Foundation Stone #2

Human Operating-System Literacy

By Dr. Robert Gilman
Living As A Whole Being

How Connected Are We?

Whole-System Economics

Tools For The Journey

Whole-System Governance

What Time Is It?

Street-Smarts For Change Agents

Foundation Stones
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How Connected Are We?
Whole-System Economics
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What Time Is It?
Foundation Stones
Outline of History

- Tribal
  - Farming: 11,000 BCE

- Empire
  - Cities: 3,500 BCE
  - Renaissance: 1500 CE

- Planetary
  - Now
Culture As Interface

The World

material culture

culture

shared culture

unique experiences

innate human nature

Another Person

the sun

the atmosphere

A Person

living things

the oceans

unique experiences

innate human nature
Culture As Interface

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Innate human nature

Another Person

Innate human nature

Living things

The oceans

The atmosphere

The sun
Culture As Interface

innate human nature → culture → wider world: human / nonhuman
Two Literacies

- innate human nature
- culture
- wider world: human / nonhuman

hOS literacy
Two Literacies

- hOS literacy
- systems literacy

- innate human nature
- culture
- wider world: human / nonhuman
Two Literacies

hOS literacy

innate human nature

culture

systems literacy

wider world: human / nonhuman
Human Operating System

Feature Phone
User Point-of-View

- built-in apps
- hardware

Feature Phone
Human Operating System

Developer Point-of-View

- built-in apps
- operating system
- hardware

Feature Phone
Human Operating System

- built-in apps
- operating system
- hardware

Feature Phone  Smart Phone
Human Operating System

Feature Phone

- built-in apps
- operating system
- hardware

Smart Phone

- built-in apps
- operating system
- hardware
Human Operating System

Feature Phone

- built-in apps
- operating system
- hardware

Smart Phone

- built-in apps
- user-added apps
- operating system
- hardware
Human Operating System

Feature Phone
- built-in apps
- operating system
- hardware

Smart Phone
- built-in apps
- user-added apps
- operating system
- hardware

30
Human Operating System

Feature Phone

- built-in apps
- operating system
- hardware

Smart Phone

- built-in apps
- user-added apps
- operating system
- hardware

30

Over a million
Human Operating System

instinctive behaviors
“operating system”
physical body

Many Animals
Human Operating System

Many Animals

instinctive behaviors
“operating system”
physical body

Humans

instinctive behaviors
learned behaviors and knowledge
“operating system” (hOS)
physical body
Human Operating System

Many Animals

- instinctive behaviors
- "operating system"
- physical body

Humans

- instinctive behaviors
- learned behaviors and knowledge
- "operating system" (hOS)
- physical body

Cultural "Apps"
Working Memory Experience

- I’ll speak some numbers
- You add them in your head
- Raise your hand to report how hard it was for you:
  - Easy – raise your hand all the way up
  - Challenging – part way up
  - Couldn’t do it – don’t raise your hand at all
Working Memory Experience

4±1 chunks at a time
Working Memory Experience

2 1 5
8 2 4
7 7 6
3 2 3

5 + 4 = 9
Working Memory Experience

2 1 5
8 2 4
7 7 6
3 2 3

9
Working Memory Experience

2 1 5
8 2 4
7 7 6
3 2 3

9 + 6 = 15
Working Memory Experience

2 1 5
8 2 4
7 7 6
3 2 3

15
Working Memory Experience

2 1 5
8 2 4
7 7 6
3 2 3

3 + 15 = 18