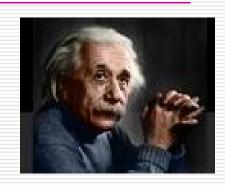
PMI (SA) 21 October 2013 Presenter – Faye Bound





"Imagination is more important than knowledge."

Albert Einstein



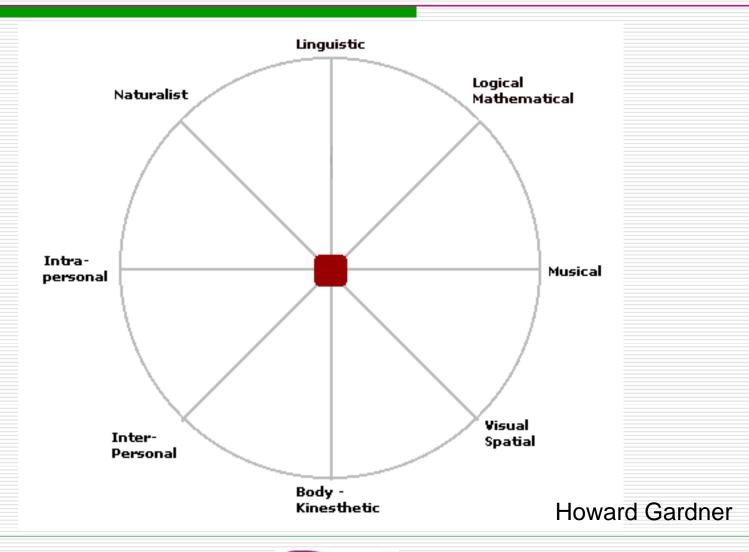
Problem Solving

☐ Thinking on Your Feet

The best way to predict the future is to create it!

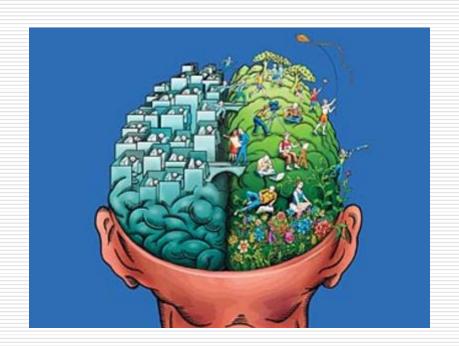


# Multiple Intelligence





### Are you more a left-brain or right-brain thinker?





### The Brain

#### Left Brain

- Logical
- Analytical
- Sequential
- Detailed
- Categories
- Literalness

### Right Brain

- Creative
- Synthesis
- Simultaneous
- Big Picture
- Relationships
- Emotional expression



### Critical Thinking and Innovation

A new idea applied to initiating or improving a process, product or service







# Random Input/Provocation

# Ladder



### Problem Reversal

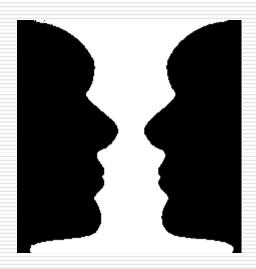
- □ To use this technique, you start with one of two "reverse" questions:
- Instead of asking,
  - "How do I solve or prevent this problem?" ask-
  - "How could I possibly cause the problem?"
- Instead of asking -
  - "How do I achieve these results?" ask, "How could I possibly achieve the opposite effect?"



## Ask Questions

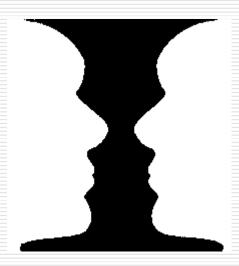


# **Applied Imagination**



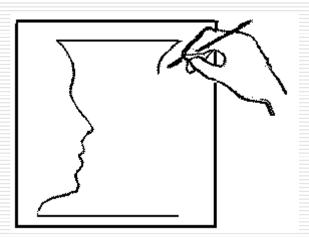


# Creativity





# Creativity

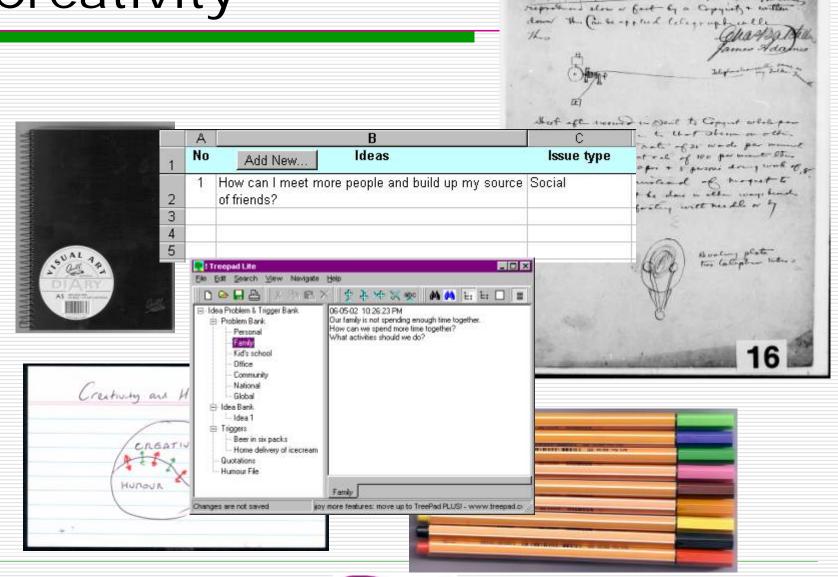




# Recognising Personal Conceptual Blocks



## Creativity





### Music

### **Avoid**

- music with lyrics. Classical, light jazz, electronic and instrumental music of various forms can work well.
- music that demands your attention
- music with large, sudden changes in amplitude.
- music with sustained tones and subtle variations.



### Music

### Recommendations:

- ☐ Brahms: Concerto in A Minor, Op 102
- Chopin: Piano Concerto No.1 in E Minor Op. 11
- □ Beethoven: Sonata No. 14 in C-Sharp Minor Op. 27
- □ Vivaldi: L'Estro Armonico, Op.2;
  Concerto No. 5 in A Major



# Creative Problem Solving Model

- The total six stages are:
- Mess-finding (Objective Finding)
- □ Fact-finding
- Problem-Finding
- Idea-finding
- □ Solution finding (Idea evaluation)
- Acceptance-finding (Idea implementation)

Alex Osborne 1963



# Intrapreneurs

Individuals who engage in entrepreneurial roles inside organisations



### Idea Champion

An individual who generates a new idea or believes in the value of a new idea and supports it in the face of numerous potential obstacles.



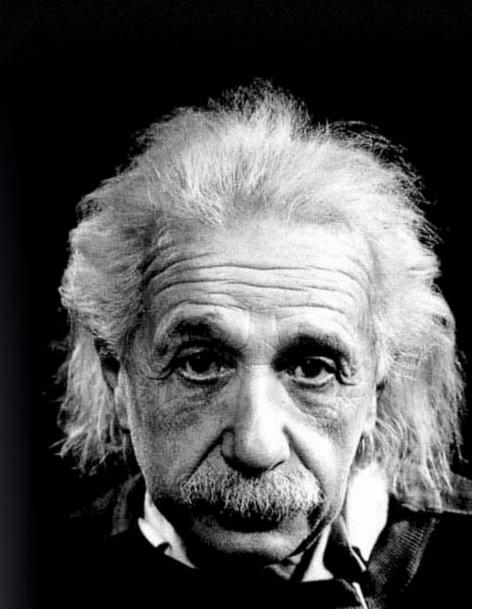
### Multidimensional Thinking

- What is our future?
- Where do we want to go?
- How can we get there?
- What information do we need?
- How can it be used?
- Why, when and where do we use it?



Everything should be made as simple as possible, but not simpler.

Albert Einstein



# Sometimes we stare so long at a door that is closing, that we see too late the one that is open.

Alexander Graham Bell



So next time you just do something because "it is the way things are done around here" —think about it — critically!!.



### Must Reads

Creating Minds - Howard Gardner © 1993

Buzan's Book of Genius - Tony Buzan and Raymond Keene © 1994 Creativity - Beyond the myth of Genius - Robert Weisberg © 1992 The Great Thinkers - Edward de Bono & George Weidenfeld © 1976

