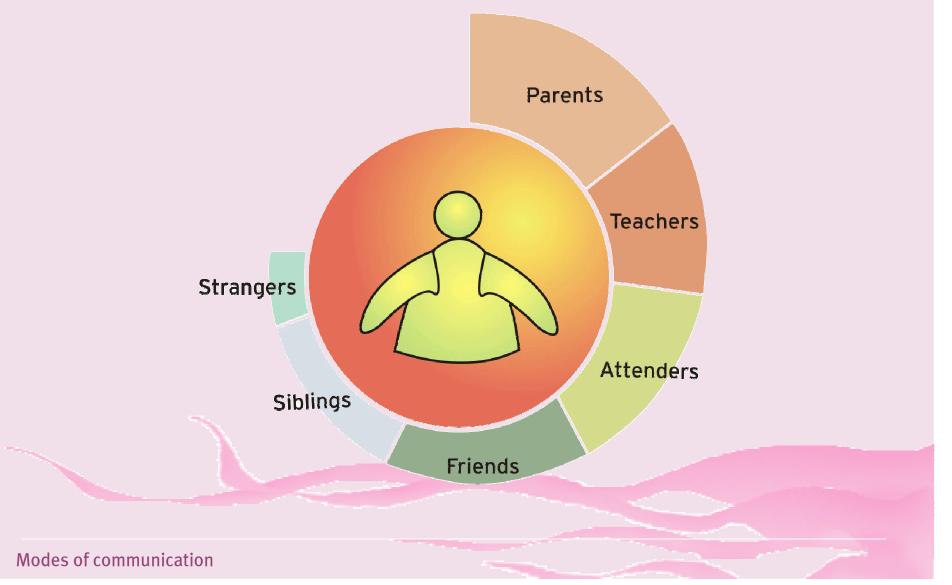
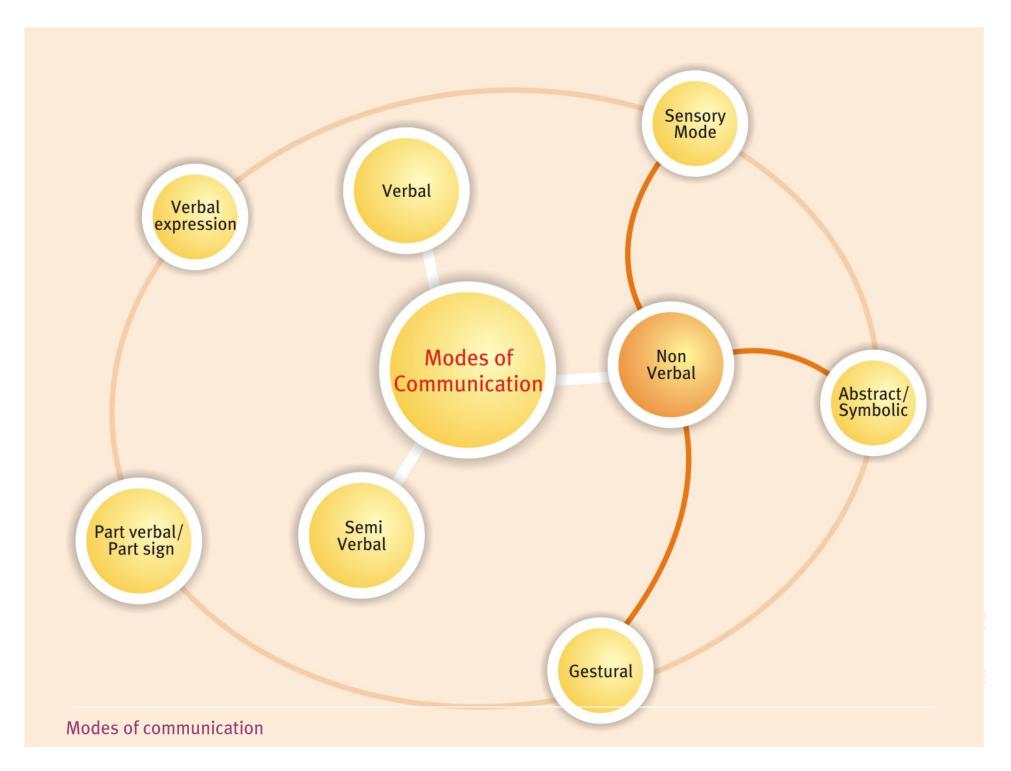
# Communication world of Cerebral Palsy

# With Whom would a Non-Verbal Interact....and How?





#### **Profile for Study**

- Our focus for Age 9 13 (chronological age)
- Physical **DISABILITIES** may vary
- Have an average **LEARNING** ability
- And they are NON-VERBAL

communication device for CP kids

# Communication

#### Physical

.Possible somehow with the help of external aids

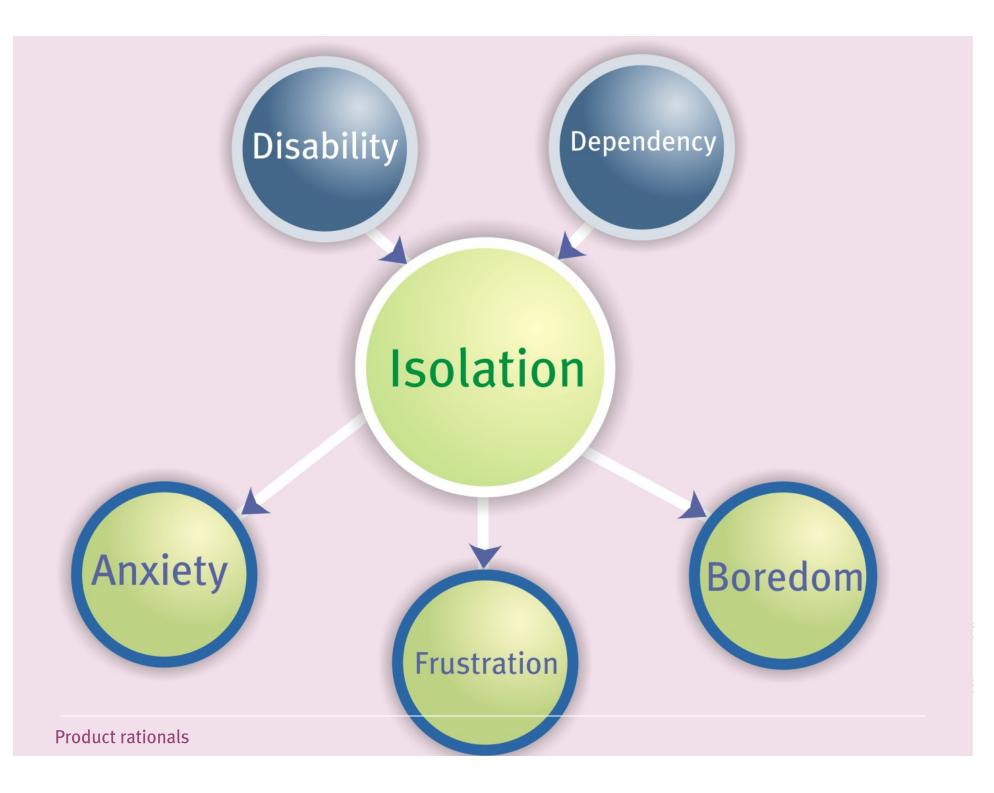
No treatment but they can be taught to manage with it Negligible because of disabilities

Emotional

It generates the feeling of dependency, disability which leads to isolation

Modes of communication

# Towards the product brief



Emotions are a state marked by prominent Internal patterns

#### not controllable

#### Involve complex patterns that undergo physiological changes

**Product rationals** 

# Emotion and the multitude of meanings emotions always in a constant state of flux

# sensations of patterns inside the mind

**Product rationals** 





# Emotions

# Not quantified

in a flux

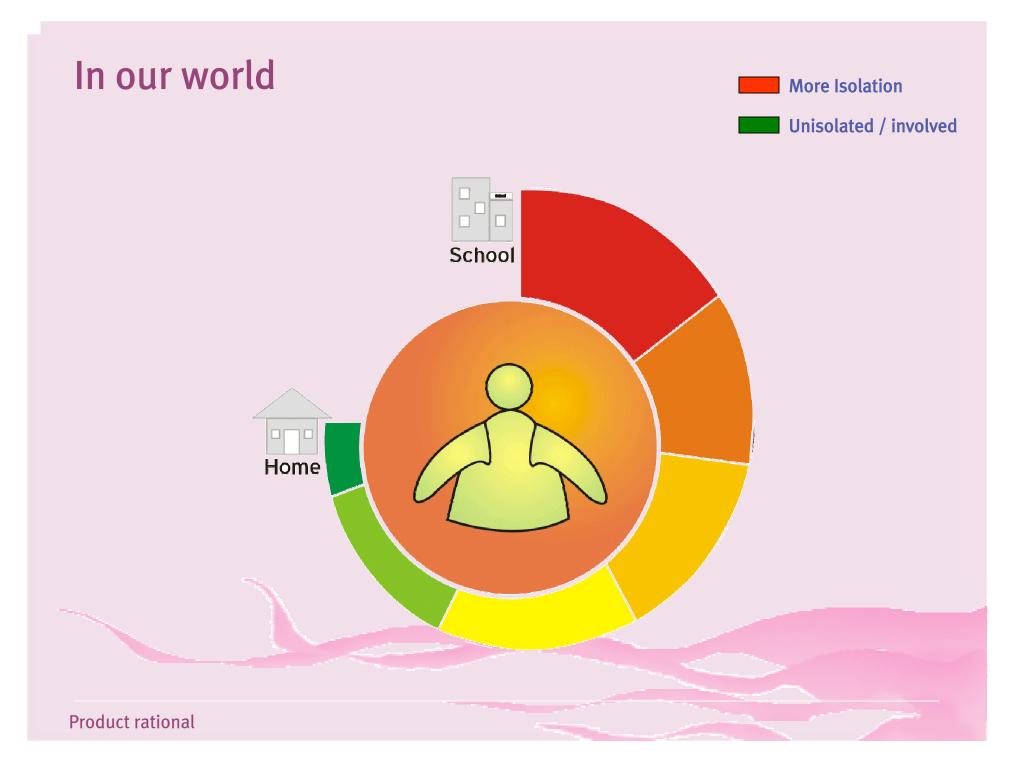
constantly changing

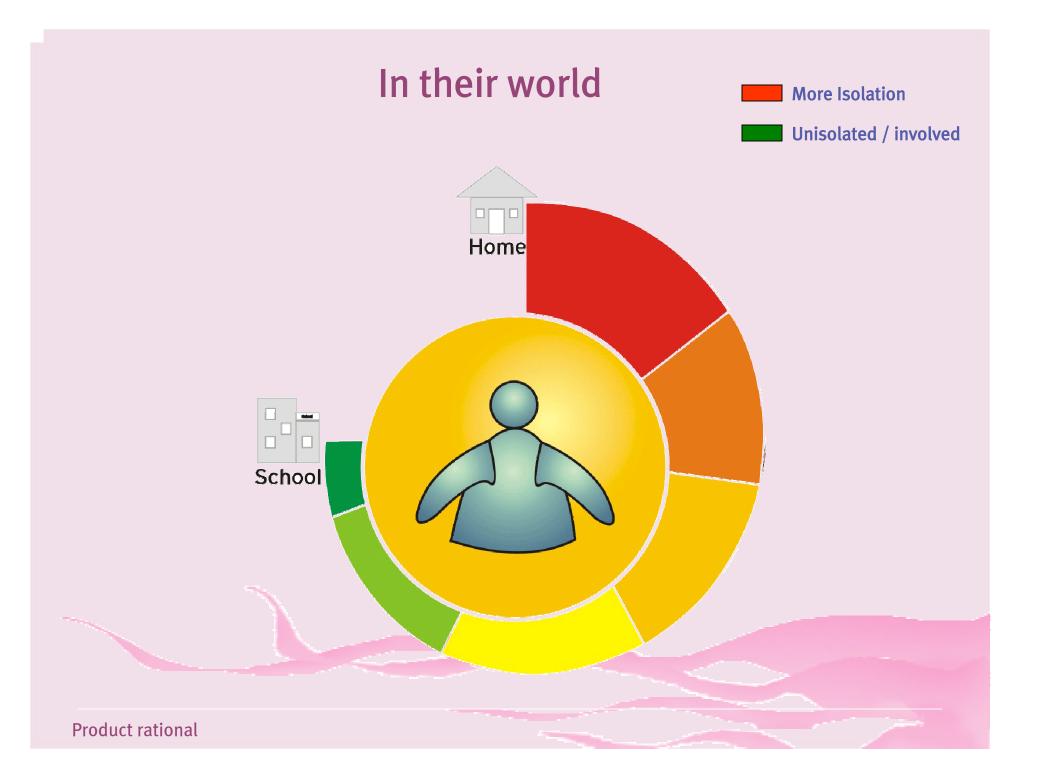
**Product rational** 

To develop an abstract vocabulary to **study emotions** on the basis of

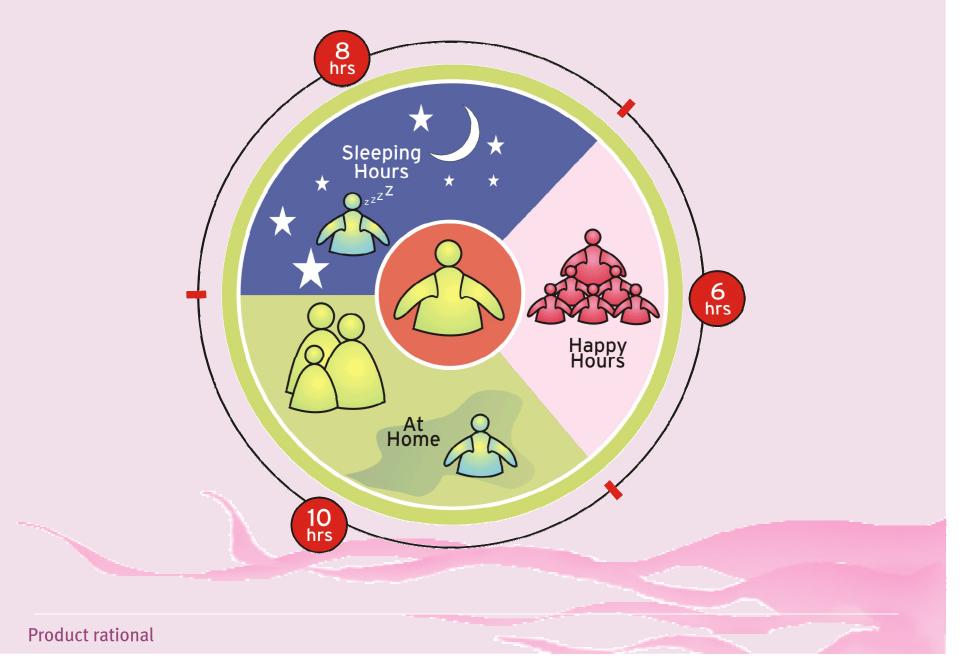
sensations visual field colour patterns haptic factors olfactory senses

**Product rational** 





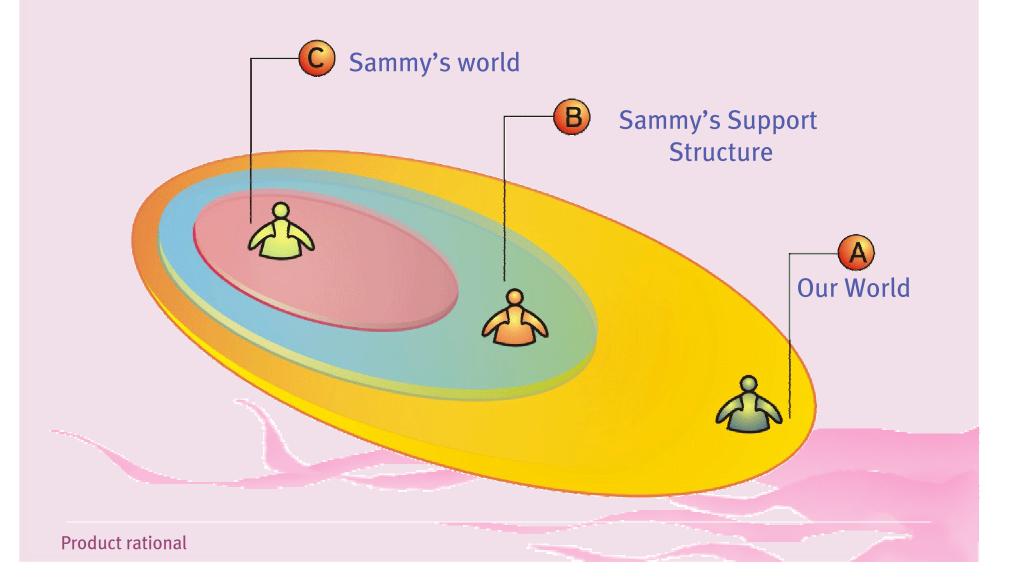
#### A Day in Sammy's Life



# how does the 8 hrs in Isolation compare with his lively 6 hrs at special school

**Product rational** 

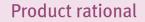
# Hypothetically resolving Interaction within the 3 Levels



### Inferences for conceptual solution

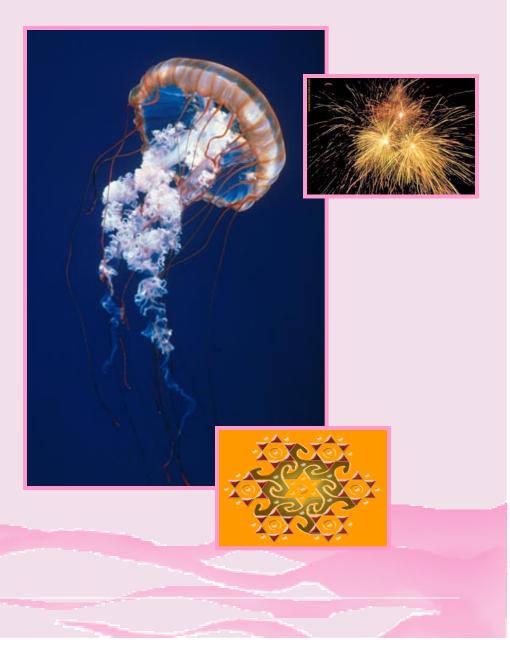
•Leverage of emotional imbalance in current scenario

- •Small small experiences of joy make them happy as a whole
- Redifining the concept of disability



### **Metaphors**

#### Star Jellyfish Indian Festivals Colours



Metaphors

# **Early Concepts**

#### Concepts















### Final concept selection

On the basis of the user study experiments with forms shapes and textures It was observed that :

The users preferred a mixture between squeezy cube (that was soft and full of feel)

The users preferred the device to have ample space for the user to interact The device The users preferred the device to be of medium size, not too small or big The users preferred intuitive interfaces.

The device should facilitate the user to develop and maintain friends(trust) The users preferred an abstract language for communication.

The final concept was developed based on the user feedback as well as the alternate concepts.

The characteristics of a jelly like object were taken to develop for the form of the final concept.

**Metaphors** 

