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601-2825 Clearbrook Rd., Abbotsford, BC, Canada V2T6S3

Waking Up the Human Hive Beyond the Smart and Resilient City: Recalibrating Care, Context and Capacity for a Planet of Integral Cities©

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Abstract

1. **Waking up the Human Hive** happens when we live the **Master Code: when we take care of our Selves, each Other, our Places and our Planet**. This connects our Caring Capacity to our Carrying Capacity and is the core of **wellbeing**.
2. The **metaphor of the Human Hive** offers us an **integrated whole picture of the city aligned with the Master Code (Self, Others, Places, Planet)**.
3. The Human Hive embraces the relationship between **3 types of cities** and how they are interrelated: **Smart Cities, Resilient Cities and Integral Cities**.
4. **5 Voices in the Human Hive contribute to city wellbeing**.
5. Each type of city is **powered by different energy sources and the GPS offers key indicator for recalibrating our cities with the Master Code**.
6. The **Integral City GPS** aligns City Types, City Voices, and City Energies with the Wellbeing indicator of the **Master Code**. It aligns the natural evolutionary potentials of the Smart City, the Resilient City and the Integral City. It gives us the feedback to recalibrate Care, Context and Capacity for a Planet of Integral Cities.

Introduction

How many people in this room keep or have kept bees (or seen beekeepers at work)? How many people in this room think of themselves as belonging to a Human Hive? Or have a role that contributes to the wellbeing and functioning of the Human Hive? If you look at the beehive and the behavior of bees, you might notice that the patterns of surviving, adapting and thriving in the bee hive are similar to systems of interaction in your work. These patterns not only contribute to Smart Cities – but are central to the functioning of the healthy Human Hive.

In this talk I introduce the Master Code. We live this **Master Code when we take care of our Selves, each Other, our Places and our Planet** and experience Happiness.

I use the **metaphor of the Human Hive and compare it to the beehive** to reveal the whole city in all its complexity.



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I explore the relationship between Smart Cities, Resilient Cities and Integral Cities and how all three types of cities contribute to a more integrated whole picture of the city.

I propose that the **Human Hive has 5 key roles that contribute to its wellbeing** and that the city has 3 sources of power – 2 external and 1 internal.

Finally, I offer an **Integral City GPS Compass** that locates and aligns the Master Code, city types, voices and energies. I plan to show a natural evolution in the potential of the Smart City, the Resilient City and the Integral City and how we can work together for the wellbeing of a Planet of Cities.

1. Live the Master Code for Wellbeing

Living the Master Code produces Wellbeing.

The outcome of **living the Master Code produces a critical indicator of success – namely Happiness.**

Happiness Studies have produced early evidence for the wellbeing of individuals, cities, cultures and nations. (GNH, Dalai Lama, Happy City book, Happiness Studies, etc.). This kind of happiness is not merely ego or self-centred, nor is it ethno or regional centred, nor even merely place or planet-centred. Instead this indicator **integrates all the scales of possible happiness that arise when our decision sets are aligned.** This happens when we live the **Master Code - choosing to take care of our selves, each other, our cities/places and the planet all at once – SIMULTANEOUSLY** – an opportunity we have never before experienced in history.

Happiness measures the right relationship between Caring Capacity and Carrying Capacity and thus supplies the double feedback loop for sustainability and resilience used by the bees.

2. Human Hive Integrates Whole Picture of the City

An **image of wholeness** like the bee hive helps us imagine the city as a whole – without getting lost in the enormous scale and complexity of the city.

Apis mellifera - the **honey bee has figured out a system that enables Smart behavior that produces energy for the functioning of the hive - and also Resilient inter-ecological action that enables renewable resources for the entire eco-region of the hive.**



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Bee hives use **4 internal roles** that enable sustainability. The Forager-Producers and Diversity Generators locate and gather pollen and nectar as raw materials for making honey. Resource Allocators and Inner Judges work like a hive intelligence to determine if the hive will meet its annual **production targets (about 20 kg of honey per year) and correct economic downturns.**

Bees have sophisticated ways of communicating – with their waggle dance to indicate flower sources. They also use performance rewards to encourage productive behavior and measure pheromones to learn when they should change behaviors. (FYI forager bees are cut off from their rewards when they don't perform, and this causes them to become depressed – a condition researchers can measure through pheromones. This drop in their "happiness indicator" causes a shift in their foraging behaviours to find new productive energy sources). So by these means of setting targets, making course corrections and rewarding productive behavior honey bees create a double sustainability loop that directly contributes to hive survival and eco-region resilience.

The bees utilize a **fifth external role** that contributes to resilience. It is called inter-group competition – and it comes from other bees competing for resources in the same territory, setting up the conditions for continuous improvement.

The intelligence of the beehive – evolved over 100 million years is constantly being developed. It is expected that **even the fateful and dangerous Colony Collapse Disorder will eventually be solved by the bees themselves who respond to both internal and external indicators in their habitat** – and have in the past already solved CCD multiple times.

3. 3 Types of Cities

Homo sapiens has built several types of cities – I will focus on **three types of cities: the Smart City driven by technology and industry; the Resilient city driven by ecological and eco-regional interdependencies; and the Integral City driven by the Master Code.**

Integral City GPS locates 3 Types of Cities

The **Integral City GPS tool** locates city types and roles for human emergence.

The Smart City Locator. ... uses Logic Models to track the logic of cities – based on Strategic Rational thinking. It depends on scientific and



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methodical Inquiry – Research and Development. It collects BIG DATA, maps patterns, and tracks vital signs.

The Resilient City Locator.... is like the **Motherboard** of our intelligence system based on the natural systems we have inherited from Mother Earth. The Resilient City Locator locates our Human Hives in the context of their Ecologies and ecoregions; their Emergent responsiveness to local conditions; and their embedded, recurrent dynamic Lifecycles. It relates the interdependent scales of our cities in terms of their inter-city and intra-city ecologies.

The Resilient City intelligences provide Contexts for the Strategies of the Smart City intelligences.

The Integral City Locator acts as the core intelligence chip that reflects the deepest intelligence of the Human Hive. It offers “**Integral Intel Inside**”. This chip embeds the **core intelligences that enable human systems to be the most advanced life systems on earth**. The Integral Integrator is built on the very **simple architecture of Inner and Outer, Individual and Collective Capacities**.

The true **distinctiveness of the Integral City locator** arises from the power of the **Inner Capacities - Individual and Collective Intelligences** - that drive city life.

These Inner Intelligences in particular **enable and constrain all the other intelligences because they define and delimit** how we interpret BIG DATA, respond to ecological life conditions and implement the strategies of Smart, Resilient and Integral Cities. At their best they **add meta-capabilities** to patterning, systemizing, evolving and caring

The Integral locator **points especially to the Caring Capacities** – the ones that emerge from our **attention to living the Master Code** and **expanding the circles of care in our lives**.

As we expand our capacity to **embrace greater circles of care – from self, to others, to place, to planet** – we **expand our capacity to develop habitats that carry and support the life conditions that we most need to be Smart, Resilient and Integral**.

4. Human Hives Use Five Voices to Contribute to Wellbeing in the City

The 4 Internal Voices of the City are the equivalents of the bee hive’s key roles. For ...



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Forager-Producers we have the **Citizens**
Diversity Generators we have the **Business-Innovators (Private Sector)**
Resource Allocators we have the **Civic Managers** (Government and Agency Sector)
Integrators we have **Civil Society** (our NFP/NGO sector)

The **fifth external voice is the meta-voice of other cities** in competition for eco-regional resources.

As I have said, I consider that my recognizing these roles in the human hive is a way of seeing the same fractal pattern that the bees have evolved. And not surprisingly others have noticed similar fractal patterns in organizations and nations. Dr. Ichak Adizes has noticed these patterns in family behaviors and applied these same roles to organizations as: Producers, Entrepreneurs, Administrators and Integrators – his famous PAEI pattern.

And I take the license of suggesting that the Pope himself has chosen “Integral Ecology” as the title of a key chapter in his encyclical “Laudato Si”, because he recognizes the ecological realities that permeate life at all human scales.

So let me just pause and ask, as you do your work in the city, would you name your role as Resource Allocator or Civic Manager? Diversity Generator or Business/Private Entrepreneur? Forager-Producer or Citizen? Or perhaps Integrator or Civil Society? Or maybe a combination of multiple roles?

5. Power Sources

All cities of any stripe draw on energy sources to power functioning.

Smart Cities and Resilient Cities source their energy externally.

To build Smart Cities we drew on fossil fuels.

To develop Resilient Cities we are drawing on renewable energy.

To energize Integral Cities we access the interior energy source of Evolutionary Intelligence.

The Evolutionary Power source lies at the centre of our GPS Compass.

Business Innovators tap its mysteries to leap ahead of what Citizens and Civic Managers sustain as the status quo. Civil Society Integrators observe its evolutionary patterns to discern alignment and rebalancing of systems (in other words – what Happiness Indicators reveal).



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The constancy and persistence of Evolution's driving force across 14bb years, now explored by both scientific communities and spiritual communities begs us to discover the **next evolutionary step of inter city and intra city collaboration.**

6. GPS Aligns City Types, Voices, Energies ad the Master Code for Wellbeing

Evolutionary intelligence as a Human Hive Mind emerges when **we convene the 4 voices within each city and multiple cities** (as in this conference).

(Indeed over this last summer a movement that intends to change 1000 Russian cities is illustrating this principle by defining a *Living Cities Charter*)

Working together as 4 Voices of many Cities, we have the intelligence to go beyond the Smart City, beyond the Resilient City **into the Knowing Field of the Integral City**

As Smart City experts – what roles can you play as Civic Managers and Business Innovators, as Citizens and Civil **Societies to build on the potential of Smart and Resilient Cities and working together co-create the Knowing Field of the Integral City?**

I believe, when we **bring together the 4 voices of many cities, we can co-create the next generation of IT – the Integral Technology** that will enable us to **design cities using the Master Code – the Evolutionary Intelligence of Care**. This is so needed by our Planet of Cities to create an Integral Ecology. By **aligning our Caring Capacities we will naturally expand the Carrying Capacity of our Smart and Resilient cities**. We may also take the critical next steps to avoid the human version of Colony Collapse Disorder that our dancing cousins the bees have warned us about. **Let us invent the dance that integrates the intelligences of the Smart Resilient and Integral Cities and wake up the Human Hive to its full potential!**

*Out beyond the Smart City
Out beyond the Resilient City
Lives the Integral City
...there is a Field
(we call it the Knowing Field)
I will meet you there.*

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