



SOCIETY OF DECISION PROFESSIONALS

Extending Good

Decision-Making

Beyond the Workplace

Covering Today

Decision Professionals share about **how they brought Decision Education to their community.**

Get support from our panel on **strategies for making a positive impact** in your sphere of influence.

We offer **ways you can get involved** in SDP's Decision Education Interest Group (DEIG)

Extending Good Decision-Making Beyond the Workplace



**Steve
Begg**



**Stefanie
McLaney**



**Kuno
Huisman**



**Terrance
Karner**



**Amy
Matheson Day**

Speaker Panel

SDP Annual Conference Apr 24



Extending decision-making beyond the workplace panel

Steve Begg, DecisionsDecisions
& Emeritus Professor, University of Adelaide

Teaching 11-12 year olds in Adelaide

Teaching school children in Adelaide



- Underlying motivation/background. Retirement” (from uni), basic ideas are really quite simple, so why not high schools

“Better decisions, better lives” (DEF) &
The only control you have over how your life/future turns out, is through your decisions. The rest depends upon things you can't control
decisions of others, “nature”, chance, ...

- The “entre”: eventually, several minor engagements serendipitously paid off
- Twenty students – 5 from each of 4 schools - ~~years 11s & 12s~~ 11 & 12 year olds!
- 2 x half-day (3.5hr) workshops, 3 days in between
- Post-workshop anonymous feedback survey from students

Content & Design



- **Content focus**
 - first inclination – beliefs, uncertainty and bias – engaging content, but perhaps not as useful
 - relevant to typical decision for this age group – useful and doable
 - landed on: integration of DQ principles with multi-objective implementation
- **Guiding design principles**
 - **comprehensive** coverage of the key ideas/concepts & implementation steps
 - **compromise** on the level of rigor/tools on “how to” – focus on understanding and ability to apply
 - make structure flexible enough to “drop in” more-rigorous uncertainty/probability at a later date
 - engagement: relevant examples/illustration, lots of short activities/discussions, fast pace

How to get more of what you want - despite your parents and teachers !

- **Developed in conjunction with teachers from each school (4 x 3hr mtgs)**
 - needed to teach them the key ideas so that they could help (opportunity!)
 - based on what I have been teaching (uni/industry) for 20+ years – but simplified “tools” and language – plus relevant examples or illustrations

Structure of 1st workshop



- 5 groups of 4, one student from each school
 - a teacher sat behind each group, only intervening if they needed help, or focus 😊
- Lots of short, table discussions around questions designed to have them come up with key issues, principles and conceptual ideas themselves
 - students more comfortable discussing amongst their peers at their table, then have a more confident one report their findings to the class
- Ideas/Concepts covered
 - reasons for learning about decision making; Systems 1 & 2; Perils of intuition, pros&cons and naive “rules of thumb”
 - what is a decision. Six component model (Frame, Objectives, Alternatives, Information, Predicted pay-offs, Decision Rule);
 - better decisions in minutes by use of structured thinking/discussion around the Decision Basis
 - what is a good decision?: Decisions vs outcomes; Illusion of control; Decision Quality chain
 - what makes decisions hard (as a prelude to the tools/techniques to deal with these factors)

Structure of 2nd workshop



- At start: online quiz (developed by teachers) to test if they retained key ideas
- Students chose a decision of their own to work through a 6-step prescriptive, methodology of how to make good decisions
- Each step had the following structure
 - 1) Description of step/tools & pragmatic implementation tips
 - 2) Illustrative example – decision to “Buy a dog as a pet”
 - 3) Apply to their decision
- Tools/topics (to achieve high DQ) covered were
 - decision Hierarchy; objective hierarchy (including priorities); generating alternatives
 - Information collection (focusing on what matters); Pay-off table, including constructed scales; Risk attitudes – CE “hack”; Conversion of pay-offs to common value scale; Using actual and “practical” dominance to reduce pay-off matrix
 - Decision (not importance!) weighting. Calculation of total weighted value of each alternative. Visual representation of the relative value-components for each alternative. Sensitivities.
 - Iteration. Stopping rule (within step or iterations) – when best option is clear

Post-workshops anonymous survey



How <u>easy</u> was it to	Min	Ave	Max
Understand the ideas in the slides	5	5.5	7
Understand Steve's verbal explanations	4	6.2	7
Understand and take part in the <u>discussion activities</u> - 1st day	3	5.9	7
Understand the <u>exercise activities</u> on your decision - 2nd day	4	5.8	7
In helping you understand decision-making, how useful were:			
The examples in the Powerpoint slides	5	6.5	7
The discussion questions (1st day)	4	5.5	7
The exercises (2nd day)	5	6.3	7
How <u>useful in your life</u> do you think the following will be:			
The main decision concepts / ideas (1st day)	4	6.2	7
The 6-step method, or shortened components of it (2nd Day)	5	6.1	7
How was the pace/speed of the workshop (4=just right)	3	4.4	6
How interesting was the workshop	5	6.2	7
Would you recommend the workshop to other students	6	6.8	7

- Scored on 1-7 scale
- Responses are consistent with informal feedback from the teachers

Learnings/surprises and ongoing challenges

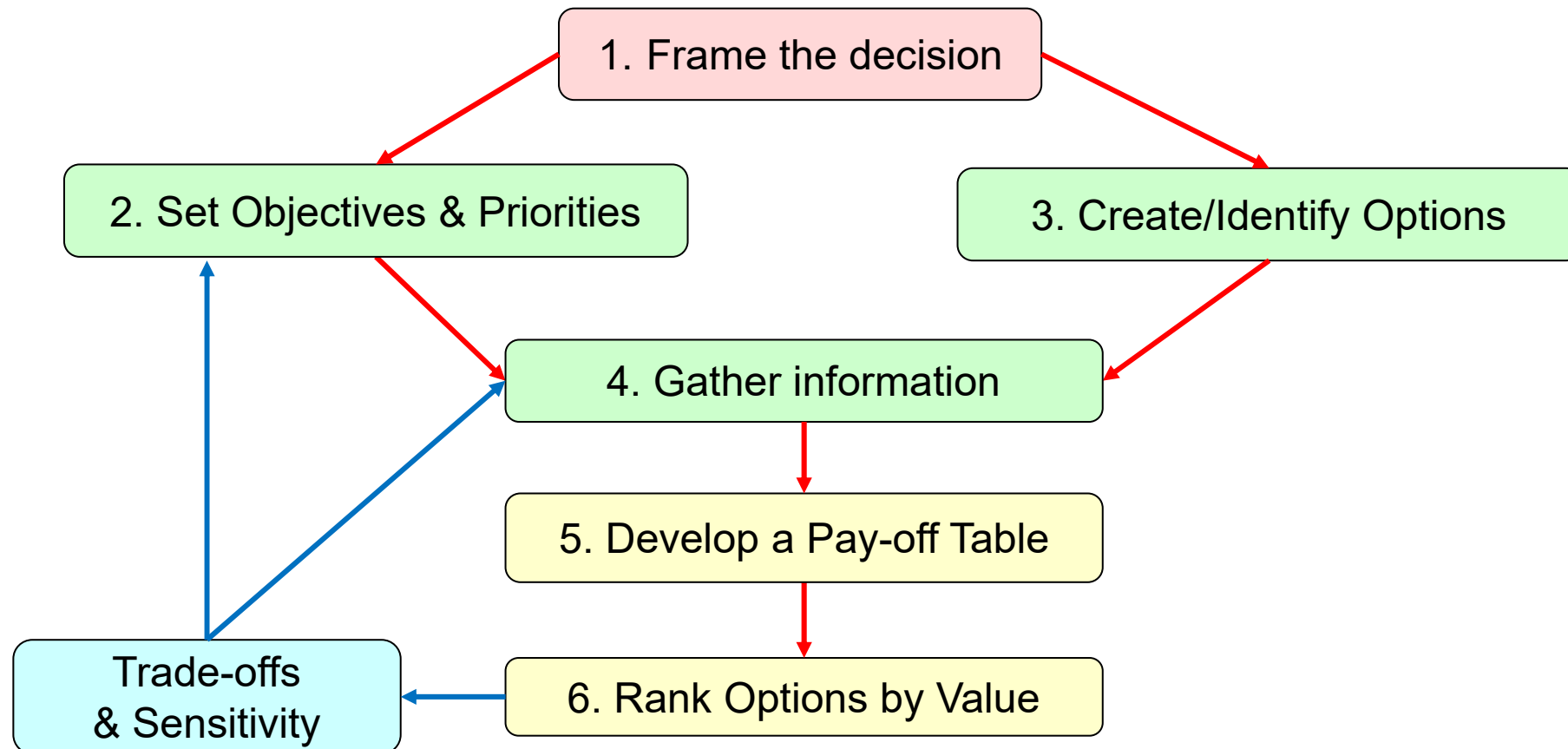


- **Going in, I grossly under-estimated the students' capacity**
 - to concentrate for extended periods !!
 - to learn (understand & apply) – no baggage to be disposed of (that hampers adult decision-makers). But with that comes.....
 - ... ethical responsibility – need to be careful not to imprint your values/preferences/perspectives on these “blank sheets”
- **Challenges**
 - getting in to the “system” - packed curricula, no obvious place for it, compounded by
 - teacher's lack of understanding of what DA/DQ is and its benefits, so not a quick “sell”
 - dependence on key teachers – changes to their roles – hard to get a regular engagement
 - maybe other youth organizations would be easier?
- **All materials (PPTs, Excel sheet, handouts) are freely available for non-profit use**
 - acknowledgement for them, or derivatives, appreciated
 - steve@sbegg.com

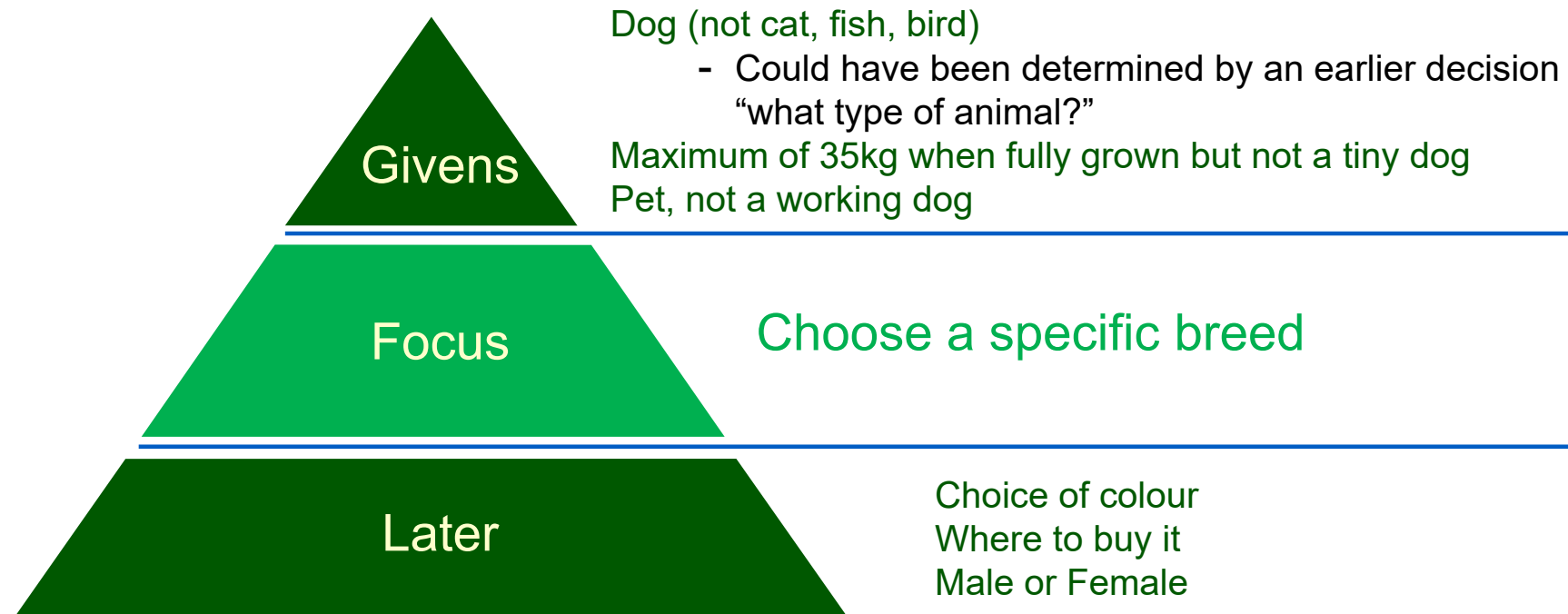
A few examples for questions/discussion



6 Step method (or process) for making **GOOD** decisions



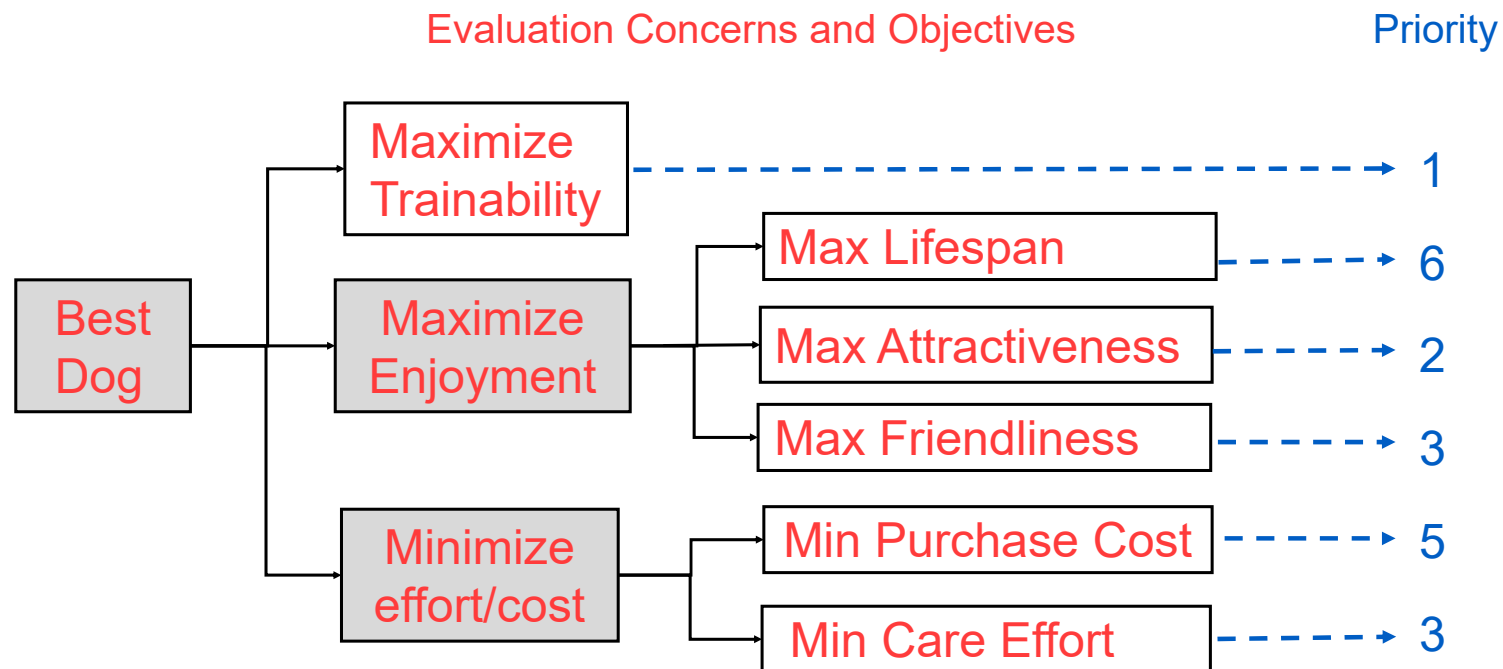
1. Decision Hierarchy : Breed of dog as a pet



2. Evaluation Concerns and Objectives: Breed of dog



Value Tree



3. Some possible Alternatives: Breed of dog



Labrador



Pomeranian



Basset Hound



Cocker Spaniel



Poodle



Sheep Dog



British Bulldog



Bernese Mountain



Boston Terrier



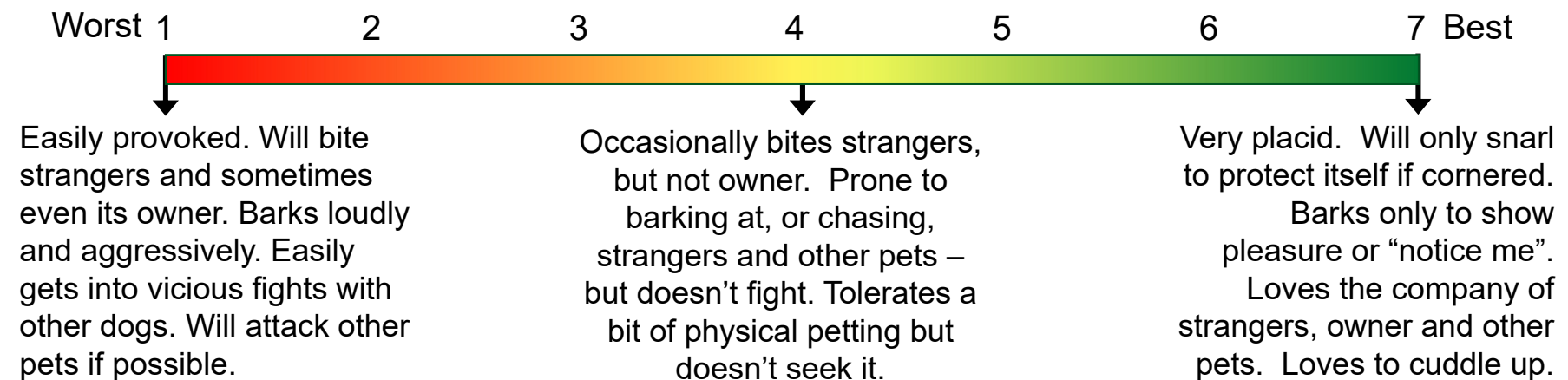
Corgi



5. Clarity of scales: “Friendliness” of breed of dog



- Remember: the purpose of the description is to guide you as to where each alternative (option, choice) lies on the scale
 - Be sufficiently clear about what the numbers mean so that (based on the same information about an alternative) **anyone** would come to the same conclusion about where it falls on the scale



- Note: if you were choosing the best breed as a **guard dog**, not a pet, then the scale would probably be reversed! There is **no absolute** to value, it depends on the decision-maker and context!

5. Record the Pay-offs (value judgements) in the grid: Breed of dog

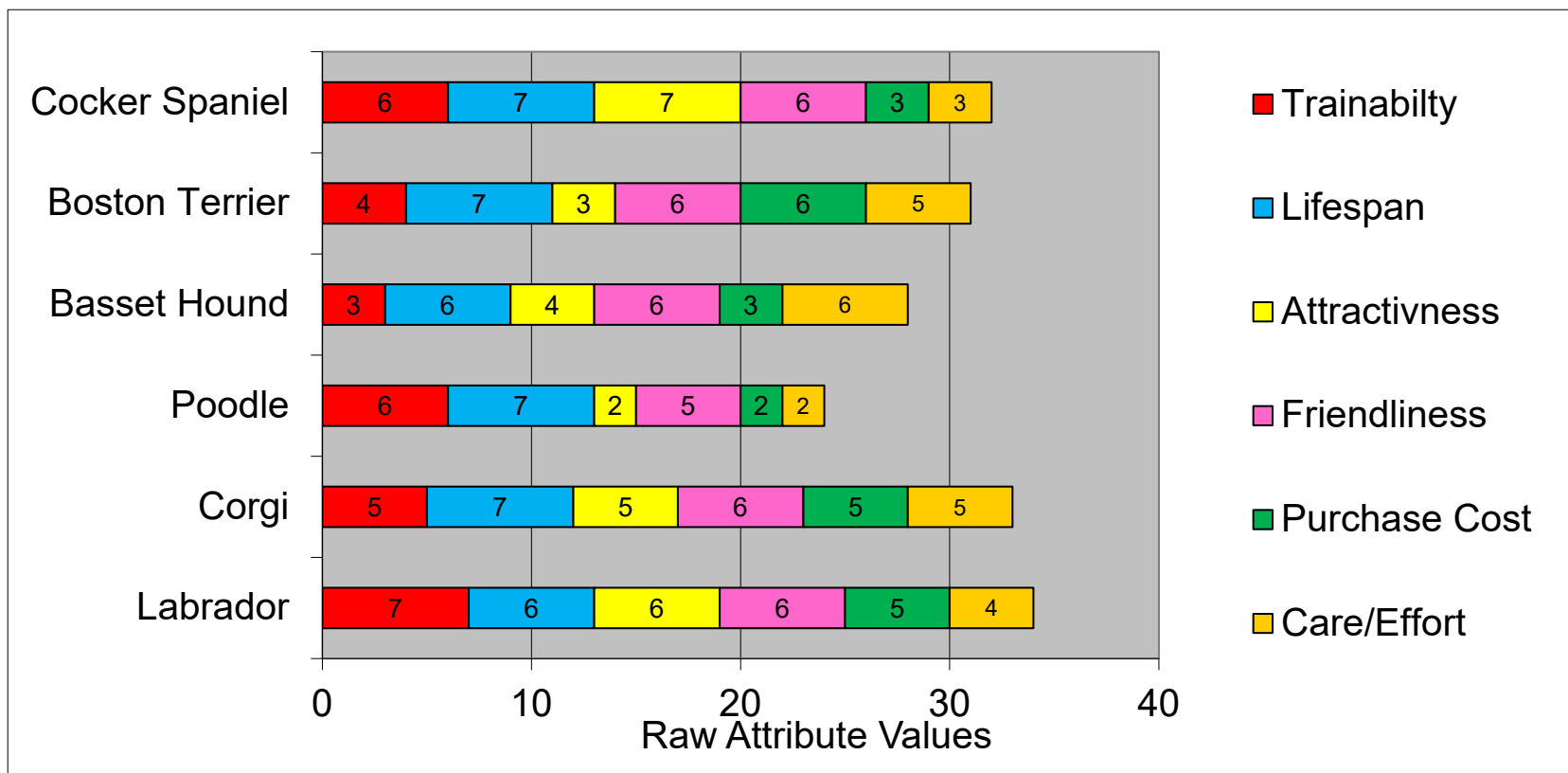


1. Context: You are going to buy a dog as a pet
Decision: Choose a specific breed

Objectives				Values (1-7) of Alternatives					
Name	*Priority	Decision		Labrador	Corgi	Poodle	Basset Hound	Boston Terrier	Cocker Spaniel
		Rank	Weight						
Max Trainability	1			7	5	6	3	4	6
Max Lifespan	6			6	7	7	6	7	7
Max Attractiveness	2			6	5	2	4	3	7
Max Friendliness	3			6	6	5	6	6	6
Min Purchase Cost	5			5	5	2	3	6	3
Min Care Effort	3			4	5	2	5	5	3
Total Value									

* I have "greyed-out" the Priority column because it's job is done

5. Visualizing the Pay-offs to see where value comes from for each Alternative: Breed of dog



6. Inspect the pay-off values for dominance: Breed of dog



Objectives				Alternatives					
Name	Priority	Decision		Labrador	Corgi	Poodle	Basset Hound	Boston Terrier	Cocker Spaniel
		Rank	Weight						
Max Trainability	1			7	5	6	3	4	6
Max Lifespan	6			6	7	7	6	7	7
Max Attractiveness	2			6	5	5	4	3	7
Max Friendliness	3			6	6	6	6	6	6
Min Purchase Cost	5			5	5	2	3	6	3
Min Care Effort	3			4	5	2	5	5	3
Total Value									

The Cocker Spaniel “dominates” the Poodle

6. Look for near-dominance using trade-offs: Breed of dog



Objectives				Alternatives					
Name	Priority	Decision		Labrador	Corgi		Basset Hound	Boston Terrier	Cocker Spaniel
		Rank	Weight						
Max Trainability	1			7	5		3	4	6
Max Lifespan	6			6	7		6	7	7
Max Attractiveness	2			6	5		4	3	7
Max Friendliness	3			6	6		6	6	6
Min Purchase Cost	5			5	5		3	6	3
Min Care Effort	3			4	5		5	5	3
Total Value									

The Boston Terrier almost dominates the Basset Hound - your call, is the trade-off enough to rule out the Basset Hound?

6. Check for identical values on an objective: Breed of dog



(I have left the Basset Hound in the grid for illustration purposes
– I think most people would have removed it)

Objectives				Alternatives					
Name	Priority	Decision		Labrador	Corgi			Boston Terrier	Cocker Spaniel
		Rank	Weight						
Max Trainability	1			7	5			4	6
Max Lifespan	6			6	7			7	7
Max Attractiveness	2			6	5			3	7
Max Friendliness	3			3	3			3	3
Min Purchase Cost	5			5	5			6	3
Min Care Effort	3			4	5			5	3
Total Value									

6: Total value for each alternative: Breed of dog



Objectives				Alternatives			
Name	Priority	Decision		Labrador	Corgi	Boston Terrier	Cocker Spaniel
		Rank	Weight				
Max Trainability	1	2	80	7	5	4	6
Max Lifespan	6	4	30	6	7	7	7
Max Attractiveness	2	1	100	6	5	3	7
Min Purchase Cost	5	3	70	5	5	6	3
Min Care Effort	3	3	70	4	5	5	3
Total Value				1970	1810	1600	1810
Rank				1	2	3	2

↑ Best Choice

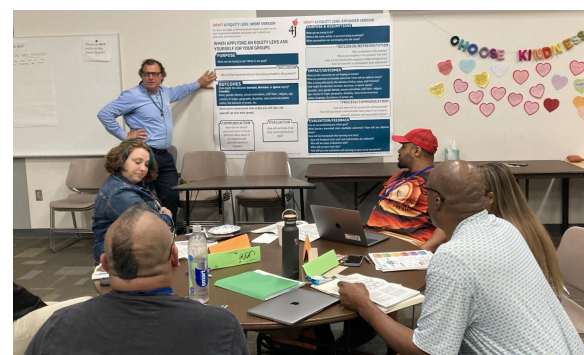
DEF Supports Decision Professionals Teaching Decision Skills



Materials & Curriculum
Experience
Credibility
Coaching
Tailored

A Variety of Models:

- *Intel / Lilly – Led by DEF*
- *Illinois Tech Terry Karner - DEF supported*
- *ASML Kuno Huisman – used DEF materials & experience*
- *Administration and Student Application Springfield/Eugene OR*
- **YOURS!**



HIGH PROBABILITY
OF HIGH VALUE

We Can Help YOU Develop YOUR Vision
with Confidence and Credibility!

Curated Content Available



Decision Tools

- Decision Island
- Decision Workspace
- Conversation for Clarity



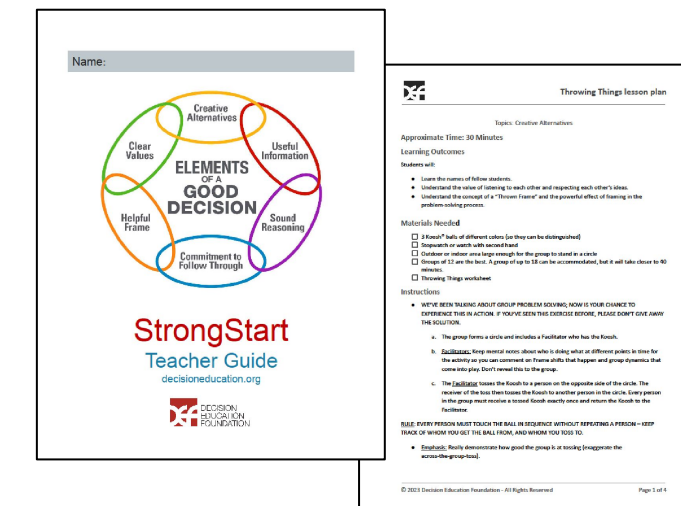
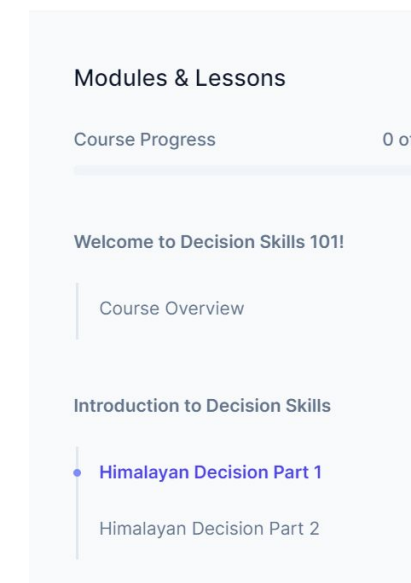
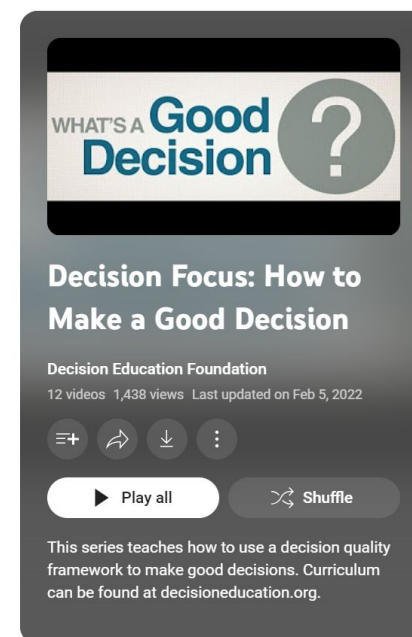
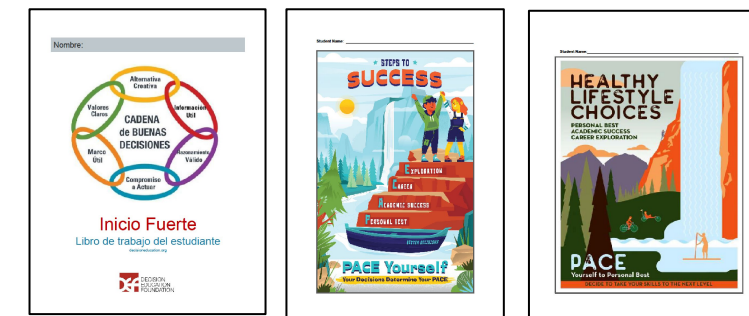
Free Content Online

- Decision Focus – YouTube
 - 12 videos
- Decision Skills 101
 - Self paced class



Student Workbooks and Teacher Guides

- Strong Start – 1 week
- Steps to Success
- Healthy Lifestyle Choices



Some content available in Spanish and Portuguese

Great for the superintendent, administration, principal, parent, or student in your life!

Please help us get more connected in the community, contact Stefanie@decisioneducation.org for inquiries or referrals.

MY DECISION EDUCATION JOURNEY

Prof. dr. Kuno Huisman (k.j.m.huisman@uvt.nl)

Head of Strategic Capacity Decision Quality at ASML

Professor of Decision Making under Uncertainty at Tilburg University

March 2024

My journey in decision education started in Copenhagen ...

1



EDPN Conference 2016 Copenhagen
Presentation Chris Spetzler on DEF

2



Inauguration 2017 Tilburg University

3



International School Eindhoven
March 2018

6



Class of Entrepreneurship
March 2022

5



Class of Entrepreneurship
May 2021

4



International School Eindhoven
February 2019

7



International School Eindhoven
June 2022

8



DQ for secondary schools
June 2022

9



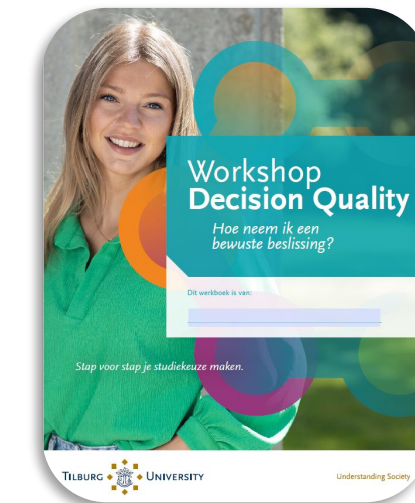
Class of Entrepreneurship
May 2023

... and lead to a teaching package for secondary schools in the Netherlands

The screenshot shows a web browser window with the URL tilburguniversity.edu/nl/onderwijs/bacheloropleidingen/lob-aansluiting/lespakket-studiekeuze-maken. The page features a navigation menu on the left with options like 'Nederlands', 'Zoeken', and 'LOB en aansluiting: voor decanen, mentoren en docenten'. The main content area has a header image of students and a title 'Een weloverwogen studiekeuze: Lespakket Decision Quality'. Below the title, there is a paragraph explaining the package: 'Hoe kun je als docent, schooldecaan of mentor jouw leerlingen ondersteunen in het maken van een weloverwogen studiekeuze? Het lespakket Decision Quality helpt leerlingen om hun studiekeuze in zes stappen te maken op basis van een wetenschappelijk onderbouwde methode. Het lespakket is kosteloos beschikbaar.' A 'Neem contact op' button is visible at the bottom right of the content area.



Presentation



Workbook

The screenshot shows a YouTube video player interface. The main video is titled 'Decision Quality - Je gaat een studiekeuze maken' and has a progress bar at 0:35 / 1:18. The video content shows a circular diagram with six steps: 01 Raamwerk, 02 Criteria, 03 Alternatieven, 04 Informatie, 05 Redenatie, and 06 Actie. To the right, a playlist is visible with six items, each with a thumbnail and duration: 'Decision Quality - Je gaat een studiekeuze maken' (1:19), 'De 6 stappen van Decision Quality' (1:32), 'Decision Quality : Mogelijke valkuilen' (2:33), 'Decision Quality Stap 1 : Raamwerk' (2:32), 'Decision Quality Stap 2 : Criteria' (2:08), and 'Decision Quality Stap 3 : Alternatieven' (1:47).

Instruction videos



April 11, 2024





Decision Making and Leadership

Terrence Karner
Director, Portfolio & Decision Analysis
Astellas Pharma

4/18/2024

Presented to:

**SDP 2024 Annual Conference
Chair's Choice**





Decision Making and Leadership

Terrence Karner
Director, Portfolio & Decision Analysis
Astellas Pharma

1/26/2024

Presented to:

IIT DevUp Program

[ORIGINAL TITLE SLIDE]





Group Activity

- Activity starts in foyer, concludes in classroom
- Debrief activity – observations and lessons learned

Blind Leadership Activity

What was it like to be led?

What was it like to lead?

What was surprising?

What role did communication
play?



Agenda

Introduction / Group Activity 3:10 – 3:30

Dinner Break 3:30 - 3:45p

A Journey Through Decisions 3:45 –4:30

Reflections on Personal Decisions 4:30 – 4:45

Questions / Close 4:45 – 5p





Introduction

- Decisions are the most important engine of leadership. Without decisions, and without action, you have nothing.
- But first, you have to learn HOW to make good decisions
- Quick Introductions around the room

If a bat and a ball
cost \$1.10, and
the bat costs
\$1.00 more than
the ball...
How much does
the ball cost?



If a bat and a ball cost \$1.10, and the bat costs \$1.00 more than the ball...
How much does the ball cost?

$$X + Y = \$1.10$$

$$X - Y = \$1.00$$

$$X = \$1.00 + Y$$

$$(\$1.00 + Y) + Y = \$1.10$$

$$\$1.00 + 2Y = \$1.10$$

$$2Y = \$.10$$

$$Y = \$.05$$

$$X = \$1.05$$





Dinner Break

- Decisions are the most important engine of leadership. Without decisions, and without action, you have nothing.
- But first, you have to learn HOW to make good decisions

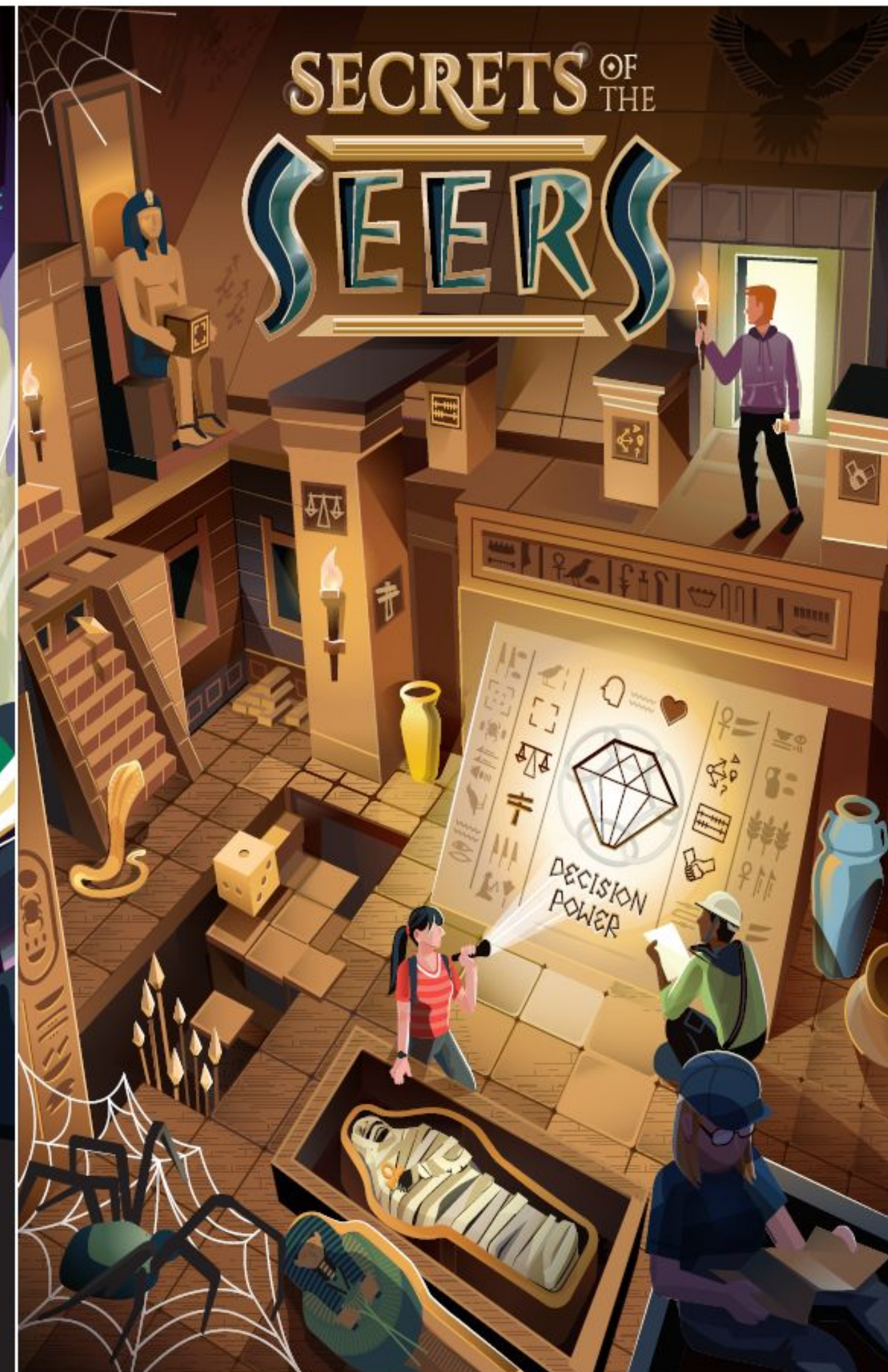
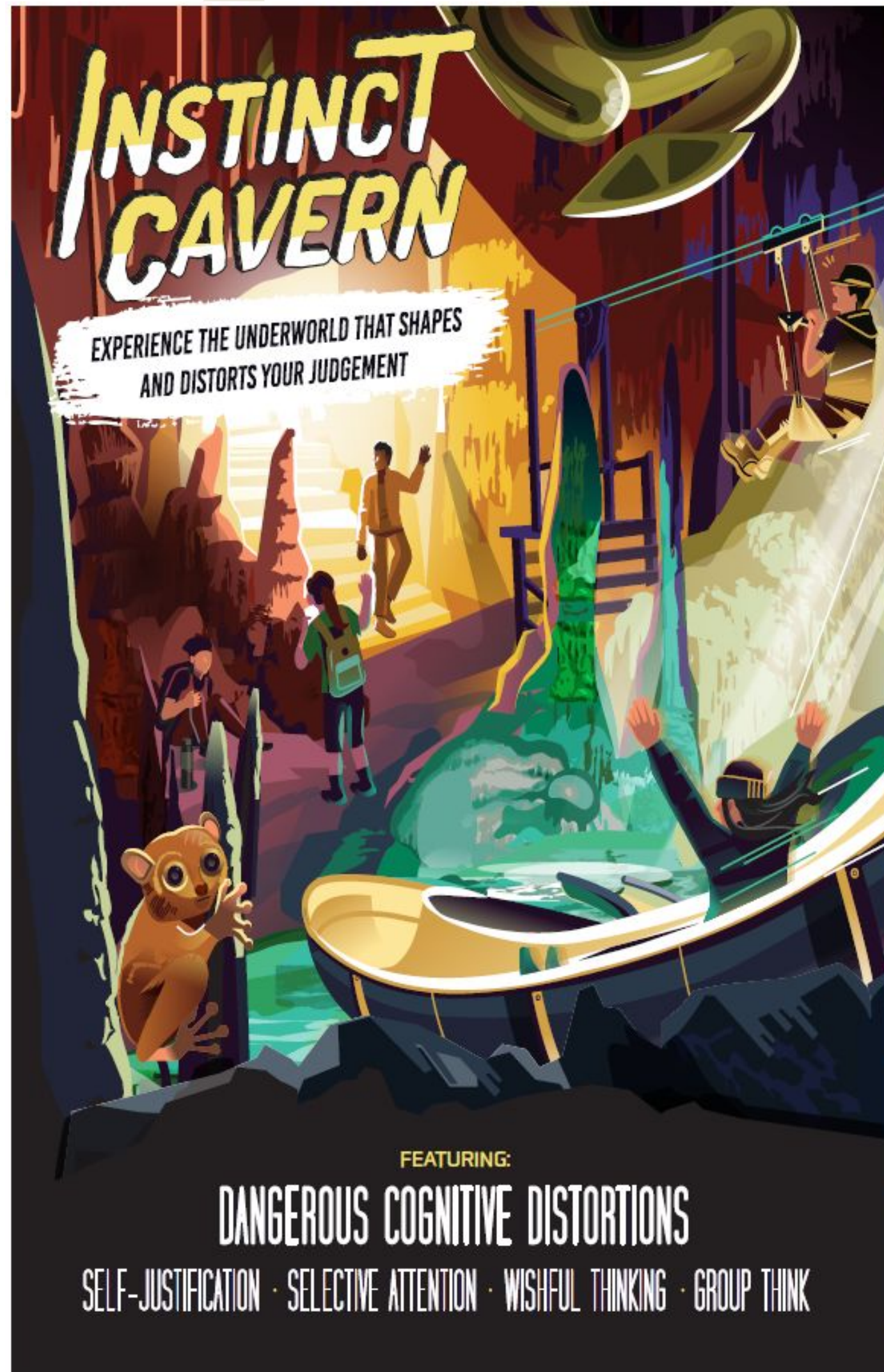


A Journey Through Decision-Making

- We will start with our booklets – but do not open them yet – until we decide where we are going
- Now we will vote – which side do you want to start with first?

DO NOT OPEN
Review Both Sides
What looks more
interesting?

- Open your packets
- Draw two lines to divide blank page into 3 sections
- In section 1, write down 5 big observations about big map
- Work with a partner



DECISION ISLAND



Map Not To Scale

Instinct Cavern

DECISION TRAPS (COGNITIVE BIAS)

28



Here we focus on a few of those biases

1. Anchoring bias.

People are **over-reliant** on the first piece of information they hear. In a salary negotiation, whoever makes the first offer establishes a range of reasonable possibilities in each person's mind.



2. Availability heuristic.

People **overestimate the importance** of information that is available to them. A person might argue that smoking is not unhealthy because they know someone who lived to 100 and smoked three packs a day.



3. Bandwagon effect.

The probability of one person adopting a belief increases based on the number of people who hold that belief. This is a powerful form of **groupthink** and is reason why meetings are often unproductive.



4. Blind-spot bias.

Failing to recognize your own cognitive biases is a bias in itself. People notice cognitive and motivational biases much more in others than in themselves.



5. Choice-supportive bias.

When you choose something, you tend to feel positive about it, even if that **choice has flaws**. Like how you think your dog is awesome – even if it bites people every once in a while.



6. Clustering illusion.

This is the tendency to **see patterns in random events**. It is key to various gambling fallacies, like the idea that red is more or less likely to turn up on a roulette table after a string of reds.



7. Confirmation bias.

We tend to listen only to information that confirms our **preconceptions** – one of the many reasons it's so hard to have an intelligent conversation about climate change.



8. Conservatism bias.

Where people favor prior evidence over new evidence or information that has emerged. People were **slow to accept** that the Earth was round because they maintained their earlier understanding that the planet was flat.



9. Information bias.

The tendency to **seek information when it does not affect action**. More information is not always better. With less information, people can often make more accurate predictions.



10. Ostrich effect.

The decision to **ignore dangerous or negative information** by "burying" one's head in the sand, like an ostrich. Research suggests that investors check the value of their holdings significantly less often during bad markets.



11. Outcome bias.

Judging a decision based on the **outcome** – rather than how exactly the decision was made in the moment. Just because you won a lot in Vegas doesn't mean gambling your money was a smart decision.



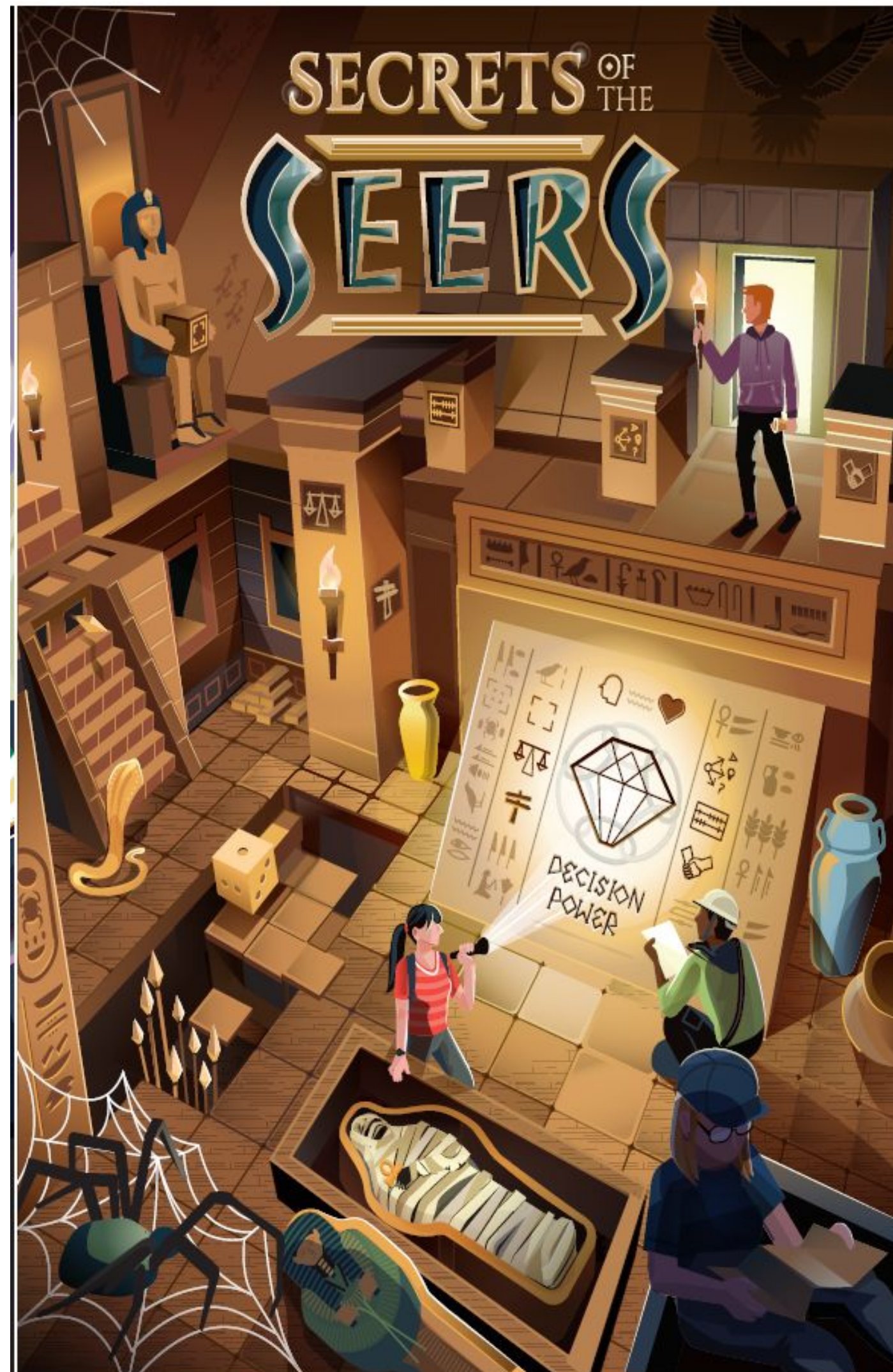
12. Overconfidence.

Some of us are **too confident about our abilities**, and this causes us to take greater risks in our daily lives. Experts are more prone to this bias than laypeople, since they are more convinced that they are right.



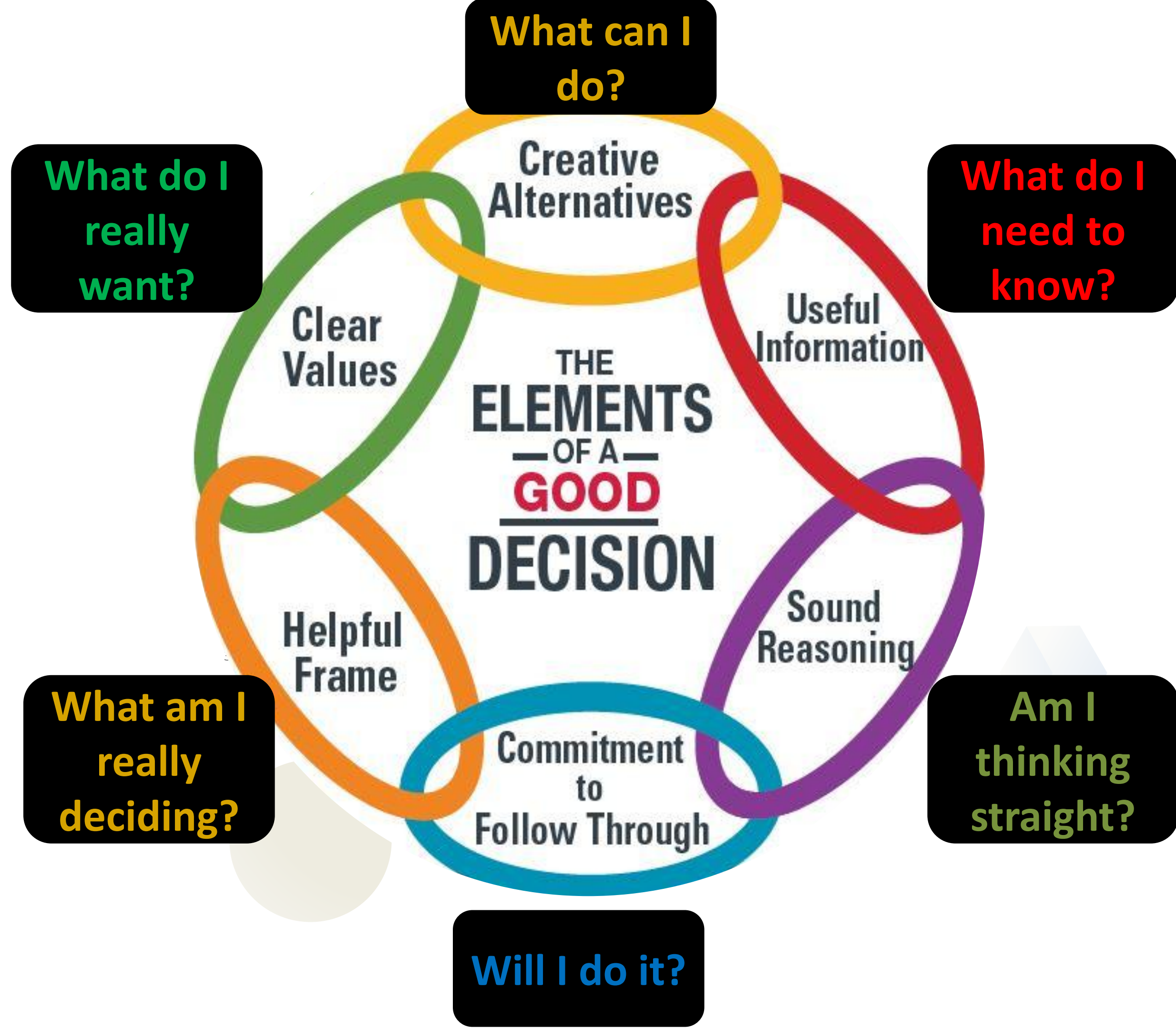
Secret of the Seers

[What makes a good decision
\(Video\)](#)



There are six elements to a good decision

Consider this your new superpower for making good decisions





Personal Reflections on Decision-making

- What I learned in a lifetime: using decision skills for my career as a strategist and decision analyst
- Recently someone asked me: “Why do you really feel a connection to this work?”



Questions / Closing

- What questions do you have about decision-making?
- What interests you the most about this kind of thinking?
How might you apply it to your own decisions?

Thank You

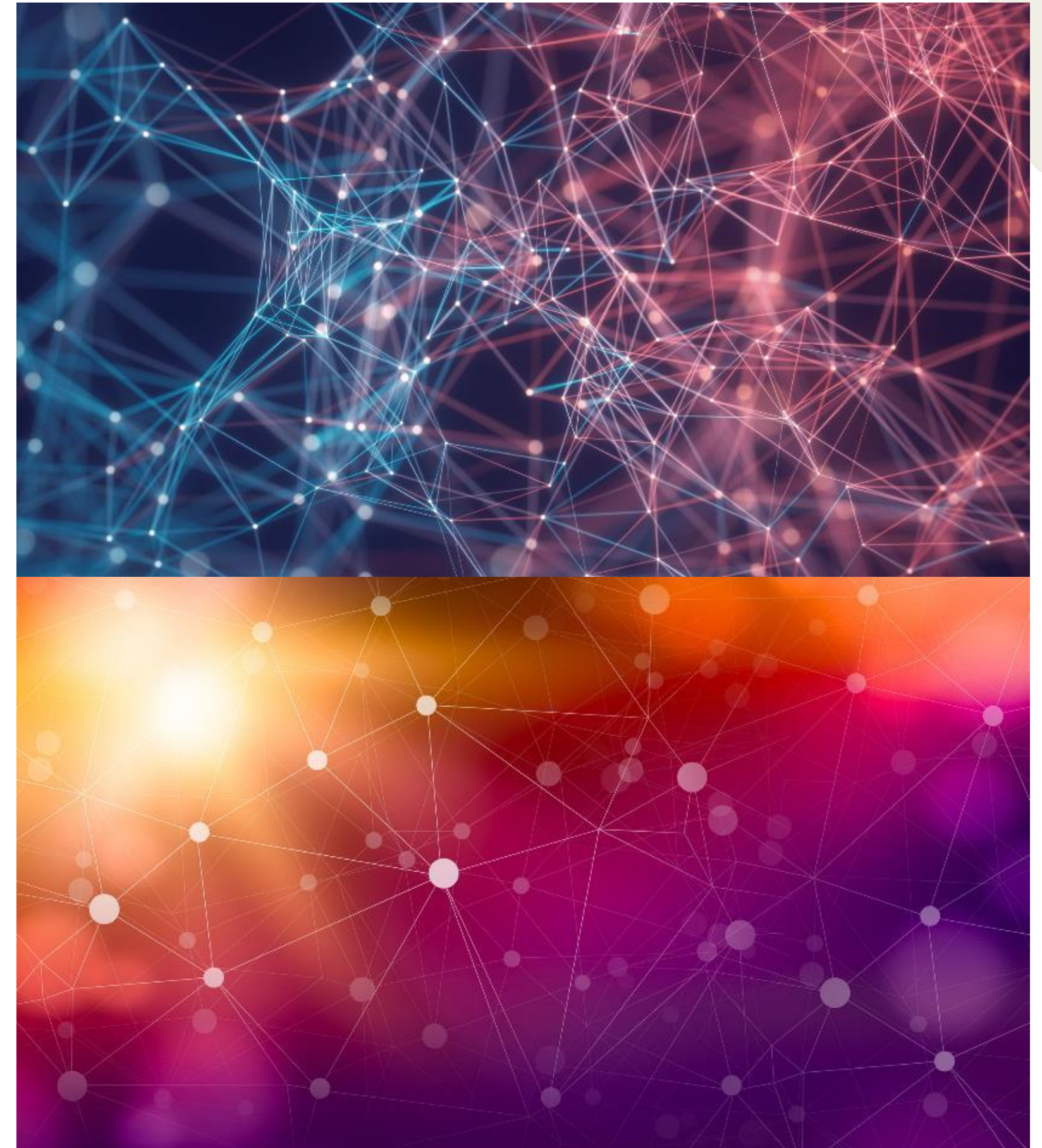
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www.decisioneducation.org



Who We Are 

Clarity4Action

Our integrated approach applies to decisions related to life readiness.

Empowering Decisions

- **Powerful Partnerships:** Collaborating for impactful decision education
- **Decision Mastery:** Tailored programs for parents, teens, young adults, and adults – 1 hour, day-long, or multi-week
- **Business Model:** Effective partnership strategies for organizations and Clarity4Action hosted courses



BOEING DECISION QUALITY TEAM



Steve Glickman



Eric Basalik



Greg Chandra

Classes & Events



- 1. Raising Confident Decision Makers –**
One-Hour Free Masterclass for Boeing Parents
- 2. Decision Parenting –** an 8-week course live online
- 3. Teen Decision Mastery –** a one-day in-person intensive



THE VIDA METHOD™

Your path to a confident decision

VALUES

Who Am I?

MYIO
My Internal
Operating System

How Am I?

**DECISION
PROCESS**

What Could I?

ACTION

How Will I?



ONE-DAY INTENSIVE

Indecision is Costing You Teen Decision Mastery

With Decision Coaches: Kristen Jawad & Amy Day

Sponsors: Boeing DQ Group, Boeing Leadership Network, SPEEA, Ed Wells Partnership

CONNECT WITH AMY DAY OR GET THE Decision Wheel Guide

Executive Director & Decision Coach
of Clarity4Action.org



Visit clarity4action.org/connect or
email Amy at amy@clarity4action.org



Download the Decision Wheel
clarity4action.org/decisionwheel




Decision Wheel Guide

SIX STEPS TO CLARITY

Often decisions can be difficult because no single option meets all of our needs. The Decision Wheel offers a framework to get more of what you want out of your decision. Start at the top, work clockwise, and go through at least twice. Give equal attention to each section for your best decision. It's OK to bounce around.

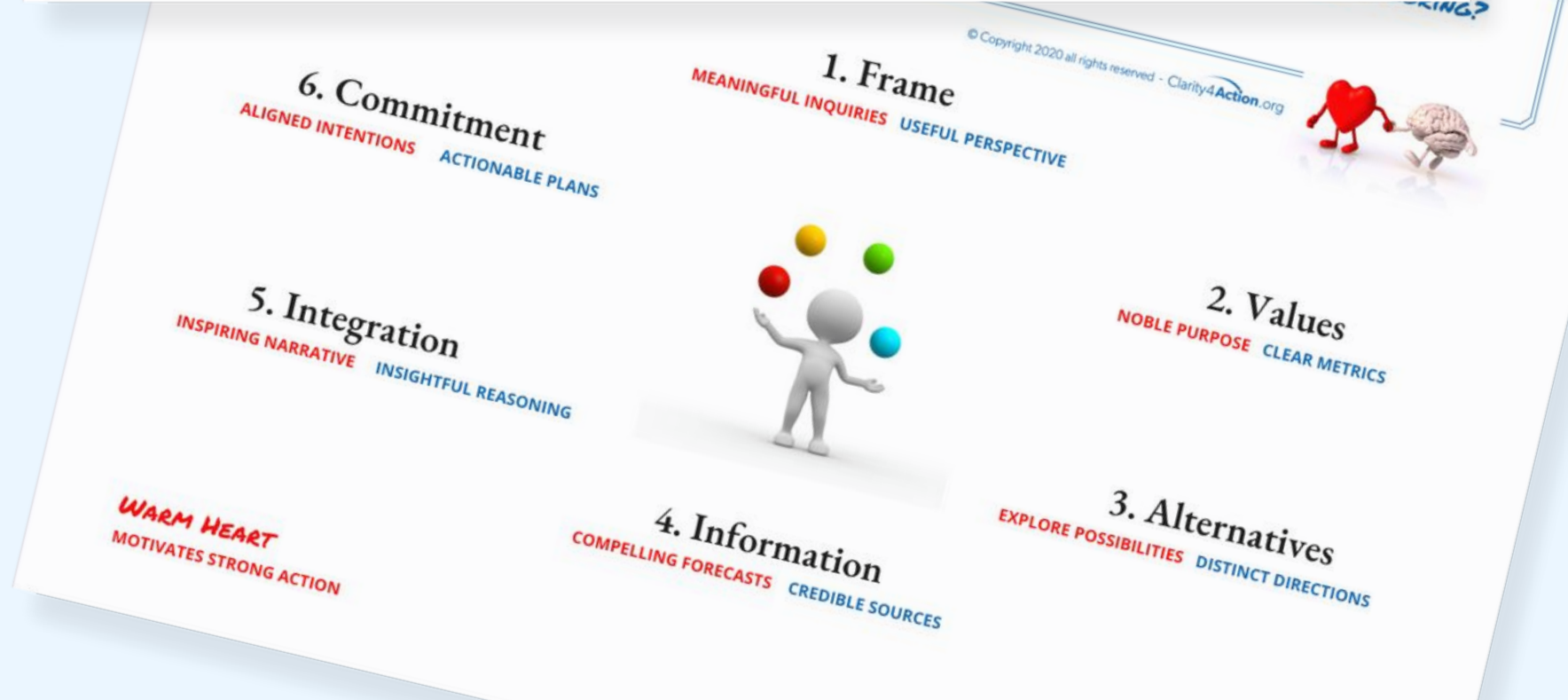

GENERALLY, WHAT AM I DECIDING OR EXPLORING?
This is your first decision frame and likely to shift as you explore it. What question am I pondering? Is there a time constraint?


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- 1. Frame**
MEANINGFUL INQUIRIES **USEFUL PERSPECTIVE**
Frame answers "What am I deciding?" and has three important aspects. Purpose orients you to what you want. Perspective focuses on how you or others could tackle the issue. Realm defines what's in and what's out.
- 2. Values**
NOBLE PURPOSE **CLEAR METRICS**
Values look at "What do I care about or want?" and reveal your personal values and concrete option measurements. Evaluate and rank your values and preferences. Identify how well each need is met for each alternative.
- 3. Alternatives**
EXPLORE POSSIBILITIES **DISTINCT DIRECTIONS**
Apply creative problem solving, expansively thinking, "What could I...?" Brainstorm possible ways to combine options to get more of what you want. Ask yourself, "What is possible? What would someone else do?"
- 4. Information**
COMPELLING FORECASTS **CREDIBLE SOURCES**
Trusted information helps you better understand the possible consequences of your choices. Ask yourself, "What uncertainties am I facing? Can I reduce uncertainty? What information would clarify my alternatives?"
- 5. Integration**
INSPIRING NARRATIVE **INSIGHTFUL REASONING**
Bring your values, alternatives, and information together to fully understand the consequences of each possible choice. Consider trade-offs and pick the best choice. Declare your decision stating, "I have decided to..." If you're not ready to act, revisit each section for clarity.
- 6. Commitment**
ALIGNED INTENTIONS **ACTIONABLE PLANS**
What actions or resources do you need to carry out your decision? Ask yourself, "What could get in the way or keep me from following through? How can my strengths or having a buddy support powerful action? What is my first step? What implementation decisions do I need to make?"

WARM HEART
MOTIVATES STRONG ACTION

COOL HEAD
FINDS GOOD ANSWERS




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- 1. Frame**
MEANINGFUL INQUIRIES **USEFUL PERSPECTIVE**
- 2. Values**
NOBLE PURPOSE **CLEAR METRICS**
- 3. Alternatives**
EXPLORE POSSIBILITIES **DISTINCT DIRECTIONS**
- 4. Information**
COMPELLING FORECASTS **CREDIBLE SOURCES**
- 5. Integration**
INSPIRING NARRATIVE **INSIGHTFUL REASONING**
- 6. Commitment**
ALIGNED INTENTIONS **ACTIONABLE PLANS**

WARM HEART
MOTIVATES STRONG ACTION

COOL HEAD
FINDS GOOD ANSWERS



Q&A

Panel Discussion

Questions for you:

- What inspires you?
- Who are you hoping to serve?
- How can we help you?
- What's the first step?
- What do you need?





Get Involved

Decision Education Interest Group



- Advancing personal decision-making skills
- Targeting all age groups: K-12 to adults
- Teaching decision-making in formal & informal settings
- Transforming decision-making approaches
- Enhancing life choices with confidence & clarity