

# Environmental Stewardship, A Community Approach

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## Value Engineering Knowledge and Behaviour

### Design Team

Architects

Engineers

Facilitators

Planners

Specialists

Costing

### Client

Managers

Designers

Costing

Planners

### Occupant

Staff

Managers

Executive

### Others

Building  
operators

Cleaners

Maintenance

Services

## Value Engineering Leadership

	Concept	Design	Construction	Commissioning	Occupancy
Design Team	x	<b>X</b>	<b>X</b>	<b>X</b>	
Client	<b>X</b>	x	x	x	x
Occupants	x	X	x	X	<b>X</b>
Others		x	x	X	x

# Neuro Sustainability

## Distinctive human characteristics (physical, behavioural, cultural)

Bipedality  
Lack of body fur  
Large brain  
**Free thought, imagination, playfulness, adaptability, social evolution**  
**Speech**  
Whites of eyes  
**Hunting big game**

**Tools & weapons**  
**Clothing**  
**Weaving**  
**Dwellings**  
**Pottery**  
**Boats**  
**Herding**  
**Fire**  
**Writing**  
**Trade and gift-giving**

**Agriculture**  
**Civilisation**  
**Industrialisation/urbanisation**  
**Substance abuse**  
**Religion**  
**Burial of dead**  
Large penis  
Concealed ovulation & constant availability  
**Private copulation**

Large breasts  
**parental care by fathers**  
Small litters  
**Monogamy + EMS**  
Longevity  
Menopause  
Variation in skin colour etc between races  
Variability between individuals

# Neuro Sustainability



## **BEHAVIOUR**

Genetic

- Innate

Learned

- Social

Imposed

- Physical Environment

# Neuro Sustainability

## Behaviour Traits

### Genetic Examples Walking



### Language



### Learned Examples Religion



### Clothing



### Imposed Examples Driving



### HVAC Control





# The Neuros

**Neuroanatomy**

**Neurobiology**

**Neurochemistry**

**Neuroeconomics**

**Neuroergonomics**

**Neuroendocrinology**

**Neuroesthetics**

**Neuroethics**

**Neuroethology**

**Neurogenetics**

**Neurogenomics**

**Neuroheuristic**

**Neuroimaging**

**Neurolinguistics**

**Neuromarketing**

**Neuropharmacology**

**Neuro-phenomenology**

**Neurophilosophy**

**Neurophysiology**

**Neuroproteomics**

**Neuroprosthetics**

**Neuropsychiatry**

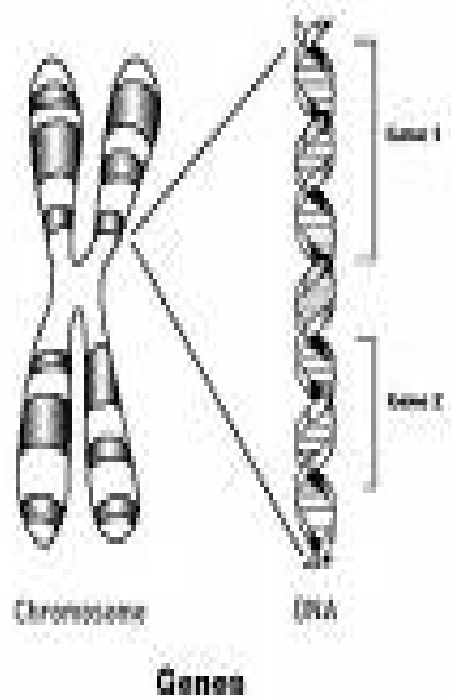
**Neuropsychology**

**Neuropsychopharmacology**

**Neurotheology**

# Sources of Behaviour

**50% Genetic**



**0 to 10% Upbringing**



**40 to 50% social  
and physical  
environment**



# Neuro Economics

**To Buy or Not to Buy, Is that the Question?**

**Can you predict if a person will buy something just by viewing and MRI?**

**Yes, you can.**



# Neuro Sustainability

## To Consume or Not Consume, That is the Question!

Is the consumption of an innate behaviour?

## Don't know



# Neuro Sustainability

## Hopeful Patterns of Behaviour

### Social Environment



### Physical Environment



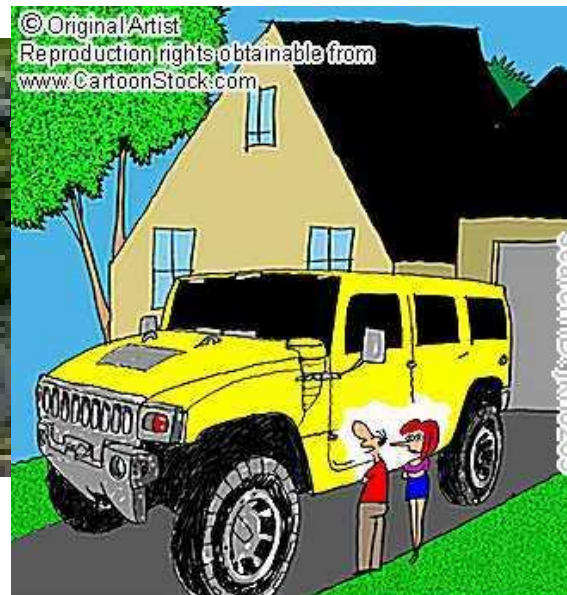
# Neuro Sustainability

## Disturbing Patterns of Behaviour

### Building



### Cars



*"It takes 5 gallons and \$127 to go to the end of the driveway, but it's worth it. I only wish it came in a larger model."*

### Gadgets



# Ethics

We make decisions every day, we probably consider ethics as part of our everyday value system, but how consciously do we apply ethical values???

	Urgent	Not Urgent
Important	<b>Necessity</b> Here we do what we genuinely must.	<b>Originality</b> Here we define our authenticity and frame the great contributions we are capable of.
Not Important	<b>Deception</b> Here we can let systems steal our chances to be authentic.	<b>Waste</b> Here we can squander our chances to be authentic.

What we ask you to do is incorporate ethics as a conscious element of the decisions you make, you will then more likely make sustainable decisions



## Qualitative Drivers



**Imagine YOURSELF making this presentation  
to colleagues sometime in the future**

**"We started with an existing building,  
constructed in another time."**

**"We worked with our employees,  
we thought about our environment,  
considered the taxpayer and  
remembered that we are not the  
last generation on this planet."**

## Qualitative Drivers



# New Community through Social & Physical Environments

## Why Plan?

Clear Vision	➡ stating and sustaining project objectives
Good Data	➡ detailed information: baseline data
Integrated Strategy	➡ balancing needs of people / place / process
Buy in	➡ achieving support from staff at all levels

## Why at a community level?

Getting Work Done	➡ effective operation
Occupants	➡ improved retention, high levels of satisfaction
Costs	➡ reduced operating and call centre costs
Environment	➡ enhanced biodiversity
GHG	➡ reduced emissions
Occupant Engagement	➡ ownership

# Value Engineering Innovation Factors

	Technical Info	Thinking Space	Communication	Responsibility	Buy In	
Individual - Expert	<b>X</b>	X	x	<b>X</b>	x	
Group - Expert	<b>X</b>	X	x	x	x	
Individual - Layperson	x	x	<b>X</b>	x	<b>X</b>	
Group - Expert & Layperson	x	<b>X</b>	<b>X</b>	<b>X</b>	X	

## Value Engineering Success Indicators

### Design Team

On time, on  
Budget

Client Satisfaction

Internal Pride

Awards

### Client

On, time on  
Budget

Occupant  
Satisfaction

Proud to work in  
space

Lower operational  
Costs

### Occupant

Proud to work in  
Space

Happy with design  
– build process

Healthy place to  
work

### Others

Easy to maintain  
and operate

Lower  
operational Cost

Proud to work in  
space

Healthy place to  
work



## What is a Green Stewardship?

**Green Stewardship can be defined as the integration of environmental principles into everyday activities.**

**“An people-based initiative to promote and facilitate environmentally responsible practices in the workplace.”**

# Green Stewardship Committee

- Governance
  - Sustainable Development Strategy
  - Green Stewardship Policies
- Action Plan,
  - Baseline
  - Targets
  - Measuring progress
  - Informal



The Knee-Jerk Reaction Committee

# Green Stewardship Committee

- Categories of activities
  - Water, waste, energy
  - Commuting
  - Travel
  - Building Maintenance
  - Environmental days
  - Outreach / education



## Green Stewardship Committee



**Is there a communications strategy with tenants regarding environmental initiatives and practices in their building and to respond to tenant concerns?**

Are there communications to tenants on the environmental measures that they can implement in the building to contribute to:

- Energy conservation?
- Waste reduction and recycling?
- Proper handling, storage and disposal of toxic products?
- Has a tenant satisfaction survey been completed in the last 3 years?

# Thoughts

Occupants are our most important asset

