

# The Ark Earth Foundation

*Revised for Correlation by Robert L. Short*

## Narrative

### *Are we ready?*

The most pressing question upon proponents of change is quickly becoming, “*are we ready?*” This non-paper is to feedback the correlation of web (3) based civilization and knowledge tooling capabilities with other models that target similar outcomes around the world. First, please note the timeline starts at 1983 which *Flashes Forward* through research and time outs landing into the early months of 2010. Also note, the middle point timeline marker that we may now observe as the enabling of a *Paradigm*. The *Paradigm Enabling* is to bring forward, by summation, the three significant milestones completed with coming milestones that are based upon outcomes produced by use of micro-level data when correlated at the macro-level scale. The coming milestones is to *datafication* of various aspects of civilization against the background of Big Data concepts. The outcome serves as a means to help communities become more resilient and therefore, more sustainable. (Big Data Defined, n.d.)

## Ark Earth Foundation

The AEF is on its paper journey to establish certain provisions common to sovereign governments. The mission of the AEF is to operate on a *paradigm shift* that targets a "Type 1 Civilization" progression referred to as the *T1C Vision*. The *T1C Vision* is a civilization progression socially and economical stimulated by the rapid deployment of sustainable innovations and large capital investment. The AEF promotes web (3) features such as civilization and knowledge tooling. Such tooling capacity adds to a more positive outcome for the engineering of a sustainable civilization progression to emerge as a product and service of the Knowledge Economy Trade. The AEF promotes outcomes that include human-capital to be considered as a non-gender quantitative instrument and as such, a means to enable further prosperity at community level. The AEF promotes conditions conducive to open-data policy which help bring together large trading blocks that give way to the emergence of a global knowledge economy trade and fast-track-trade.

## Outcome Orientation

The proposition for a demonstration is to provide a means that only a multi-national and multi-stakeholder declaration can fulfill. The outcome of the data revolution totally depends upon a coupling of the predictive capabilities of Big Data concepts and community. The aligning of three significant outcomes have brought together an opportunity to correlate various contextual enablers within a multi-national and multi-stakeholder declaration by which facilitation mechanisms allow demonstration outcomes through anticipated high level results. This is to say that the struggle to becoming a more sustainable world is not over but most certainly, has begun. Together, the enablers and facilitation mechanisms establish a process by which the

35 demonstration of the subsequent changes that follow when communities engage its sustainable  
36 outcomes “by a mathematical mean” and through Big Data concepts.

### 37 Outcome Enablers

38 The new global *paradigm* is rooted in by the World Summit on the Information Society 11 action  
39 lines and grounded upon the United Nations 17 Sustainable Development Goals. The *Paradigm*  
40 *shift's* resilience is through establishing non-paradoxical growth potential when top down  
41 resources meet with bottom up grassroots initiatives.

### 42 Outcome Mechanisms

43 Among the ICT innovations being presented for progression through the Cloud Architecture is a  
44 form of Applied AI referred to as Axiological Artificial Intelligence. At the center of this initiative  
45 presents an innovation that enables Big Data concepts to correlate predictive outcome oriented  
46 scenarios as another component of utilizing web based technologies and as a means for  
47 civilization and knowledge tooling. The outcome provides a platform by which a new global  
48 *paradigm shift* may be assessed through the contribution to peace and prosperity and ultimately,  
49 the eradication of extreme poverty.

### 50 Outcome Outreach

51 A project of interest is the Appalachian Community Capital that is a new central bank for  
52 development lenders enabled to increase capital availability for businesses which connects 13-  
53 states and the area is referred to as the Appalachian Region. Its regional equity is mechanized  
54 by Bank of America, Deutsche Bank, Calvert Foundation, and the Ford Foundation. High level  
55 efforts have improved upon enabling links between community sustainable innovation projects  
56 and large capital investment.

### 57 Shapers of the Big Data Paradigm

58 The suggestion to best understand the shaping of a *paradigm* is to explore its dynamics. In 1962,  
59 Thomas Kuhn coined the concept of “paradigm shift” in his book titled, The Structure of Scientific  
60 Revolution (p10). The way Thomas Kuhn puts it, scientific advancements are not evolutionary. To  
61 continue, Kuhn insights suggest that the best advancements in education alone are not enough  
62 to reach *paradigm* potential. On the other hand, Thomas Kuhn does point out that a revolution  
63 occurs when “one conceptual world view is replaced by another”. One key point of interest is that  
64 Thomas Kuhn suggest a *paradigm shift* is not incidental and that desired outcomes must be  
65 subsequently driven by agents of change.

### 66 Agents of Change

67 Big Data concepts do shed new light on Thomas Kuhn’s insightful analysis. This new light suggests  
68 to implicate that Big Data could be the turning point. The way Thomas Kuhn presents  
69 observations, the absence of action does not extinguish the synergy harnessed within a paradigm

70 but rather self-evokes the agents of change to accelerate in a continuation of conditions until the  
71 outcome becomes a limited or distorted worldview. Taking Thomas Kuhn's insights a step further  
72 could cause focus to better consider systems must be non-paradoxical in order for Big Data  
73 concepts to improve upon the worldview - that is, to become realized at the community level.

#### 74 [Regiments to Change](#)

75 The causality that demands attention to Thomas Kuhn can be found to evolve through the  
76 predictive capabilities of correlating outcomes using Big Data rather than causation. Further  
77 review of the causality propositions researchers and enthusiasts alike to reconsider the chicken  
78 and egg syndrome relative to the paradigm, a.k.a. phenomenology. The *paradigm awakening*  
79 follows the conundrum that each person builds upon the community that seeks to rationalize  
80 which came first; has the computer created the predictive outcomes derived from Big Data or  
81 rather has the computer revealed the potential that such a *paradigm* is truly hidden within a  
82 phenomenology that has been with mankind since the awareness of self and the need for  
83 community.

#### 84 [Recipients of Change](#)

85 The simplest of appraisal affirms that Big Data concepts are relevant to Kuhn's suggestive insights.  
86 Such insights could also be made relative through writings of many prominent historians,  
87 theologians and thinkers who in general purport that individuals, as well as entire civilizations,  
88 are continuously engaged through the highest levels of the collective subconscious mind. Thomas  
89 Kuhn steps a common worldview forward that dares to suggest the ideals of a *paradigm shift* is  
90 truly a transformation and its expansion is to co-create its own experience.

#### 91 [Scenario Planning Paradigm Outcomes](#)

92 The *paradigm shift* as an outcome is summed up through a worldview that is supported by the  
93 use of sustainable innovations that shape and mold a better world. The *paradigm shift*, as a  
94 mechanism, is made up of three initial Scenario Planning schemes that come together and engage  
95 the dynamics that make up a *paradigm shift*. The *Paradigm Enabling* discusses top down  
96 initiatives that favor a positive improvement with outcome oriented potential is addressed by the  
97 dynamics of the following:

- 98     ▪ Global Chapters of the Dr. Robert S. Hartman Institute of Formal and Applied Axiology
- 99     ▪ World Bank ICT and OGP initiatives
- 100    ▪ United Nations World Summit on the Information Society evolving of the 17-SDGs

#### 101 [The Dr. Robert S. Hartman Institute of Formal and Applied Axiology](#)

102 October of 2006 marks the timeline for the first of three presentations at the Dr. Robert S.  
103 Hartman Institute of Formal and Applied Axiology annual conferences. The first presentation

104 introduced a new form of Applied AI and the role that Axiology will play in Axiological Artificial  
105 Intelligence. October of 2010 marks the timeline with the second presentation at the RSHI  
106 conference on the role of Axiology in the engineering of a civilization progression and the  
107 knowledge economy trade. October of 2014 marks the timeline of the third presentation at the  
108 RSHI conference on the globalization of scientific Axiology and its role in the new global deal.

#### 109 Outcome Certification

110 The spillover into ICT certification will enable a value based civilization progression to emerge  
111 using existing enablers and mechanisms with tools made available as part of a semantic  
112 intelligence web. Therefore, scientific Axiology is an enabler for the *paradigm shift* and will mark  
113 the turning point that guides humanity toward a more sustainable planet. Scientific Axiology  
114 provides three significant benefits to the engineering of a sustainable civilization progression:

- 115 • First benefit, an Axiology provides Algorithmists and software developers with a dialectic  
116 instrument as a means to rapidly achieve machine reasoning capabilities required to help  
117 enable a Big Data *paradigm shift*.
- 118 • Second benefit, an Axiology provides Algorithmists with tools that enable and facilitate  
119 the predictive capabilities of Big Data to SP capacity building.
- 120 • Third benefit, Axiology provides Algorithmists an extended reach into outcomes that  
121 project management may strategically correlate SP and establish a mean value for  
122 measuring before and after scenarios through more common algorithms such as  
123 Statistical Process Control. (Wikipedia SPC, n.d.)

#### 124 Value Volubility

125 Scientific Axiology adds the ability to value and measure knowledge absorptivity capacity, building  
126 decision making capacity and predictive and subjective assessments for the quantitative analysis  
127 for human-capital. The paradigm shift follows scientific Axiology and semantic intelligence to  
128 quantify value-volubility as a means to revisit the original social contract with governance that  
129 define, “what is public good?” v “what is public interests?” Whereas, Value-Volubility suggests to  
130 measure the quality of the flow of words through the extraction of meaningful knowledge that  
131 supports:

- 132 • knowledge of;
- 133 • knowledge about;
- 134 • knowledge how.

#### 135 Public Good

136 The role of Axiology lays the scientific foundation by which the value of *public good* may be  
137 extracted from the flow of social media content. October of 2014 marks the timeline when the

138 RSHI formalized a research team which is made up of chapter members from the United States,  
139 Mexico and Europe. As a stakeholder in the outcome, the RSHI research criteria is prioritized in  
140 the formalization of Axiology as the criteria for setting industry standards in education as well as  
141 governance through the dynamics of social media. In addition, a certification process will further  
142 enable a web 3 progression (micro-level) presence against a Big Data background (macro-level)  
143 in order to mechanize a *Paradigm Shift* of a positive worldview at a community level (a.k.a., a  
144 reality made available).

#### 145 [World Bank ICT Panel Recommendations](#)

146 The milestone event occurred on February 27<sup>th</sup> of 2013 which was the World Bank ICT Panel  
147 discussion titled, “Co-creating for the future.” The panel members are among the leading ICT  
148 experts from government, business and academia. The expert panel audience includes the  
149 members of the Open Government Partnership and an attending guest representative of Kenya.

150 The two day WB ICT Days session contained three (3) suggestions made to the OGP that are also  
151 the essentials for a Web 3 Progression. The expert panel agreed that change would be a transition  
152 most likely to occur through the expansion of the ICT sector. A member of the expert panel  
153 followed with a recommendation that value training be included as part of ICT certifications. In  
154 addition, another member of the expert panel suggested the use micro-tasking frameworks as a  
155 means to achieve targeted goals. The ICT panel recommendations enable a web 3 progression to  
156 mechanize a *paradigm shift* through:

- 157 • value education as part of ICT certification,
- 158 • micro-tasking frameworks, and
- 159 • knowledge centers.

#### 160 [United Nations World Summit on the Information Society](#)

161 December of 2011 marks the timeline when the project first emerged for globalization through the WSIS  
162 and the International Telecommunications Union competition submission. July of 2015 marks the timeline  
163 when the first of three AEF submissions requesting for enablers to be considered within the WSIS final  
164 outcome document. The second WSIS submission marks the timeline with additional feedback essential  
165 for a web based civilization progression. December of 2015 marks the timeline with the third WSIS  
166 submission by which included requests for syntactical enablers allowing for the exploration of:

- 167 ▪ Financial instruments for human-capital and institutions for settlements.
- 168 ▪ Fast track trade provisioning for establishing a knowledge economy.

169 July 2 and December 15 of 2015, Joan Minor of Appalachian Resources, Inc., attended both WSIS forum  
170 meetings at the United Nations Building in New York.

## 171 The AEF e-Governance Pilot Project

172 The Ark Earth Foundation was founded by Robert L. Short to serve as a platform conducive to  
173 model, resource and deploy an e-Governance system using Semantic Intelligent Web  
174 technologies and Big Data concepts. The Ark Earth seeks to pilot e-Governance modeling of  
175 civilization and knowledge-based structures and gather data for large scale Semantic Intelligent  
176 Web deployments. The data gathered will better rationalize and maximize real social, economic  
177 and ecological impact analysis at micro-level. The pilot demonstration would include the use of  
178 civilization and knowledge tooling capabilities that enables resilience by the rapid deployment of  
179 change in a world driven by content providers and the Semantic Intelligent Web.

## 180 The Locomotive of a Knowledge Economy.

181 An Innovative System is a combination of technology, scientific Axiology, and organizational  
182 models brought together in a unified working method. The technology portion of the Innovative  
183 System is the catalyst for the progression to Web 3.0 and is referred to as an Intelligent Agent.

- 184 • The Intelligent Agent achieves machine reasoning and interoperability through three  
185 levels of knowledge representation (e.g., syntactical, structural, and semantic).
- 186 • The syntactical level includes Taxonomies, lists, glossaries, and various relational schemes.  
187 The structural level includes thesaurus, dictionaries, and models.
- 188 • The semantic level concludes reasoning interoperability by the triangulation of data using  
189 value theory mathematics of Axiological Psychology.

190 The Intelligent Agent differs from modern Object Oriented applications two part design of data  
191 and executable code by its three part design which is made up of MicroApp Frameworks,  
192 executable code, and data. The foremost significant advantage to the Intelligent Agent is that an  
193 unlimited number of applications may be quickly modeled and rapidly deployed. MicroApp  
194 Frameworks reduce the development costs to pennies on the hundreds-of-dollars for many  
195 applications and produced in a fraction of the time. Scientific Axiology portion of the Innovative  
196 System utilizes the Intelligent Agent's MicroApp Frameworks (Axiological Resource Description  
197 Frameworks "ARDF") to collaborate sustainable economic development models. Such dynamics  
198 provides the first rapid deployment of a drag-n-drop open government deployable anywhere in  
199 the world in moments where there are sufficient infrastructures.

## 200 Community Rollout Servers

201 It is the goal that rapid deployment of Community Rollout Servers will bring about collaboration  
202 between communities and Big Data analytics that enables the SDGs progression through  
203 improving upon conditions that favor Foreign Direct Investment (FDI). A Rollout Community  
204 Server is designed to provide a regiment of frameworks for governance, firms, research centers,

205 institutions, universities, think tanks, consultants, and other organizations to serve the people  
206 that make up the community. As a means to improve upon localizing FDI availability, the goal  
207 suggest a people centered governance, and all secondary offices, boards, committees and  
208 commissions adhere to rules of eligibility essential to qualify for investment guarantees. The data  
209 serves to establish a Community Information Trust for the citizens the system maintains. The  
210 Community Trust provides a micro-tasking framework to organize a civilization. One example  
211 would suggest a Community Public Records Commission. The public records are compliance  
212 maintained using rules and oversight links to Big Data across an open-data web at the macro level.  
213 Predictive analysis is distributed through the micro level of Cloud computing. The dynamics of Big  
214 Data and predictive capabilities make the rollout servers the best tools to enable disaster recovery  
215 plans for restoring governance, property rights, resources and thus civil order.

### 216 [Digital state of Cumberland Technology Pilot](#)

217 Mapping census tracts and census blocks at the ISP level is the new challenge for modeling a 21<sup>st</sup>  
218 century type governance and economy. The Digiland digital boundary is located in the southern-  
219 most area of Central Appalachia of the United States. The region is a digital imprint of a cluster of  
220 nine geographical areas (counties) that share certain economic and social similarities and are  
221 made up of three bordering states (i.e., Tennessee, Kentucky and Virginia). Whereas, through  
222 privacy policy and the potentials among Private Public Partnerships, communities may better  
223 bridge the gender divide and benefit from web connectivity in a more meaningful manner. The  
224 Digiland strategy is to acclimate the sustainability needs of the communities with the creation of  
225 Knowledge Societies to sustain it. This 21<sup>st</sup> century workforce drives education and the economy  
226 by the mechanizing and measuring of top-down enablers that meet bottom-up results that target  
227 a more sustainable world – at the community level.

228 The Digiland challenges become opportunities as issues of climate change are decoupled from  
229 ICT growth while sustainable innovations begin to reach the local communities. The Knowledge  
230 Society is to assist with top-down resources and through capacity building to absorb rapid  
231 deployment of sustainable innovations and large capital investment. Overall outcomes for  
232 Digiland targets local and global improvement in the region's Foreign Direct Investment potential  
233 by strengthening the opportunities for participants that increase individual and collective  
234 knowledge absorptive capacity.

### 235 [The Three New Standards Essential to Survival in the 21<sup>st</sup> Century](#)

236 The concretization of the criteria for an action plan is based upon capacity building to meet new  
237 standards which are subsequent to an open-data revolution. The project's research conveys a  
238 need for balance between the coexistence of good governance and the expansion of the  
239 knowledge economy trade. The technology pilot innovation is Resource Descriptive and  
240 Declarative Frameworks (RDF) to assure transparency and rapid dissemination and  
241 transportability. The RDFs will serve as micro-tasking frameworks which will be used to model the

242 action plan criteria formalizing open data with the seven (7) knowledge corridors (i.e.,  
243 governance, time bound procedures, education, healthcare, transportation, knowledge societies,  
244 and value centers). Utilizing micro-tasking frameworks allow testing of open-data initiatives prior  
245 to capacity building. The RDFs will be made available by title selection and animated using a  
246 semantic intelligence inference engine also referred to as a cognitive agent. The RDF driven  
247 cognitive agent lends to the flexibility and efficiency in the publication, distribution and reuse of  
248 open data. To demonstrate the subsequent advent of Semantic Intelligence will emerge three (3)  
249 new standards which will be essential to survival in the 21<sup>st</sup> century for all aspects of civilization  
250 and they are:

- 251 • Information dissemination without structured processes.
- 252 • Change and the capability to rapidly deploy change.
- 253 • Systems must be declarative so the non-programmer types may maintain them.

## 254 In summary

255 Presently, the ideals for a *paradigm shift* may be conveyed within the context of an agreed upon universal  
256 declaration.

## 257 Status

- 258 1. The Qaaba (SI) software development tools and components are being modernized to run on all  
259 current operating systems. The process is anticipated to be completed prior to April of 2016.
- 260 2. The Ark Earth Foundation is being readied to complete its paper journey.
- 261 3. Funding, we shall see!

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268 Ark Earth Foundation  
269 <http://www.arkearthfoundation.org/>  
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271 "Big Data, a revolution that will transform how we live, work and think" by Mayer-Shnonberger & Cukier  
272 [https://www.youtube.com/watch?v=bYS\\_4CWu3y8](https://www.youtube.com/watch?v=bYS_4CWu3y8)  
273  
274 World Summit on the Information Society outcome document:  
275 <https://publicadministration.un.org/wsis10/>  
  
276 Facilitation Mechanisms:  
277 <https://sustainabledevelopment.un.org/topics/technology/facilitationmechanism>  
  
278 World Summit on the Information Society project submission:  
279 <http://www.itu.int/net4/wsis/stocktakingp/en>  
280