

Intentional Economy

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Abstract

The Intentional Economy is defined as an alternative lifestyle based economy that is essentially circular axiomatically. It has a coherence defined by sustainability, conservation of natural genome, spirituality and a common philosophy. This paper is on the definition and the status of the Intentional Economy, and a proof that Intentional Living is the way to World Peace.

We define a Lean inspired system called Lean A.I derived from the Referendum formulation of e Governance based on the design of the Skynet, an A.I and data mining based network and the Lean inspire 'Vahi ka Vahi'(VKV) model, that calls for open and pro global designs, and local manufacturing by 3D printing that is sustainable. As an example of the VKV model, we consider the case study of printing 3D printers using 3D printers or the Y lambda operator metaphor.

Keywords: Intention Economy, Intentional Economy, Additive Printing, Cloud Computing, Robotics, RPA, DPA, Flex-Rules, Lean Management , Lean Manufacturing, Vahi Ka Vahi,

Introduction.

The intentional economy is touted as the next big leap in technological progress, moving from the realm of mass consumptionism of inexpensive technology to a less consumptive pattern of customized and specialized designs, based on data driven markets and active innovation. Intent is the drive to innovation and customization in reducing pain and increasing value. This naturally has an enhanced effect on

the economy, adding a parallel circle of intentionality.

Intentional Living

Intentional living is any lifestyle based on an individual or group's conscious attempts to live according to their values and beliefs.(Contributors to Wikimedia projects 2006)

These can include lifestyles based on religious or ethical values, as well as coaching, personal transformation, and leadership training.

Intentional living requires one to be aware of one's fundamental beliefs and to be willing to make an effort to have their behavior reflect these beliefs in a form of integrity in relation to his or her conscience and environment.

In some cases, such changes are drastic enough that like-minded individuals group together in intentional communities.

Attitudes and decisions do not have to be determined by our past but can be chosen.

We can determine its direction and see if we want the same or not.

Some examples of intentional living include cohousing, ethical living, frugal living, moral community, simple living, sustainable living as well as many religious lifestyles.

Intentional communities, such as the Simple Way, the Bruderhof communities, the Community of St Anselm are intentional communities based on Christian values and beliefs.

While not necessarily representing distinct or actual lifestyles, many themes and areas of human interest, activity, and study exist that contribute to intentional living.

Free your home and Living with Less: An Unexpected Key to Happiness.

Ananda's Communities

From his youth, Ananda's founder, Swami Kriyananda had dreamed of creating small communities based on cooperation and high ideals.(Cosley n.d.)

When he became Yogananda's disciple in 1948, he discovered that Yogananda, too, was committed to the concept of "World Brotherhood Colonies."

Yogananda taught that what the world needs is a blend of the best qualities of the East and West: the spiritual insight of the East and the practical efficiency of the West.

One without the other leads to a society barren of human fulfillment, but a balance of the two can bring peace, harmony, prosperity, and happiness.

Yogananda often predicted that world brotherhood colonies, based on the twin principles of "Plain living and high thinking," would be the social pattern for the future.

Kriyananda vowed to do his utmost to make this dream a reality.

Below is a list of all the current Ananda communities.

Ananda also has teaching centers, retreats, and meditation groups.

Bruderhof Communities

The communities are best known by the name "Bruderhof" or sometimes "Bruderhof Communities", though "Bruderhof" is the name used on their website. (Contributors to Wikimedia projects 2003)

In 1954, the Bruderhof started a settlement known as the Woodcrest Bruderhof in the United States near Rifton in upstate New York, in response to a dramatic increase in the number of American guests.

As of September 2017, there are a total of 13 Bruderhof communities in the United States.

As of September 2017, there are three Bruderhof Communities in the United Kingdom and two in Germany.

Numerous guests visit the Bruderhof and all communities are open to guests.

The Bruderhof was an early adopter of the internet, registering the domainbruderhof.com in 1996 and using it to publish information about the Bruderhof and to publish e-books.

The Bruderhof run a variety of businesses that provide income to run their communities and provide common work for the members who almost all work onsite.

The Bruderhof is actively involved in the neighborhoods that surround its communities and in the world at large.

The Bruderhof Communities and the traditional Hutterites were in fellowship between 1930 and 1955 and between 1974 and 1990.

According to Rod Janzen, there are differences between the traditional Hutterites and the Bruderhof Communities on many fields.

Kibbutzu, An Example of an Intentional Economy (Contributors to Wikimedia projects 2002)

The attempt to place such a regular pattern required creativity in the adoption of kibbutz practices to its growth and changing kibbutz system and encompassing society, but kibbutz leadership suppressed innovators and critical thinkers, causing either failures to deal with changes or adoption of capitalist solutions that negated kibbutz basic principles.

The globalization processes and the kibbutz failure to block them exposed the kibbutz society to a different type of culture.

After kibbutz members were allowed to have television sets in their own homes, the kibbutz members were exposed to "The good life" in which people were compensated for their work and could buy themselves different luxurious items.

Kibbutz memoirs from the Pioneer era report that kibbutz meetings varied from heated arguments to free-flowing philosophical discussions, whereas memoirs and accounts from kibbutz observers from the 1950s and 1960s report that kibbutz meetings were businesslike but poorly attended.

The Kibbutz Movement, which constitutes an umbrella organization of two separate movements and ideologies: the United Kibbutz Movement, founded in 1979 as a merger of two older movements: the United Kibbutz and Union of Kvutzot and Kibbutzim, and Kibbutz Artzi Hashomer Hatzair.

The first classification was named 'communal kibbutz', identical to the traditional definition of a kibbutz.

Numerous kibbutzim have moved away from farming and developed parts of their property for commercial and industrial purposes, building shopping malls and factories on kibbutz land that serve and employ non kibbutz members while the kibbutz retains a profit from land rentals or sales.

Intentional Living is a way to World Peace.

While, mainstream development in it's linear model is described as analogous to being a cancerous growth, it is destined to be the target of conflict, war, destruction and

death. Targets of war are always, one of mass production, in the main stream and never on intentional communities.

While the mainstream economy mushrooms and self destructs, the intentional economy prospers in a sustainable CE. World Peace can thus be achieved by the renunciation of the mainstream living and the adoption of the Intentional , alternative lifestyle,(Schumacher 2010) mostly pacifist, where the 'might is right' principle or power centric thinking is discouraged. Many of the problems of modern society, like crime, rape, and poverty are obsolete in an intentional community as technological progress and social evolution is towards greener, less power hungry solutions, discouragement of 'control freak' behaviour,(Wing 2011; Miller and Topple 2019; Eris 2004) social sharing of food, shelter and clothing, the essential needs, a natural stellar like economy where work follows naturally from function , where each person naturally contributes, much like a schumacher or utopian economy. This is the design of many stellar civilizations in science fiction.

Consequently there is a higher happiness index(Shrotryia 2006; Zurick 2006; Schmidt 2017; Foley 2013) and the channeling of the ego towards spiritual or intellectual goals, leading to the non existence of problems like drug addiction, alcoholism, domestic violence or poverty, crime and violence.

What is a circular business model?

A **circular** economy approach ensures that materials are retained within productive use, in a high value state, for as long as possible. (“Website” n.d.)It focuses on reshaping **business** and economic systems so that waste is 'designed out' of how we live.

Circular economy business models can: Offer new commercial opportunities.

What is Cradle to Cradle?

Cradle-to-cradle design (also referred to as **Cradle to Cradle**, C2C, **cradle 2 cradle**, or regenerative design) is a biomimetic approach to the design of products and systems that models human industry on nature's processes viewing materials as nutrients circulating in healthy, safe metabolisms.

Intentional living is a circular economy.

Intentional living is minimalist, mostly eco-friendly, sustainable and green. Even in communities with a spiritual coherence, the emphasis is usually on minimalist living, though communities have been known to contribute to the mainstream, creating both a Symbiosis Intentional Economy as well as a parallel Economy that is Circular.

3D printing and its role in the Intentional Economy.

The current linear "Take-make-dispose" economic model is reaching supply and demand limitations.

A circular mindset allows companies to move beyond mitigating these risks to capture the USD\$ 4.5 trillion economic opportunity that the circular economy represents.

How 3D Printing Can Support The Circular Economy (“Website” n.d.)

A Compound Annual Growth Rate of 26% to \$5 billion dollars in 2015 demonstrates that 3D printing is a rapidly developing business.

The main markets responsible for the growth of 3D printing are the aerospace, automotive, industrial machinery, consumer electronics and healthcare.

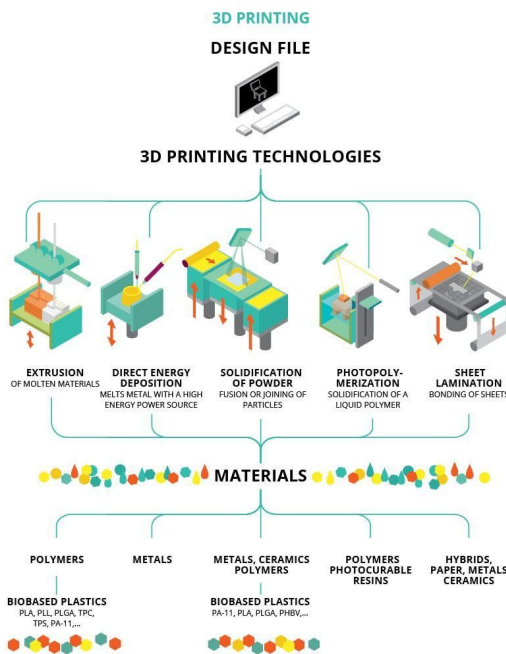
The use of metal in 3D printing is expected to nearly double over the coming 3 years.

In the EMF Report 'Growth within' 3D printing is seen as a part of one of the six levers to transform the built environment by building smart, modular and productive homes in livable urban systems.

The 'Exchange' lever of the ReSOLVE framework refers to replacing old materials or methods with advanced renewable materials and applying new technologies like 3D printing.

Less energy is needed, as the use of 3D printing will also save fossil fuel needed to ship current products and parts around the world.

3D Printing With Biomaterials – A Sustainable Energy Supply For Everyone



Additive manufacturing or 3D printing, manufacturing a product layer by layer, offers a large design freedom and faster product development cycles as well a slow production startup cost, on demand production and local production.

3D printing will create a revolution in manufacturing, a real paradigm change.

3D printing holds the promise to manufacture with less waste and energy.

A wealth of new and innovative products is emerging when we combine these two paradigm changes, 3D printing and biomaterials.

The combination of 3D printing with biomaterials holds the promise to realize a truly sustainable and circular economy.

The authors explore the promises of 3D printing with biomaterials towards a sustainable and circular economy.

3D printing a house offers much more design freedom, more functionalities and less building waste.

The 'Vahi Ka Vahi' , Lean inspired business model.

The Vahi Ka Vahi of VKV model is inspired by the work culture of the Indian Himalayas, where local production, not entailing the need for transport is practiced. This is in sync with a 3DP economy, where we have open technology, with a 3DP production. This is a CE.

Lean with its Pull System, lowering the 3 M's, tie in with the VKV model, which is on demand as well as just in time. Lean A.I , the automation of Lean is directly applicable to 3DP, where there are two parts to the Lean A.I (Bheemaiah, n.d.), Design, both Open and Pro and 3DP manufacturing.

We study the diffusion of open technology and the analytics of pro design consumption in a future paper.

C2C CE, and Taskoids with SaaS.

Google Actions are similar to AWS Lambdas and cloud functions, the resurgence of a FaaS framework.

We define a quantification of work automation a UNIX principle of decreasing manual effort and in the automation of repeated tasks with Taskoids™.

Every taskoid has carbon credits, one can trade with and these credits are extended in a circular definition, based on a C2C CE (“Designing for the Circular Economy: Cradle to Cradle® Design,” n.d.; Kitriniaris 2018; Kopnina 2019; Lacy and Rutqvist 2016; Luther and Duggan 2015; McDonough and Braungart 2010; Henninger et al. 2017) and the Happiness Index. Taskoids are thus intentional, intentionality is in the removal of drudgery, and in the sustainability, defined in a high C2C index, with a high carbon credit value.

Taskoids are a wedding of code generation and recycling of code. Every Taskoid is manually written, with a half life, to be replaced by upgradation, it is intent in the code generation to tailor each specific requirement. Trading is in carbon and taskoid credits through a future market. Automation as a service is a part of SaaS with AIaaS built into the system.(Bheemaiah, n.d.)

The Skynet, and 6G.

The Skynet is from the Terminator Franchise, a window to the world of A.I Singularity. The living ‘ForceField’ of the ‘Jedi Force’.

Being dual use, a more peaceful role may be it’s combined inception in 6G wireless and its role as a SaaS service. IOT and 6G web, scale naturally and proliferate faster than armament does, maybe a dual role of reversibility and non-lethality is in order, for a better intentional economy and intent based design, more like a C2C CE.

The Y combinator, designing a 3D printer from a 3DP.

As an example of CE, we consider the 3DP of a 3D printer from biomaterials.

A 3D printer consists of base housing and support structures, motors, controllers and interface circuitry, this would need 3DP technology to print printed circuit boards, electronic components, microprocessors, motors and base and support polymers.

This can be done with Graphene, PLA and non-linear polymers in 3DP(Hopkinson, Hague, and Dickens 2006; Tasis 2013; Morgan and Wilkie 2007; Botta et al. 2017; Singh and Pal 2016).

We propose the creation of an online service to print PCB’s in graphene and PLA.

The setting up of a 10nm nanofabrication 3DP, in Graphene and PLA to print microprocessors, both classical and quantum(Ghose 2015; Rotman 2014), and for the printing of all other electronic components,excluding rare earth magnets needed for motors, motors can thus be printed using graphene and PLA.

3DP can thus be used to print in successive layers, the additive printing, components, that can be integrated to create a 3D printer. While the Y combinator is not truly achieved till we can print manifolds of

designs layer by layer at once, it is progress towards star trek like replicator technology, by 3DP.

While 3D printer designs are open technology (Kelly 2013; Kelly and Hood-Daniel 2011), and kits are available for assembling them.

They serve as an example of the VKV model, in that they are spawning newer, local production sites, a diffusion of the VKV, 3DP model. In a future paper we analyze the diffusion model for the VKV paradigm.

Conclusions.

We have proven the existence of an Intentional Economy as both Symbiotic and parallel to the mainstream economy. We have introduced the VKV model, inspired by Lean, proven that 3DP is sustainable and a CE. and we have also proven the asymptote of technology to the Y combinator, the predecessor to dilithium based replication technology. Future work would entail a 3DP economy that proves M-Theory, in Holographic replication and even maybe teleportation?

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