










Constructed Development and Psychometrics:

the Missing Link to Better Personality Data!

Dr Darren Stevens

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Outline of Today's Talk

-  What is Personality?
-  What is OCEAN?
-  What are Psychometrics?
-  What is Psychometric Isomorphism?
-  What is missing from the above?
-  What is Constructed Development Theory?
-  How CDT can fill the gap!

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Why are we here?

Let's set the scene immediately: I have a LOT of information in this presentation and you will not be able to take it all in.

I am simply setting the scene and if you're interested, you can have the slides afterwards to read at your leisure.

Do not think you must take it all in as you simply cannot. Our working memory will allow us to recall about 10% of this at best!

The number of slides is never the problem. The amount of information on each slide IS the problem. So I've gone with that premise and we have 4000 slides :)

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The word personality itself stems from the Latin word *persona*, which refers to a theatrical mask worn by performers in order to either project different roles or disguise their identities.

Whatever the behaviour, personologists—as those who systematically study personality are called—examine how people differ in the ways they express themselves and attempt to determine the causes of these differences.

Personality is defined as the characteristic sets of behaviours, cognitions, and emotional patterns that evolve from biological and environmental factors. While there is no generally agreed upon definition of personality, most theories focus on motivation and psychological interactions with one's environment.

Super-Ego is the internalised representation of society at large mediated to some degree through your parents..

Characteristics of Personality



Consistency



Psychological and physiological



Behaviours and actions



Multiple expressions

Psychodynamic Theories

Sigmund Freud
Erik Erikson

Behavioural Theories

BF Skinner
John B Watson

Humanist

Carl Rogers
Abraham Maslow

So what exactly makes up a personality? Traits and patterns of thought and emotion play important roles as well as the following fundamental characteristics of personality:

Consistency: There is generally a recognizable order and regularity to behaviors. Essentially, people act in the same ways or similar ways in a variety of situations.

Psychological and physiological: Personality is a psychological construct, but research suggests that it is also influenced by biological processes and needs.

Behaviours and actions: Personality not only influences how we move and respond in our environment, but it also causes us to act in certain ways.

Multiple expressions: Personality is displayed in more than just behavior. It can also be seen in our thoughts, feelings, close relationships, and other social interactions.

Psychodynamic theories of personality are heavily influenced by the work of Sigmund Freud and emphasize the influence of the unconscious mind on personality. Psychodynamic theories include Sigmund Freud's psychosexual stage theory and Erik Erikson's stages of psychosocial development.

Behavioral theories suggest that personality is a result of interaction between the individual and the environment. Behavioral theorists study observable and measurable behaviors, often ignoring the role of internal thoughts and feelings. Behavioral theorists include B.F. Skinner and John B. Watson.

Humanist theories emphasize the importance of free will and individual experience in developing a personality. Humanist theorists include Carl Rogers and Abraham Maslow.

Personality: Individual differences in characteristic patterns of thinking, feeling, and behaving.

Can personality change?



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Yes. A study published in the January 2017 journal *Psychological Bulletin* synthesized 207 published research papers and found that personality may be altered through therapy. "For the people who want to change their spouse tomorrow, which a lot of people want to do, I don't hold out much hope for them," said study researcher Brent Roberts, a social and personality psychologist at the University of Illinois. However, he continued, "if you're willing to focus on one aspect of yourself, and you're willing to go at it systematically, there's now increased optimism that you can affect change in that domain."

Not Everyone Agrees...



behaviour is controlled not by hypothetical traits but according to the degree of regularity of external stimuli



personality traits are only consistent if the situation/context is consistent



patterns of variability over different situations are crucial to determining personality



behavioural consistency does not reflect stable personality traits



the environment evokes and shapes the illusion of such traits



trait theories do not explain *why* an individual behaves in a certain way

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Walter Mischel and Albert Bandura - behaviour is controlled not by hypothetical traits but according to the degree of regularity of external stimuli. My theory says the opposite to this...

That is, they believe that personality traits are only consistent if the situation is consistent and that they vary once the situation changes.

In their view, behavioural consistency does not reflect stable personality traits. Rather, it is the environment that evokes and shapes the illusion of such traits.

In my theory, I come at this from a different angle. We construct our environment, and depending on our Dynamic Intelligence level, we are or are not aware of this construction.

Averaging over such situations to find an overarching "trait" in fact masks critical differences among individuals

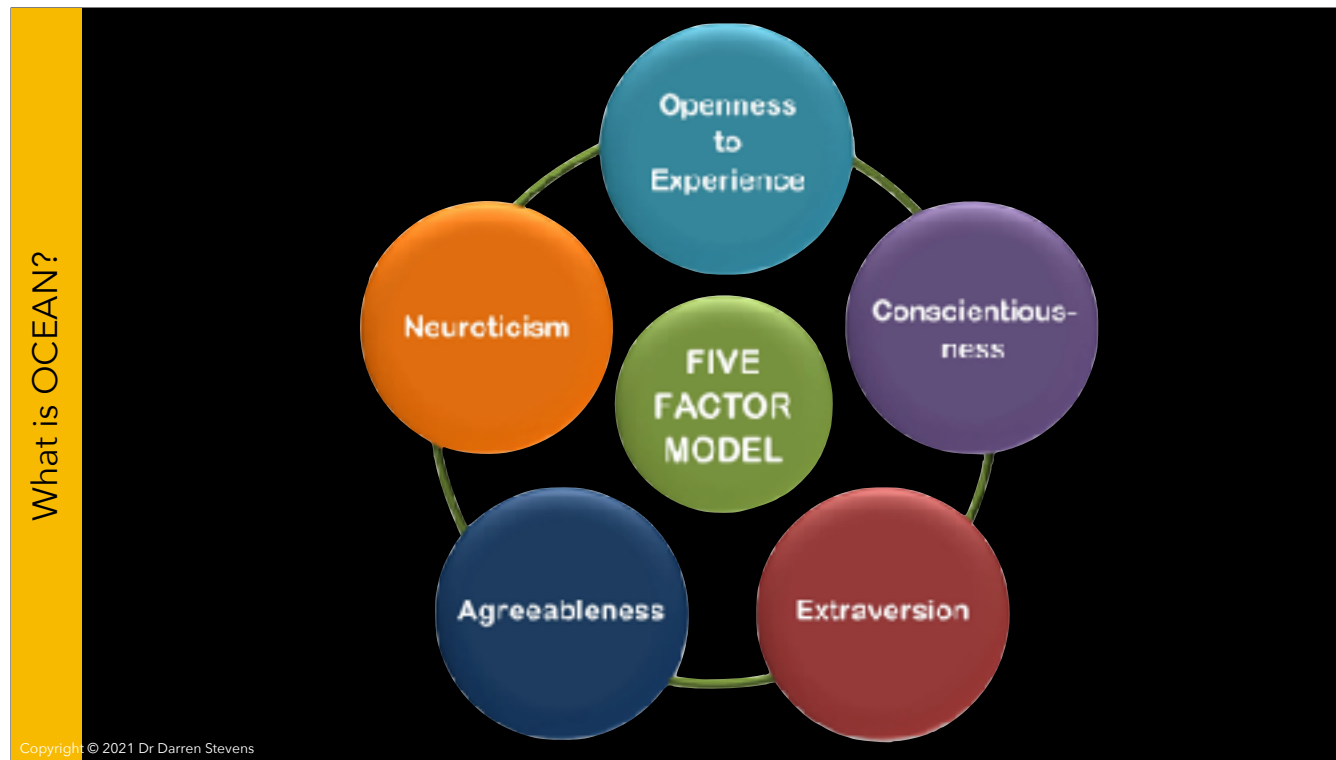
Social learning theory would contend that personality is more susceptible to change than would trait theory.

WHY this happens will be addressed later.

So how do we currently Measure Personality?



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Personality is described on the basis of an individual's score on five major traits. The acronym OCEAN is often used to convey these five traits, which are Openness to Experience (O), Conscientiousness (C), Extraversion (E), Agreeableness (A) and Neuroticism or Emotional Stability (N).

What is OCEAN?	High Scores	Joiner Talkative Active Affectionate	Trusting Lenient Soft-Hearted Cool-Natured	Conscientious Hard Working Well Organised Punctual	Worried Temperamental Self-Conscious Emotional	Imaginative Creative Original Curious
		Extraversion	Agreeableness	Conscientiousness	Neuroticism	Openness to Experience
		Activity	Altruism	Achievement	Angry Hostility	Actions
		Assertiveness	Compliance	Compliance	Anxiety	Aesthetics
		Excitement	Modesty	Modesty	Depression	Fantasy
		Gregariousness	Straight-forward	Straight-Forward	Impulsiveness	Feelings
		Positive Emotion	Tender-Minded	Tender	Self-Conscious	Ideas
		Warmth	Trust	Trust	Vulnerability	Values
		Intraversion	Antagonism	Lack of Direction	Emotional Stability	Closed to Experiences
		Loner Quiet Passive Reserved	Suspicious Critical Ruthless Irritable	Negligent Lazy Disorganised Late	Calm Even Tempered Comfortable Unemotional	Down-to-Earth Uncreative Conventional Uncurious
	Low Scores					

Extraversion

High

- Open and talkative
- Competitive, enthusiastic and persuasive
- Enjoys a fast pace and variety at work
- Gregarious
- Socially active and energetic
- Can be impulsive or indiscreet
- Needs praise - enjoys attention
- Can lack concentration in routine or long tasks

Low

- Reserved and shy in company
- Able to concentrate on long tasks
- Prefers a calm environment
- Dislikes the limelight and attention
- Inhibited and somewhat reluctant in teams
- Not a natural communicator
- Deliberate, and reflects on things
- Lacks spontaneity

Intraversion

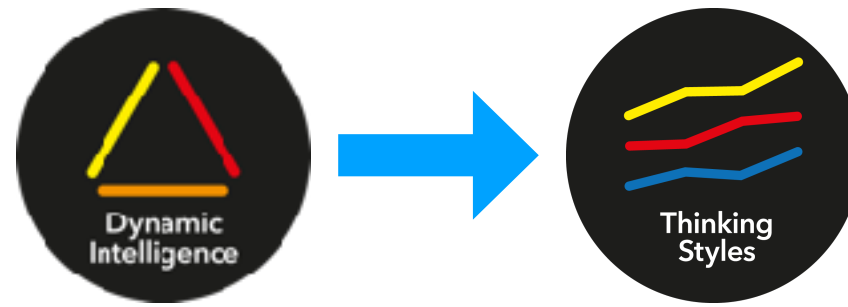
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These are the ATTRIBUTES ASSIGNED to Extraversion, but are they true? Real?

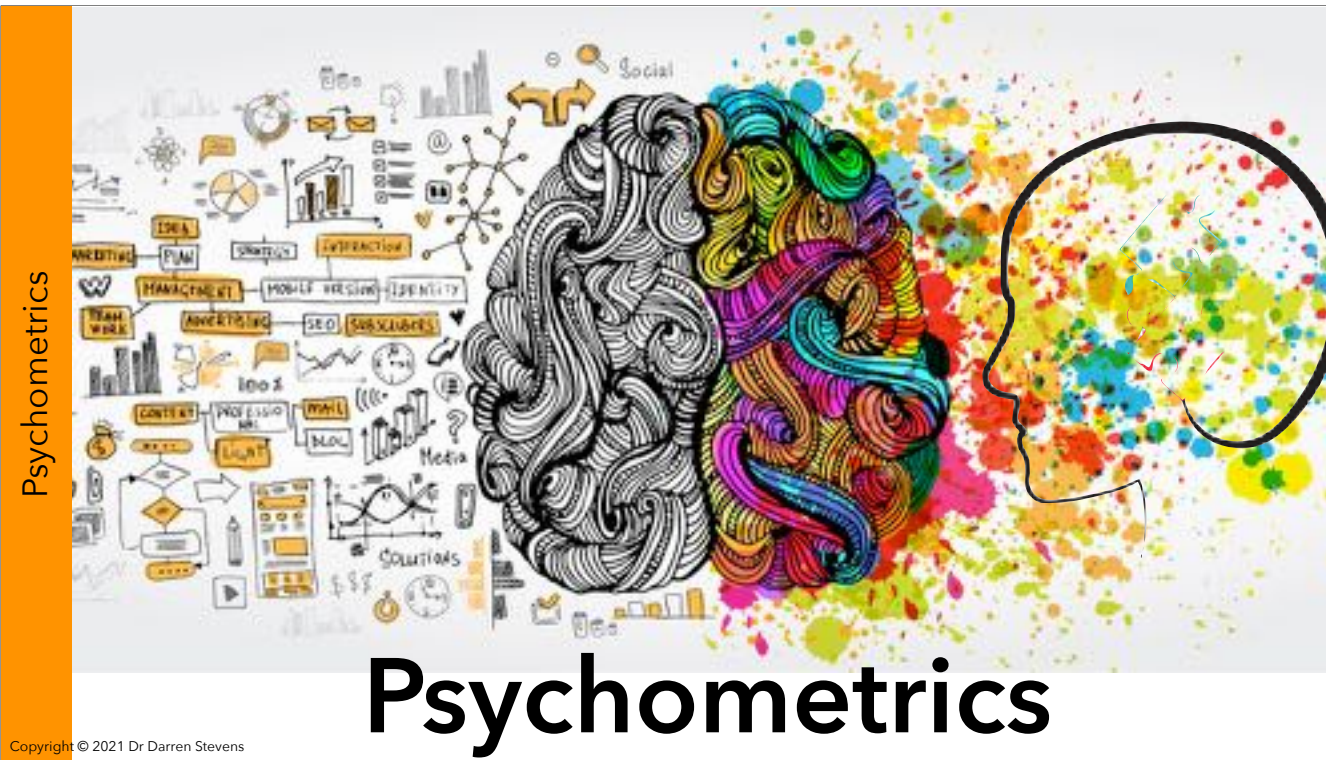
Extraversion is characterised by excitability, sociability, talkativeness, assertiveness, and high amounts of emotional expressiveness. People who are high in extraversion are outgoing and tend to gain energy in social situations. Being around other people helps them feel energised and excited.

Social events can feel draining and introverts often require a period of solitude and quiet in order to "recharge."

Can Traits change?

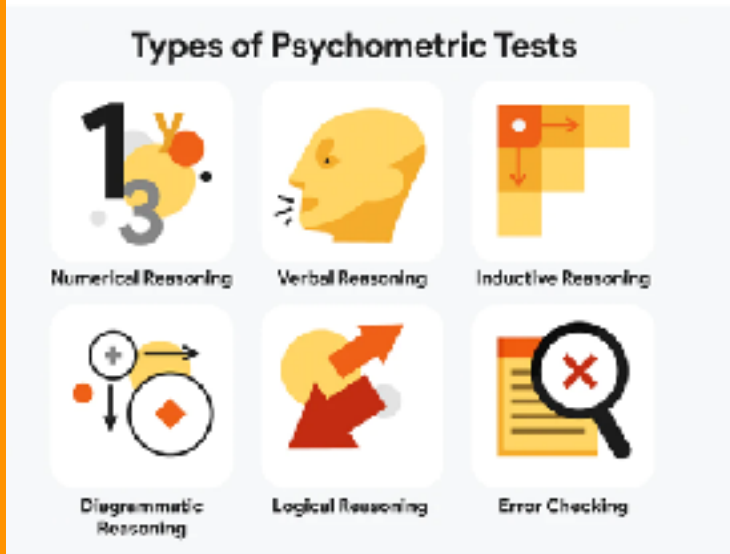


I was told that they do not. But I know Prof. Stephen Wood at Liverpool Uni has been working on this and has a number of papers on it. What else measures these traits?



Psychometrics is a field of study concerned with the theory and technique of psychological measurement. ...
The field is concerned with the objective measurement of skills and knowledge, abilities, attitudes, personality traits, and educational achievement.

What Can Be Measured in a Psychometric Test?



- Cognitive tests
- Personality tests
- Aptitude tests








There are several different types of psychometric tests that can be used to assess your academic achievement, job-related skills, attitudes toward people, and the degree to which you can tackle the demands of a job

Cog - IQ, verbal, Maths, reasoning, knowledge, skills, education.

Person - measure aspects of personality for employers to make hiring or promotion decisions such as attitude, emotions and motivation.

Aptitude - your capacity to cope in a job role. But skill based, not cognitive based. Personality tests come under this. Stress coping and managing.

A Few Stats...

-  87 percent of companies to adopt such measures in the near future.
-  8/10 U.S.A companies use psychometrics to remove 30% of unqualified applicants.
-  70% complete personality tests for companies
-  52% of companies use psychometric instruments
-  49% use MBTI
-  Hogan - 25%
-  Firo-B - 24%



Empirically based measures

- The Sixteen Personality Factor Questionnaire (16PF)
- The California Psychological Inventory (CPI)
- The Comrey Personality Scales (CPS)
- The Jackson Personality Inventory (JPI)
- The Minnesota Multiphasic Personality Inventory (MMPI)
- The Multidimensional Personality Questionnaire (MPQ)

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There are two types of measures: Type and Trait

The empirically based measures have been developed without specific personality models guiding instrument development.

Many psychologists have recently shifted away from type theory in favor of trait theory.

Much research has revealed that variation in human personality indeed occurs along continuous dimensions and not as discrete categories, and viewing personality in this way allows for more flexible categorisation of individuals by eliminating the 'boxes' into which type theory tries to fit people.

No matter how many dichotomies of traits you choose to look at, a type theory approach will always have some limit to the number of ways a person's personality could potentially be oriented.

With a trait theory approach, there is an infinite number of places on the sliding scales of traits individuals could fall.



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Theory-based instruments

- The Big Five Inventory (BFI)
- The Big Five Questionnaire (BFQ)
- The Five-Factor Personality Inventory (FFPI)
- The NEO Five-Factor Inventory
- The NEO Personality Inventory
- The Eysenck Personality Questionnaire (EPQ)
- The HEXACO Personality Inventory (HEXACO-PI)
- The MyersBriggs Type Indicator (MBTI)
- The Nonverbal Personality Questionnaire (NPQ)

The theory-based instruments have been purposefully developed to measure specific theoretical models of personality.

16PF Questions

Cold? Sad? Smurf? →

I take time out for others.

I know that I am not a special person.

I take control of things.

I try to forgive and forget.

I keep in the background.

I can't do without the company of others.

I trust others.

I am not easily frustrated.

I cheer people up.

I often feel uncomfortable around others.

I seldom feel blue.

I dislike myself.

I take charge.

I let others make the decisions.

I believe in the importance of art.

I like to get lost in thought.

I wait for others to lead the way.

I am willing to talk about myself.




I find it difficult to approach others.

I enjoy my privacy.

These are the types of questions we get. We'll come on to why I'm not keen on them later.



How are Psychometrics Evolving?

Gamifying them!

-  It reduces socially desirable responding, where candidates respond based on what they think the employer wants to hear.
-  It minimises the effect of lack of self-awareness in the prospective employee as he or she may be unaware of his or her own internal processes.
-  It reduces test anxiety that some prospective employees may experience in a traditional testing environment.

But a larger benefit of gamifying testing is to make the process as meritocratic as possible. Some firms have also hidden details of candidates' university to eliminate "unconscious bias." Such companies include Deloitte, the NHS, HSBC and the BBC. Universities will also use a similar system by 2017.

"Our psychometric games have been designed to measure dimensions of the Big Five personality framework, specific cognitive functions and General Mental Ability"

	<p>Firefly Freedom – measures innovation by asking players to catch fireflies to provide light for their family during the winter</p>
	<p>Cosmic Cadet – measures resilience and problem solving, as the player navigates a spaceship through space</p>
	<p>Yellow Hook Reef – measures general ability, such as verbal, numerical and abstract reasoning</p>

Gamifying might be the future of psychometrics

In conclusion, personality testing has come a long way from traditional questions about mood, and companies and job candidates seem to be embracing this change.

Why would we need to "gamify" them?

"This approach to psychometric testing in the workplace could well have been triggered by the gap between personality test scores and actual job performance."

- REFERENCE

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Deloitte customized a "game" which places potential employees in real life work situations at the firm.

The 20-minute online game incorporates videos and tasks from real Deloitte employees based on scenarios that occur regularly in the workplace.

The game serves as the first round of the selection process and follows the same principals as traditional psychometric testing commonly used by large consulting and professional firms and allows employers to assess candidates' performances.

It's flashy to attract graduates who are applying for positions with multiple employers.

According to Deloitte: "It's highly competitive, and we feel this is not innovating for the sake of innovating, but we do feel that it's reflective of our environment.

Having a boring, lengthy process that has no real connectivity to what they'll be doing at the firm is not ideal. We absolutely wanted to address that."

Is it because they don't work. They don't tease out anything useful. Are companies finally realising this and adapting them?

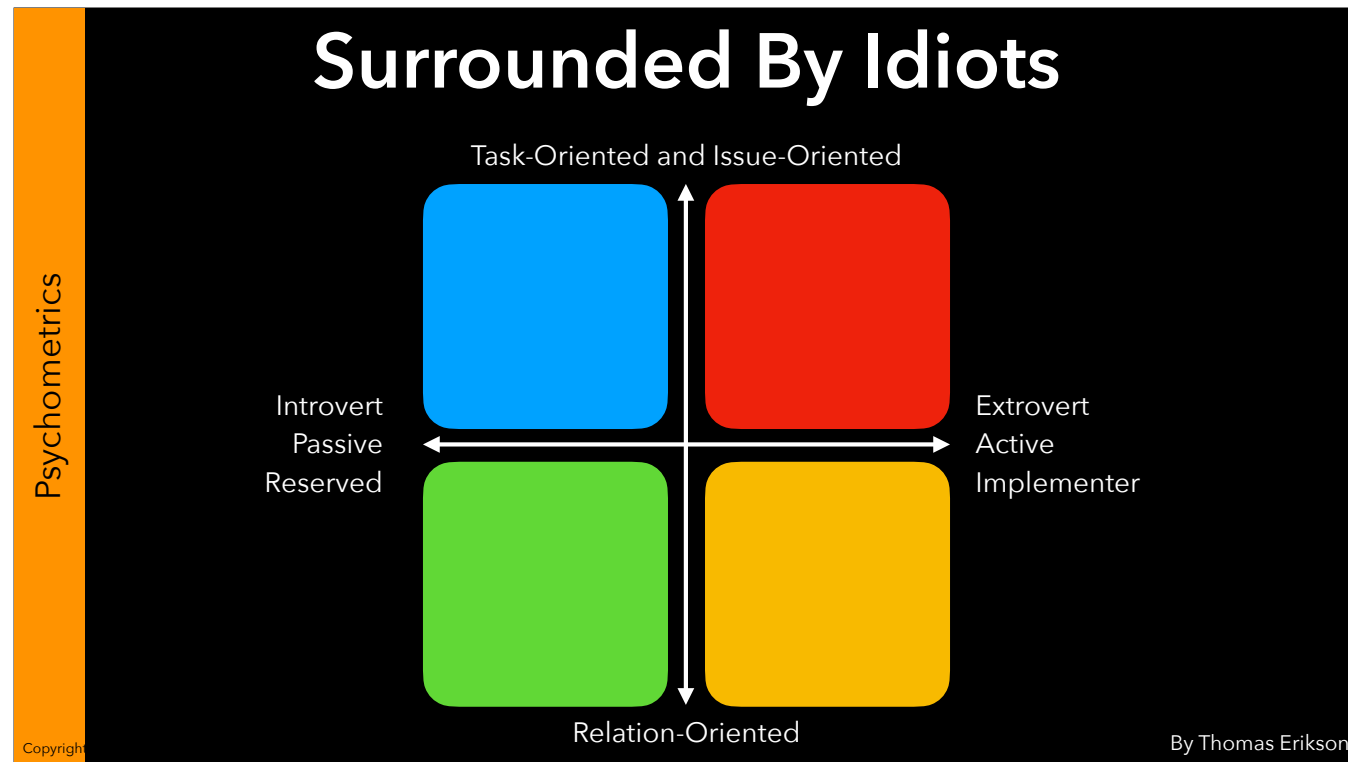
What are Psychometrics missing that might be found in a game? We'll come on to this.

Myers Briggs Type Indicator

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		Sensing		Intuitive			
Judging	ISTJ THE INSPECTOR Responsible, Organized, Dependable, Private, Hardworking with sound practical judgement 11.6%	ISFJ THE PROTECTOR Warm, Considerate, Gentle, Responsible, Enjoys doing helpful work behind the scenes 13.2%	INFJ THE COUNSELOR Reflective, Idealistic, Organized, Private, Quiet, caring, Enjoys intellectual stimulation 1.5%	INTJ THE MASTERMIND Imaginative, Strategic, Logical, Reserved, Smart by own original ideas, an innovator 2.1%	Introvert		
	ISTP THE CRAFTY Action-oriented, Hands-on practically, Enjoys outdoors, Skilled for things that work 4.2%	ISFP THE CRAFTSMAN Warm, Sensitive, Adaptable, Feeling, Private, Enjoys rich colors, and doing meaningful work 8.8%	INFP THE HEALER Sensitive, Creative, Idealistic, Perceptive, Values inner harmony, Focus on possibilities 4.1%	INTP THE ARCHITECT Intellectual, Logical, Sober, Calm, Imaginative, Private, Enjoys creative problem solving 3.3%			
	ESTP THE PERCUSSOR Action-oriented, Fun, Spontaneous, Bold, Good problem solver, Spontaneous 4.3%	ESFP THE PERFORMER Sociable, Spontaneous, Enthusiastic, Enjoys making people feel good 8.5%	ENFP THE CHARMER Warm, Friendly, Playful, Full of energy, Spontaneous, People oriented, Enjoys new ideas 8.1%	ENTP THE INVENTOR Objective, Intellectual, Verbal, Strategic, Enjoys new ideas and challenges, Tough love 8.1%			
	ESTJ THE SUPERVISOR Efficient, Organized, Logical, Analytical, Results driven, Traditional, Likes to get things done 8.7%	ESFJ THE PROVIDER Good interpersonal skills, Warm, Enjoys people, Practical, Hardworking, Enjoys being active 12.2%	ENFJ THE TEACHER Charismatic, Idealistic, Inspiring, Warm, Supportive, Values connection with people 2.1%	ENTJ THE COMMANDER Visionary, Bold, Change agent, Logical, Decisive, Likes to lead, Organized 1.8%			
Judging	Thinking	Feeling	Thinking	Extrovert			

I'm sure everyone here knows what the MBTI is and does...
 Do you consider the MBTI a psychometric?



There are other systems, but as they all suffer from psychometric isomorphism, I can address them all at once in the next section. I will also be addressing them in my up-coming book.

Psychometric Isomorphism

What is Psychometric Isomorphism?

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From the available literature, it could be argued that psychology is supposed to be a dictionary of behavioural and thinking terms, but in reality, it is simply a thesaurus. Each new word professing to redefine the previous, when in reality it is acting as a synonym or even neologism rather than a replacement. This is no more evident than in trait theory where I argued in my literature review that the missing link for each trait is what we're going to discuss...

Psychometric Isomorphism

Question / Text	Instrument	Label
I accept people as they are	HPI-HIC	Forgiveness/Mercy
I accept people as they are	6FPQ	Agreeableness
I accept people as they are	AB5C	Calmness
I accept people as they are	HEXACO PI	Gentleness
I accept people as they are	HPI	Calmness
I accept people as they are	NEO5-20	Agreeableness
I accept people as they are	TCI	Tolerance

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The FFM is the best-known model of personality (Funder, 2001) and despite this popularity, the nature of the appropriateness has been continually debated (De Young, 2010; Srivastava, 2010). The actual number of factors is one of the most contested aspects of the research (see Simms, 2007; Bowler, et al., 2009).

I argue that it is not an explanation but a description.

That is, the explanatory part of traits does consist of countless narrow traits relating specific features of situations to specific behaviour reactions.

However, these narrow traits accrete over time into broader traits. Accretion means that the narrow traits become linked together and influence each other psychologically.

What is MISSING in all these psychometrics is very important. And it's important not just from a self-awareness perspective but also from a productivity perspective.

Method Bias

- incomparability of samples (e.g., differences in education or motivation)
- differences in environmental administration conditions (e.g., ambient noise)
- ambiguous instructions for respondents and/or guidelines for administrators
- differential expertise of administrators, tester/interviewer/observer effects (e.g., halo effects)
- **communication** problems between respondent and interviewer, differential familiarity with stimulus materials (notably relevant in cognitive testing)
- differential familiarity with response procedures, and differential response styles (e.g., social desirability, extremity scoring, acquiescence).

The communication bias isn't so much a communication issue as a meaning-making issue and we'll come on to this too
The question that arises out of the final point is: what kind of person would acquiesce?
And can we measure THAT specifically from a position of habit or choice?

Item Bias - Differential Item Functioning

an item is biased if persons with the same standing on the underlying construct (e.g., equally intelligent) but coming from different cultural groups do not have the same expected score on the item. The expected item score is usually derived from the total test score.

The item is biased as it favours one cultural group across all test score levels. Of all bias types, item bias has been the most extensively studied; various psychometric techniques are available to identify item bias

Can we measure levels of awareness of cultural impact on our thinking?
I once asked three Nigerian woman...



Let's put the ideas to the test in one question.

Notice the direction of INTENTION with 8 & 9.

Perhaps you agreed with the statement, "If I ruled the world, it would be a better place" not because you think you would be a particularly good world leader, but because you are very disappointed with the current world leaders

Completely the opposite direction yet but end up being an agreement response.

How do we cater for this problem? How do we measure their Intention as it's not the same...?

E.I. and Workplace Frustration



Yoo and Salovey (2009) found individuals higher in **Emotional Intelligence** ability reported greater levels of **frustration** after **reading** about, and experiencing a **frustrating** event...

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What were they expecting to find?

This is an EXTERNAL unconscious bias.

Frustration isn't real. It's a construct. A nominalization. Do YOU think this person is productive?

If you are feeling frustrated after READING about something, you're not in control at all.

Why do psychologists think this is a useful thing to know?

In my theory, EI is a facet of DI because it also reflects attitudes and describes positions, rather than determines if it's a choice or a construction...

Is Personality Stable across Situations?

Stability in personality (a trait) is typically defined as:

"rank-order consistency".

Example: Is the person who is most extroverted around her classmates also more extroverted than her peers at soccer practice, with her family, and at a pep rally?

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But WHAT is stable?

And can we show WHAT has changed?

Results from many personality studies show there is indeed rank-order consistency in people's personalities.

Is Personality Stable over Time?



People do change, but they don't change drastically



people tend to become more responsible and more emotionally stable as they age.



everyone is a little less emotionally volatile



but the most volatile people at age 15 are still more volatile than most of their peers at ages 30, 50, and 70.



Personality seems to be pretty stable, even over decades and after big life changes.

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People do change, but they don't change drastically

Very extroverted people rarely become introverted and vice versa.

The rank-order of a person relative to his or her peers stays pretty stable over the course of life.

Interestingly, however, there are some changes that almost everyone experiences—for example, people tend to become more responsible and more emotionally stable as they age.

Because this happens to (almost) everybody, it doesn't change the people's rank order—everyone is a little less emotionally volatile; but the most volatile people at age 15 are still more volatile than most of their peers at ages 30, 50, and 70.

What other reasons could there be for becoming more responsible? Greater awareness? More choices in our thinking and behaving?

And the ones most emotionally volatile are consistently volatile over time. What could be another reason for that?

Is Personality Stable over Time?

- There is mean-level change in personality during the transition from adolescence to adulthood
- Negative life events do have long-term (negative) effects on well-being
- Positive events (e.g., marriage) only have short-term (positive) effects.

I can prove this with CDT. It's coming up soon. But the difference is, I can tell you what has changed specifically.

Does Personality Predict Behaviour?

Extroversion predicts talking, happiness, social status, volunteerism.

Agreeableness predicts swearing less, being less likely to divorce, volunteerism, less criminal behaviour.

Conscientiousness predicts occupational success, college GPA, less drug use, being less likely to divorce.

Emotional stability predicts less depression, being less likely to divorce and less likely to fight in romantic relationships.

Openness to experience predicts more traveling/studying abroad and being more likely to vote for liberal candidates/causes and choose artistic careers.

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What does it NOT predict? Or offer?
CHOICE!!!!

Examples (from Ozer & Benet-Martinez, 2006; Roberts et al., 2007; Mehl, Gosling, & Pennebaker, 2006)

If Personality is stable, what can we change to affect it?

How it is Constructed...



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Some experts, including psychologist Carol Dweck, believe that changing the behavior patterns, habits, and beliefs the lie under the surface of the broad traits (e.g., introversion, agreeableness) is the real key to personality change.

THIS ONE - On the Importance of Conducting Construct-Level Analysis for Multidimensional Constructs in Theory Development and Testing.pdf



Constructed Development Theory

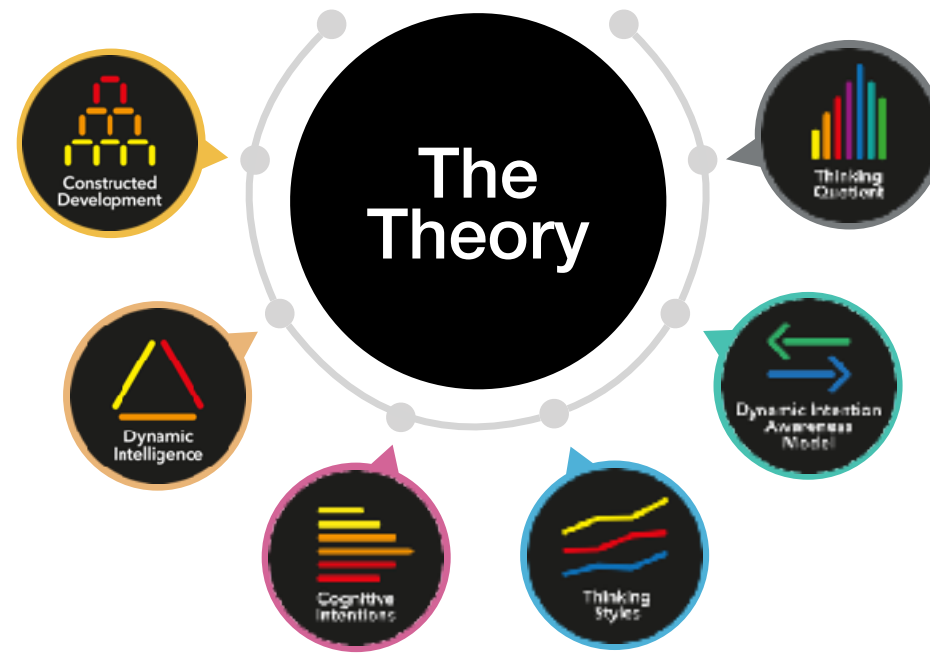
"The mind constructs the psychological niche within which the personality fits."

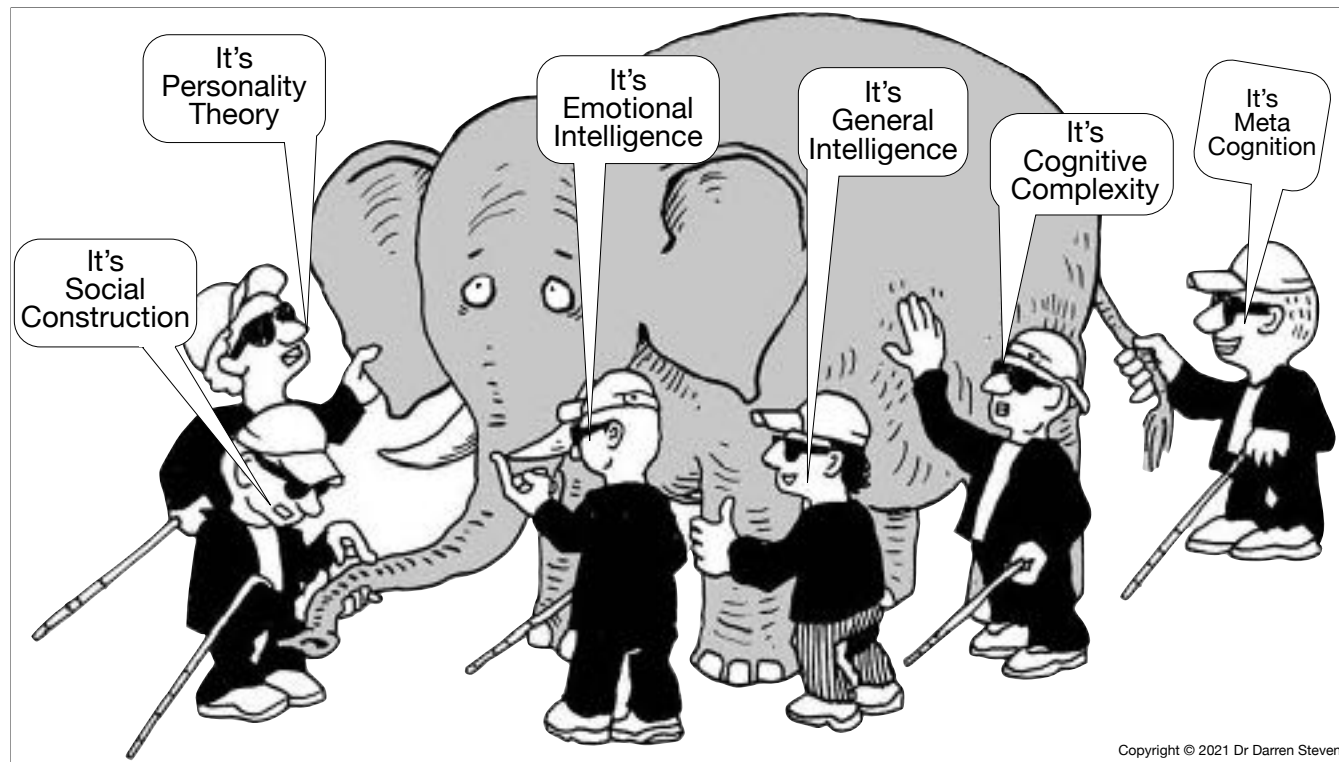
- (Mischel, 2004)

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In effect, the mind constructs the psychological niche within which the personality fits (Mischel, 2004). This lends itself to a constructed environment.

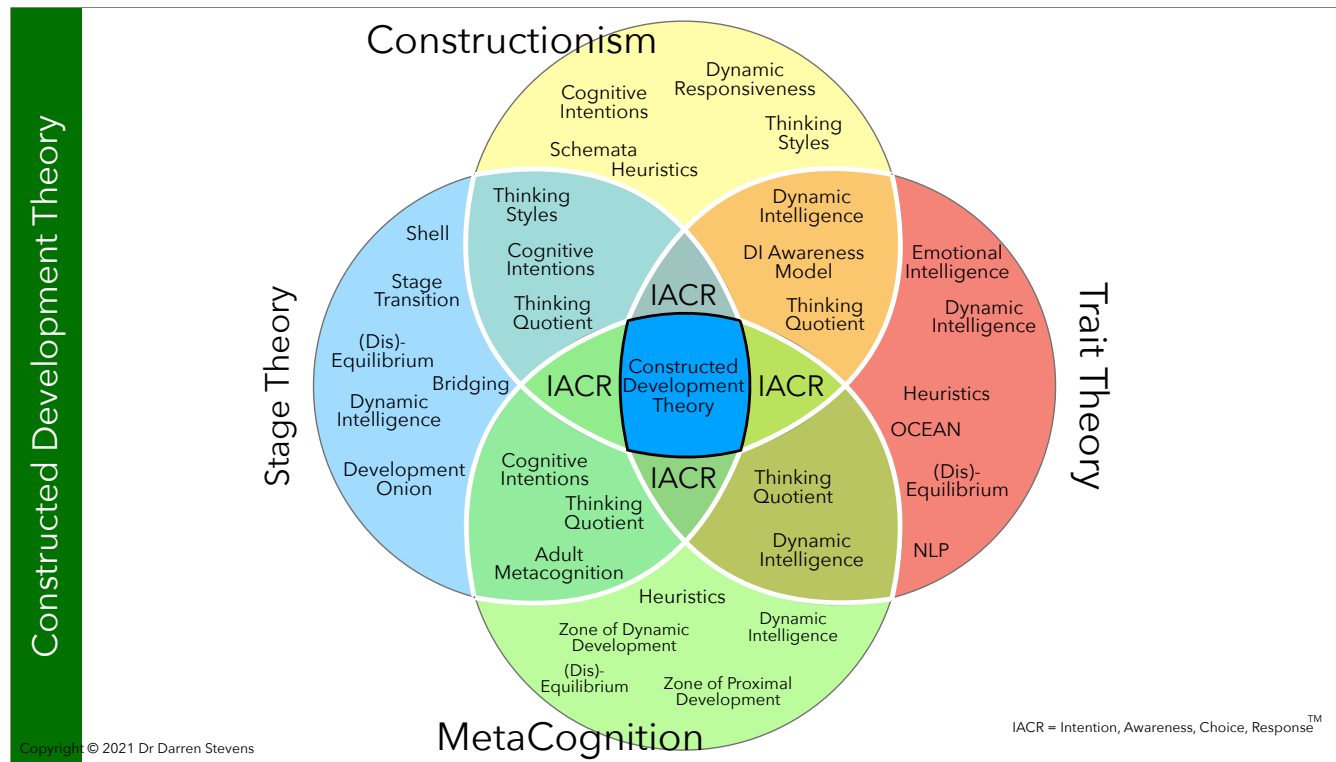
However, where Constructed Development Theory contributes to the field is in its perspective on a person's **level of awareness** of this contextually-derived behavioural response, and a person's **level of choice** in the moment to either adopt an habituated pattern, or to employ a different pattern after considering the ramifications of said behavioural choices.



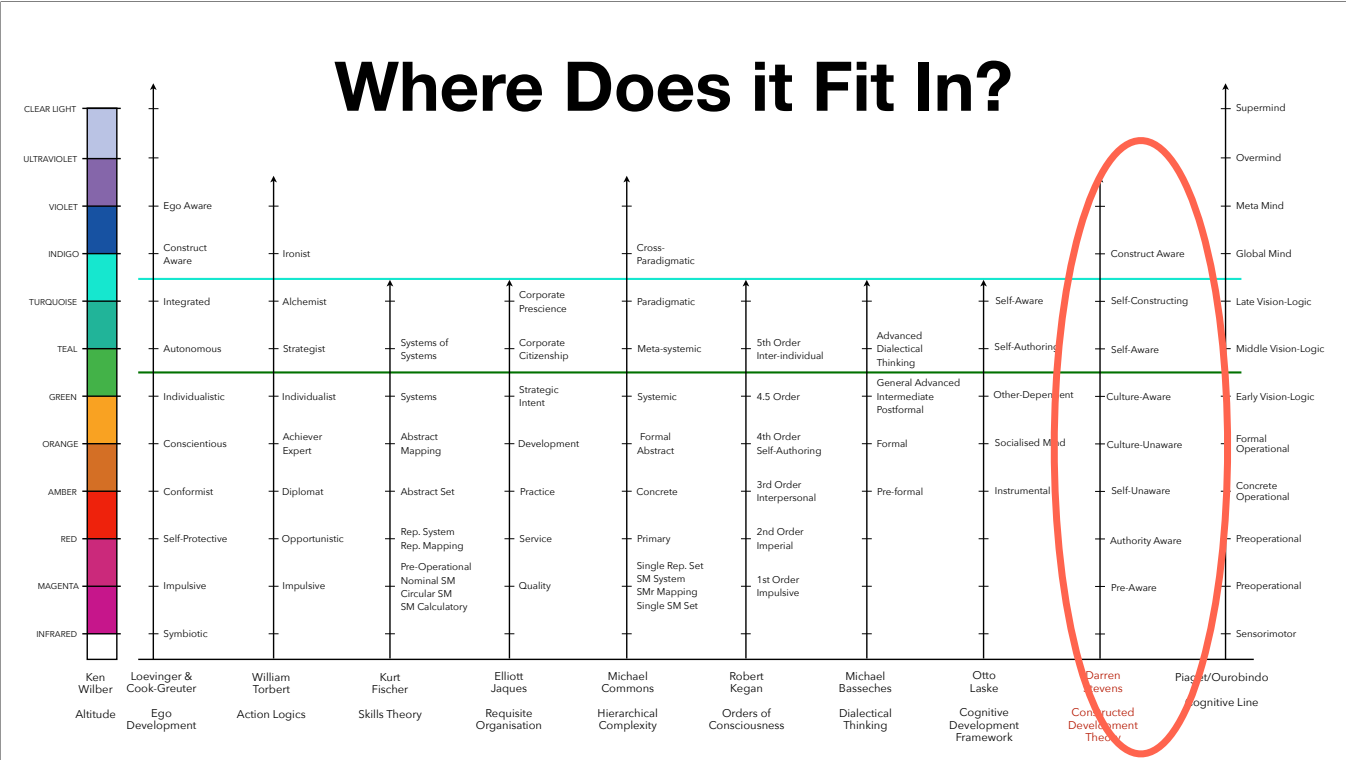


While Bohm said that everything is connected, he was actually saying more. Thinking ANY theory is the absolute reality is the very thing that causes a fragmentation in itself. All of the 'theories' we have are one way of viewing one angle of the implicate wholeness. Even the holistic theories themselves are limited in this way. Its about realising the fragmentary nature of thought itself... And because we see everything as fragmented, (BECAUSE we ARE connected as the observer,) the universe reflects back to us these fragments, hence leading to confirmation bias - and then we get stuck. "consciousness being an internal awareness of the whole"

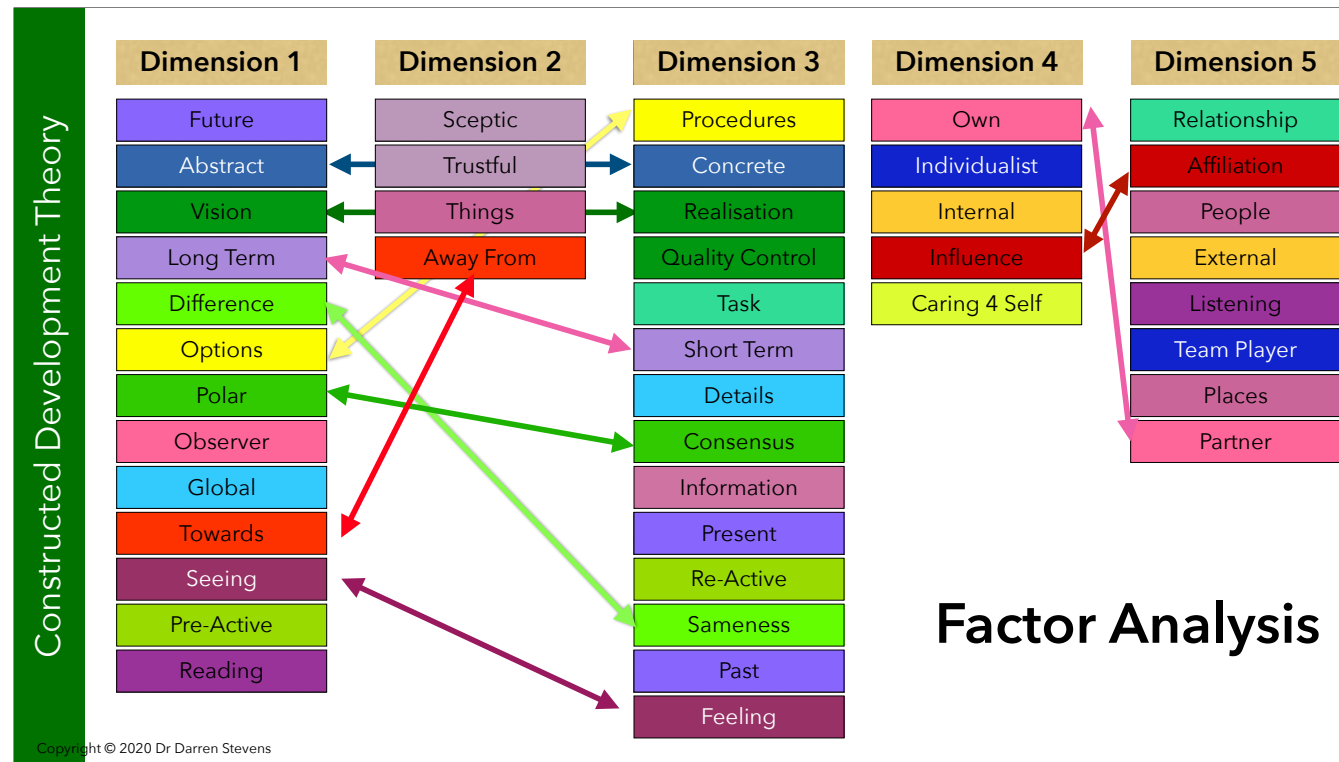
The orthodoxy on psychology has closed the door on what they all agree. I want to open the door to a new debate.



I wanted to know what is the one thing that unites and separates psychology as a field of human endeavour?
 What is the lowest common denominator? And I found that it's self-awareness.



Key Post-Formal Maturity Models
A pattern arises in each theoretical position in that one theory apes another, without deviating from an accepted norm. There is an element of isomorphism in Table!



Gordon Allport proposed that there were more than 4,000. Psychologist Raymond Cattell used a statistical technique known as factor analysis to whittle this list down to 16 different personality factors, while Hans Eysenck narrowed the list down to just three.

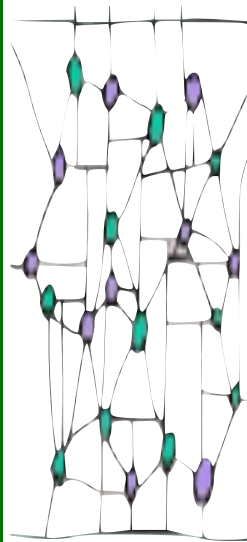
So I had over 8000 profiles and decided to do all kinds of data analysis, beginning with a factor analysis. It was excellent.

Study 4 actually supported the findings from Studies 2 and 3 where there was a demonstrable difference in thinking styles based on the combination of Cognitive Intentions, but also the CI's that came out worst in the self-report study (3) happened to be the same CI's that appeared in the fifth dimension on the right. And the ones that appeared on the left column (first dimension) were at the top of the self-report list.

Finally, according to the Factor Analysis, the CI's in the first dimension had a positive effect on the TQ score, whereas the CI's in the third dimension had a negative effect. Notice how many of the third dimension oppose the first in the traditional sense, and then notice how this aligns with Piaget's Disequilibrium principle. In my thesis, I say the only way to grow someone's thinking is to disrupt their habituated patterns. This Factor Analysis now gives us the way to do this using Cognitive Intentions!!!!

But we only need to focus on the top 13 or so...

MEANING-MAKING!

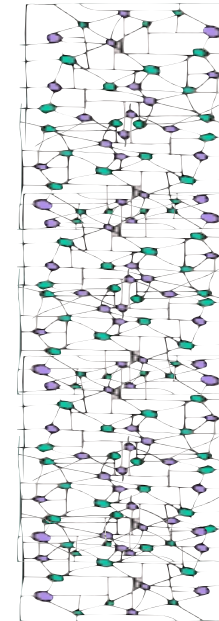


At 25yrs

- **Openness**
- **Conscientiousness**
- **Extraversion**
- **Agreeableness**
- **Neuroticism**

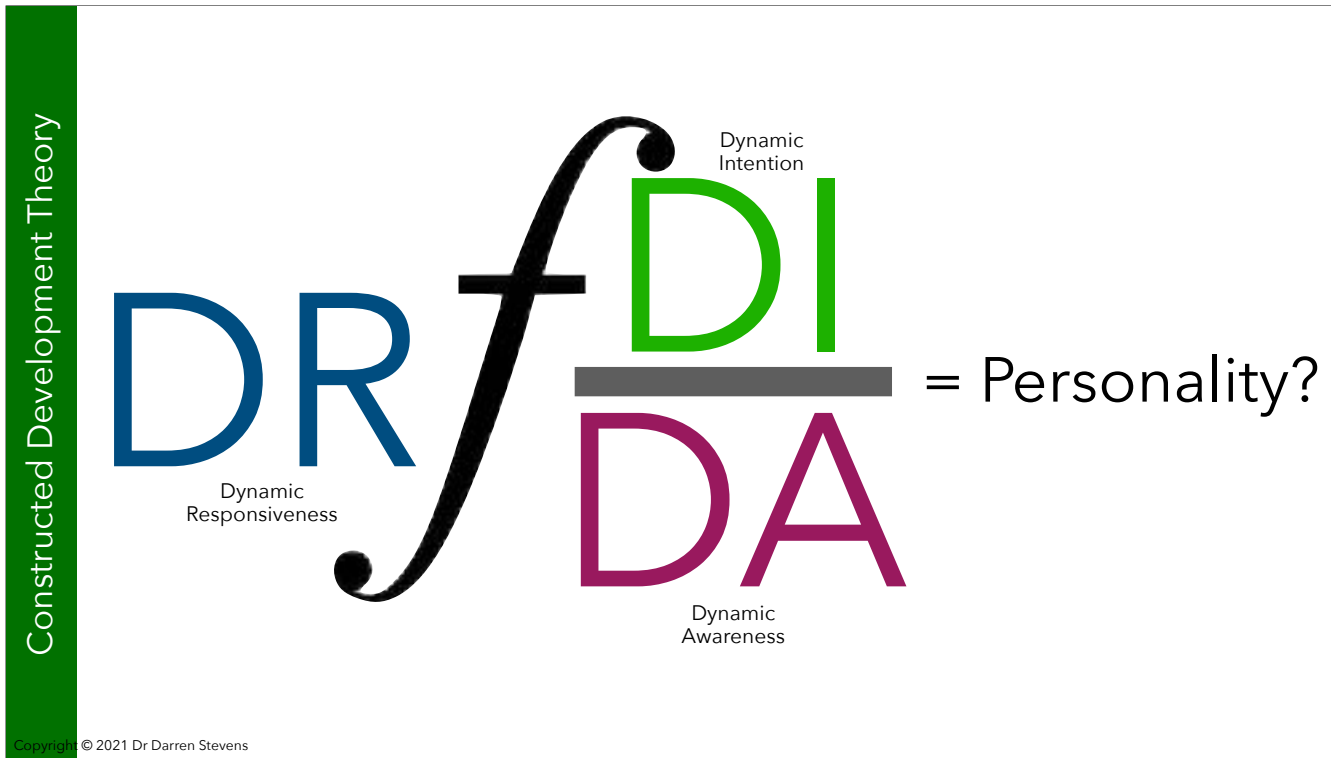
At 45yrs

- **Openness**
- **Conscientiousness**
- **Extraversion**
- **Agreeableness**
- **Neuroticism**



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We have talked about OCEAN. Did I mention that developmental psychologists take it for granted that traits change, simply because they know that meaning changes? From a Dynamic Intelligence perspective, one hopes the 45 year old is a higher level than his 25 year old self. We'll come onto levels later. But it's about our capacity to pull in as much info as possible in the moment.



Using Constructed Development Theory, we can understand HOW we construct 'personality' and thus how we can impact it.

We can demonstrate HOW we construct our behaviours, because they are the outcome of our thinking, and we know we construct our thinking. The important thing, once again, is Choice.

Our personality is a function of our construction of self in the world, based on our constructed intention.

Our personality is a function of our Dynamic Intelligence and this can be measured better with Cognitive Intentions as we can determine how much of our personality & behaviour is choice, and how much is automated.

What is Missing?



Intention



Awareness



Choice

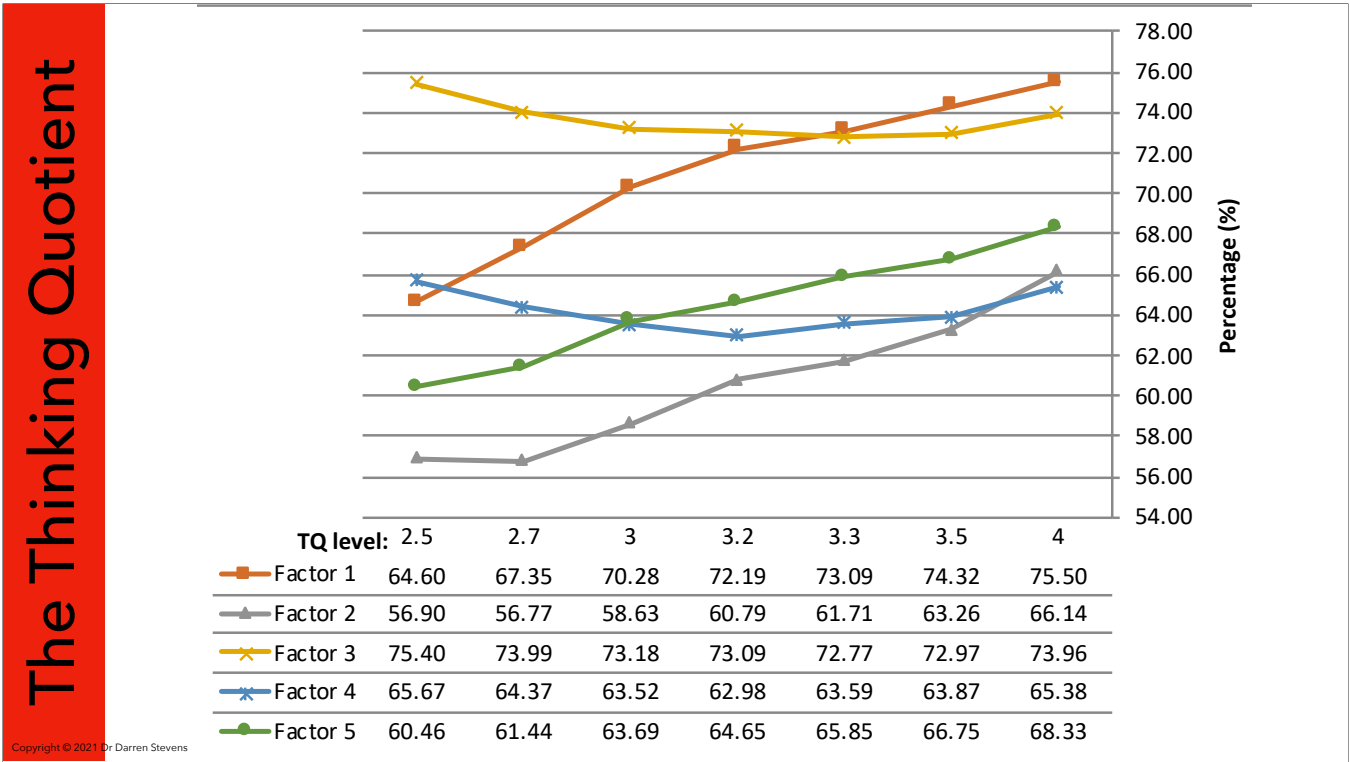


Response

The main thing missing is DYNAMIC INTELLIGENCE

It's our LEVEL of awareness of our capacity to construct ourselves in the moment.

The main thing that is missing from psychometrics and personality is CHOICE! But from a position of Awareness.



How do I know there are levels of self-awareness? The Thinking Quotient.
Please bear in mind that the MBTI has a database of 16,000 profiles to support it's WORLDWIDE programme.
I am one man and I have 8,200 profiles to support my findings. That's the quantitative side taken care of.
I also have a number of qualitative studies supporting the quant findings.
Levels of Self-Awareness

What is Missing

```
graph TD; Intention[Intention] -- drives --> Awareness[Awareness]; Awareness -- creates --> Choice[Choice]; Choice -- determines --> Response[Response]; Response -- denotes level of --> DI[Dynamic Intelligence]; DI -- measured by --> TQ[Thinking Quotient]; COCI[Construction of self via Cognitive Intentions] -- impacts your --> Intention; Awareness --> MM[Meaning-making]; Choice --> MM; MM -- impacts your --> DI; DI -- informs your --> TQ;
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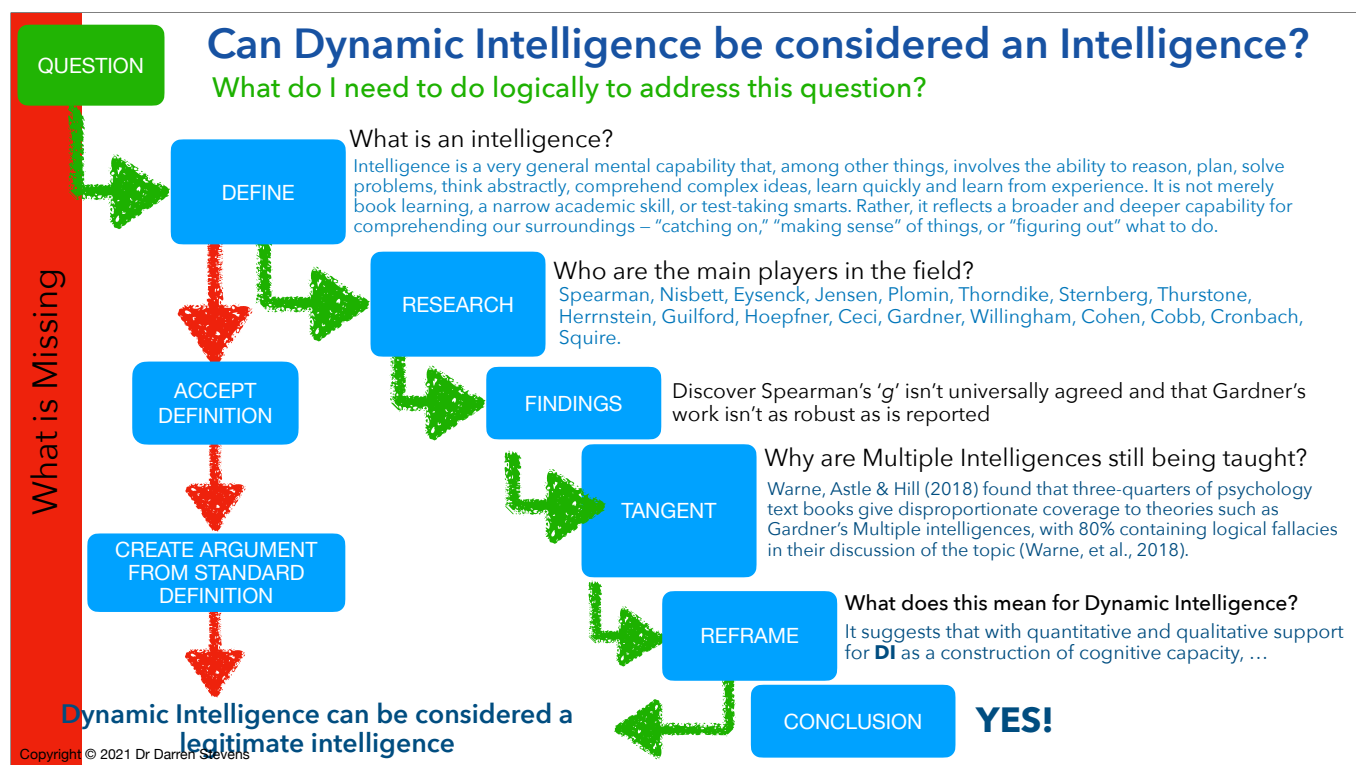
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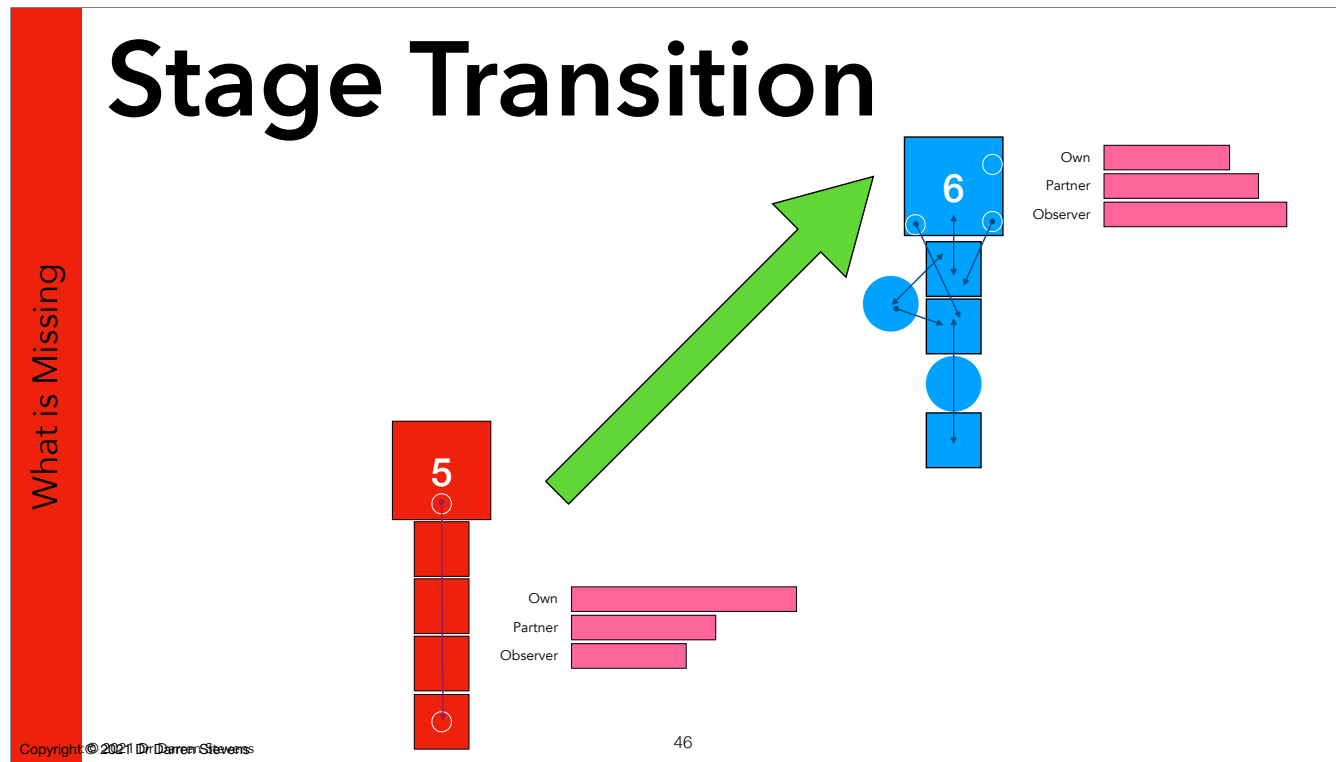
What is Missing

```
graph TD; Intention[Intention] -- drives --> Awareness[Awareness]; Awareness -- creates --> Choice[Choice]; Choice -- determines --> Response[Response]; Response -- denotes level of --> DI[Dynamic Intelligence]; DI -- measured by --> TQ[Thinking Quotient]; CICI[Construction of self via Cognitive Intentions] -- impacts your --> Intention; Awareness --> MM[Meaning-making]; Choice --> MM; MM -- impacts your --> DI; DI -- informs your --> TQ;
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I know what you're thinking: can DI be considered a REAL intelligence?
Next slide...

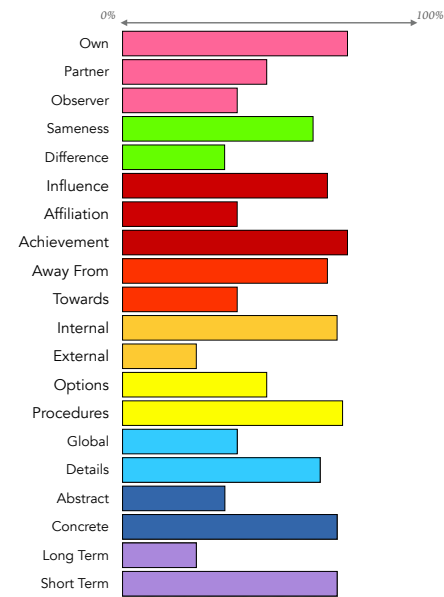




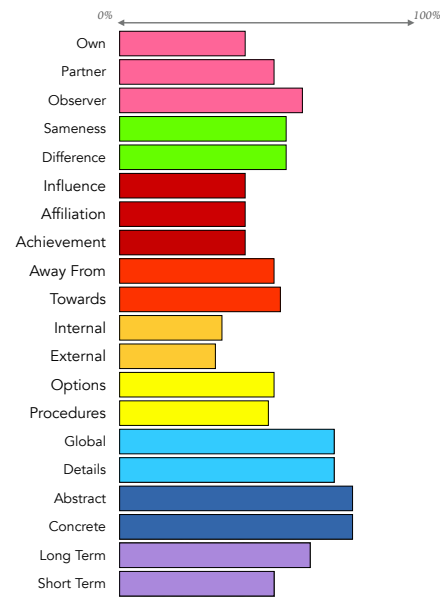
What is never mentioned is the process of vertical development. This is not just left out of trait-based systems but also stage based systems. The “what” that changes in order to elevate a thinker to the next level is discussed in stage transition by such psychologists as Michael Commons, Michael Basseches and Elliott Jaques. However, it is referred to as a bridge and a shell, with myriad ideas about what entices the thinker upwards. With CDT, however, we can pinpoint the “thing” to tweak in order to propel the thinker vertically. The idea of construction isn’t new. The idea of construction and vertical development using our awareness of the fifty Cognitive Intentions is new.

What is Missing

Low Dynamic Intelligence



High Dynamic Intelligence



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So in profile terms, the graph looks like this.

It's the capacity to measure THIS that is missing in psychometrics and I'll explain why as we go deeper down the rabbit hole.

MEANING-MAKING!

Trait = Unconscious Habit

Personality = Series of unconscious Habits

Dynamic Intelligence = Choice of Personality Construction

There is no conscious Intention behind the Trait behaviour.
There is research that pertains to Traits being a habit. An unconscious habit.

The lowest common denominator in personality theory, Trait theory, OCEAN, constructivism, constructionism, social theory, social construction and more is...

Self-Awareness

There is research that pertains to Traits being a habit. An unconscious habit.
How do I know this?
Let's look at the supporting evidence.

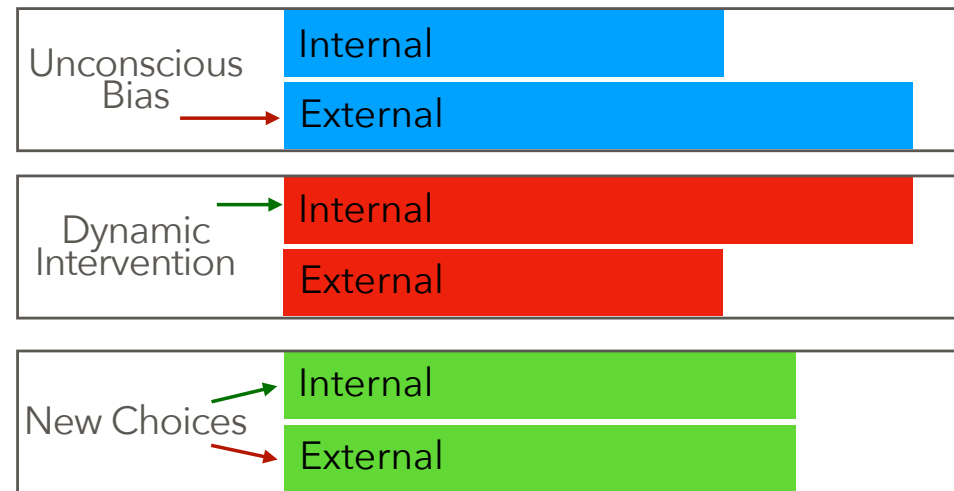
Application Across Contexts

Filling the Gaps

So we've looked at what's missing from personality, trait theory and psychometrics, so now let's look at how CDT fills those gaps.

COGNITIVE INTENTIONS

MOVEMENT FROM UNAWARE TO CHOICE



Academic Style	vs	General Style
Achievement		Future
Information		Abstract
Activity		Vision
Long Term		Long Term
Future		Difference
Caring for Self		Options
Pre-Active		Polar
Realisation		Observer
Task		Global
Difference		Towards
Concrete		Seeing
Observer		Pre-Active
		Reading

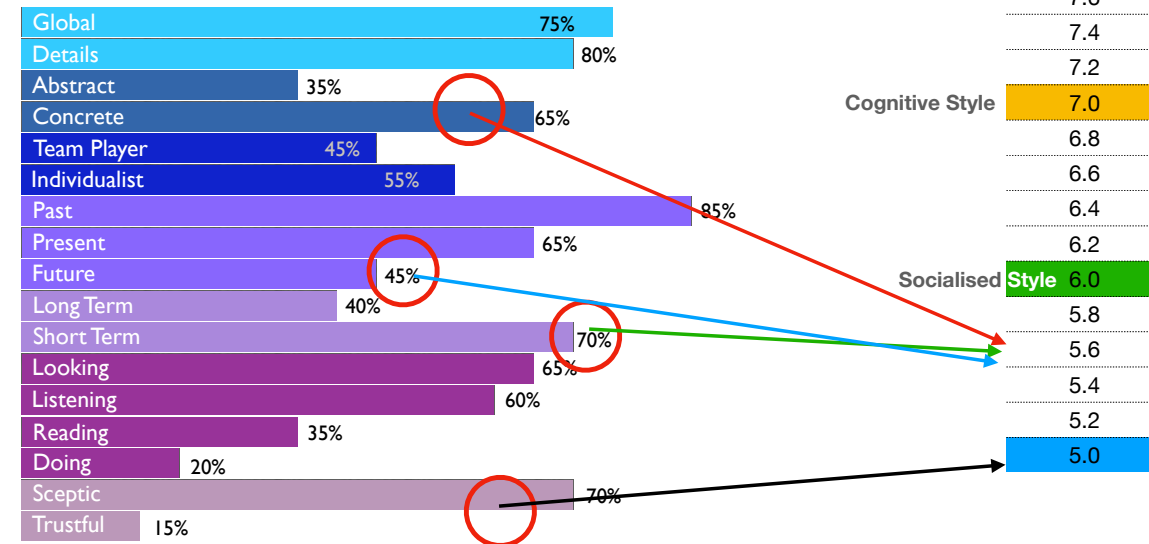
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The data from study 2 showed the construction of the academic Thinking Style and how it differed from the larger data set.

Cognitive Intentions

The **difference** is greater which, according to research denotes less “choice” and thus lower Dynamic Intelligence.

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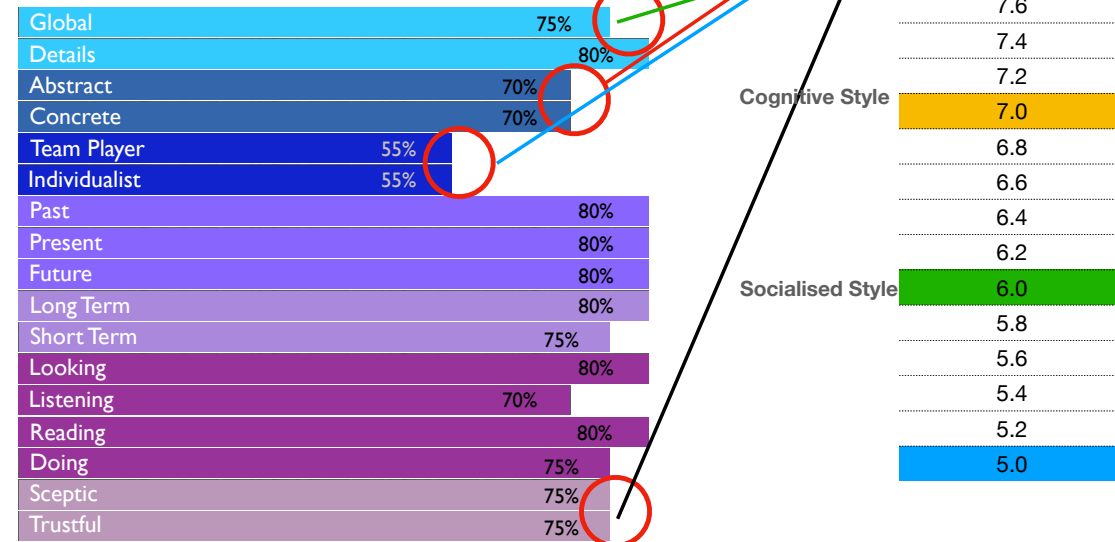


Place more emphasis on what it will allow them to do. In order to be more successful in business, they need to be more long term. Level 3 is needed in most organisations but as you get promoted, you will need to be thinking Long Term, and so on.

The Eventual Outcome

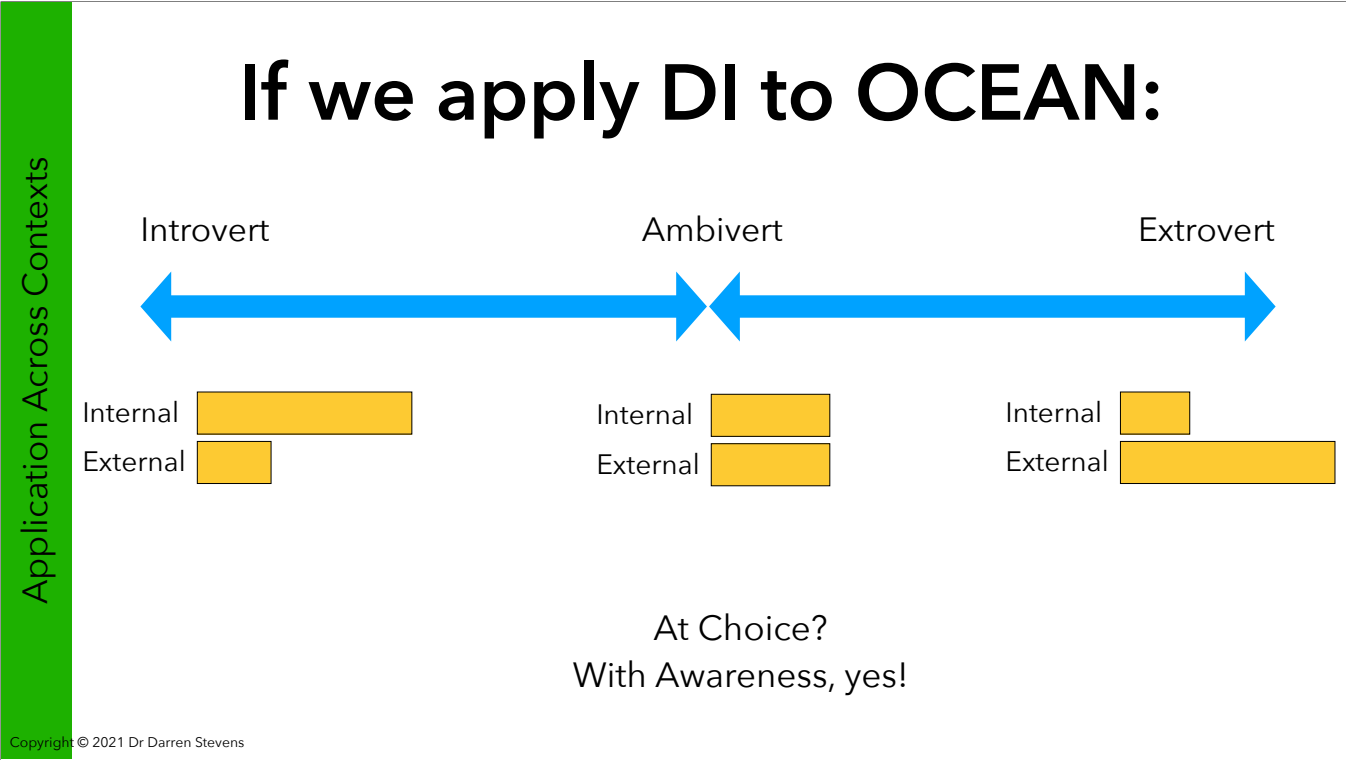
The **difference** is 5% which, according to research denotes “choice” and thus higher Dynamic Intelligence.

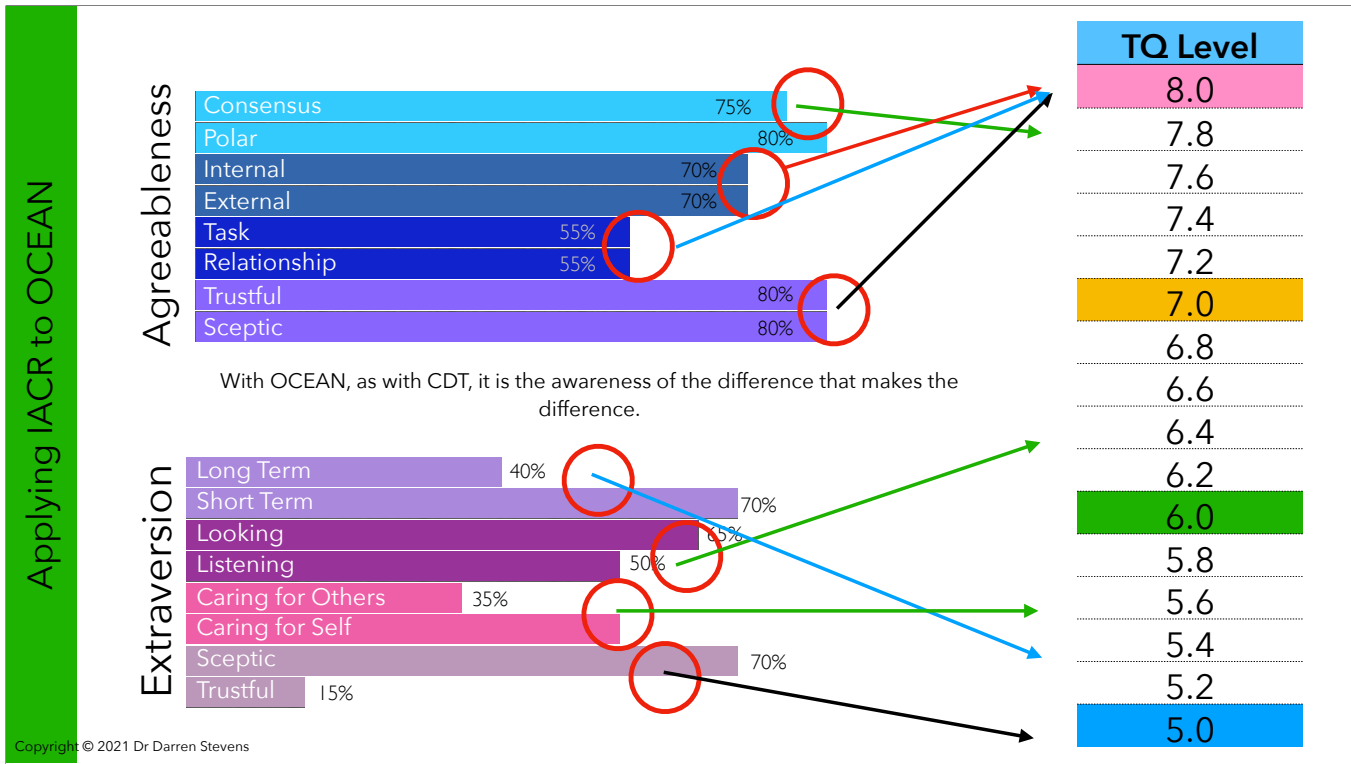
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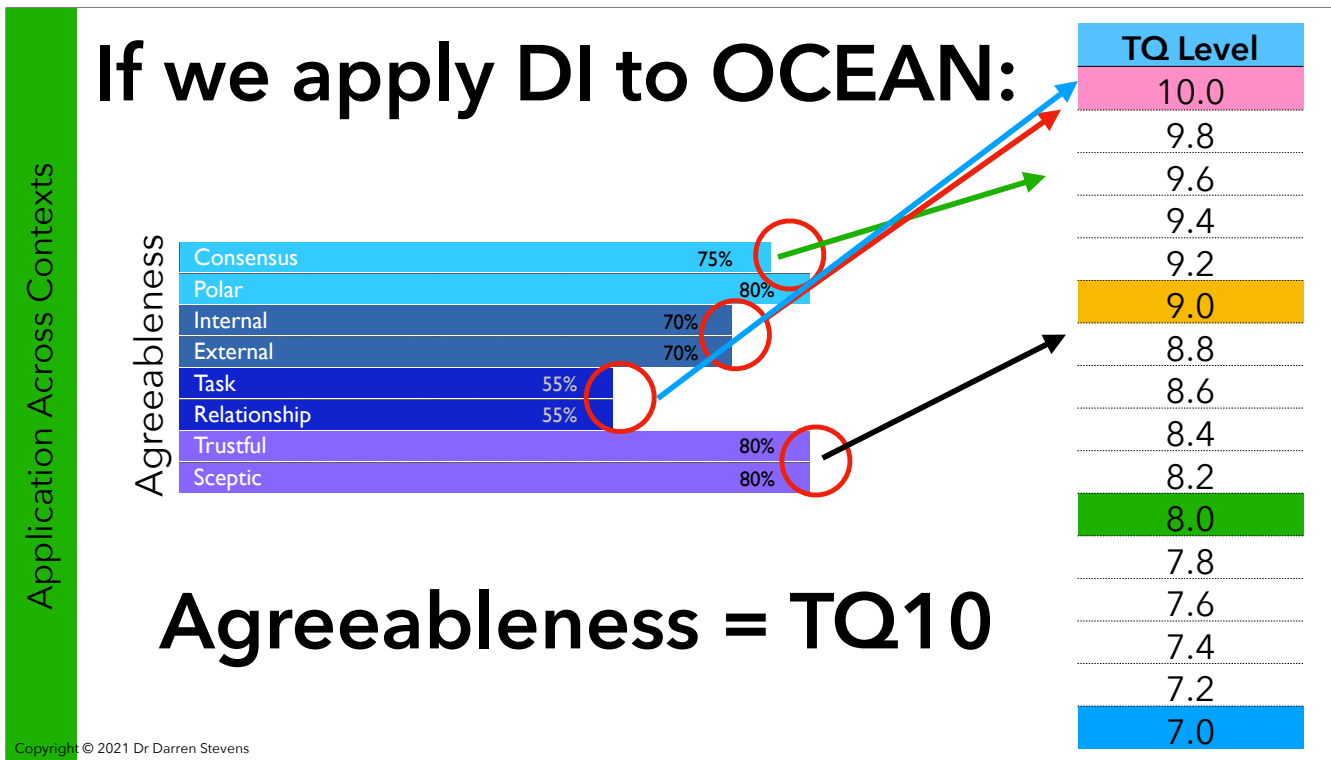
So level 4/5 thinking looks like this, which is better for choice.

FILL THIS IN





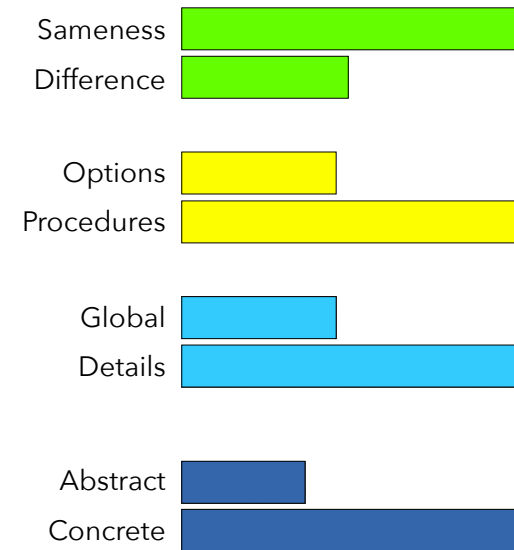
The Dynamic Intelligence Principle
The structure of personality... Using Cognitive Intentions.



So TQ10 thinking looks like this, which is better for choice.

Openness

- Dislikes change
- Does not enjoy new things
- Resists new ideas
- Not very imaginative
- Dislikes abstract or theoretical concepts



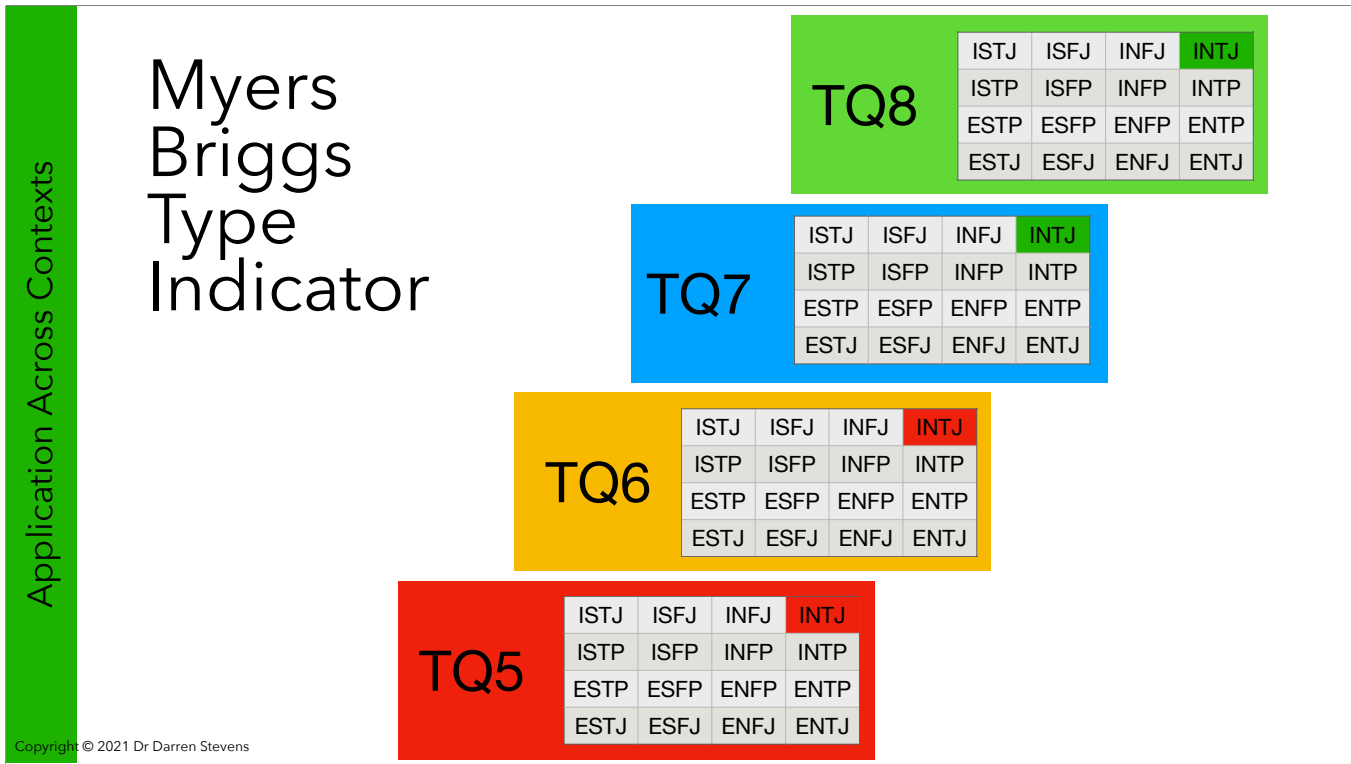
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OPENNESS is just an unconscious habit... Openness thus becomes an intention! You could be intentionally Open to new experiences rather than simply being "Open", and that's a choice the current systems do not measure.

And it's now measurable from a Choice perspective.

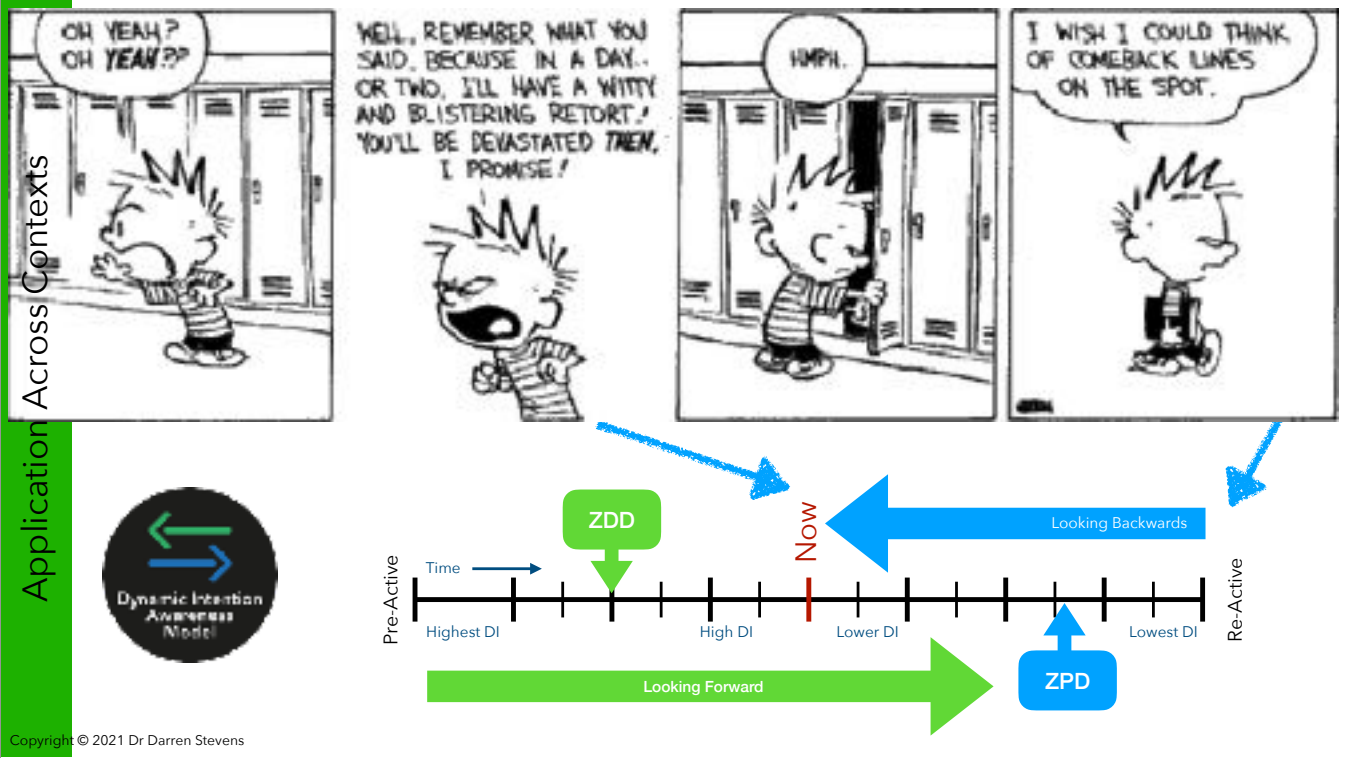
I'm not the first to say this, obviously.

But even when it's brought to awareness, the awareness is still only superficial. The psychometrics do not tell us how to change it.



INTJ is probably not available to TQ5 people, and only available over TQ7 due to the lack of balance in their thinking.

Application Across Contexts

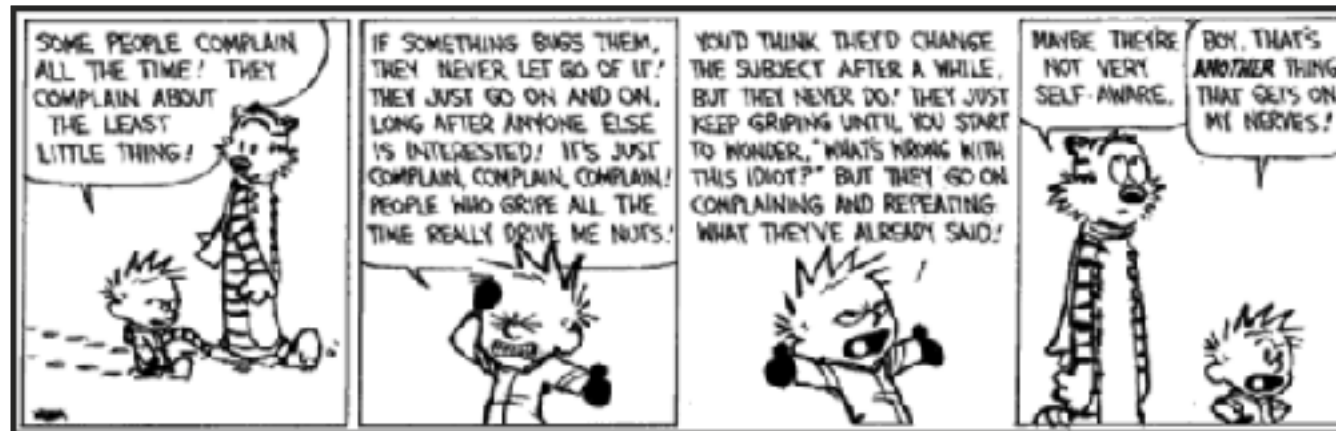


Application Across Contexts

Dynamic Intelligence

Thinking Styles

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Applicat



Self Awareness

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Applicat

If sense were common, we'd all have it.

However, can you choose to ignore yours?



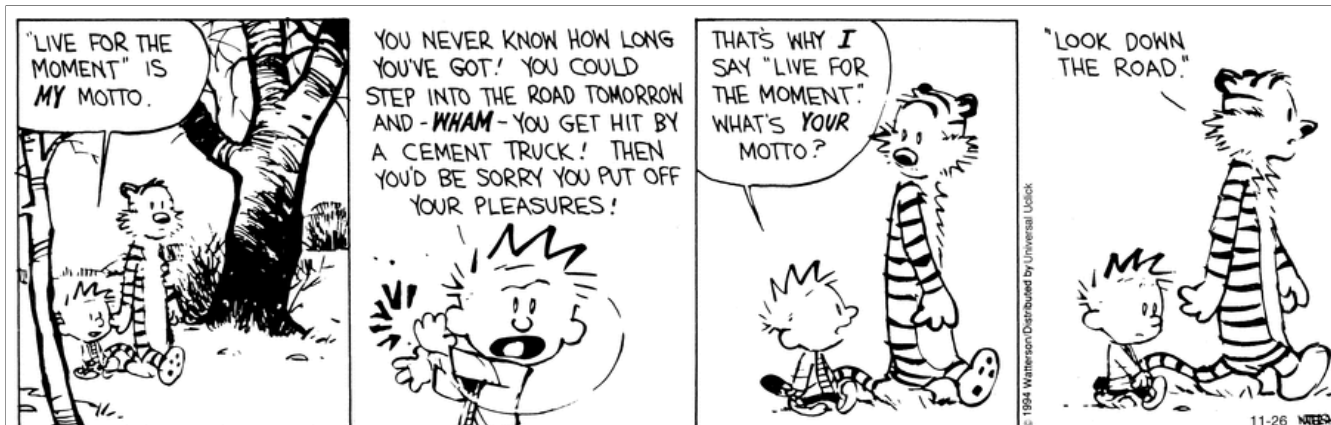
Application



Meaning Making

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THIS is what psychometrics tests miss out!!!!

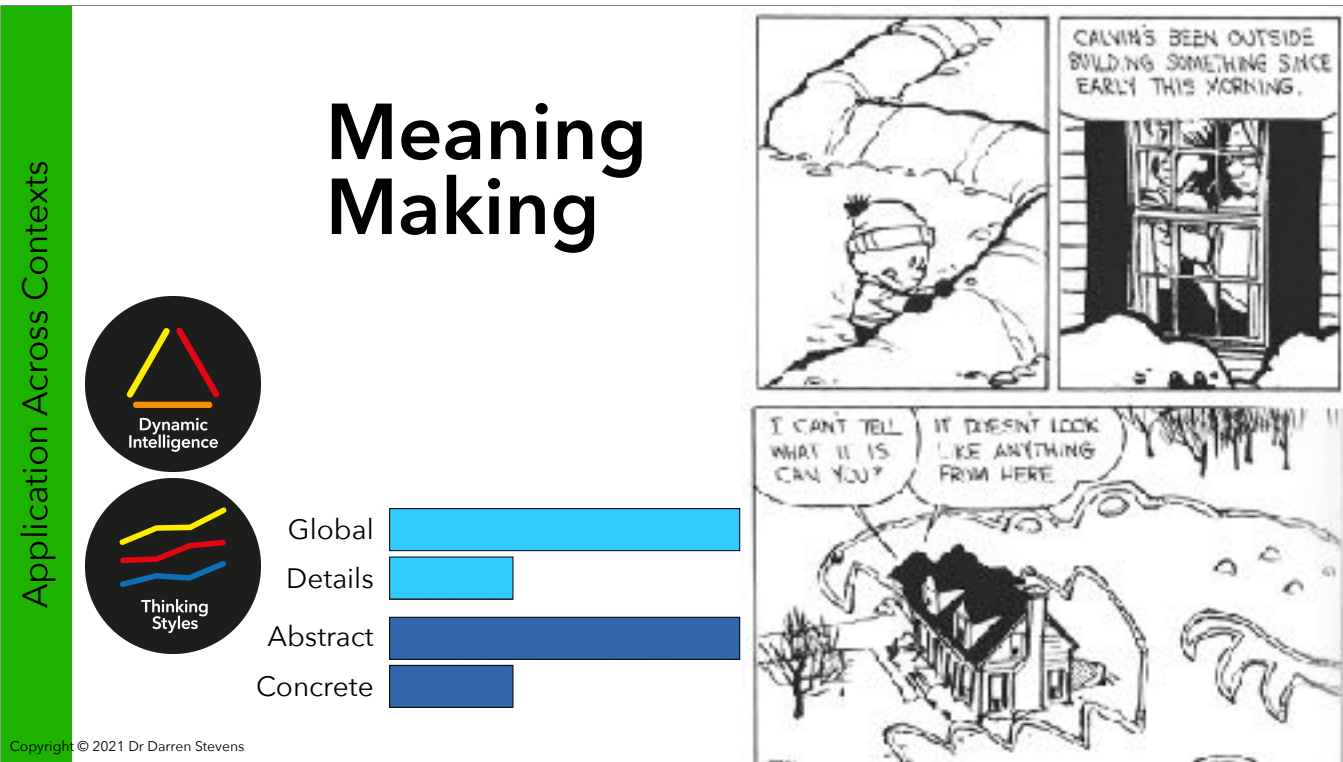


How is Calvin constructing his world view?

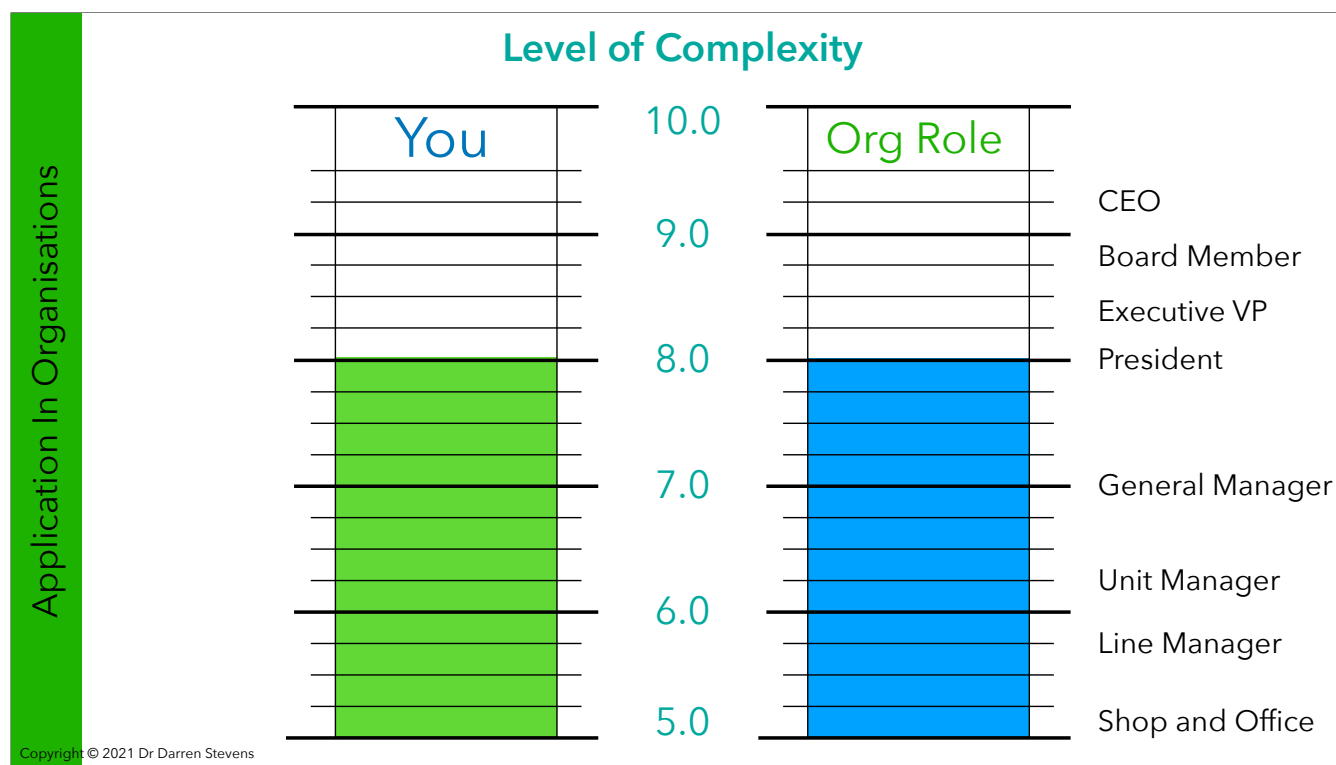


AWAY FROM
INTERNAL
PROCEDURES
OWN
CARING FOR SELF
RE-ACTIVE
SAMENESS
CONCRETE
INDIVIDUALIST
PAST
PRESENT
SHORT TERM

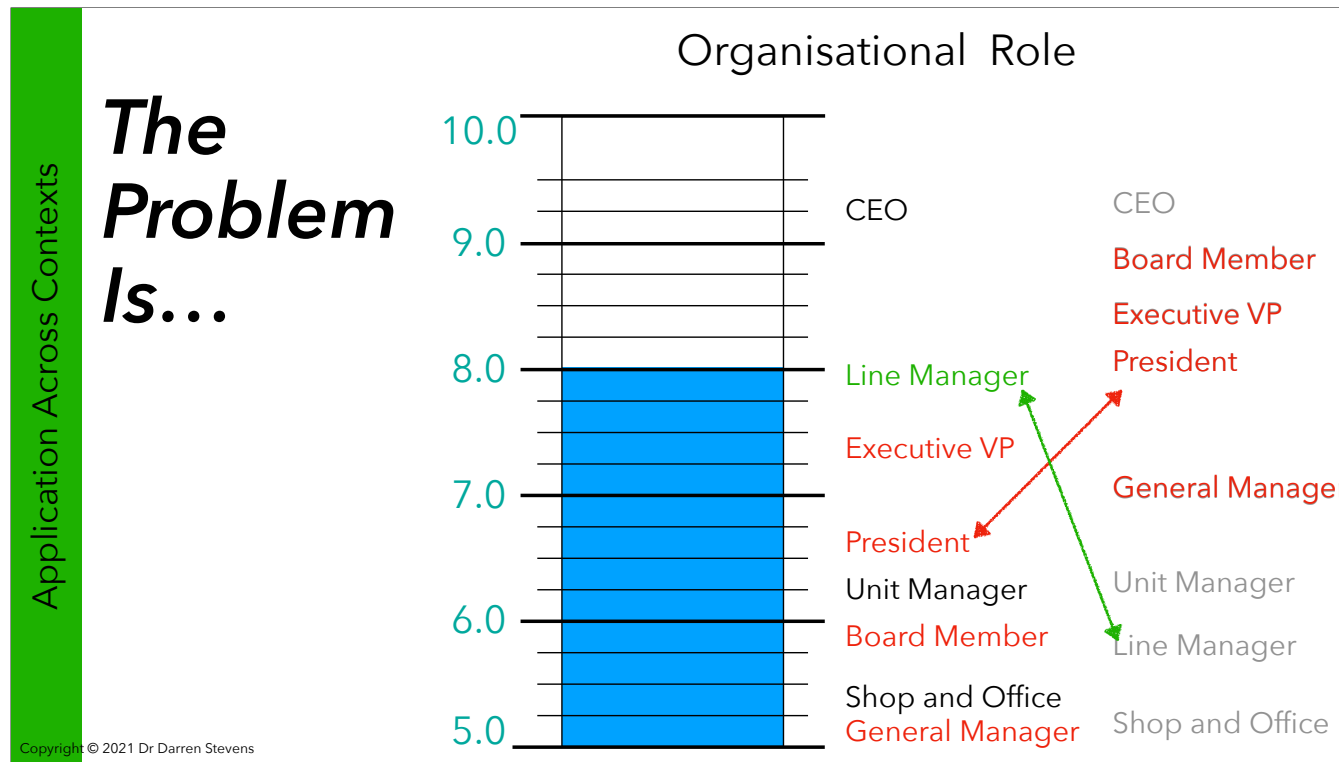
SEEING
TOWARDS
INTERNAL
INFORMATION
OBSERVER
PRE-ACTIVE
ABSTRACT
DIFFERENCE
FUTURE
LONG TERM
REALISATION
SCEPTIC



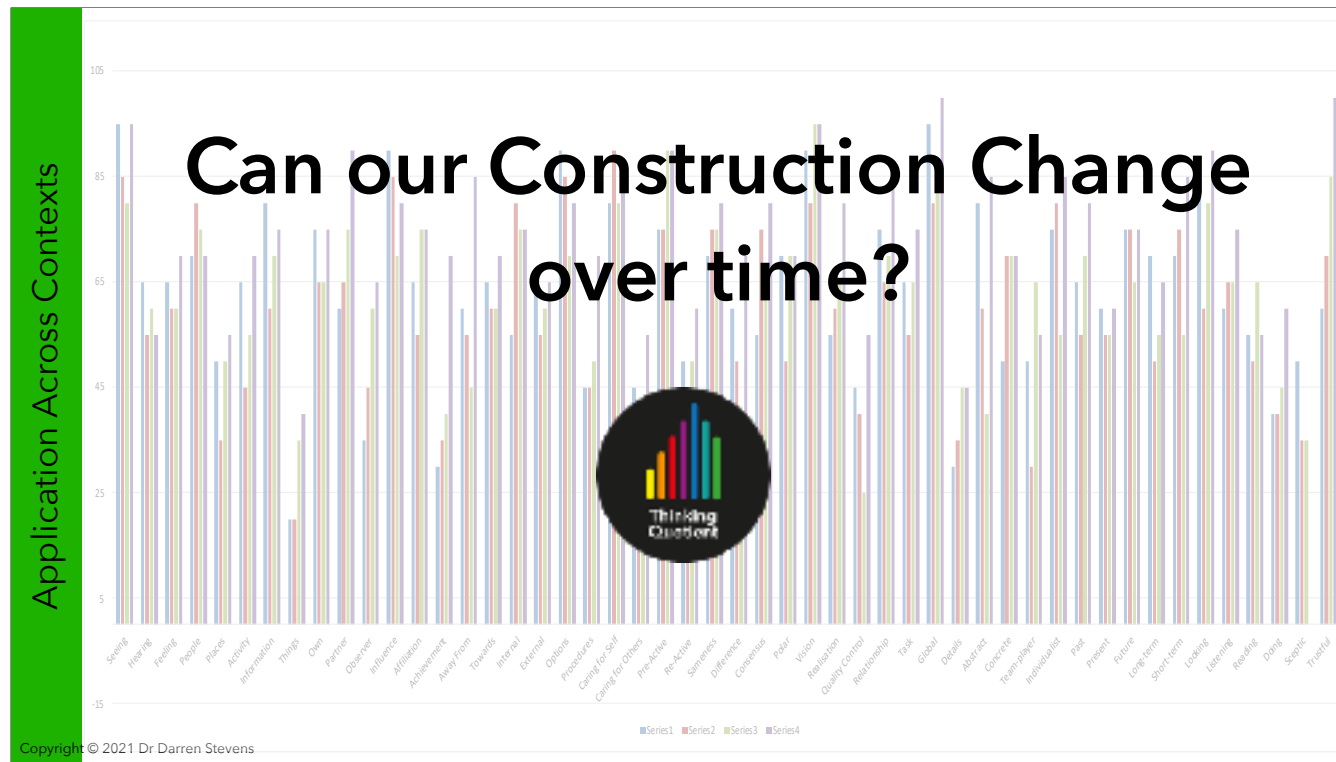
Low DI...Meaning making based on Global perspective



So, as long as you're the President of your section of the business - whatever that means - you're well-placed to function at that level as you both match. What this gives us that psychometrics does not is a level of capacity of the person in the role.



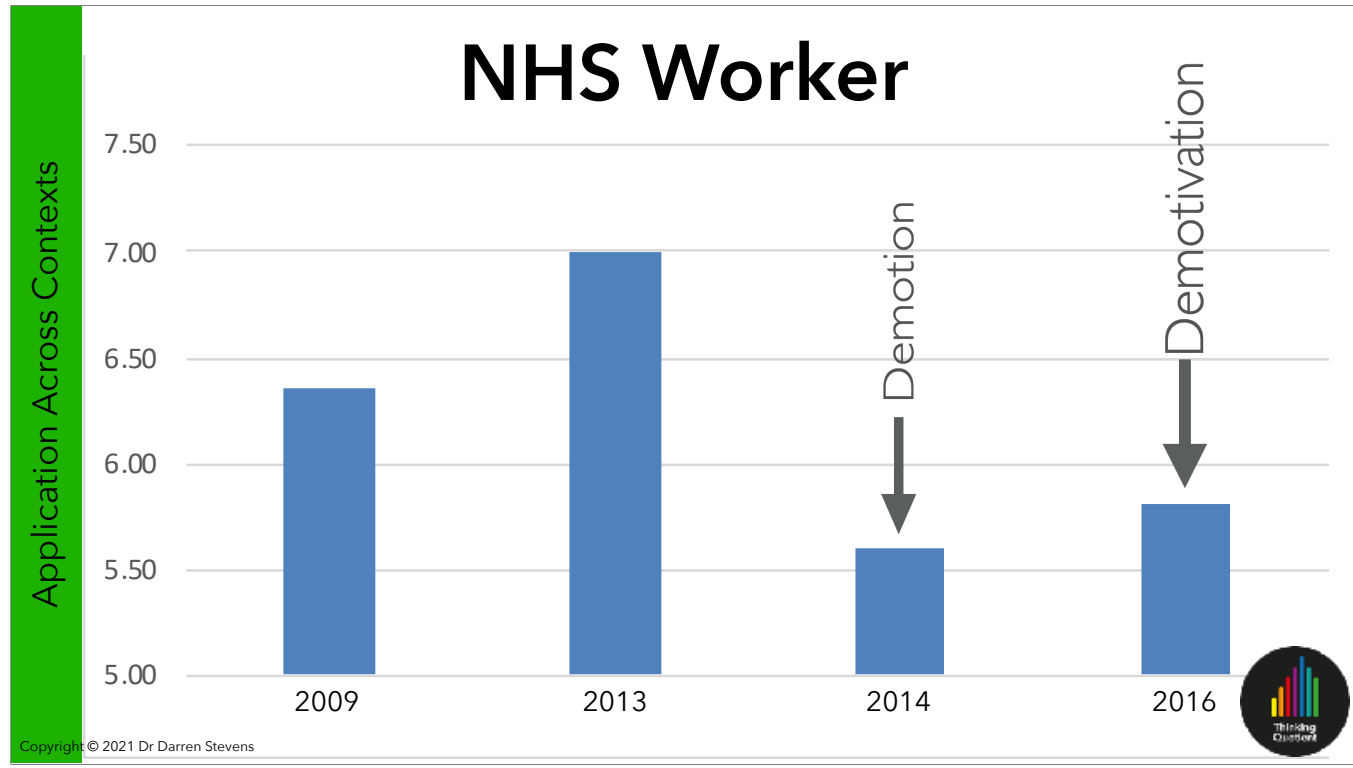
The problem is the Peter principle.
People are promoted beyond their level of competence. And then the Dunning-Kreuger effect kicks in.
So you end up with low level people following processes and bullying their way to the top of organisations.

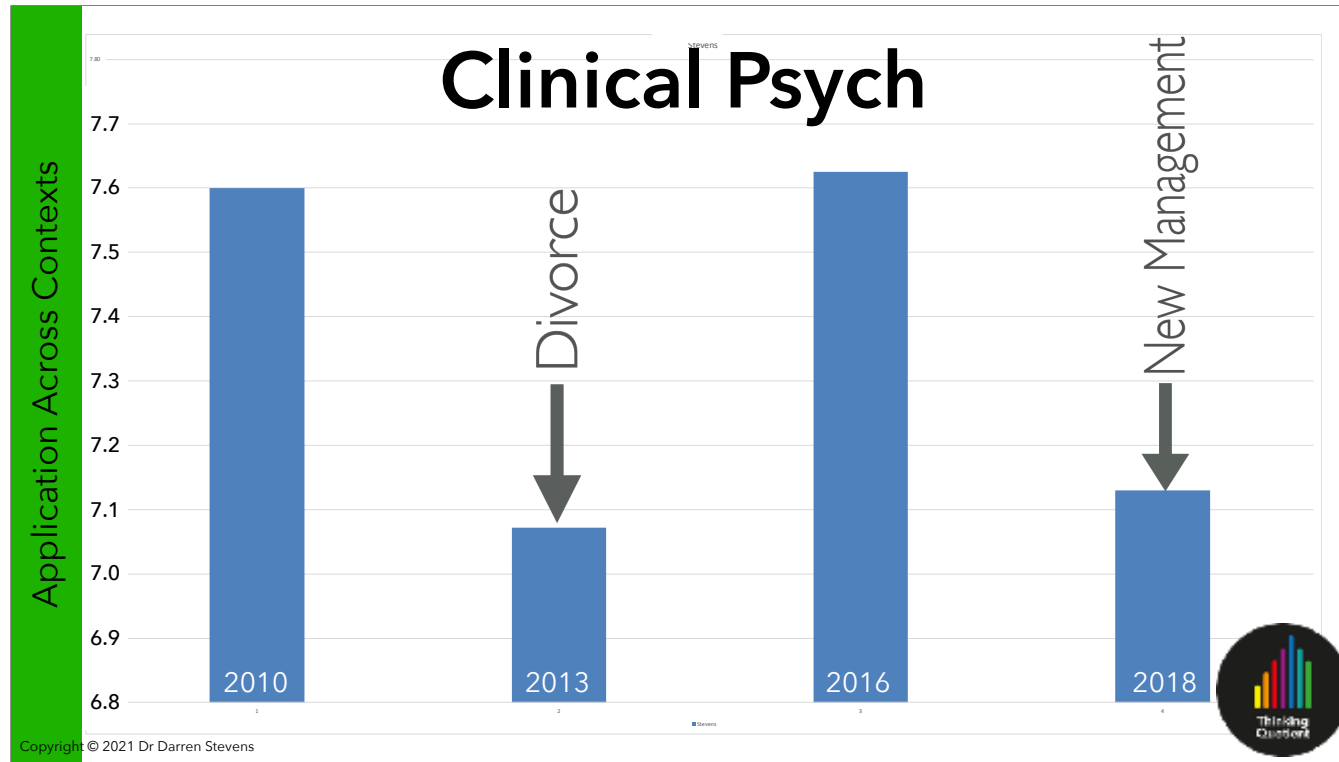


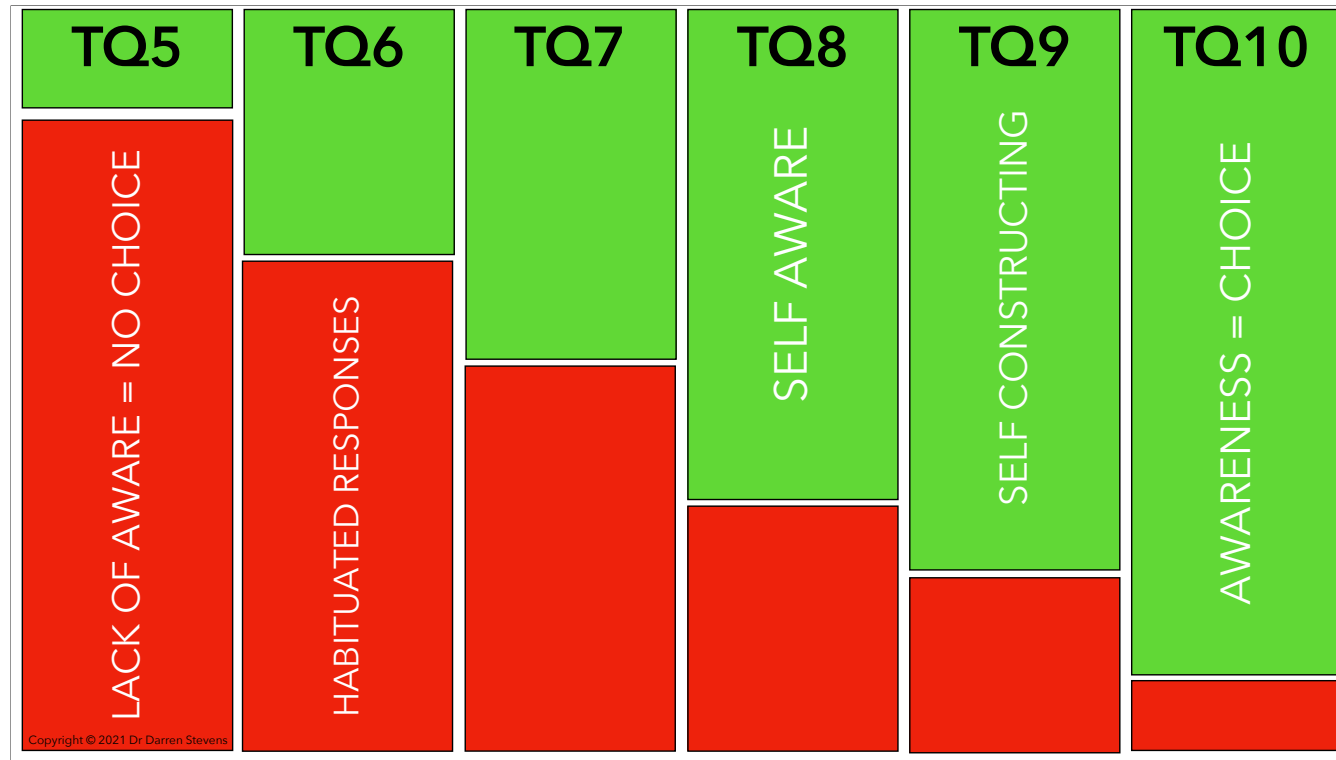
Too much. So what would be a better way to display this information?
If we have said that traits and personality are allegedly stable over time, then WAHT is it that actually changes???
Our self awareness as measured by the TQ



How can we show the developmental path of a person using the TQ that isn't available in psychometrics?







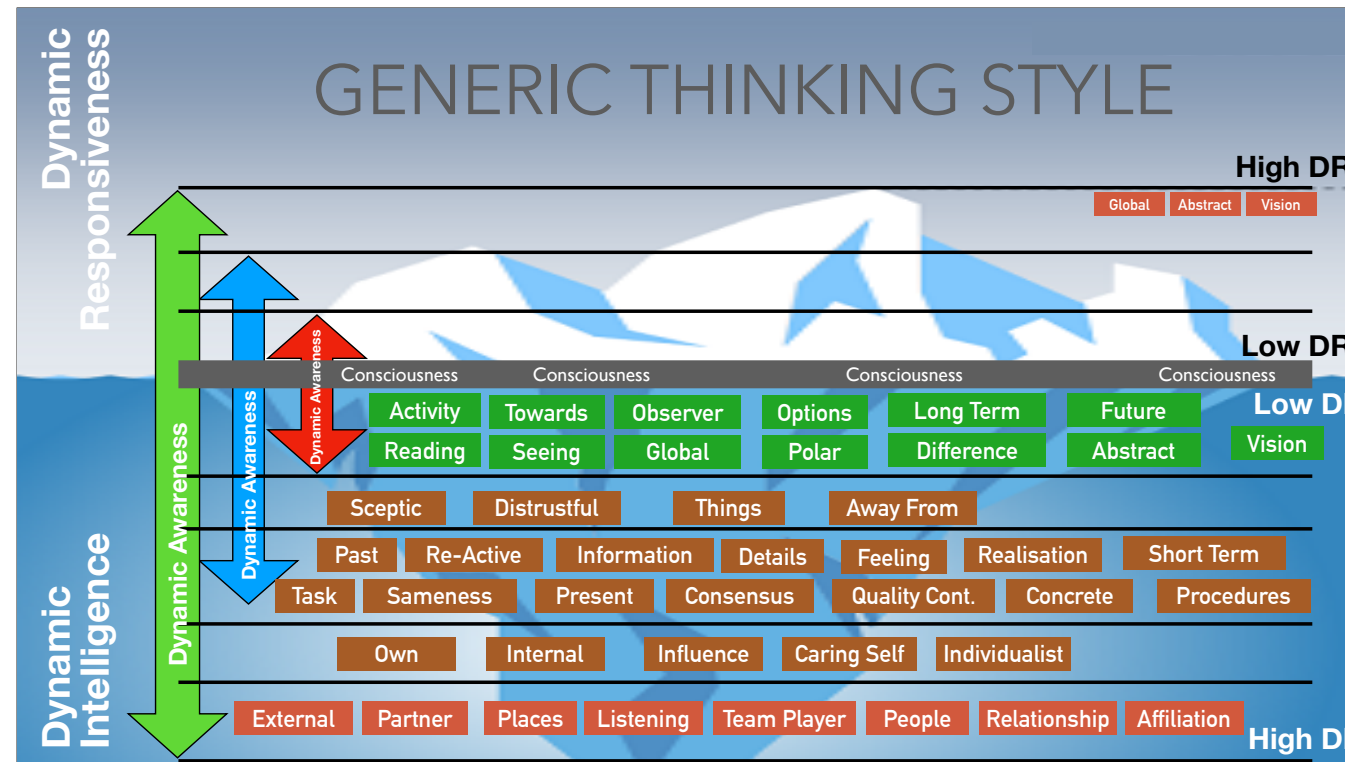
This is the simplest way to look at the TQ. A range of awareness and choice from little to lots.

TQ Level	Construction	Thinking Style	Cognitive Intentions
TQ5 Self- Unaware	Unaware of any construction, of any patterns. Construction would focus on immediate Own, Self, Values, and be out of awareness	Unaware of any thinking style thus unable to construct a style appropriate for the immediate present. Their focus is predominantly on own needs and habituated thinking.	Own, Self, Internal. Unaware of their opposite CI. Focused on using the same CI's that have always worked for them.
TQ6 Other- Unaware	Constructing themselves according to other people's needs	Predominantly concerned with Other, Partner, External and is thus focused on other's needs. It could be within or without awareness. The key is they cannot change it.	Other, Partner, External, Caring for Others - predominantly based on what others need
TQ7 Other- Aware	Still constructing self according to the needs of others, but beginning to recognise the separation of self from group.	Focused on the needs of the other and although this might be within awareness, they do not know how to stop doing it	Gaining balance between Internal/External and Own/Partner. Ability to choose which in context
TQ8 Self-Aware	Aware of the constructed nature of self. Able to construct themselves in the moment up to a point.	Aware of the nature of their Thinking Style and able to choose to be self or other-oriented in context.	Balance between Self and Other. Balanced in their driver CI's and can choose which to use.
TQ9 Self- Constructing	Moving through Self-Aware we actively become conscious of the construction of self in the moment. As we choose how we construct ourselves, this impacts our awareness and understanding of the nature of construction itself.	Our Thinking Style and thus personality is at choice.	Balanced Abstract, Global, Own, Partner, Observer Detail, Concrete....
TQ10 Construct Aware	The recognition that everything is constructed, from self to culture to politics and one is capable of seeing the construction and the pattern within the system and beyond the system.	Fluid. It changes from requirement to requirement in the moment. The awareness that we construct the dialectic is key.	Able to choose which CI is needed on the fly, according to the context and environment. Welcomes Dissonance as a growth factor.

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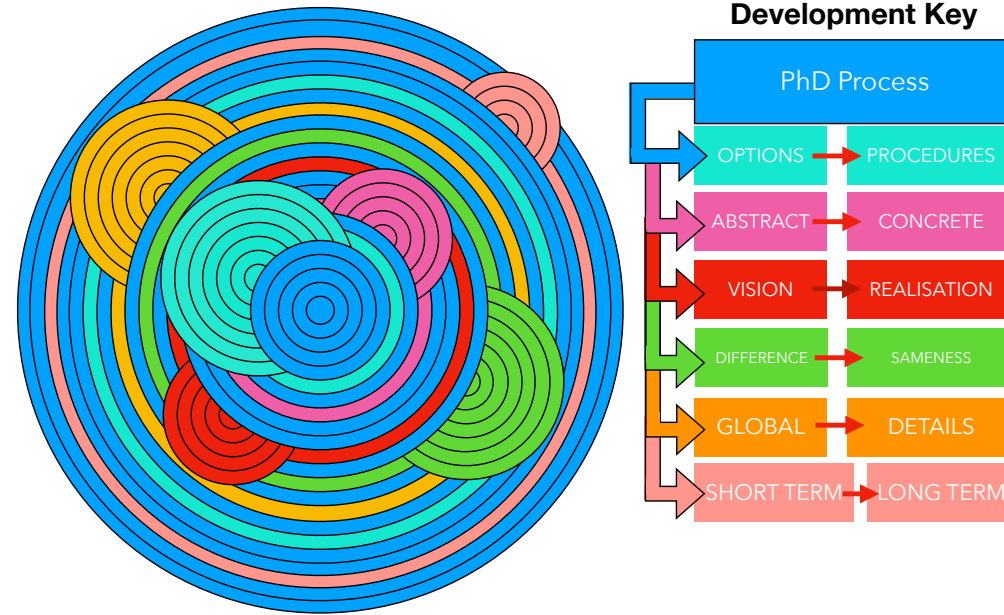
People can be aware of their limitations in their thinking, which seems contradictory, until you recognise that they cannot change their thinking whereas a Self-Aware person could. HOW do they construct MEANING????





So, the data in Study 3 showed me this: there are different Cognitive Intentions available at different levels of thinking.

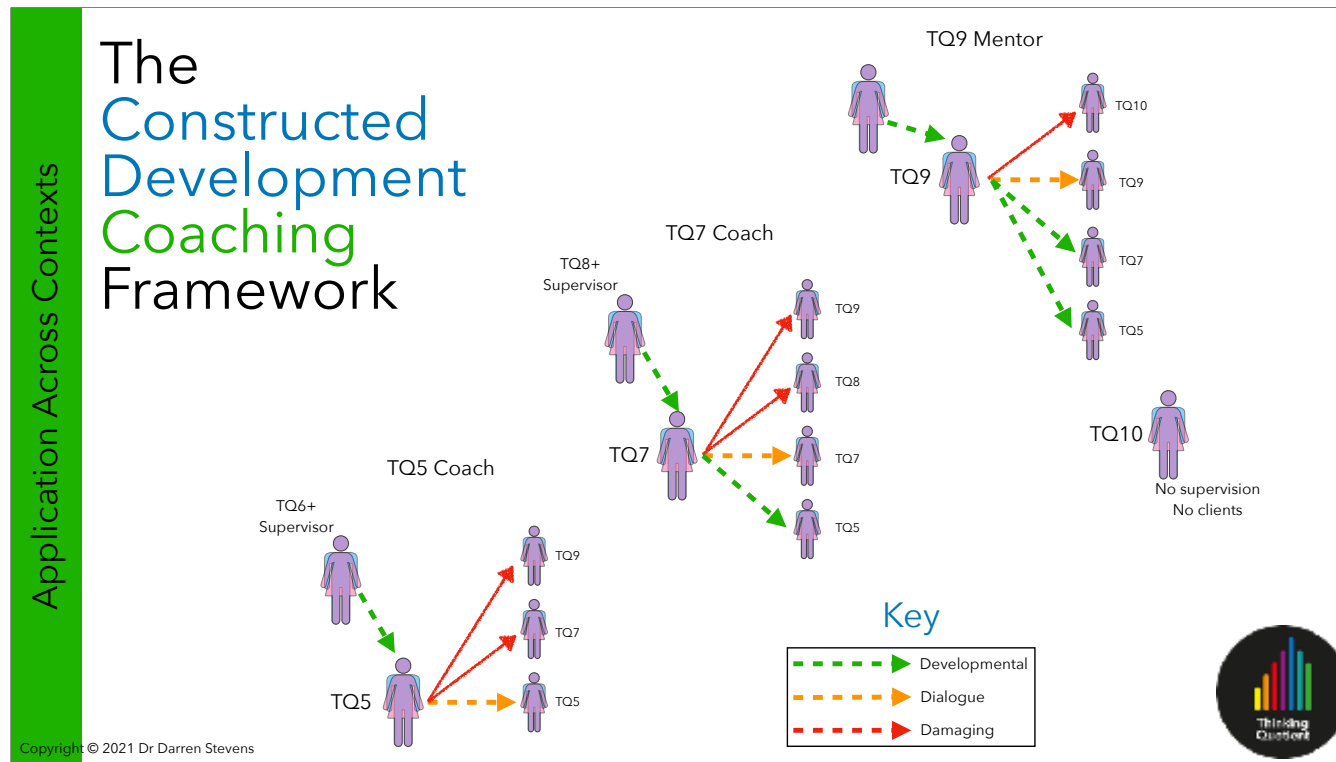
The Endogenous Developmental Onion Holarchy



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THE PHD ONION - If we mapped my thinking at the beginning of the PhD onto my thinking now, what has changed? What did I focus on? How has my thinking grown? What do the bulbous sections look like?
Dynamic Intelligence



There are no unique stages: it is a continual growth in layers of DI. The way the onion layers develop depends on the environmental impacts at various stages in one's life. Hence why the individual development layers in the image occur on different layers of the main developmental onion. They are incorporated into, and add to the DI heuristic over time. Each growth ring is an INTENTION!

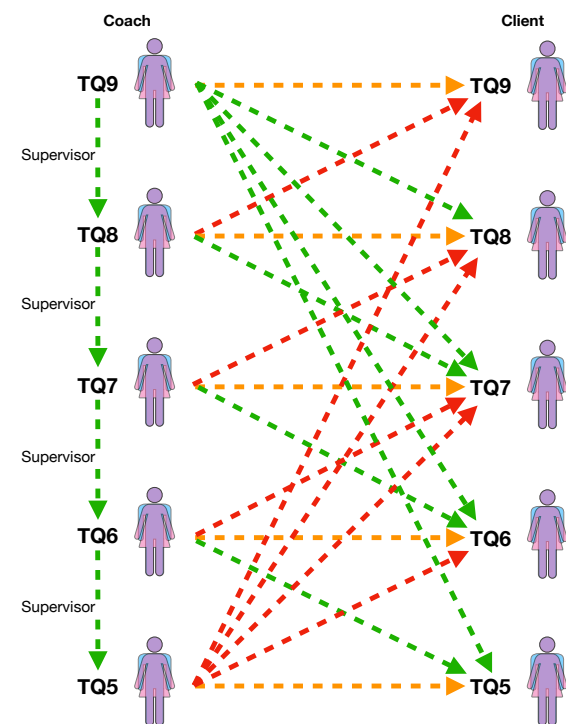


In the context of Coaching, CDT offers a more ethical framework for coaching.
I also have this principle being used in a therapy environment. More on that in my next talk :)

The Constructed Development Coaching Hierarchy

Key

	Developmental
	Dialogue
	Damaging



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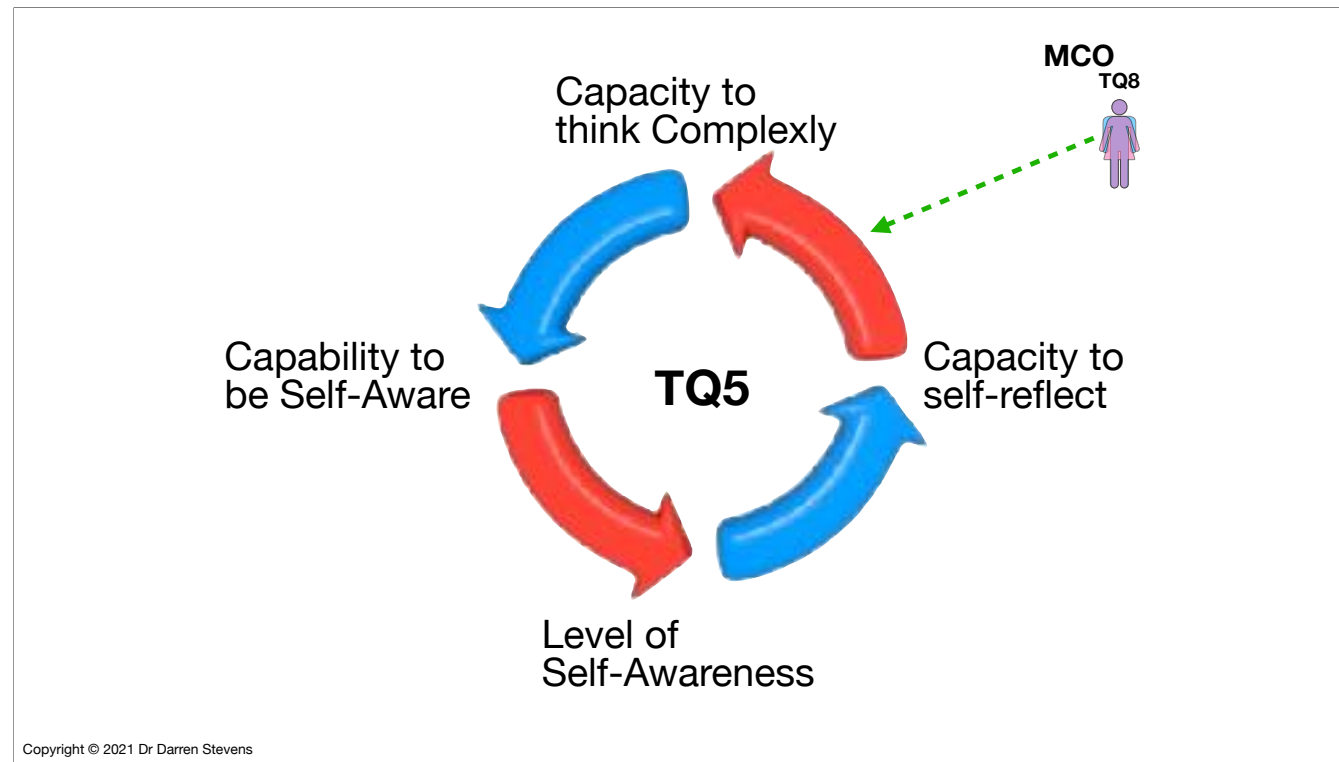
If you're TQ5, you cannot see the change that the TQ5 person needs in order to change. A TQ8 coach can. How can coaching overcome this limitation?

Disruption

If we're not developing our thinking to go above its current level, then what are we doing this for?

Behavioural change doesn't work.

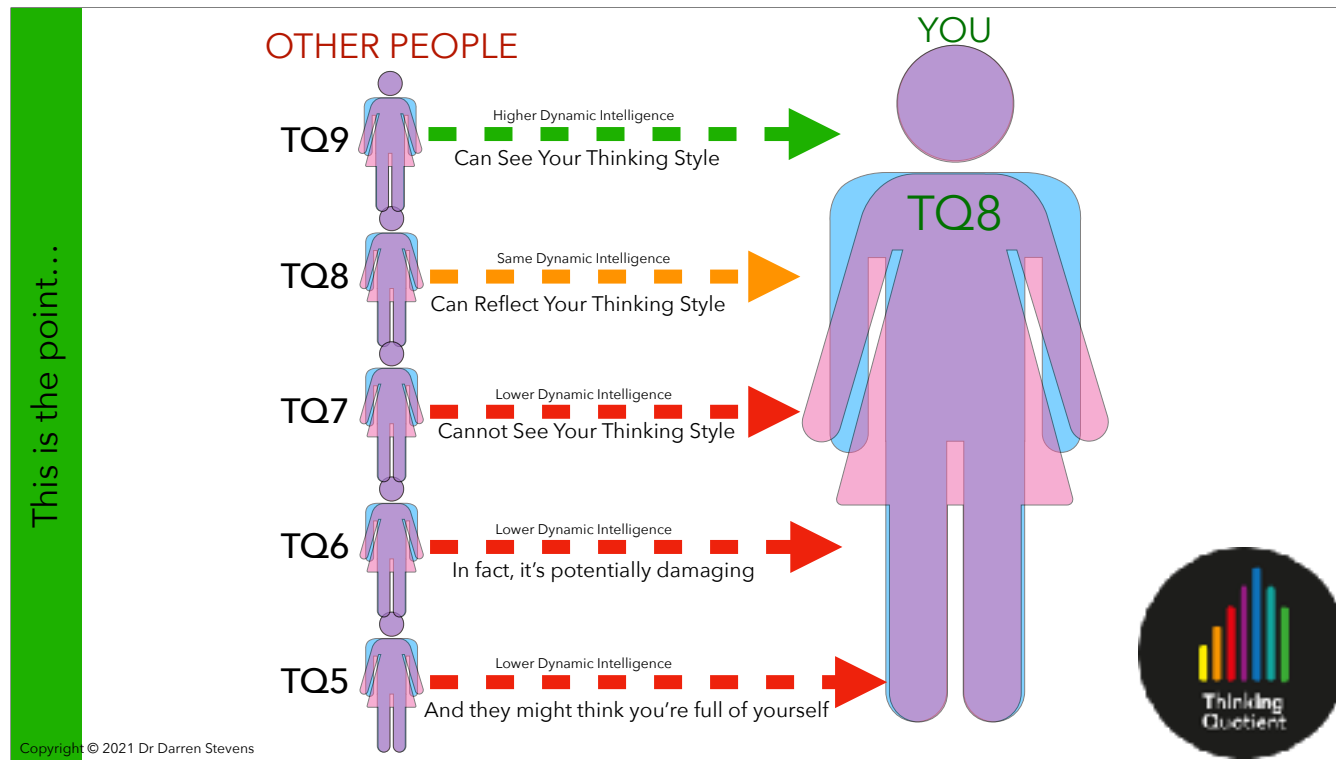
Emotional change doesn't work, because it's still TQ5.



MCO = More Complex Other





They need to perform an intervention in order to disrupt your thinking to facilitate growth.

You cannot do it alone.

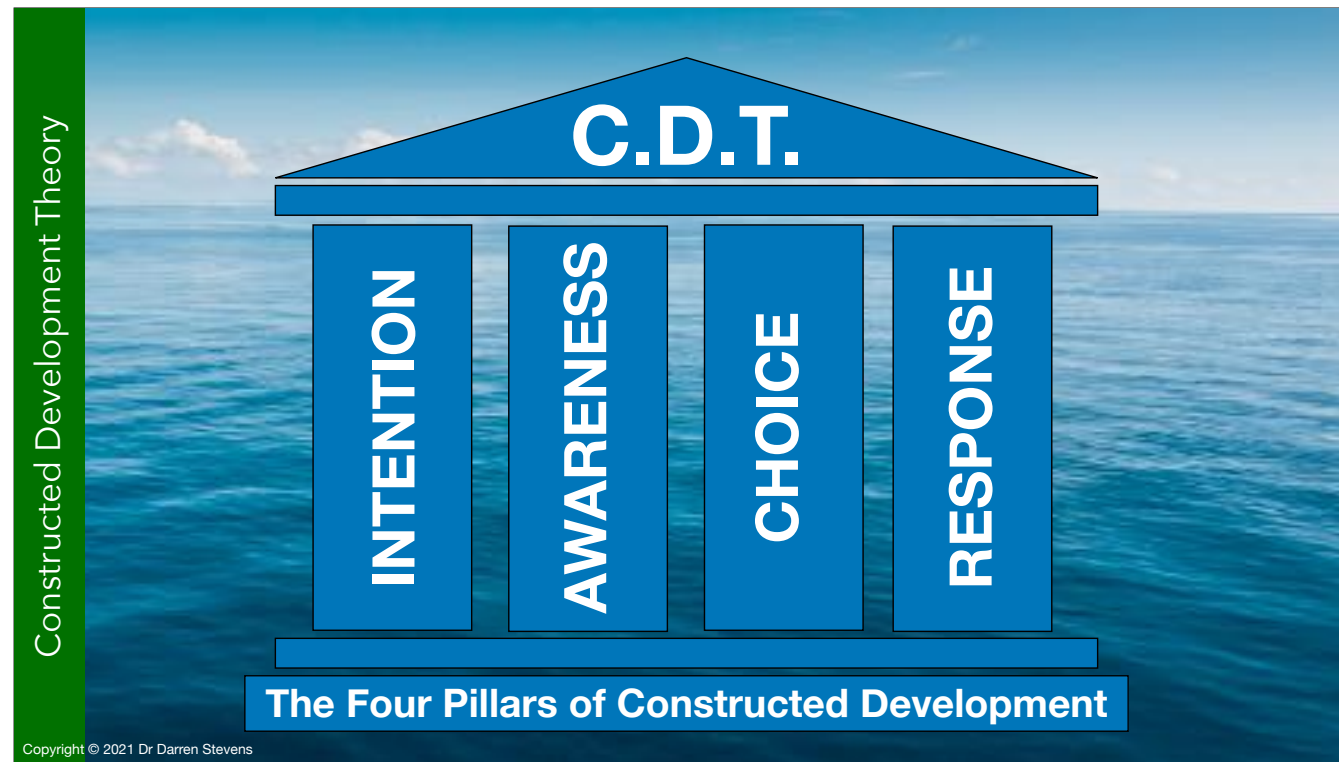


THIS is the final outcome. If you are performing a psychometric on someone who is a decent level of DI above your position, how on earth can you know how they construct themselves enough to give them a job based on lower level criteria?
AND for those wondering, it doesn't matter if you use CI's or another method for measuring self-awareness, the outcome is still one's Dynamic Intelligence.

The Essence of CDT is:

-  The first measure of **Adult Metacognition**.
-  Piaget's **disequilibrium** principle.
-  The foundation of **self-awareness (DI)**.
-  It allows one to become a:

Constructed Developmental Psychologist



For me, as I look at the last image, I think Attention is subsumed by Intention as that dictates to what you pay attention. Your Attention is unconscious, which means it's not being paid conscious attention to. Then Awareness of your Intention/Attention is back in play....

Dynamic Intelligence is a measure of one's Constructed Development. A person's level of awareness of the (process through these pillars of awareness) various combinations of these pillars is their Dynamic Intelligence, and the Thinking Quotient is the scale used to measure this awareness.

We can be aware of a pattern but not at choice to change it. THAT is key!!!!

What's Next?



A PhD student in Australia is using my framework as the foundation for his research into adult development in a Leadership context.



Three therapists are using IACR as the framework for their therapy sessions. These are being written up and evidenced.

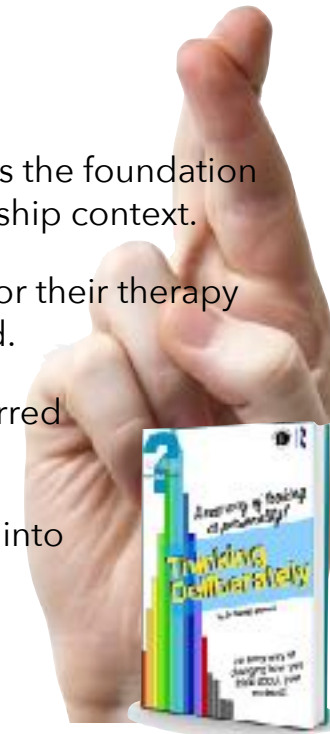


Two business coaches are using CDT as their preferred method for Developmental Coaching.

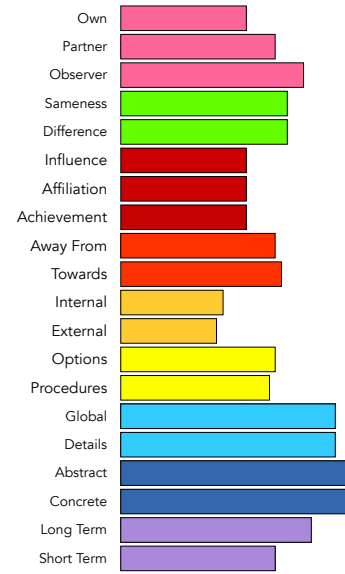


Hopefully, two universities will be introducing CDT into their curriculum in 2021 at UG and PG levels.

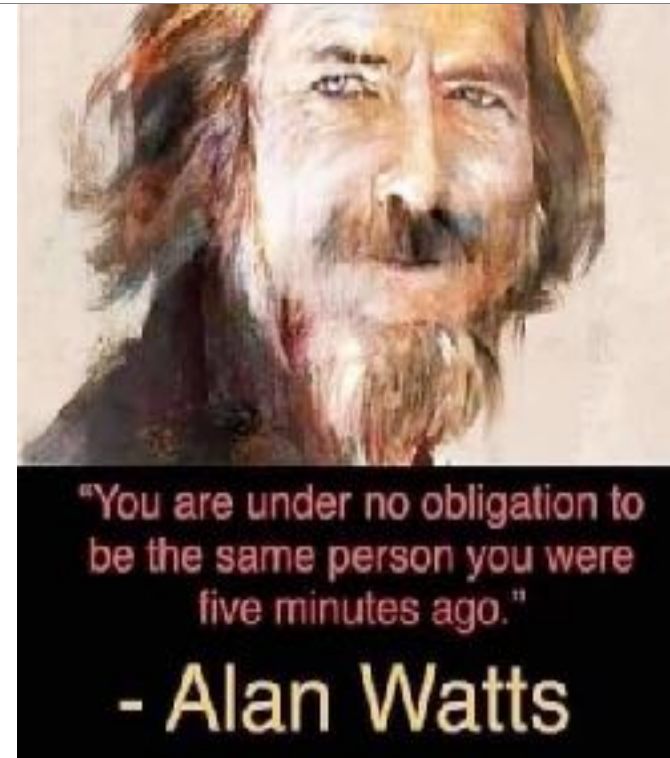
Email: dr@darrenstevens.co.uk



This is the point...



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Constructed Development and Psychometrics:

the Missing Link to Better Personality Data!

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