Building Minds for the Future

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"As Many People have pointed out, our educational system basically prepared individuals for the 19th and 20th century"

Howard Gardner, in his most recent Book "Five Minds for the Future"

Motivations

- Does the surrounding enviroment affect the formulation of mind set?
- How does culture impact the core types of mind?
- How can we face the future (unexpected) with the 5 types of minds?
- How can culture promote the building of the scientific mind?

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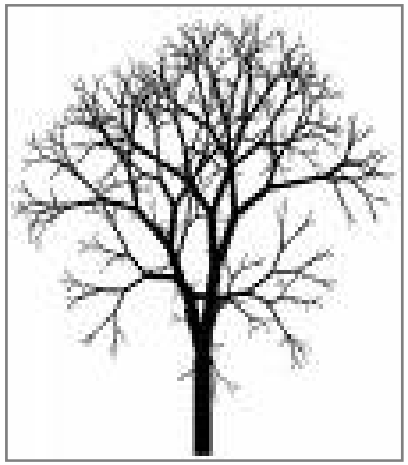
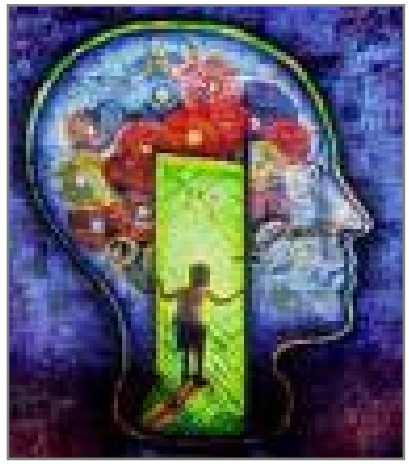
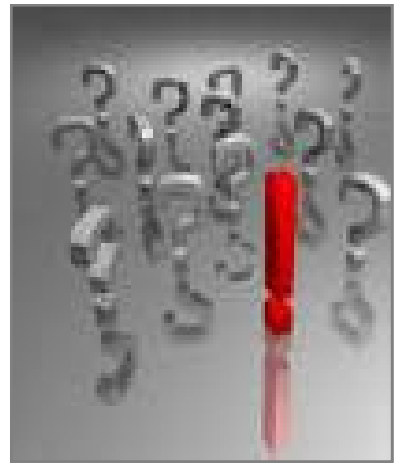


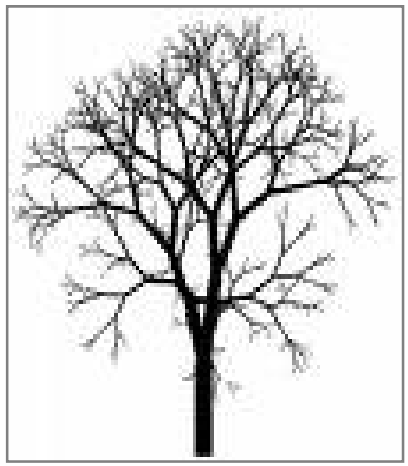
Characteristics of the Future



Core Types of Mind



Towards Building Minds for the Future



Main Characteristics of the Future

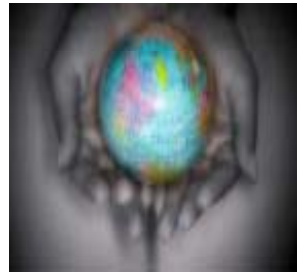
Key driving forces

Globalization and regionalization

- ***Increase of uncertainty***
- ***Governance and collaboration efforts***

Personalization and collaboration

- ***Tailoring Products***
- ***Working together is needed***



Sustainability

- ***Defining the coming era***
- ***Doing something today, baring in mind the long term perspective***

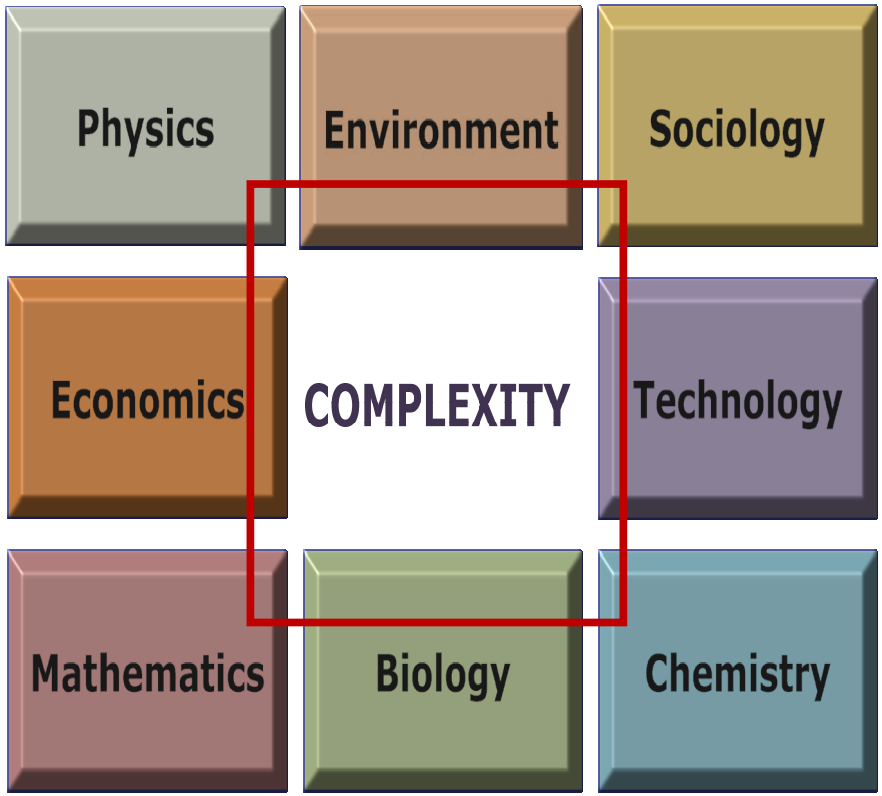
Approaches and tools

- ***To address the driving forces***
- ***Hybrid solutions (old + new tools)***

Main Features of the Future

- Increasing uncertainty, and trend towards depending on Knowledge; Change and Globalization
- Competition is becoming Global Hyper-competition rather than Local, with a Customer-driven orientation
- Institutional Excellence is now the main sources of sustainable competitive advantage, along with Human Resources, Tacit Knowledge and Customer Partnership.
- **The Scarce Resource seems to be the Well Developed Human Capital.**
- The Main Education Requirement is the Continuous Learning, not a Skill or Even a Degree

Complexity ..the Main Symptom



- According to the key driving forces and the main characteristics of the future mentioned above, we can conclude that everything is getting more complex, with more choices.
- Complexity as a phenomenon is omnipresent in natural, social, business, artificial, engineered or hybrid systems
- Broadly speaking, complex systems consist of a large number of heterogeneous highly interacting components (parts, agents, humans etc.). These interactions result in highly non-linear behavior and these systems often evolve, adapt, and exhibit learning behaviors

Core Types of Mind

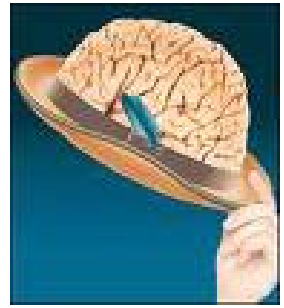
Gardner's 5 Minds

Disciplined
Mind

Synthesizing
mind

Creative
Mind

Respectful
Mind



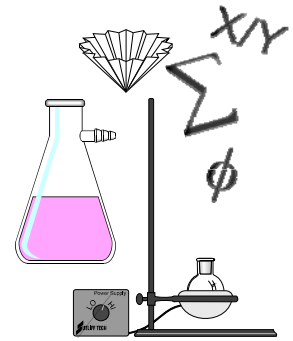
Ethical
Mind

Disciplined Mind

"Individuals without one or more disciplines will not be able to succeed at any demanding workplace and will be restricted to menial tasks. "

(Gardner, p. 18)

The mastery of major schools of thought, including Science, Mathematics, and History; as well, it includes the ability to keep your thoughts focused, goal-directed activity to the exclusion of all else, with high levels of mental



Disciplined Mind

Cont.

science

history

the arts

mathematics

like experts

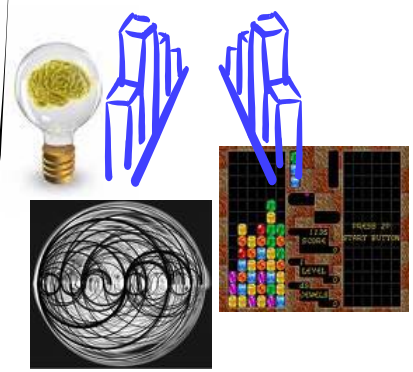
Learning to think

THE DISCIPLINED MIND

Synthesizing Mind

"Individuals without synthesizing capabilities will be overwhelmed by information and unable to make judicious decisions about personal or professional matters." (Gardner, p. 18)

Refers to the ability to integrate ideas from different disciplines or spheres into a coherent whole and to communicate that integration to others. It provides the most interesting challenges. All of us are deluged with information,much of it of questionable value. The synthesizing mind invokes a set of criteria in deciding what to pay attention to and what to ignore. It then puts together the information in ways that are powerful and memorable; and the synthesizing mind must also be able to pass the synthesis on to other, efficiently & effectively



Synthesizing Mind

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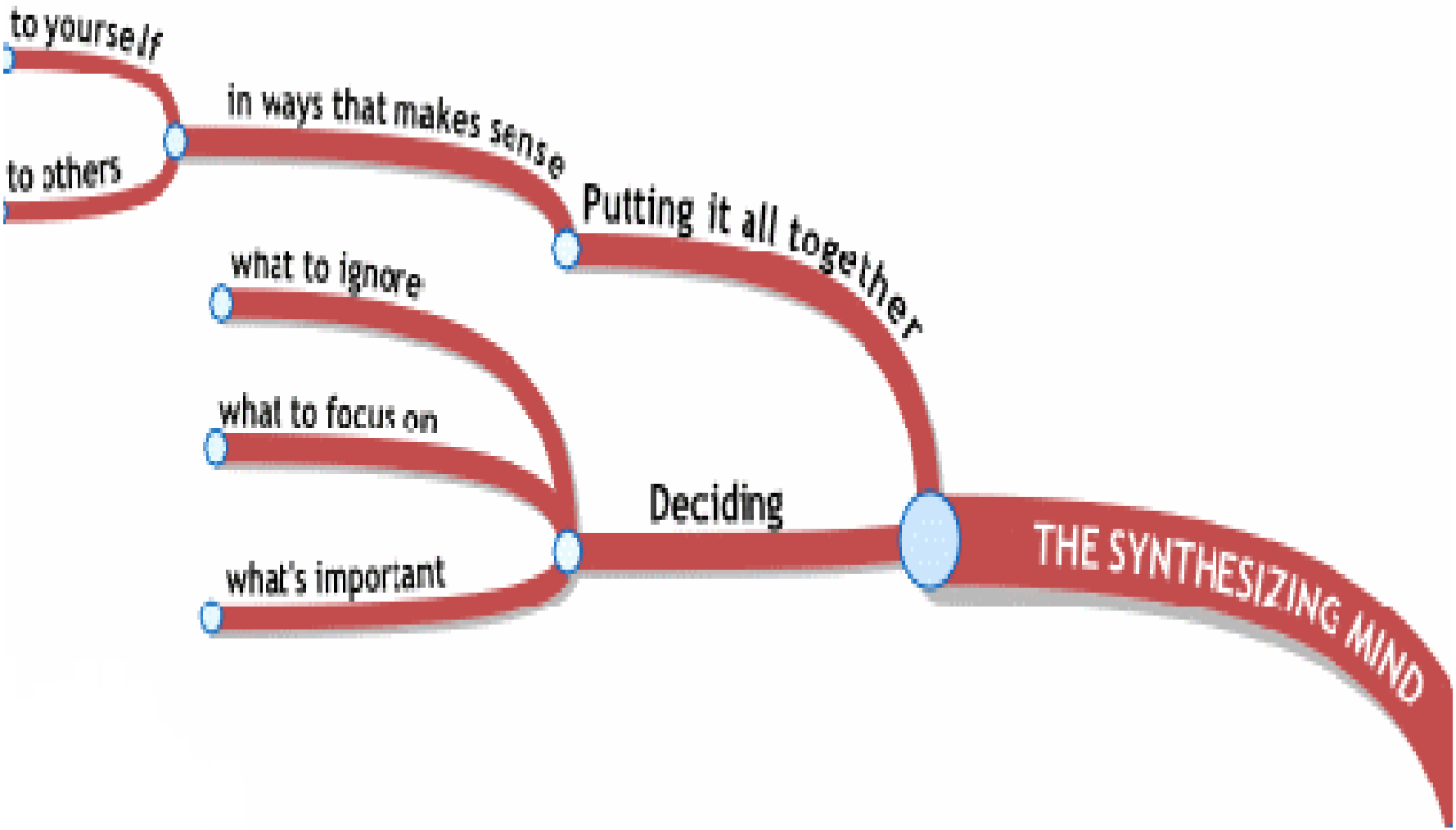
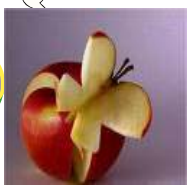


Creative Mind

"Individuals without creative capacities will be replaced by computers and will drive away those who do have the creative spark"
(Gardner, p. 18)

Is being able to think outside the box – to come up with new problems, new methods,new solutions, and new paradigms.The crucial point here is that one cannot think outside the box,unless one has a box!That box comes as a result ofmastering one or more disciplines, and carrying out necessary syntheses– tasks that take a solid decade. Creativity favors the young mind. The challenge to aspiring creators is to become sufficiently disciplined and synthetic that one has time and energy to discover the unknown. Contrary to conventional wisdom, creativity has at least as much to do with personality, temperament, and motivations as with sheer intellect. Creative people want to be innovative and, when they fail, they pick themselves up and try again.



Creative Mind

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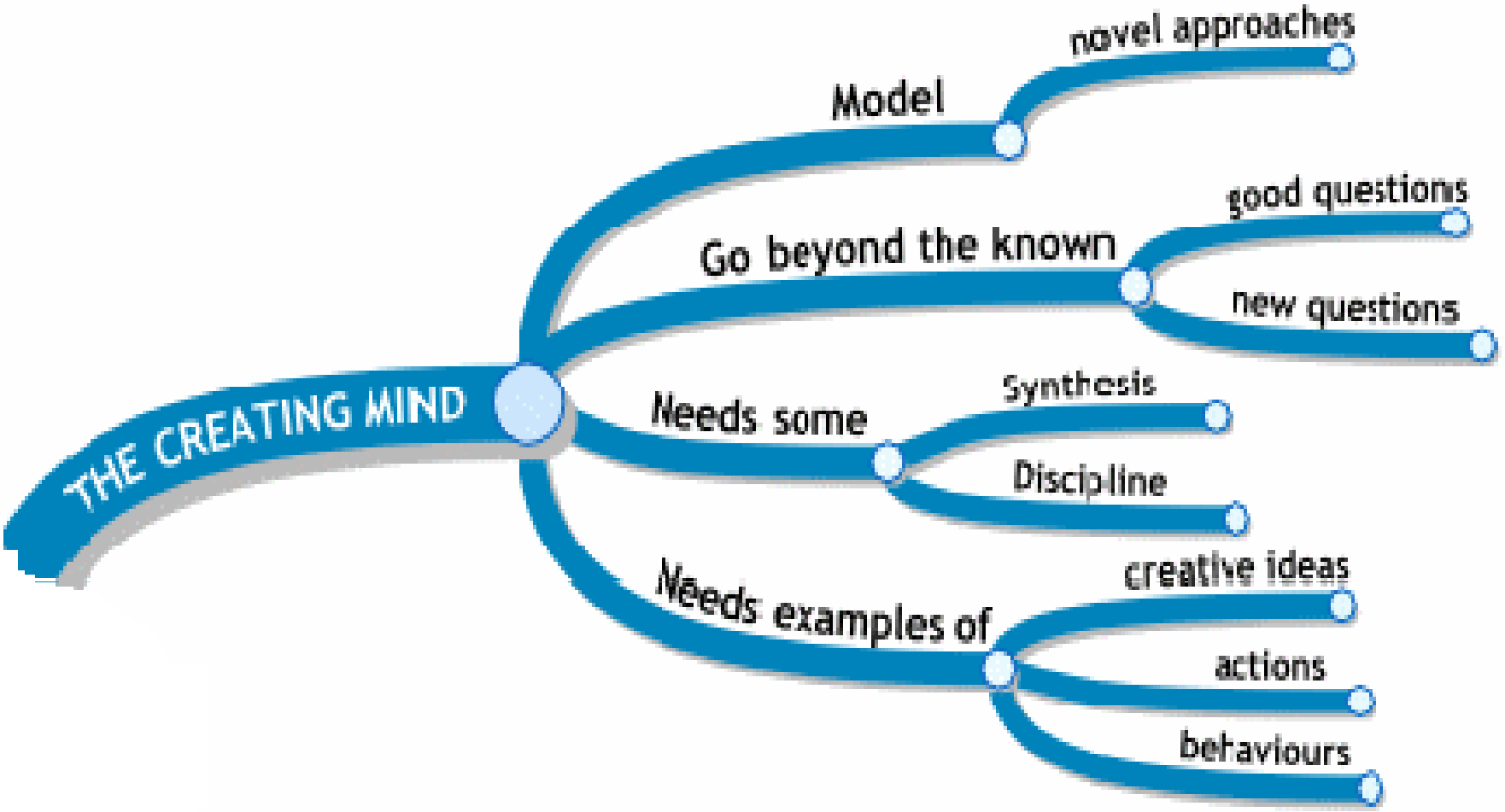
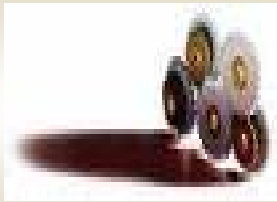
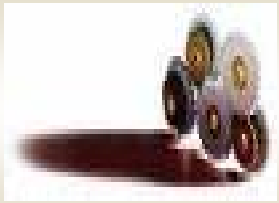




Respectful Mind

"Individuals without respects will be not worthy of respect by others and will poison the workplace and the commons."
(Gardner, p. 19)

This is about recognizing the "otherness" of people different from ourselves and respecting the differences of, for example, traditions, religion, and ethnicity. It refers to the awareness of/ and appreciation for differences among human beings and human groups.



Respectful Mind

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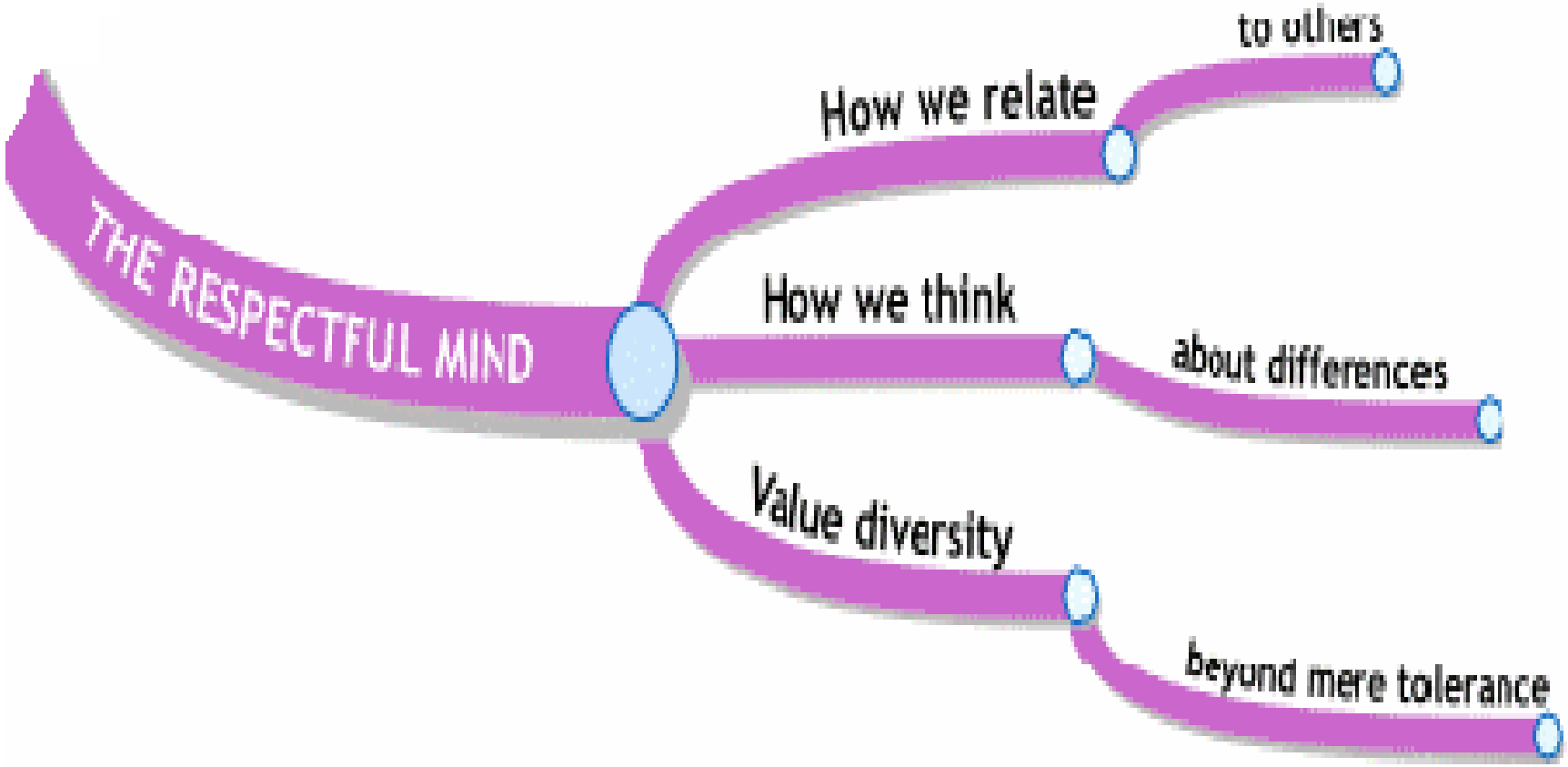
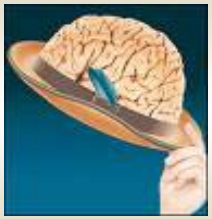


Ethical Mind

"Individuals without ethics will yield a world devoid of decent workers and responsible citizens: none of us will want to live on that desolate planet" (Gardner, p. 19)

This goes beyond simply respecting others towards actively striving to do good, trying to make the world a better place. The "ethical mind" encouragesus to do what is right even when it clashes with self-interest.



Ethical Mind

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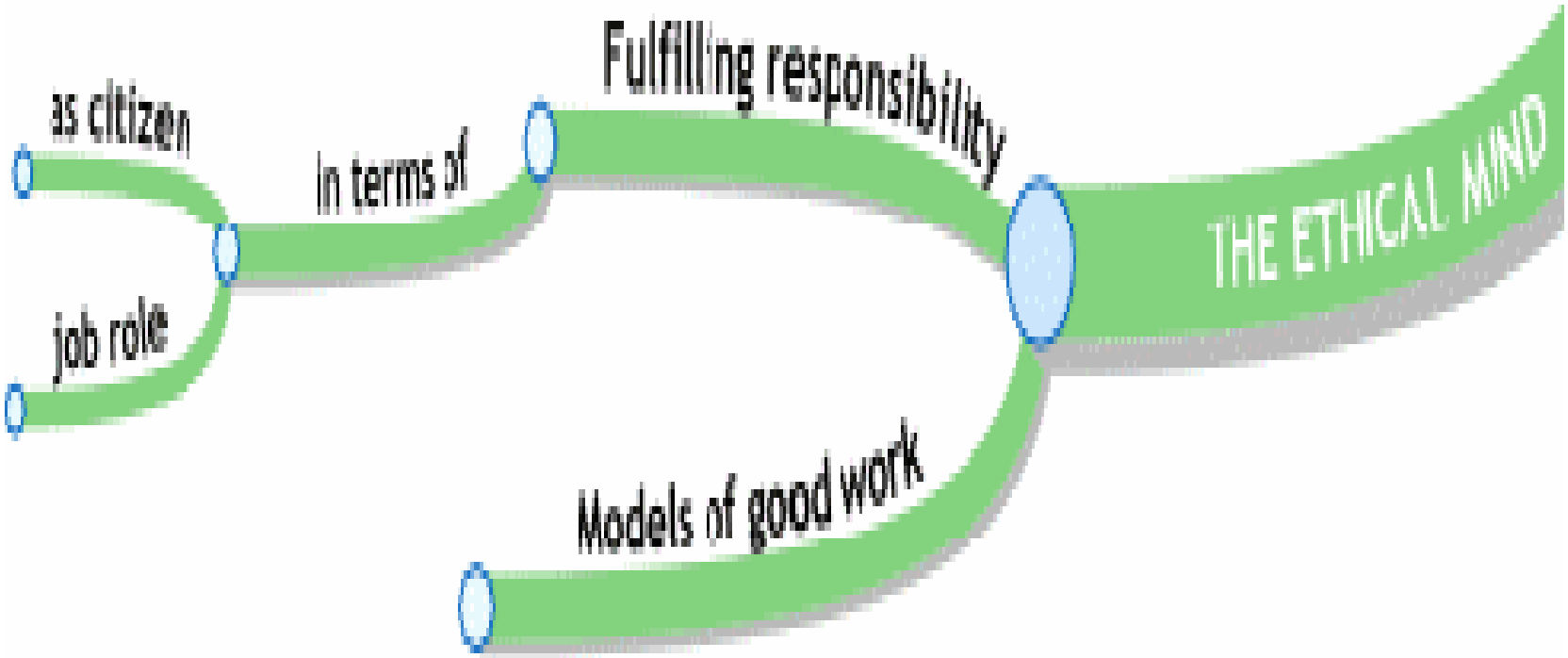
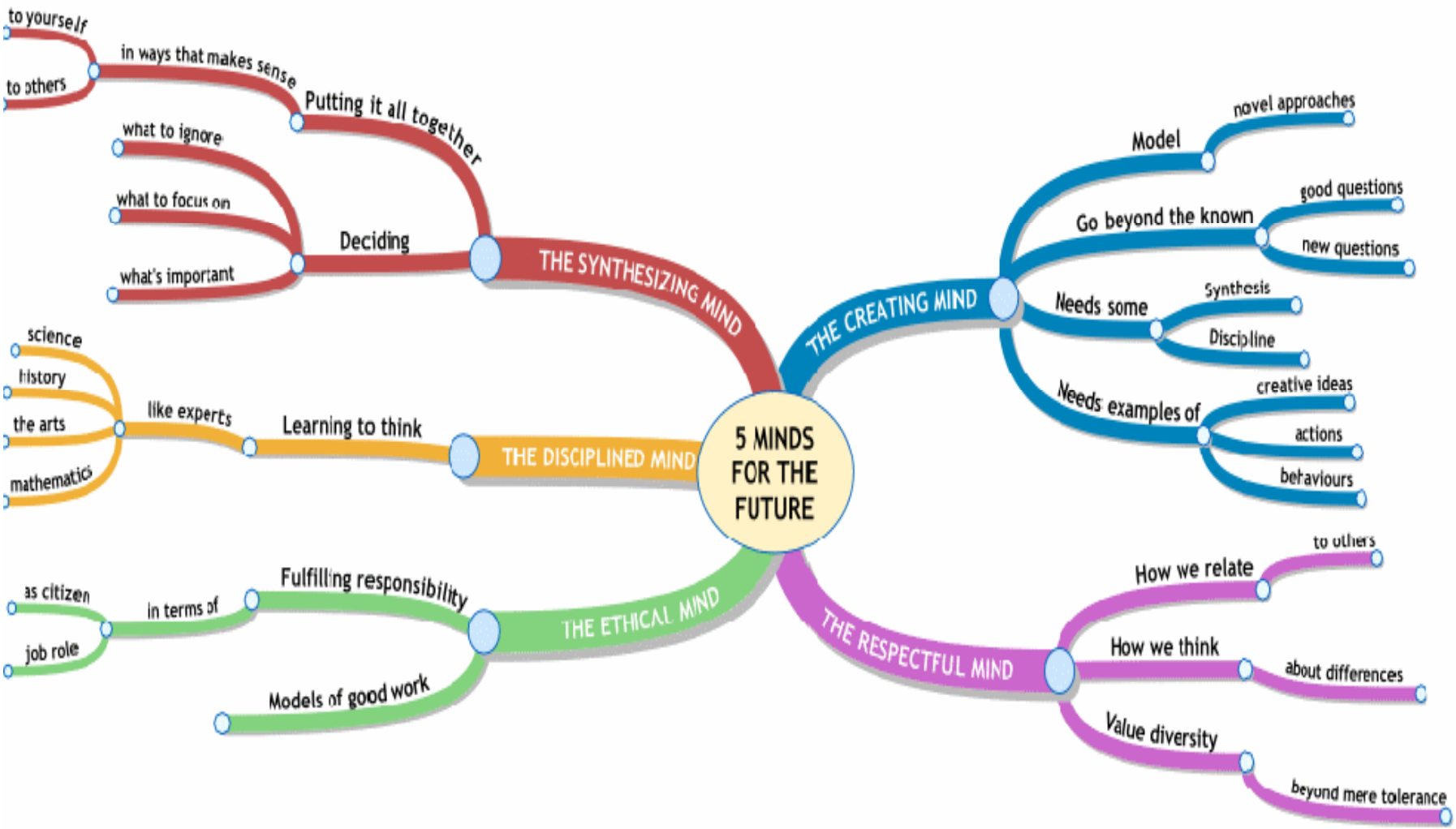
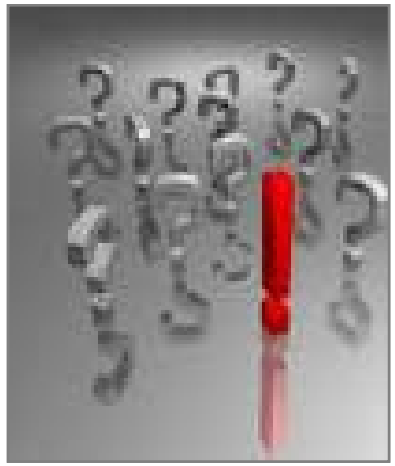


5 Types of Minds for the Future !





Towards Building Minds for the Future

Key Questions ..

- Why are these five types of mind so important right now?
- How do they work and how could we develop them?
- How to measure and assess these five kinds of mind?
- Do we need other types of mind to cope with the future challenges?
- How to integrate these different kinds of mind in one, in a trial to seek perfection?

It is a brainstorming ..

- Trying to find possible ANSWERS for the 5 main questions.
- Raising any other relative QUESTIONS or ideas.
- Acting and playing with cards to introduce IDEAS?
- Polling ideas for a FUTURE framework, proposed by the group.
- Sharing the FINAL document.