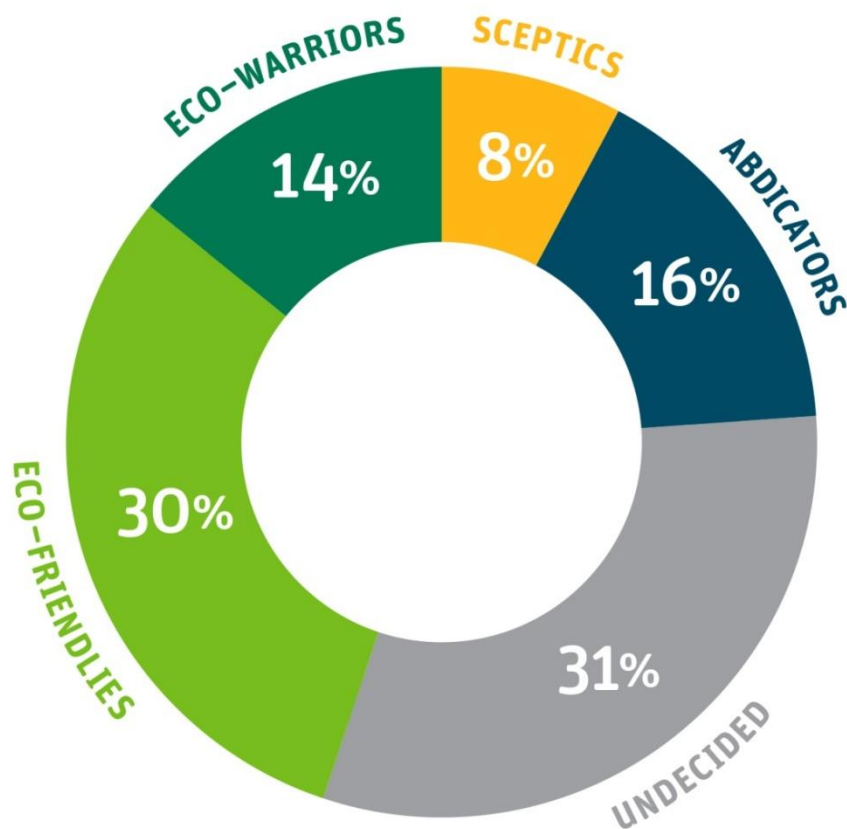
**I know all I
need to
know
already**

Segment 5:

14%

**Not interested
in S&T and
don't much
trust it**

CSIRO Segments by Attitudes to Climate Change



SEGMENT 1: SCEPTICS (8%)
Exemplified by older males who either do not believe that climate change is happening or believe that it is a natural phenomenon. As such, this group is named 'Sceptics'.

SEGMENT 2: ABDICATORS (16%)
Again mostly male and believe that climate change is a natural fluctuation in the earth's temperatures. This group is named 'Abdicators'.

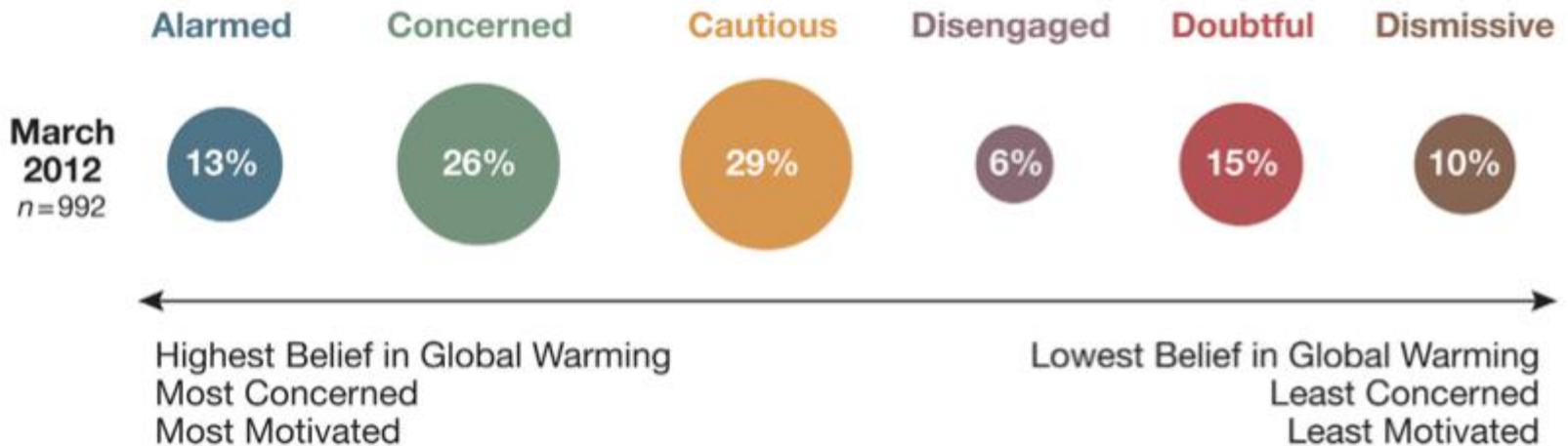
SEGMENT 3: UNDECIDED (31%)
Had a female skew and believe that climate change is happening but are unsure as to the reasons why, thus this group is named 'Undecided'.

SEGMENT 4: ECO-FRIENDLIES (30%)
Again had a slight female skew and the majority believe that humans are largely responsible for climate change, but are less extreme in their views than segment 3. This group is named 'Eco-Friendlies'.

SEGMENT 5: ECO-WARRIORS (14%)
Predominantly female and strongly believe that humans are largely responsible for causing climate change. This group is named 'Eco-Warriors'.

USA Segments by Attitudes to Climate Change

Global Warming's "Six Americas"



Proportion represented by area

Source: Yale / George Mason University

Seven 'archetypes' of attitudes and behaviours towards bushfires

1. Can do defenders – action orientated and self sufficient, confident and determination to protect property and deal with fire

2. Considered defenders – strongly committed to staying to protect their property – recognise risks and make efforts to prepare

3. Livelihood defenders stay to protect property, stock and assets from fire if possible

4. Threat monitors – don't intend to remain if the threat is serious, but don't want to leave until they feel it is necessary

5. Threat avoiders – conscious of the fire threat and feel vulnerable; plan to leave before there is any real threat

6. Unaware reactors – don't believe there is a risk area, either unaware of risk, or have no reason for concern

7. Isolated & vulnerable - physical or social isolation, that may limit their ability to respond safely.

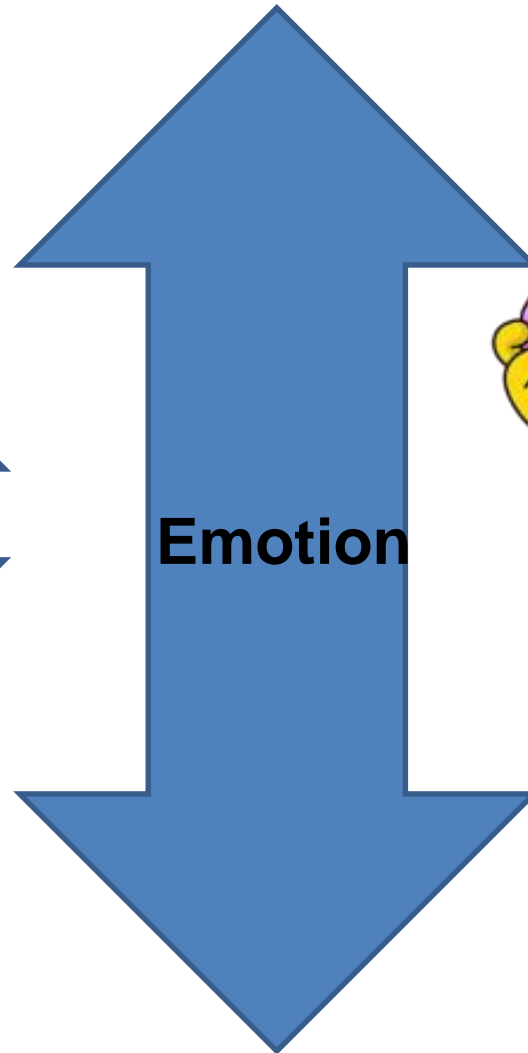
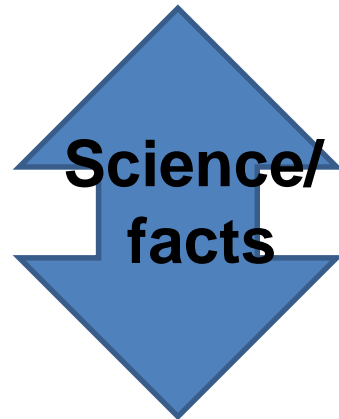
Segments by safety behaviour

Adoption stage	Involvement level	Explanation
Innovators	High involvement	'Global visionaries': May invest a high level of learning, time and creativity in innovating new solutions to community safety issues. Does not count the cost of engagement.
Early adopters	Medium involvement	'Private visionaries': May engage in significant learning as they adopt lifestyle improvements to enhance personal and family safety. Personal benefits outweigh the cost.
Early majority	Low involvement	Pragmatists open to better safety practices: they want simple guaranteed 'products or services' with minimum learning and investment of personal time (in other words, costs).
Late majority	Resistance	Pragmatists in denial about safety issues, but will follow mainstream trends. Currently they do not see the benefits as substantial.
Laggards and sceptics	Strong resistance	Those resistant the need for safety from natural hazards. They deny any benefits and will require regulatory and enforcement solutions.

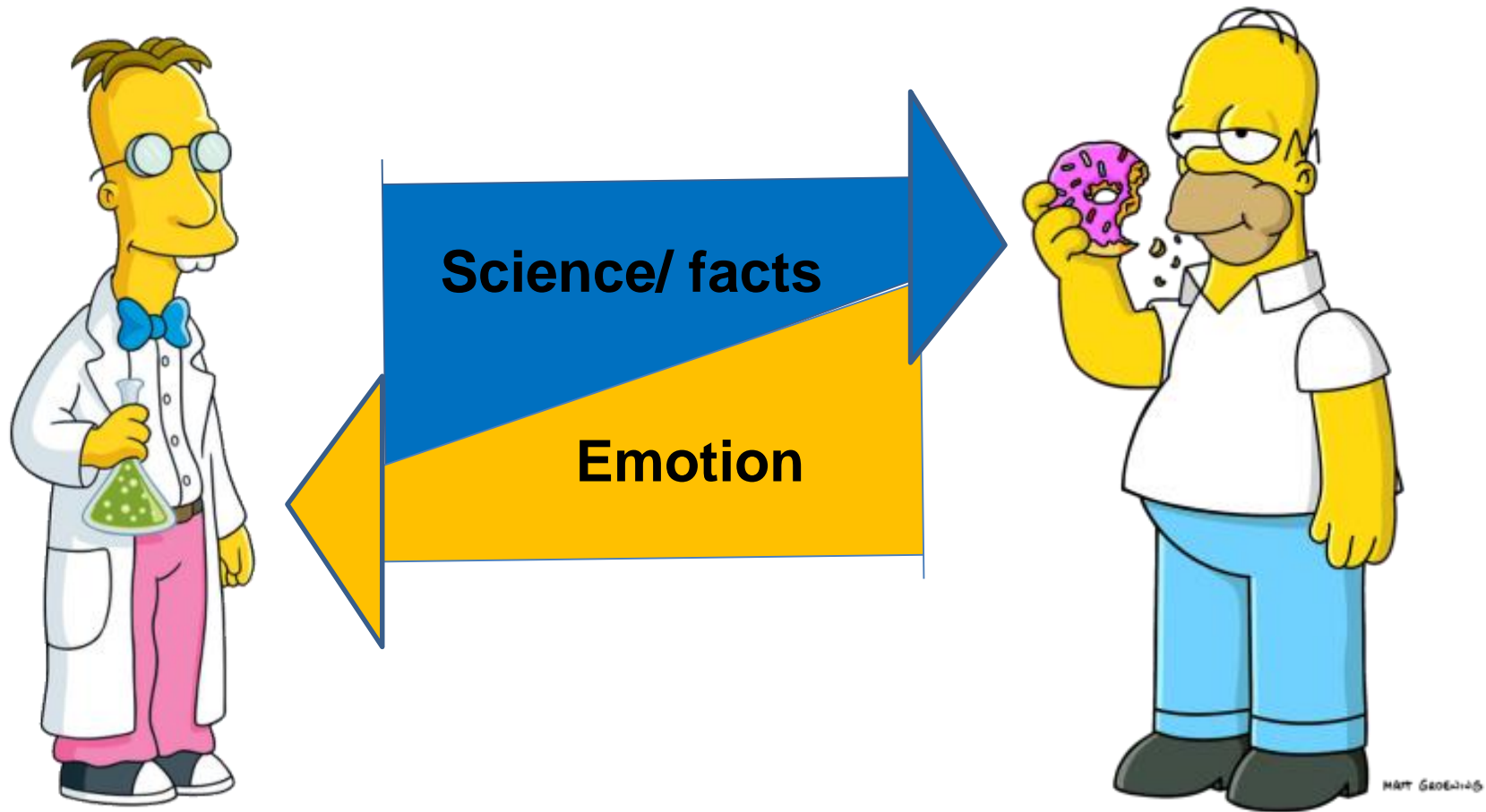
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Risk perception gap



Risk Communication



Public perceptions of risk vs Scientific view of risk



Scientific view
of risk:

Risk =
Probability
x Impact

Public view of
risk:

Risk =
OMG x
WTF

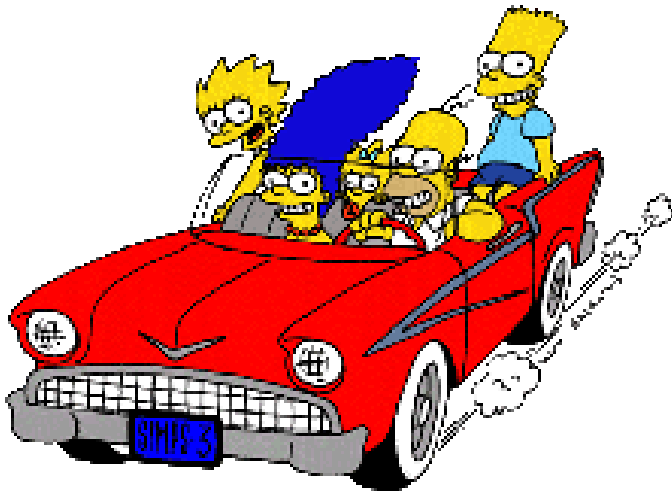


Perceived risks vs scientific reality



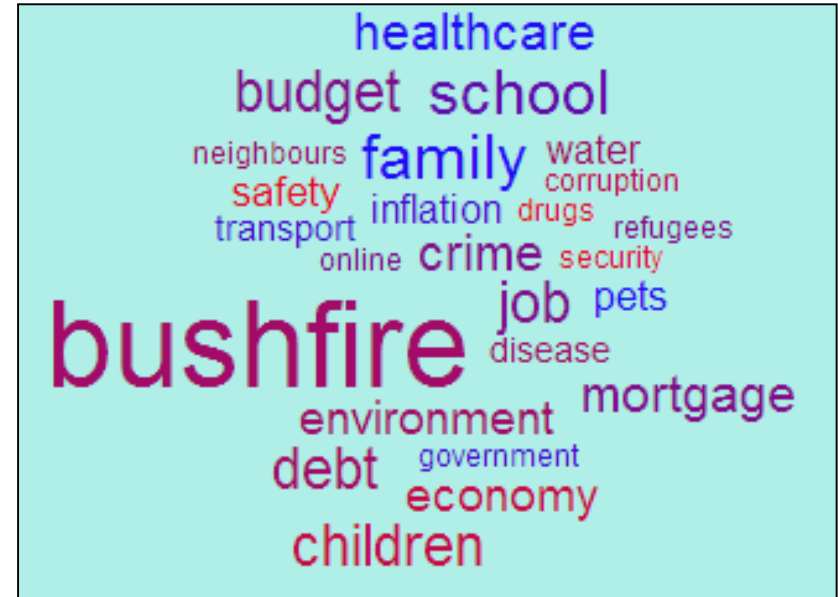
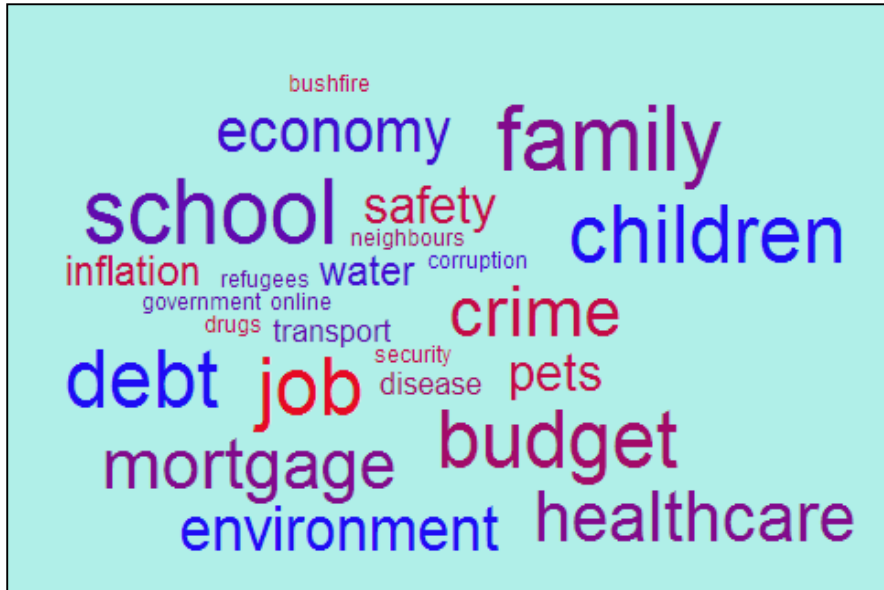
Perceived risk of flying

Actual risk



Perceived risk of driving

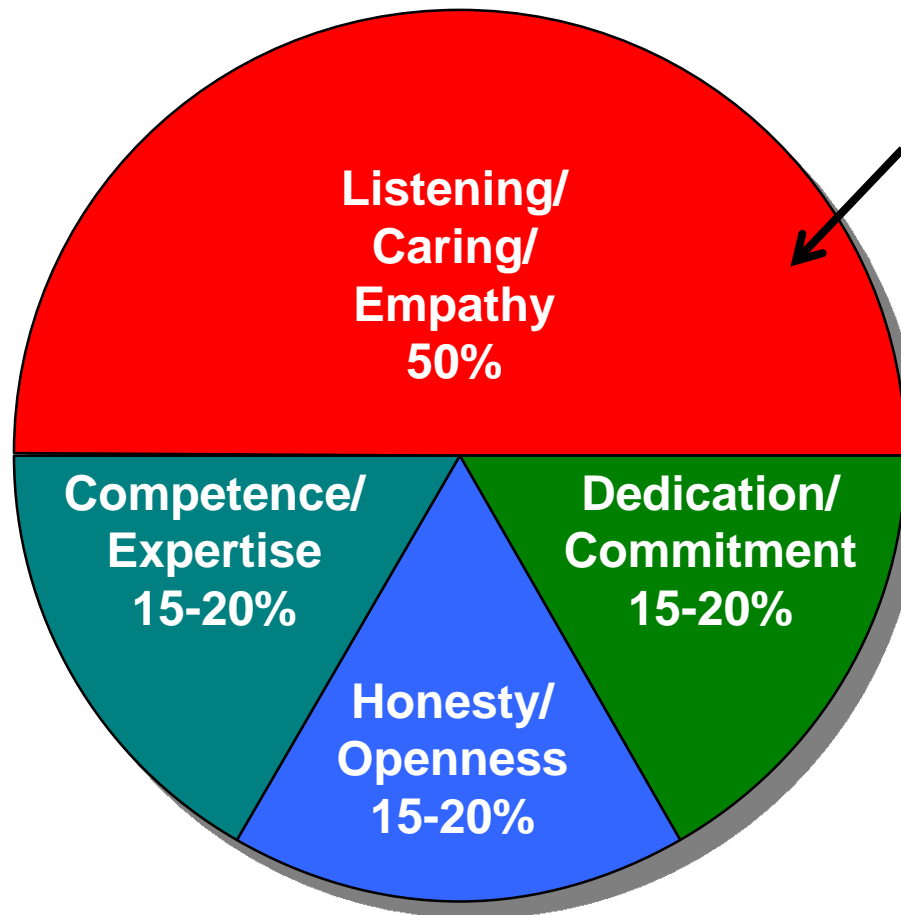
Actual risk



Risk perception also need to be understand in relation to everyday concerns.

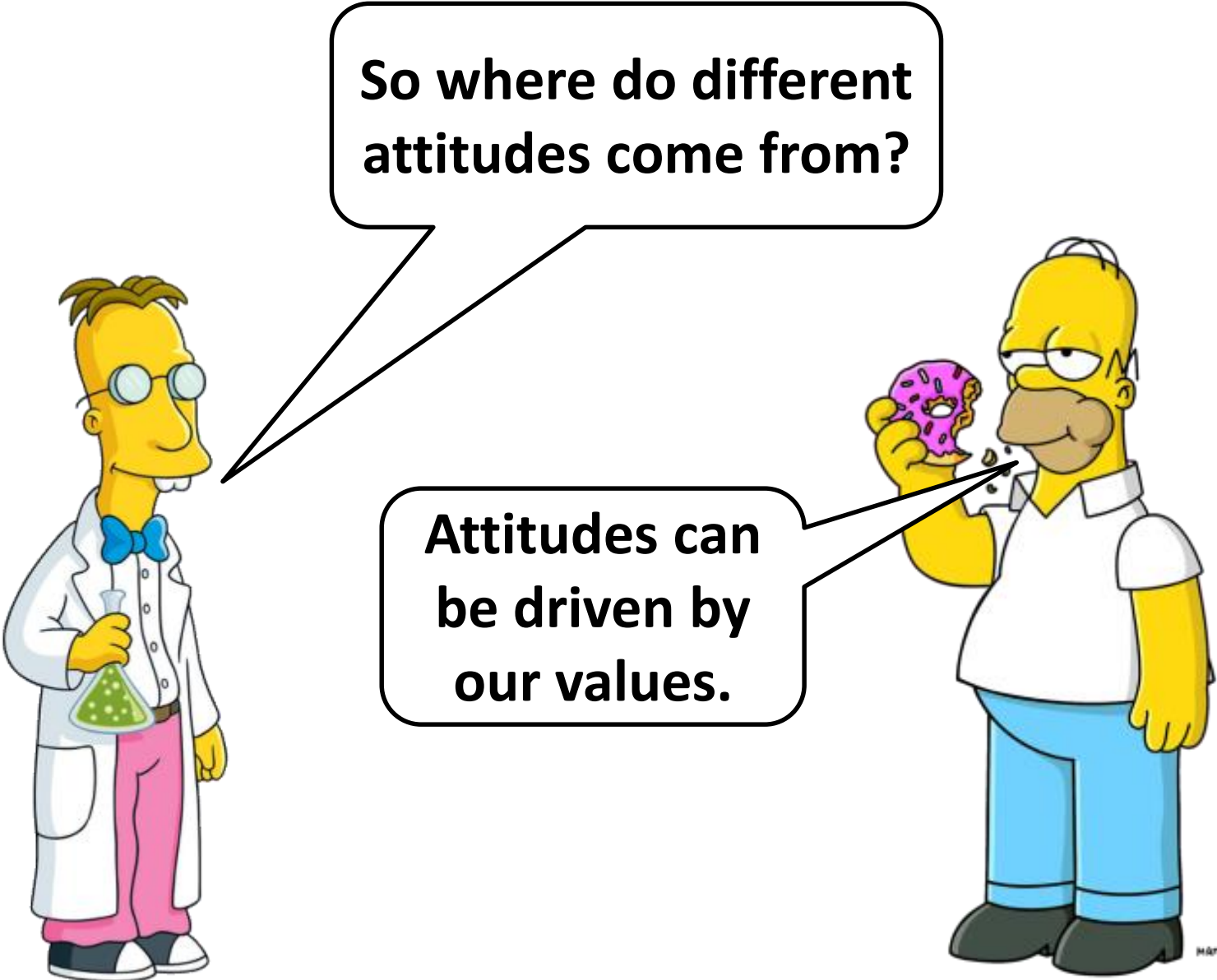
Q: Which represents emergency service agencies' perception of risk and which represents public perceptions of risk?

Trust Factors in High Risk/Concern Situations



Assessed
in first
30 seconds





So where do different attitudes come from?

Attitudes can be driven by our values.

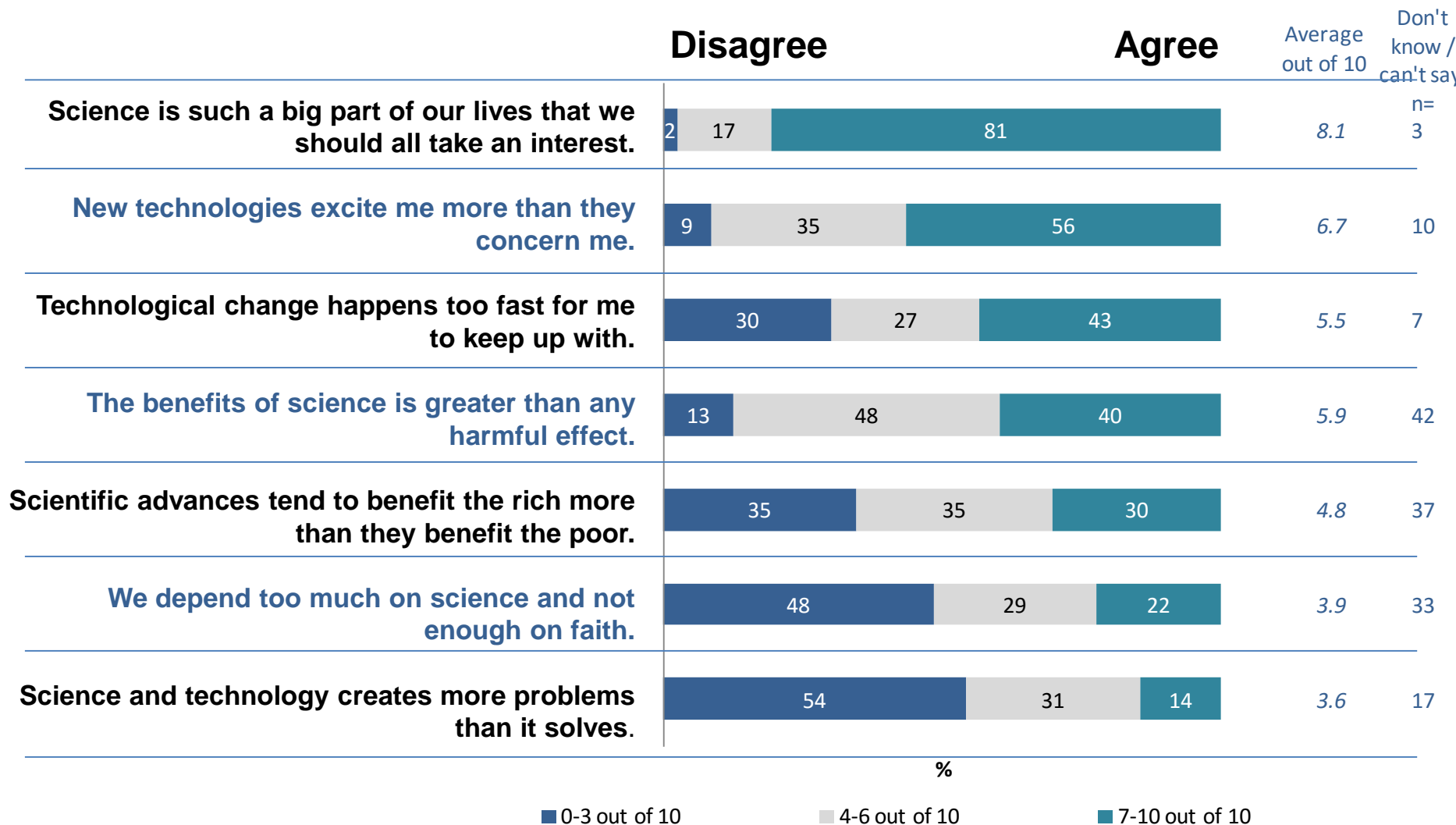
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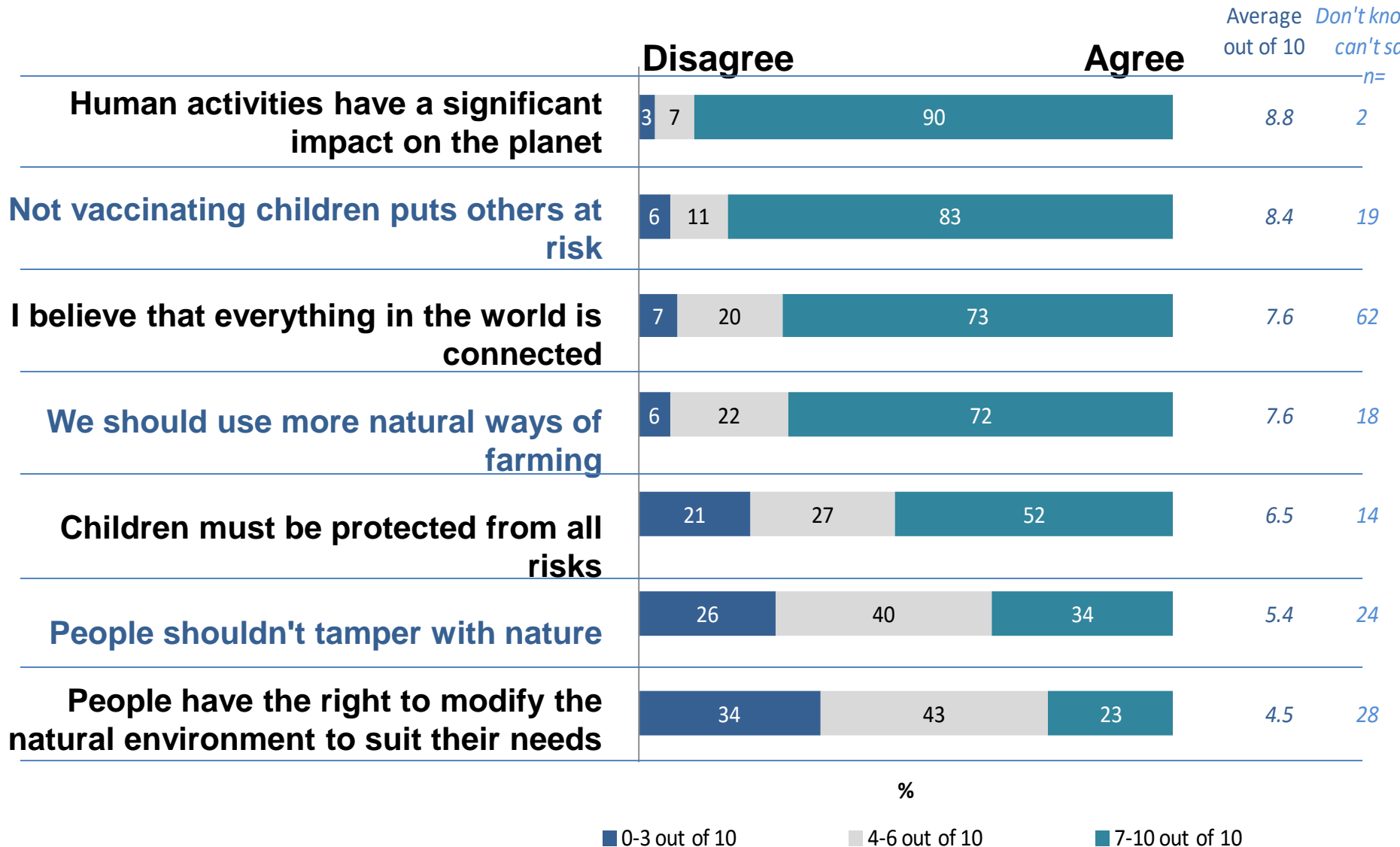
Values are the Rosetta Stone to understanding Risk Communications



Understanding VALUES towards S&T



Values towards the world around us



Values segmentation profiles



Science fans

- Mostly male.
- High support for all S&T
- "Everyone should all take an interest in science"

4



Cautiously keen

- Belief that benefits of science outweigh risks,
- but: "children should be protected from all risks"

3



Risk Averse

- High awareness but high risk concerns
- S&T can be dangerous and risky

2



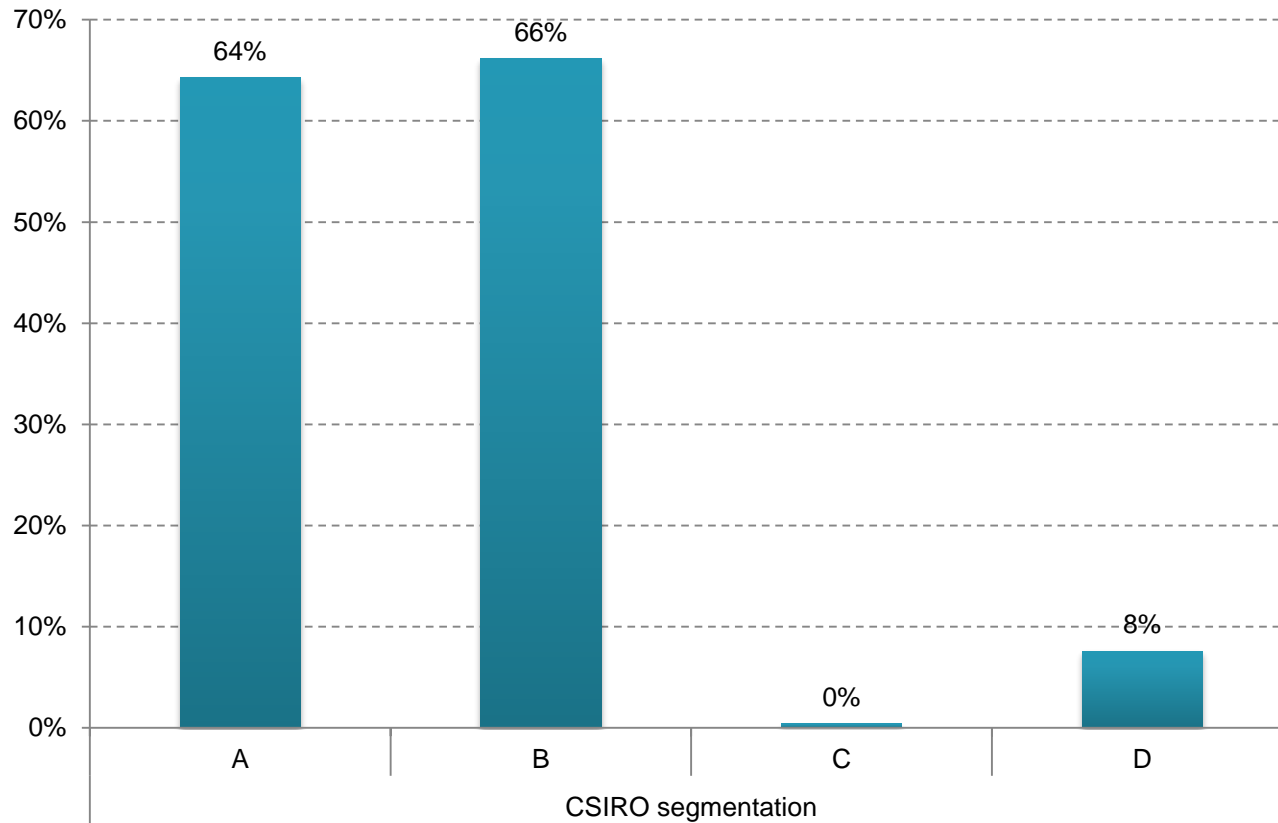
Concerned

- Low Awareness and high concerns
- Conservative
- "the pace of technological change is too fast"

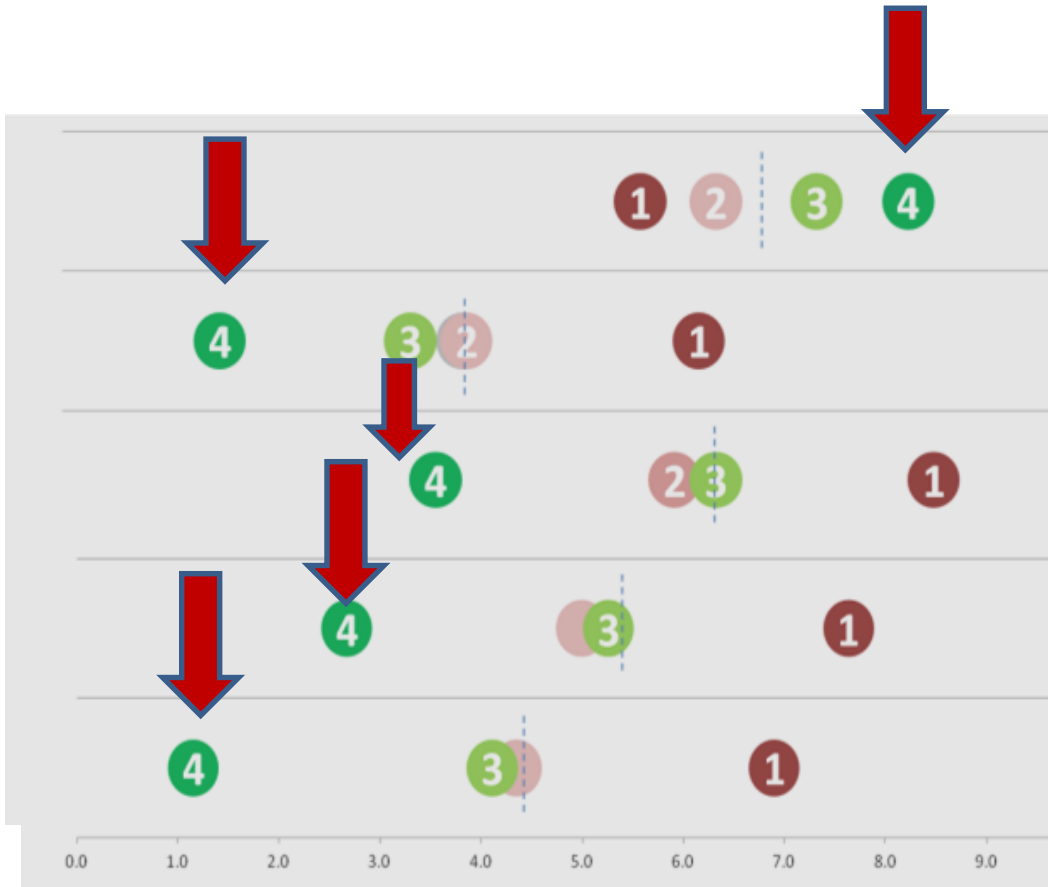
1

Q: Hands up for each segment

Actively looking for information on Science - segmentation



Understanding values segment divides



Values

New technologies excite me more than they concern me

Science and technology creates more problems than it solves

People shouldn't tamper with nature

Technological change happens too fast for me to keep up with

We depend too much on science and not enough on faith

Disagree strongly













Agree strongly

Segment 4 are outliers – further from the average point of the public than any other segment. It also means the not only do the other segments have small chance to understand Segment 4, but Segment 4 have small chance to understand other segments well.

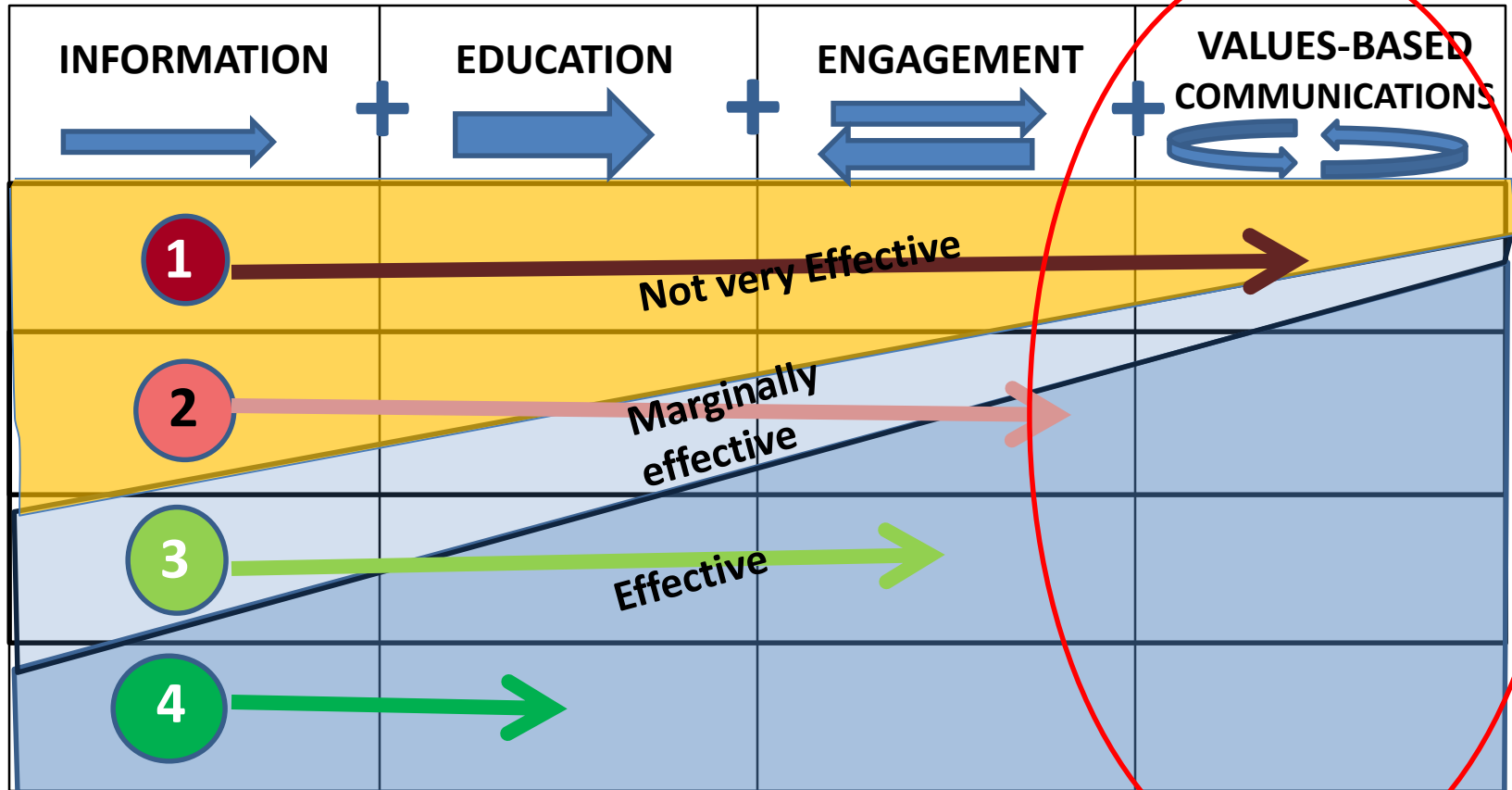
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Mapping the four values segments against a communication activity matrix

INFORMATION 	+ EDUCATION 	+ ENGAGEMENT 	+ VALUES-BASED COMMUNICATIONS 
 			
 			
 			
 			

Mapping the four segments against a communication activity matrix



Communication case study



**How to use values
to better
communication
with communities**



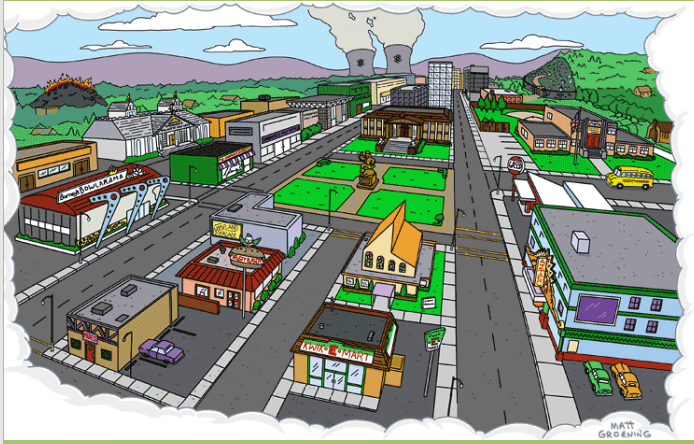
Changing Rural Communities

“One of the tasks facing fire agencies is to develop communication strategies aimed at localities undergoing **social change**, often as a result of **migration**, usually from **urban areas**, into **fire-prone areas**. These localities include **region-urban areas** and **sea-change/tree-change** places. Within such areas there is the movement of **younger families** to the **urban fringe**, **middle age** and **older persons retiring** to such areas, **holidaymakers** and others.”

Fairbrother et al (2014)

Case study: Four different community profiles

high support for prescribed burning



Less support or strong caveats



High community unity

More diverse community

Case study: Four different community profiles

high support for prescribed burning

Town A

Population of about 140. Recent fires in 2003, 2007, 2009 and 2014. Majority lived in area for over 20 years or moved into the community a long time ago. Very homogenous group.



Less support or strong caveats

High community unity

More diverse community

Case study: Four different community profiles

high support for prescribed burning

Town A

Population of about 140. Recent fires in 2003, 2007, 2009 and 2014. Majority lived in area for over 20 years or moved into the community a long time ago. Very homogenous group.



Town B

50 kilometres north of Melbourne. Population of about 8,000 people. A major centre for low-cost family housing within commuting distance.



Less support or strong caveats

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More diverse community

Case study: Four different community profiles

high support for prescribed burning

Town A

Population of about 140. Recent fires in 2003, 2007, 2009 and 2014. Majority lived in area for over 20 years or moved into the community a long time ago. Very homogenous group.

Town B

50 kilometres north of Melbourne. Population of about 8,000 people. A major centre for low-cost family housing within commuting distance.

Town C

150 kms north west of Melbourne, Population of about 85,000 people. Large mix of recent arrivals and those who have lived in the area a long time.

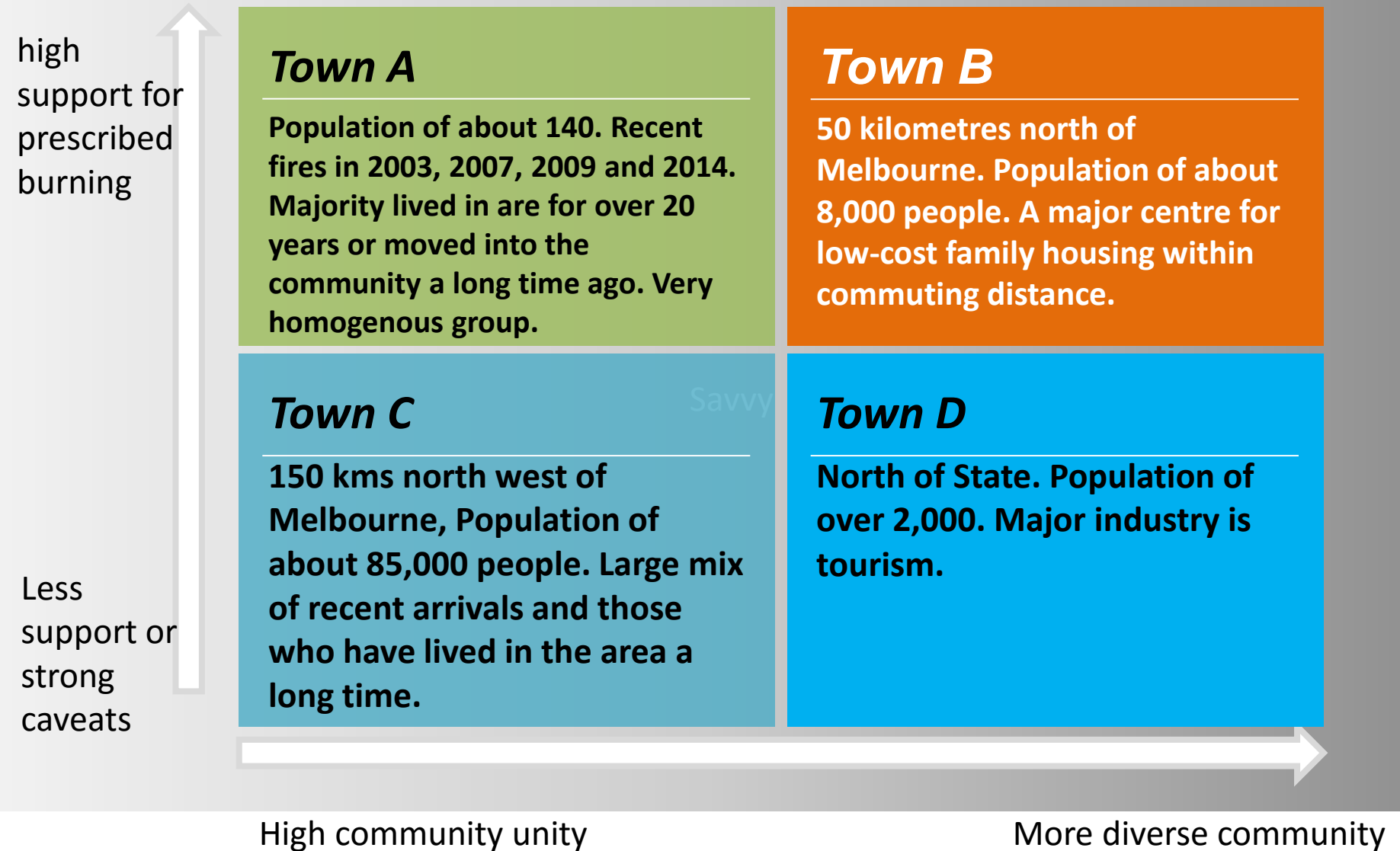


Less support or strong caveats

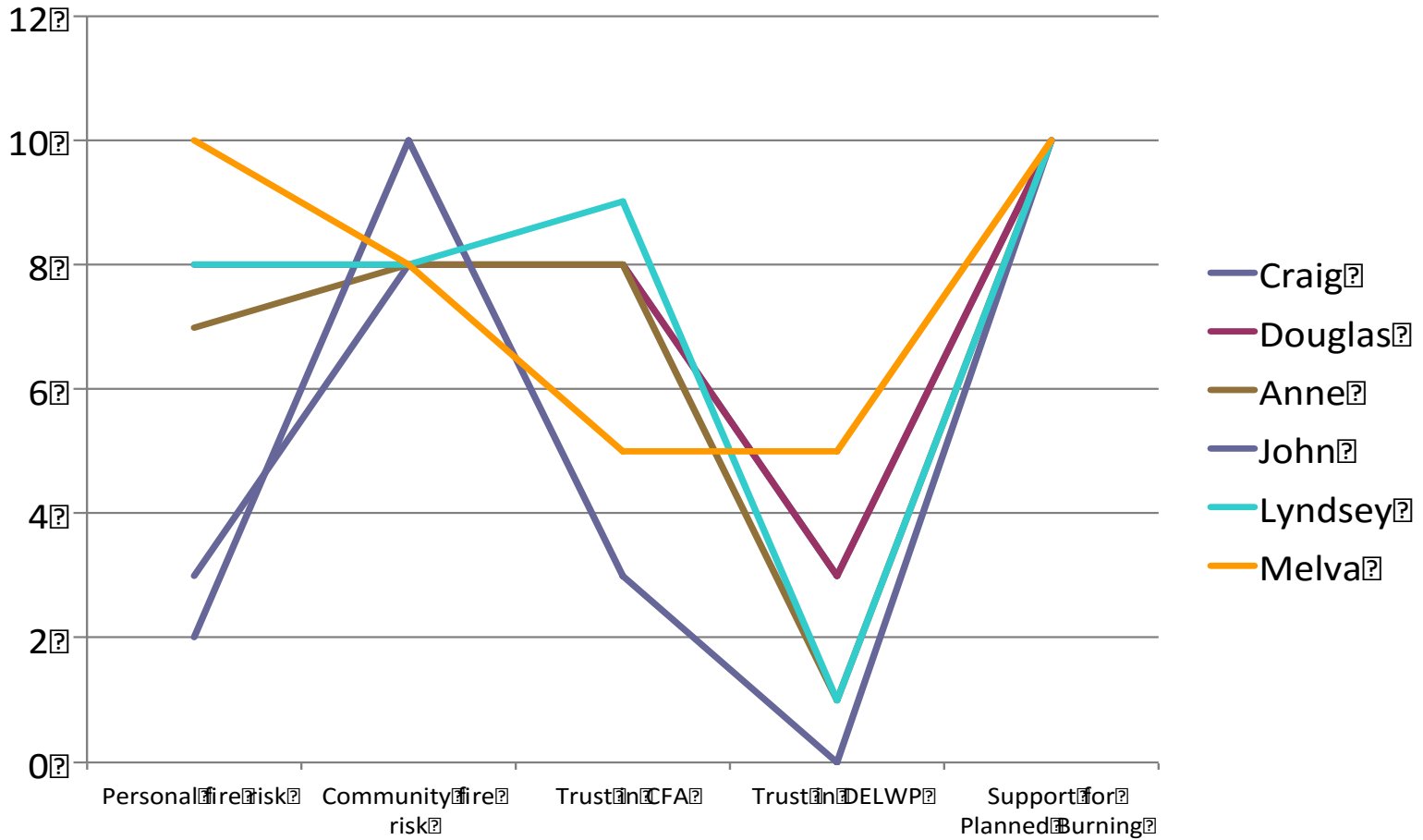
High community unity

More diverse community

Case study: Four different community profiles



Town A



Analysis of TOWN A

1

TOWN A

Diverse personal risk, uniform high risk for community, high trust in CFAs, low trust in Government agencies and uniform highest levels of support for planned burning.

- **demonstrated a strong and cohesive community with long-term residents, with deep knowledge of bushfire behaviour at the local level, and strongly supported planned burning.**
- **The community was very proactive in how their fire plans were developed and implemented, and took the lead in filling consultation gaps with agencies.**
- **The community felt that fire agencies should better coordinate their activities with each other, and treat the community as a partner, with better use of local knowledge.**

Top Values within Town A

People and sense of community

**Environment: and foliage, great
climate, river and hills**

**Serenity: the peace and quiet and
ease of getting to know people**

**Spirit of the community and
ease of fitting in.**

Top Values within Town B

Sense of community

Peace and tranquillity

Opportunities for the kids

Close to facilities in Melbourne

Safety

Wildlife

Top Values within Town C

Family and friends

Central location

**Environment, trees and native
plants**

**Close community and very
relaxed**

Arts community

**Health and education and
good job opportunities**

Cheap housing

Top Values within Town D

Family

Health

Friends

Environment

Home and security

Personal assets

What to do with what you know

- Knowing the **top values** within a community means knowing how to **frame** your **engagement** conversations with those communities.

Why?

New way of thinking about communicating risk and a new way of thinking about community engagement



What?

1. Start conversations around community values
2. Use community expertise and preferences for managing risk
3. Incorporate agency expertise



What else?

Mutually develop plans to address risks that have more community involvement and buy-in to achieve behaviour change.



How

Achieve behaviour change via:

- Nudging
- Adult learning
- Peer reinforcement
- Trusted influencers
- etc



**I want to tell you
all about your
flood and fire
risk.**



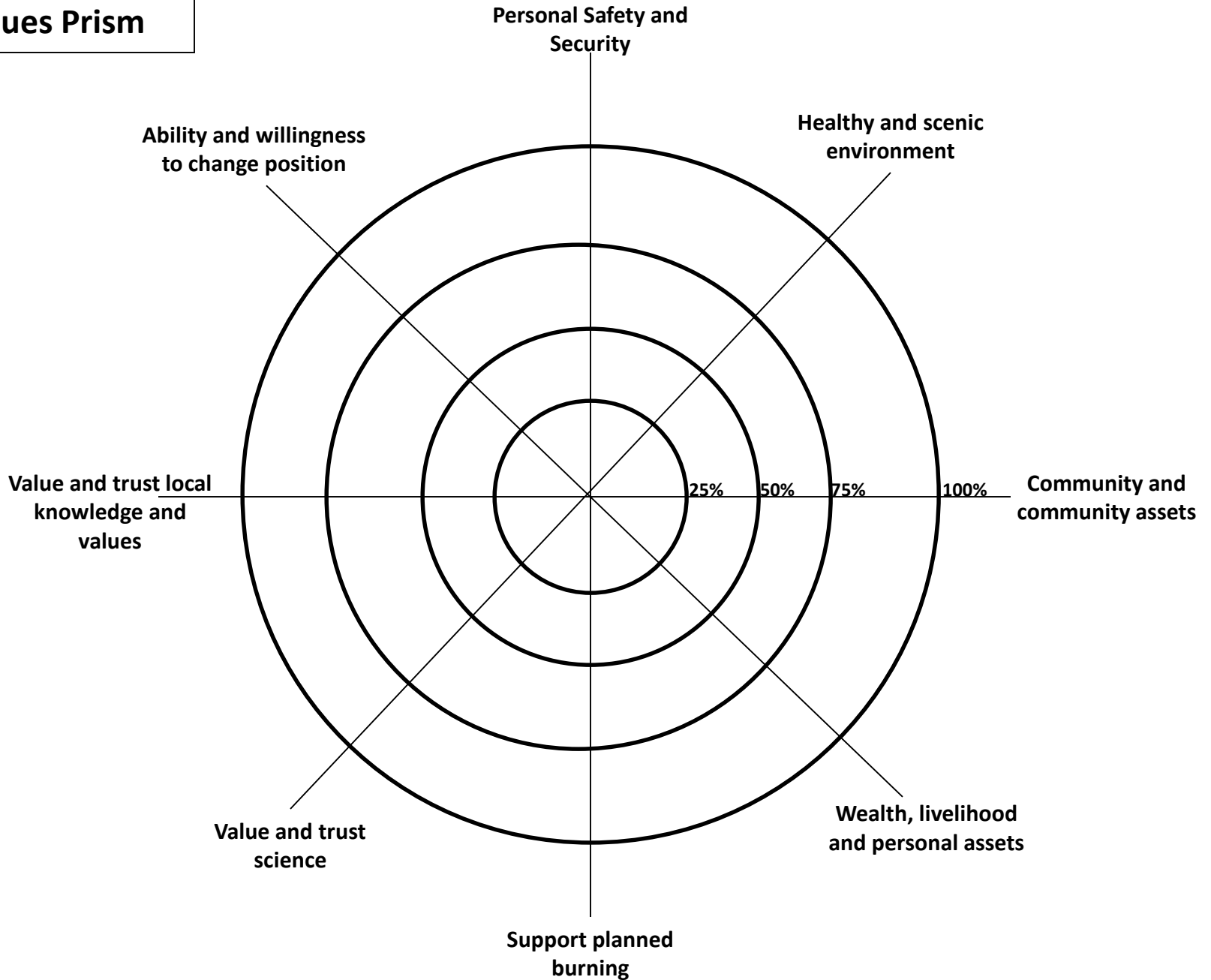
**I want you to tell me
about the things you
value in your
community, and then
discuss how to
protect them from
risks.**

The big question

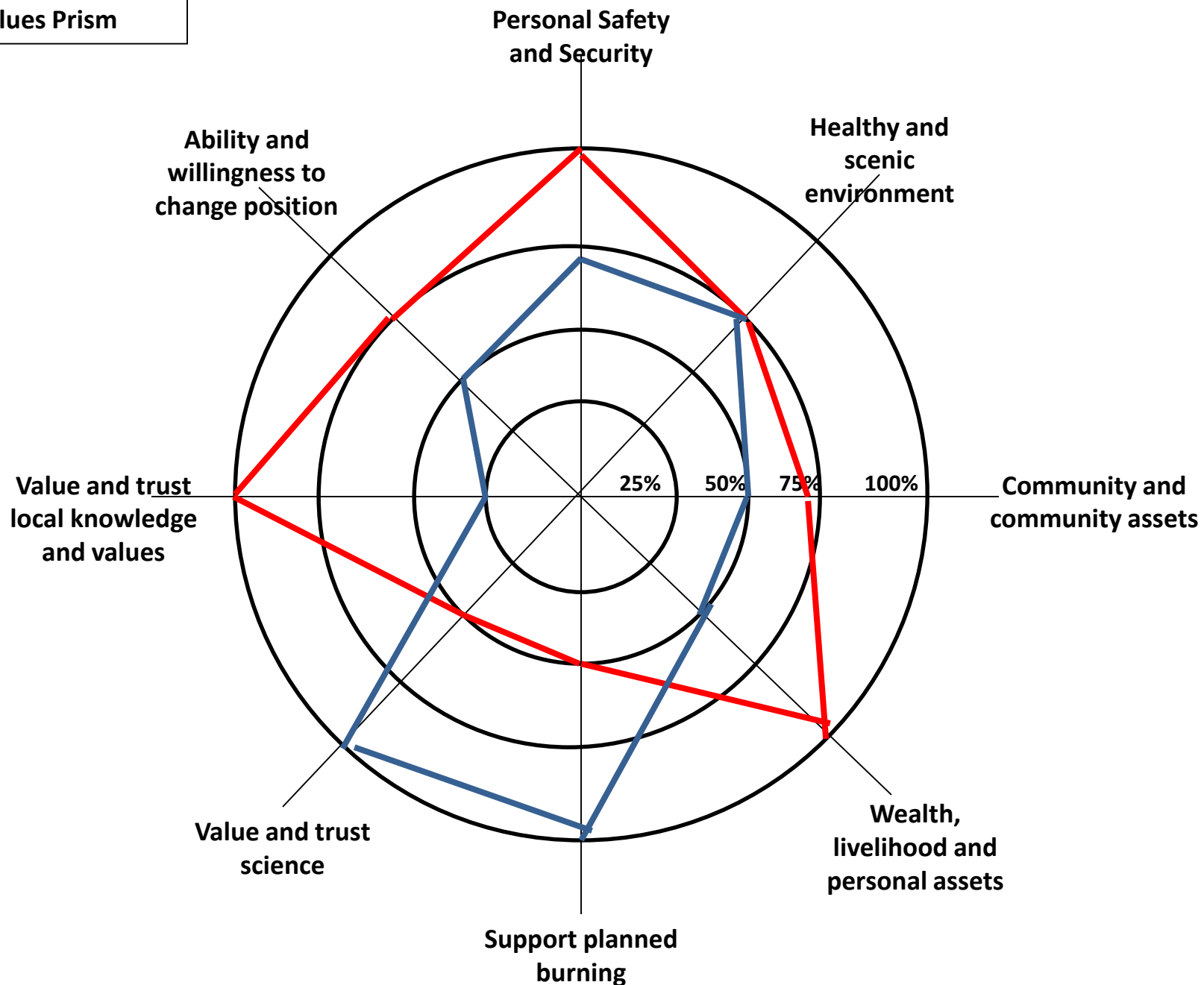
But how do you actually do that?



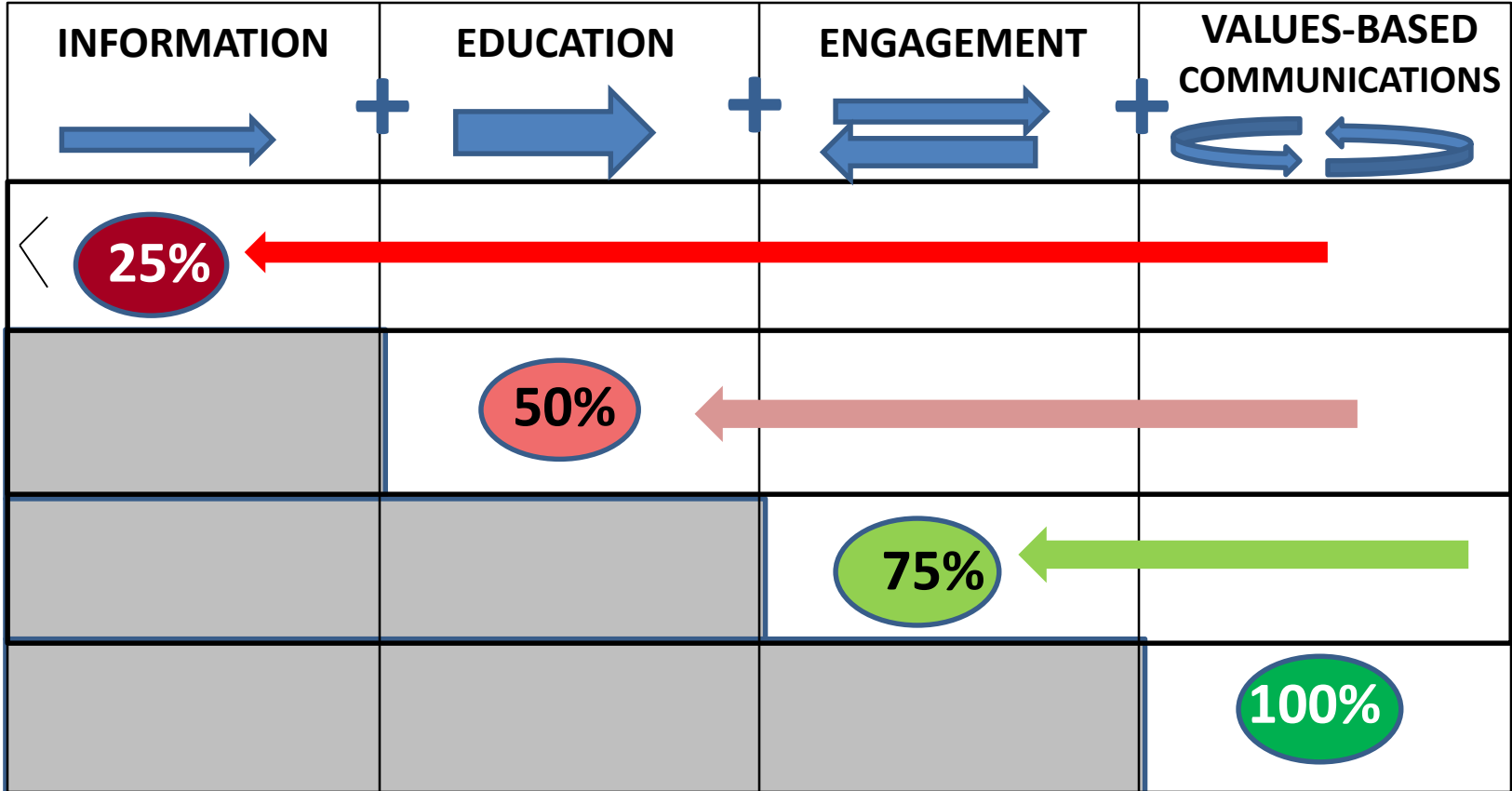
Values Prism



Values Prism



The values gap defines the Communications Strategy you need to use



What does it all mean?



**Your
turn!**

Any questions?



craig.cormick@thinkoutsidethe.com.au