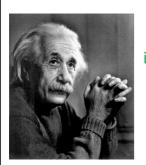
When There's an Image There's a Way

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# Will vs Way

Creating lasting change and well-being requires more than just the *will* to succeed – a limited inner resource. It requires a sustainable *way* – and the most potent process for accelerating and consolidating change is mental imagery. Drawing on imagination – is a virtually unlimited inner resource.



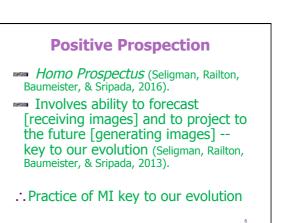
"Imagination is more important than knowledge" (Albert Einstein)

#### **History isn't Destiny**

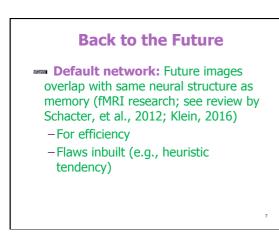
- Old habits die hard
- Best predictor of future behaviour is past behaviour
- Mental Imagery to the rescue!
- Reflecting on our past and imagining the future – hot research topic in neuroscience (Van Hoeck, et al., 2013).

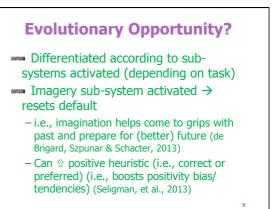
## **Mental Time Travel**

Memory fn adaptive mechanism to be better oriented toward (anticipate) future
 "evolved function of memory was to focus thought and behaviour on the future rather than on the past". (Klein, 2016, p. 383).
 "memory must, of necessity be oriented toward the future". (Klein, 2016, p. 382)
 Future prospection underwritten by memory, but not necessary (Klein, 2016)



#### When there's an image – there's a way.





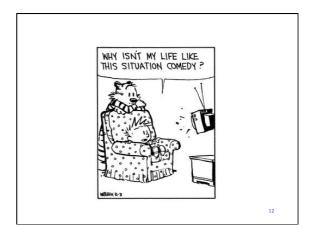
#### **Imagination & Optimism**

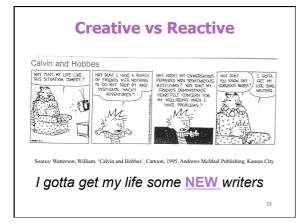
 Practical optimism = mental imagery (Blackwell, et al., 2013; Busseri & Choma, 2016)
 Positive imagery - generates greater optimism, confidence and emotional capacity for future events and becoming our best selves (Peters, Flink, Boersma, & Linton, 2010; Pictet, Coughtrey, Mathews, & Holmes, 2011; Layous, Nelson, & Lyubomirsky, 2013; Sheldon & Lyubomirsky, 2006)

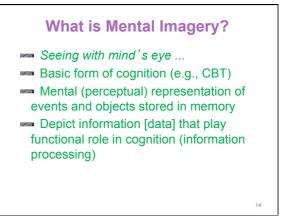
# Rewriting History Mental imagery (MI) is increasingly being recognized as a powerful tool for reprogramming the brain – for essentially rewiring the brain by positively transforming the negative impact of one's past experiences /memories (e.g., DeBrigard, Szpunar & Schacter, 2013; Hackmann, Bennett-Levy & Holmes, 2011; Reinecke, Hoyer, Rinck, & Becker, 2013; Ronen, 2011). To creating a better future.

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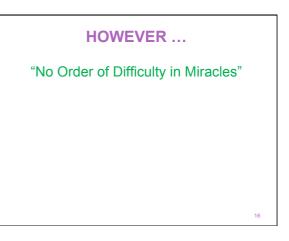
Imagination, therefore, is one of the most powerful inner mental resources for facilitating and accelerating change – whether adapting to change, or changing patterns of how one thinks, acts (and reacts), and feels. To be more in control over our destiny, and less victim to bad habits, worries and fears (and history), taking better control over the images of our minds will lead the way.

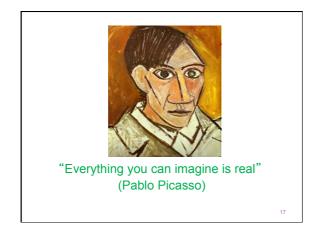


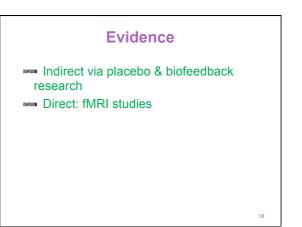


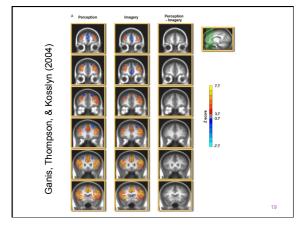


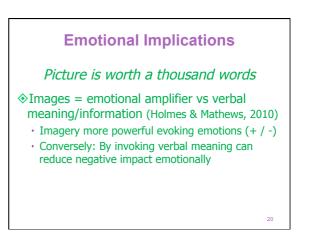












#### Back to the Future: Looking Back to Move Forward

- Best place to start:
  Recalling Peak Experiences and
  - Recalling Peak Experiences and Performances (from memory bank)
     Projecting to future.
- *Best Future Self* (BFS) (aka BPS)
- Rewriting History: preferred recreation of memories & therefore future frame of reference.



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#### **Director Fn**

- Highlights important function of goals as directs attention & brain circuitry (Cole & Berntsen, 2016; Ditta & Storm, 2016).
  - i.e., brain sends out search party for relevant data pertaining to goals to 'recombine/ reconstruct' (i.e., imagine) future.

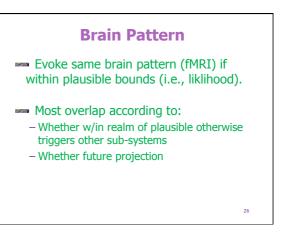
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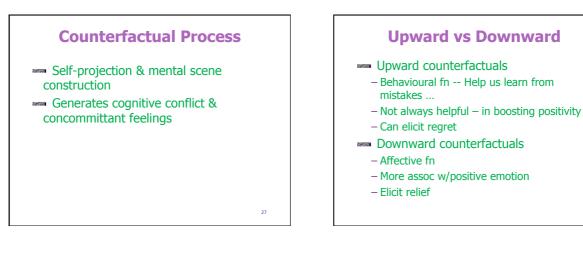


When there's an image – there's a way.

#### **Counter-Factual Thinking/Imagery**

- Over-riding past experience with new 'data' ... thus enabling a better future (frame of reference).
- <u>Undoing</u> (effects of) certain action (de Brigard, Szpunar & Schacter, 2013)
- Assoc w/problem solving ability and decision-making (de Brigard, Addis, et al., 2013; Van Hoeck, et al., 2013)
- Relevance to regulation of future behaviour (Van Hoeck, et al., 2013)

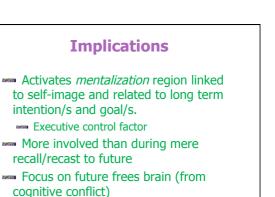




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# Differentiated effects and brain pattern according to:

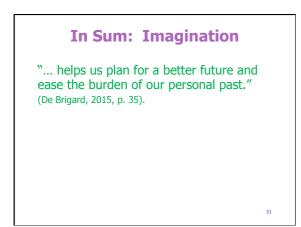
- Repetition factor (deBrigard, Szpunar & Schacter, 2013)
- Walence
- Self-relevant (i.e., first person)
- Liklihood (plausibility)
  - The less likely (plausible) the more subsystem activated (parahippocampal cortex, inferior frontal gyrus) → mental imagery skill
  - and less another activated (left superior frontal gyrus) (de Brigard, Addis, et al., 2013)

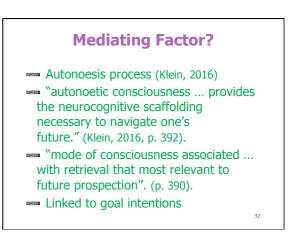


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#### When there's an image – there's a way.





### Autonoesis

- Assoc w/ structures in frontal lobe (& not temporal where memory resides).
  "Same process can give rise to variety
- of mental experiences [and vice versa?] (e.g., thought, imagination, belief, desire, inference, plans, attitudes, hope, fear ..." (Klein, 2016, p. 387).
- The very stuff of (psychotherapeutic) change!



"Go confidently in the direction of your dreams! Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler." (H.D. Thoreau)

