

TRILO-G LINER NOTES

BOOK TWO - *TRILO-G: Foundations, Bridges, Action*

How to Make the World a Better Place One Alpha (1) Community at a Time

Introduction

If you are reading these LINER NOTES, you are probably concerned about contemporary civilization's **unsustainable (2)** trajectory.

Perhaps this DVD was recommended because you expressed alarm about energy and food security or terrorism. Your primary concern may be the current economy, job security, the high cost of alternative energy sources, the quality and cost of health care, the quality and cost of education, the quality and cost of food, crime rates, dysfunctional governance or the atomization of the social structure. On the other hand, what concerns you may be air/water/land pollution, the deterioration of the natural environment, species diversity or Global climate change.

TRILO-G addresses all those indicators of distress in contemporary society. As documented in SYNERGY's companion treatise *THE SHAPE OF THE FUTURE*, human settlement patterns have a controlling impact on citizen's economic, social and physical well-being. *TRILO-G: FOUNDATIONS, BRIDGES, ACTION* is about the causes and cures for dysfunctional human settlement patterns.

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1. Why are there highlighted words and phrases in this document? LINER NOTES will drop the highlights and the footnotes soon, however, in the first four pages of LINER NOTES the colors indicate that there is something important to understand about the Vocabulary used in *TRILO-G*. The green highlight means the word or phrase has a precise meaning and is defined in PART THIRTEEN - GLOSSARY. Most of the words and phrases that appear to have 'irregular' capitalization are defined in GLOSSARY.
 2. Yellow highlight means that attention needs to be paid to a word or phrase. Here the word is "unsustainable" and its polar opposite, "sustainable." These words and phrases are used in the generally accepted ('dictionary') meaning. Throughout *TRILO-G* the words "sustainable" and "unsustainable" are used as defined in *Our Common Future* (1987) by the World Commission on Environment and Development chaired by Gro Harlem Brundtland - "meets the needs of the present generation without compromising the ability of future generations to meet their own needs." If you have a question about the importance of achieving, or the process to achieve, a sustainable trajectory for civilization on the planet. See Chapter 23 of *The Shape of the Future*.

Let us be VERY clear:

Dysfunctional human settlement patterns are directly or indirectly responsible for almost all the reasons citizens are concerned about the future. (3)

Dysfunctional human settlement patterns are not just directly or indirectly responsible for most of the drivers of the unsustainable trajectory of society. These patterns are also responsible for the fact that citizens do not have the time or opportunity to understand the forces most severely impacting them and their **Household, Community and Region**.

If you are concerned with the overall condition of society or with any of the symptoms of an unsustainable trajectory, you are not alone and you have your hands on the right DVD. (4)

***TRILO-G: Foundations, Bridges, Action - How to Make the World A Better Place One Alpha Community At A Time* is about changing the current trajectory of civilization.**

The collective impact of the actions citizens believe to be in their best interest and the best interest of their **Household, Enterprises, Agencies and Institutions** frequently turn out to NOT be in their individual or collective best interest.

The **Mobility and Access Crisis**, the **Affordable and Accessible Housing Crisis** and the **Helter Skelter Crisis** impact every citizen, and they are not easy to understand or cure. If they were easy to understand they would not be crises. These three crises are complex for many reasons spelled out in **TRILO-G**. One of the main reasons is that some managers/employees of **Agencies, Enterprises and Institutions** believe it is in their own best interest to perpetuate the crises and to keep the majority of the citizens from understanding reality. These actions (and inactions) prevent citizens from becoming well informed and from taking actions that are in their individual and collective best interests.

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3. **If you do NOT believe dysfunctional human settlement patterns are directly or indirectly responsible for almost all of the reasons citizens are concerned about the future, you should first read Volume I of *The Shape of the Future*, especially PART TWO (Chapters 5 through 14) - “The Economic, Social and Physical Importance of the Human Settlement Pattern.”**

4. **Orange highlight indicates that this note is for those who are already sure that dysfunctional human settlement patterns are NOT now and need not in the future be of concern to citizens. Some are so beholden to Business-As-Usual that they are blind to the need to understand or change human settlement patterns. If you are just looking for a reason to discredit *TRILO-G* skip to note (7).**

A detailed exploration of many of the causes of settlement pattern dysfunction are found in **TRILO-G; THE ROOTS OF THE HELTER SKELTER CRISIS, THE ESTATES MATRIX** and **THE PROBLEM WITH CARS (5)** for example.

It should be clear from reading **LINER NOTES** to this point that one of the major hurdles to understanding the causes of dysfunctional human settlement patterns is confusing Vocabulary - the failure to use words and phrases with precise meanings. All of Chapter 26 - Gibberish, **PART EIGHT - FIRST STEPS ON THE ROAD TO SUSTAINABILITY** and the resources cited in Chapter 26 are devoted to the topic of Vocabulary. In this context, it is important to note that:

If you do not know what you are talking about, you do not know what you are talking about.

The Washington Post uses an advertising slogan: “If you don’t get it (“it” being *The Washington Post*), you don’t get it (“it” being an understanding of the world). In the context of understanding human settlement patterns, if one does NOT have a comprehensive Conceptual Framework and does NOT use a robust, explicit Vocabulary, there is no possibility of intelligently discussing human settlement patterns.

The enemy is us.

The difference between unenlightened self-interest and enlightened self-service is the difference between *Collapse (6)* and survival of contemporary, technology-supported and competition-driven society.

The unintended consequences of - and cumulative impact from - well-intended, but uninformed actions are driving the decline of democracies with market economies.

Creating functional human settlement patterns is a necessary, but not a sufficient, condition for evolving a sustainable trajectory for contemporary civilization.

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5. **Why are these titles are in ALL CAPS? Many titles in *TRILO-G* appear in ALL CAPITALS. Each of the Volumes of *TRILO-G* is presented in PARTS and all the PARTS are numbered sequentially from Volume I through Volume III. Each title of a PART is in ALL CAPS to indicate it can be found in a separate PDF file on the DVD.**
 6. ***Collapse* is Bold and italicized to indicate this term refers to an unsustainable trajectory of society as articulated by Jared Diamond in *Collapse: How Societies Choose to Fail or Succeed* which is quoted and discussed often in *TRILO-G*.**

LINER NOTES describes the information in *TRILO-G* and suggests how to most expeditiously take advantage of that understanding and that information. These LINER NOTES are drafted so you can move on to the main text at the point you believe you understand the content and intent of *TRILO-G*. This enables you to start reading and understanding the necessity for **Fundamental Transformation** of human settlement patterns, the **Fundamental Transformation** of governance structures and **Fundamental Transformation** of economic systems as quickly as possible - or you can give up right now and use the DVD as a mini frisbee to entertain your dog. (7)

The choice is yours - for now. Do not expect your grandchildren to respect your judgment if you choose to turn your back on reality. They will know why you should have been concerned about human settlement patterns. However, by then it may be too late to do anything about reversing the unsustainable trajectory of contemporary society.

7. In this event you are free to:

- Continue to curse the “others” (aka, the villains) who are causing the economic, social and physical problems facing society;
- Continue to contribute to the unsustainable trajectory of civilization; and
- Join the lemmings on the way to the cliff.

TRILO-G OVERVIEW

TRILO-G is the second of two books that address human settlement patterns. The first - *The Shape of the Future: (Vol I) The Critical, Overarching Impact of Human Settlement Pattern on Citizens' Economic, Social and Environmental Well-Being* and *(Vol II) Prospering in 21st Century New Urban Regions* was published in 2000. *The Shape of the Future* is available in electronic format at Amazon.com and other locations.

TRILO-G picks up where *The Shape of the Future* left off. Together they provide a unified field theory of human settlement patterns. **TRILO-G** is made up of three Volumes:

ALPHA VOLUME I - FOUNDATIONS: The Exploration of Five Fundamental Forces Controlling the Trajectory of Civilization, lays the ground work for understanding five key forces driving human settlement pattern dysfunction. **FOUNDATIONS** is presented in 20 Chapters organized in five PARTS.

SIGMA VOLUME II - BRIDGES: The Connection Between Theory and Action is presented in 17 Chapters organized in five PARTS. As the title implies, this Volume links the content of *The Shape of the Future* and **FOUNDATIONS** with contemporary issues and demonstrates the necessity of applying the tools laid out in VOLUME III - **ACTION**.

OMEGA VOLUME III - ACTION: Citizen Tools to Achieve a Sustainable Trajectory is presented in 14 Chapters organized in four PARTS. This Volume contains programs and provides resources citizens need to implement Fundamental Transformation of human settlement patterns, Fundamental Transformation of governance structures and Fundamental Transformation of economic systems.

A good way to understand the scope and intent of TRILO-G is to read the Forewords to each of the three Volumes. These Forewords are presented later in LINER NOTES.

The following is a quick overview of the three volumes of **TRILO-G**:

ALPHA (Volume I) **FOUNDATIONS** examines five broad topics:

- **ROOTS OF THE HELTER SKELTER CRISIS: Abandonment, Scatteration and the Myths That Drive Them**
- **THE ESTATES MATRIX: 700 Years of Profound Transformations and Estate Conversions**
- **THE PROBLEM WITH CARS: The Space Hogging Jalopy**

- **THE USE AND MANAGEMENT OF LAND: Happiness, Safety and Prosperity in the Countryside and in the Urbanside - Moving Beyond the Helter Skelter Crisis**
- **A NEW METRIC FOR CITIZEN WELL BEING: The End of Politics-As-Usual**

SIGMA (Volume II) *BRIDGES* is composed of 17 “unfinished” Chapters. Each of these Chapters links the insights, theses, axioms, principles, five Natural Laws and six Overarching Strategies presented in *The Shape of the Future* and the five forces explored in *FOUNDATIONS* with the citizen actions laid out in the third Volume of *TRILO-G*. The 17 Chapters of *BRIDGES* are presented in five PARTS:

- **SETTLEMENT PATTERN CRISIS: Three Drivers of Dysfunction**
- **CIVILIZATION’S TRAJECTORY: An Unsustainable Future**
- **FIRST STEPS ON THE ROAD TO SUSTAINABILITY: Vocabulary, Components and Boundaries**
- **THE ABSOLUTE NECESSITY FOR FUNDAMENTAL TRANSFORMATION: There is No Time But the Present**
- **THE PATH TO SUSTAINABILITY: Cairns on a Talus Slope**

OMEGA (Volume III) *ACTION: Citizen Tools to Achieve a Sustainable Trajectory* is about what you and other citizens can do to make the world a better place, one Alpha Community at a time and one New Urban Region at a time. This Volume contains four PARTS:

- **PROPERTY DYNAMICS: Real Property Value, a Path to Understanding Human Settlement Patterns**
- **HANDBOOK: Three Step Process to Create Balanced Communities and Sustainable New Urban Regions**
- **GLOSSARY: Deconstructing Human Settlement Pattern Babble**
- **RESOURCES: Graphic and Text Support For *TRILO-G***

PROPERTY DYNAMICS provides a crystal clear example of ‘what might have been’ had there been a critical mass of interest in the program BEFORE the shelter meltdown that started in the 2007. The tools outlined in *ACTION* - especially in *HANDBOOK* - require an understanding of the material in *The Shape of the Future* and the first two Volumes of *TRILO-G*. A critical issue is an understanding of the importance of a precise Vocabulary and of the organic structure of human settlement patterns as articulated in the New Urban Region Conceptual Framework.

HOW TO USE *TRILO-G*

TRILO-G is a book that, like *The Shape of the Future*, can be read from Alpha to Omega. On the other hand, with a topic as comprehensive as human settlement patterns, readers may want to explore one idea or one set of ideas. Both *TRILO-G* and *The Shape of the Future* 4th Printing, are presented in PDF files that can be searched by keywords and phrases.

As noted above, the use of capital letters is important in navigation of the content of *TRILO-G*. First, many titles are in all capitals such as those listed in the last section. Each of the three Volumes of *TRILO-G* are presented in PARTS and all the PARTS are numbered sequentially from Volume I through Volume III. Each of the titles of the PARTS is in ALL CAPS to indicate there is a separate PDF file for each PART on the DVD.

In addition, some words are Capitalized that might not seem to require Capitalization. That is not an editing oversight. As noted earlier, if you see a phrase that is not familiar or a word or phrase that is Capitalized check PART THIRTEEN - GLOSSARY for the specific meaning used throughout *TRILO-G*.

The following is a Table of Contents with titles and headings Capitalized to help you navigate *TRILO-G*. While *The Shape of the Future* is presented in a single PDF file, each PART of *TRILO-G* is a separate file. If you see an ALL CAPS reference, you can find it in this Table of Contents. We suggest you print out these Liner Notes and keep them handy when reading selections from *TRILO-G*.

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FOREWORDS TO THE THREE VOLUMES OF *TRILO-G*

If you would like more background and orientation before jumping into the three Volumes of *TRILO-G*, here is are the Forewords to each of the three Volumes:

ALPHA VOLUME I - FOUNDATIONS: The Exploration of Five Fundamental Forces Controlling the Trajectory of Civilization

FOREWORD (01 May 2009)

FOUNDATIONS examines overarching forces that prevent civilization from achieving a sustainable trajectory. These forces consume resources and deflect attention. Citizens and their Organizations are prevented from taking a broad range of actions that are imperative if what Jared Diamond terms “Collapse” is to be avoided.

The Shape of the Future documents the negative impact of dysfunctional human settlement patterns. PART Four of *The Shape of the Future* presents Six Overarching Strategies to create functional human settlement patterns. These strategies could place society on the path toward a sustainable trajectory. The chapters devoted to the Six Overarching Strategies explore:

- Rational, fair allocation of location variable costs (Chapter 24)
- Transition from Automobile exclusive to shared-vehicle and pedestrian- supported patterns and densities of land use (Chapter 25)
- The transfer of property rights and responsibilities (Chapter 26)
- Building the future by rebuilding the past (Chapter 27)
- Evolving Affordable and Accessible Housing (Chapter 28)
- Restructuring governance (Chapter 29)

The Shape of the Future documents that these overarching strategies can only be achieved within a context of evolving a sustainable trajectory of society (Chapter 23).

When considering ways to implement these overarching strategies, five forces that negatively impact citizen understanding of reality arise again and again. These forces must be understood and eliminated if citizens are to implement the six overarching strategies. The negative forces are:

- The root causes of dysfunctional settlement patterns
- The absence of information citizens need to make intelligent decisions in the market place and in the voting booth
- Citizens' dependence on Automobiles which results in the Mobility and Access Crisis and the Helter Skelter Crisis as well as compounding the Affordable and Accessible Housing Crisis
- Misuse and mismanagement of land, especially land outside the Clear Edge
- The lack of a realistic metric for measuring citizens' economic, social and physical well being in contemporary society

Since *The Shape of the Future* was published in 2000, these topics have been the focus of scores of columns by the author in *Bacon's Rebellion*. Several related columns became special reports and *Backgrounders*. When the time came to outline the content of *TRILO-G*, it was obvious that these topics required special attention. While these forces were addressed directly and/or indirectly in *The Shape of the Future*, new information is now available. There is much more that needs to be said about each of these forces. For example, there is a need for new Conceptual Frameworks beyond the New Urban Region Conceptual Framework that is defined in *The Shape of the Future*.

To meet this need, *FOUNDATIONS*, VOLUME I of *TRILO-G* is an examination of the five forces deflecting the trajectory of civilization onto an unsustainable path.

PART ONE - ROOTS OF THE HELTER SKELTER CRISIS: Abandonment, Scatteration and the Myths That Drive Them explores the root causes of dysfunctional settlement patterns. This PART examines Wild Abandonment inside the Clear Edge, Scatteration outside the Clear Edge and the Myths that drive Abandonment and Scatteration.

PART TWO - THE ESTATES MATRIX: 700 Years of Profound Transformation and Estate Conversions considers why citizens lack the information they need to make intelligent decisions in the marketplace and in the voting booth. This PART not only addresses the failure of MainStream Media to provide critical information but also lays out a new Conceptual Framework - THE ESTATES MATRIX - to help citizens understand the rise to power of contemporary Agencies, Enterprises, Institutions and the emergence of a new Fourth Estate that currently has no voice. This new Estate is made up of citizens, Households and disconnected Citizen Affinity Groups. These informal Organizations are what de Tocqueville identified 170 years ago as "public associations in civil life," that Kirkpatrick Sale counted on to create a "human scale" civilization and Paul Hawken is suggests is causing "blessed unrest."

PART THREE - THE PROBLEM WITH CARS: The Space Hogging Jalopy documents that citizen dependence on *Large, Private Vehicles* (aka, Automobiles) have caused the Mobility and Access Crisis and the Helter Skelter Crisis. In addition, Automobile dominance - the autocentric society - exacerbates the Affordable and Accessible Housing Crisis. PART THREE provides a summary of the anatomy of Automobile driven settlement pattern - and thus economic, social and physical - dysfunctions. It also examines contexts in which citizens can learn for themselves the negative impact of, and alternatives to, *Large, Private Vehicles*.

PART FOUR - THE USE AND MANAGEMENT OF LAND: Happiness, Safety and Prosperity in the Countryside and in the Urbanside - Moving Beyond the Helter Skelter Crisis is a comprehensive consideration of the misuse and mismanagement of land. This PART examines the causes of land misuse and mismanagement. It also provides the second new Conceptual Framework articulated in *FOUNDATIONS*. This Conceptual Framework establishes a way of considering the use and management of land at the continental scale.

PART FIVE - A NEW METRIC FOR CITIZEN WELL BEING: The End of Politics-As-Usual documents the need for citizens to embrace a way to move beyond Winner-Take-All economic competition and citizen Mass OverConsumption. Competition and consumer consumption have been thought to be the sine qua non of citizen prosperity, happiness and safety. Reliance on competition alone is not working. First World citizen's Mass OverConsumption is unsustainable in a finite world if democracy and market economies are to be preserved. Citizens must articulate a new way to measure economic, social and physical well being and to achieve a sustainable trajectory for civilization.

These five PARTs provide the *FOUNDATIONS* for *BRIDGES*, VOLUME II of *TRILO-G*.

SIGMA VOLUME II - BRIDGES: The Connection Between Theory and Action

FOREWORD (27 April 2009)

On the deck of a well tailored, urbane townhouse overlooking Lake Anne in Reston, Virginia, Adrienne Garreau opined:

“Joel says, you never complete a book, you just stop writing.”

That observation was especially apt for the first two books that Adrienne's husband, Joel Garreau, wrote - *Nine Nations of American* and *Edge City*. There was so much more to say, and

something new to impact the perspectives everyday. It was also true for *The Shape of the Future* which was being edited and revised at the time. See End Note One

The reality that writing a book on a dynamic topic is a never-ending process is also very much on target for *TRILO-G*. With a topic as complex and event driven as creating functional human settlement patterns, there are always points to clarify and material that just must be added. New ideas and perspectives surface from field observations, reports in the media, new books and resources, old books and resources revisited, meetings, input from colleagues and discussions at the farmer's market. *FOUNDATIONS* received a dozen last minute additions that just had to be plugged into the text.

BRIDGES, the second Volume of *TRILO-G*, gets the jump on the “a book is never complete” problem. There was, from the start, no intent to “finish,” “complete” or “get in the last word” on any of the topics covered by the 17 Chapters of *BRIDGES*. None of the Volumes of *TRILO-G* present “a”, much less “the”, final answer. Rather they present a summary of what appears to be a more rational and sustainable trajectory for actions impacting human settlement patterns. The ‘never finished’ perspective is, however, especially true for *BRIDGES*.

BRIDGES is an evolving reference Volume laid out in Five PARTS containing 17 topical Chapters. Each chapter provides an overview of a critical topic and provides links to resources that document current illustrations of how human settlement patterns - the patterns and densities of land use - impact and control the lives of citizens. The chapters demonstrate how settlement patterns reflect and determine the economic, social and physical forces that control the quality of citizen's lives. Some chapters are short and refer to recent work on a topic - for example, relevance to PART THREE - THE PROBLEM WITH CARS in Chapter 1. Other chapters provide a summary of key issues to be explored in future work - for example, Chapter 29. Still others attempt to tell a complete story that provides context for all of *TRILO-G* - Chapter 34.

As the title suggests, *BRIDGES* connects the insights, theses, axioms, principles, the Five Natural Laws and the Six Overarching Strategies laid out in *The Shape of the Future* - as well as perspectives on five major forces determining the trajectory of civilization explored in (ALPHA)

VOLUME I - FOUNDATIONS - with the tools presented in (OMEGA) *VOLUME II - ACTION* with which citizens can bring about Fundamental Transformation.

All chapters of *BRIDGES* provide a brief exposition of relevant insight brought into sharp focus by recent events. These resources demonstrate the need for comprehensive citizen education and a range of innovative programs to evolve functional human settlement patterns. *BRIDGES* also notes the evolution of perspectives found in *The Shape of the Future* that have evolved during the eight years since this book was published.

BRIDGES is an “unfinished symphony.” The author is clear on:

- How the US of A (and the First World) settlement patterns reached the current state. (Volume I of *The Shape of the Future*),
- The direction in which human settlement patterns must evolve. (Volume II of *The Shape of the Future*),
- The existence of Five overarching forces deflecting the trajectory of civilization outlined in *FOUNDATIONS*,
- The type of education processes (PROPERTY DYNAMICS - PART ELEVEN of *VOLUME III - ACTION*) and;
- The nature of the democratic processes citizens need to follow (HANDBOOK - PART TWELVE of *VOLUME III - ACTION*) in order to achieve functional and sustainable settlement patterns.

What we are not clear on is how to convince citizens to commit themselves to the education and strategic planning processes necessary to achieve Fundamental Transformation in settlement pattern, Fundamental Transformation in governance structure and Fundamental Transformation of the economic system.

Citizens need to take intelligent and enlightened actions in the voting booth and in the marketplace. The question is: How can citizens be motivated to take these actions?

If we were a younger person, we would work longer on **BRIDGES** before publishing **TRILO-G**. We are not that younger person and so will complete **TRILO-G** and continue to work on **BRIDGES** - thus the “unfinished symphony” analogy.

BRIDGES is the gateway to multi-media library of resources. It includes cross-references to *The Shape of the Future* and all three Volumes of **TRILO-G**. **BRIDGES** explores the ramifications of contemporary citizen concerns in the context of classical wisdom and this weeks “news”. **BRIDGES** employs current, topical events and conditions to illustrate the importance of functional human settlement patterns and assists readers in the visualizing and understanding the differences between functional and dysfunctional patterns and densities of land use.

The chapters of **BRIDGES** provides summaries of 131 *Bacon’s Rebellion* columns and *Backgrounders* as well as reports, programs and presentations by SYNERGY/Planning. Column listings are listed in inverse order to reflect the fact that vocabulary and context change over time with the most recent perspective perhaps being the most relevant. The most recent columns on a topic provide the most current information and employ the most current vocabulary. Vocabulary is constantly being strengthened as new words and phrases with more precise meanings are added

and overused; confusing words and phrases are avoided. For example see discussion of “family” and Household in *ACTION*, PART THIRTEEN - GLOSSARY.

The Chapters of *BRIDGES* provide links to resources on the *TRILO-G* DVD and on the Internet. However, this is not the “Final Word” on the topic addressed. These chapters and the links will be updated from time to time to reflect events which demonstrate the nexus between the insights, theses, axioms, principles, the Five Natural Laws and the Six Overarching Strategies laid out in *The Shape of the Future* and in *FOUNDATIONS* with the programs and tools presented in *ACTION*.

The length, level of detail and the level of certainty explained in chapters of *BRIDGES* varies. Some chapters are speculative and primarily raise questions, while others present information that is now well settled from the author’s perspective.

The columns prepared for *Bacon’s Rebellion* employ current events to link topics that are of interest to those who follow “the news” to the larger context and to understanding human settlement patterns. The columns were written over a six year period. Some columns address several topics: transportation, housing, energy consumption, etc. Over time the need to evolve more explicit vocabulary is demonstrated by the columns. As noted above, the columns are listed in inverse chronological order to reflect this fact.

Because of the scope and intent of *BRIDGES*, the Foreword is followed by an Annotated Table of Contents.

END NOTE FOR BRIDGES FOREWORD

(1) Thomas L. Friedman kept rewriting *The World is Flat: A Brief History of the Twenty-First Century* to “update and expand it’ in an attempt to keep it relevant in a changing world that in fact is getting less flat.

OMEGA - ACTION: Citizen Tools to Achieve a Sustainable Trajectory

FOREWORD (3 June 2009)

ACTION is the third Volume of *TRILO-G*. *ACTION* is a tool box from which citizens may select and enhance strategies and tactics to achieve Fundamental Transformation of human settlement patterns and contribute to the process of Fundamental Transformation of governance structures and Fundamental Transformation of the economic system. *ACTION* also provides resources that support the first two volumes of *TRILO-G*.

To place *ACTION* in context, the three volumes of *TRILO-G - FOUNDATIONS, BRIDGES* and *ACTION* - are summarized here:

ALPHA VOLUME I - FOUNDATIONS: The Exploration of Five Fundamental Forces Controlling the Trajectory of Civilization examines five overarching forces that are preventing civilization from achieving a sustainable trajectory. These forces consume resources, deflect attention and prevent Citizens and their Organizations from taking a broad range of actions that are imperative if what Jared Diamond terms “*Collapse*” is to be avoided.

FOUNDATIONS addresses five complex conditions:

- The root causes of dysfunctional settlement patterns
- The reasons that citizens do not have the information they need to make intelligent decisions in the market place and in the voting booth
- Why citizens’ dependence on *Large, Private* Vehicles (Autonomobiles) result in the Mobility and Access Crisis and the Helter Skelter Crisis as well as compounding the Affordable and Accessible Housing Crisis
- The root causes of misuse and mismanagement of land, especially land OUTSIDE the Clear Edge
- The need for a new, realistic metric for measuring citizens’ economic, social and physical well being in contemporary society

The five PARTS of ***FOUNDATIONS*** sketch out three new Conceptual Frameworks highlighted below. These Conceptual Frameworks complement the New Urban Region Conceptual Framework that is articulated in ***The Shape of the Future***.

- **PART TWO - THE ESTATES MATRIX** documents the Transformation and demise of the historic Fourth Estate (aka, MainStream Media) but also introduces THE ESTATES MATRIX, a Conceptual Framework based on historic precedent for managing civilization.
- **PART FOUR - THE USE AND MANAGEMENT OF LAND** sketches out a new Conceptual Framework for managing the land resource - especially land outside the Clear Edge.
- **PART FIVE - A NEW METRIC FOR CITIZEN WELL BEING** explores the need for a new Conceptual Framework for measuring and maintaining human safety and happiness.

SIGMA VOLUME II - BRIDGES: The Connection Between Theory and Action is an evolving reference volume. As the title implies, this Volume links the theses, principles, Conceptual Frameworks, strategies and tools found in both ***The Shape of the Future*** and ***FOUNDATIONS***

with contemporary economic, social and physical reality. **BRIDGES** is the gateway to multi-media library of resources. It includes cross-references to *The Shape of the Future* and all three Volumes of **TRILO-G**. **BRIDGES** explores the ramifications of contemporary citizen concerns in the context of classical wisdom and this weeks “news”.

BRIDGES employs current events and conditions to illustrate the importance of functional human settlement patterns and assists readers in visualizing and understanding the differences between functional and dysfunctional patterns and densities of land use.

BRIDGES is laid out in five PARTS containing 17 Chapters. Each chapter provides an overview of a critical topic and provides links to resources that document how human settlement patterns - the patterns and densities of land use - impact and control the lives of citizens. The chapters demonstrate how settlement patterns reflect and determine the economic, social and physical forces that determine the quality of citizen’s lives. This volume demonstrates the necessity of applying the tools laid out in VOLUME III **ACTION**.

OMEGA VOLUME III - ACTION: Citizen Tools to Achieve a Sustainable Trajectory is presented in four PARTs. This Volume contains programs and provides resources citizens can use to implement the Fundamental Transformation of human settlement patterns and the Fundamental Transformation of governance structure and to support the Fundamental Transformation of the economic system.

ACTION: Citizen Tools to Achieve a Sustainable Trajectory is about what you and other citizens can do to make the world a better place, one Community at a time and one NUR at a time. The four PARTS of this Volume are:

- **PROPERTY DYNAMICS: Real Property Values, a Path to Understanding Human Settlement Patterns**
- **HANDBOOK: Three Step Process to Create Balanced Communities and Sustainable New Urban Regions**
- **GLOSSARY: Deconstructing Human Settlement Pattern Babble**
- **RESOURCES: Graphic and Text Support For TRILO-G**

PART ELEVEN - PROPERTY DYNAMICS: Property Values, the Path to Understanding Human Settlement Patterns sketches out an open-ended, comprehensive citizen education process designed to help citizens understand the dynamics of human settlement patterns and how these patterns impact the safety and happiness of citizens.

No PART of TRILO-G demonstrates more clearly the incredible opportunity to evolve a sustainable trajectory for society that has been lost by the blind obsession

with resource-wasting “growth” as the basis of economic prosperity, social stability and environmental sustainability.

The driving force behind the last 35 years of Wealth Gap-generating “prosperity” was made possible by burning through Natural Capital. Much of the false prosperity was wasted on creating the Housing Bubble - building the Wrong Size Houses in the Wrong Locations. Trickle Down made the Affordable and Accessible Housing Crisis far worse. Business-As-Usual drove the Housing Bubble and led to the Global Financial Meltdown.

PART ELEVEN outlines a program called PROPERTY DYNAMICS that was launched in 2004 as an activity of 1000 Friends of Virginia’s Future. PROPERTY DYNAMICS was intended to create broad citizen understanding of how to create a sustainable trajectory for civilization, the first step in functional human settlement patterns and addressing the Affordable and Accessible Housing Crisis as well as the Mobility and Access Crisis and the Helter Skelter Crisis.

Had PROPERTY DYNAMICS been pursued as envisioned in 2005, it would have been in place before the Housing Bubble made its final expansion and then implosion. PROPERTY DYNAMICS is still a viable citizen program but think of what could have been...

PROPERTY DYNAMICS connects citizens’ most pressing, immediate concerns with the society-wide context. The process helps citizens discover for themselves the underlying causes of the dysfunctions they experience in daily life. PROPERTY DYNAMICS makes it evident that a comprehensive education process is essential to individual citizens, Households, Enterprises, Institutions, Agencies - to society in general - if there is to be a sustainable trajectory for civilization.

PROPERTY DYNAMICS demonstrates the need for Fundamental Transformation of human settlement patterns and Fundamental Transformation of the governance structure as well as Fundamental Transformation of the economic system to achieve a sustainable trajectory of civilization. It also supports use of the Six Overarching Strategies outlined in *The Shape of the Future* and lays the groundwork implementation of HANDBOOK’s Three-Step Process for citizen action outlined in PART TWELVE.

PART TWELVE - HANDBOOK: Three Step Process to Create Balanced Communities and Sustainable New Urban Regions is an updated version HANDBOOK first published in 2001. HANDBOOK is a how-to guide for a Three-Step Process. It provides tools citizens can use to bring about Fundamental Transformation in human settlement patterns and Fundamental Transformation in governance structures. The process can start at any scale from Neighborhood to Region and is designed to evolve to involve entire NUR and USR.

HANDBOOK has been drafted to apply the Three-Step Process to achieve Balanced Communities in sustainable NURs and USRs throughout the US of A. In fact, HANDBOOK outlines strategies that are applicable to other First World nation-states.

PART THIRTEEN - GLOSSARY: Deconstructing Human Settlement Pattern Babble contains definitions and cross-references for words and phrases used in *TRILO-G*.

PART FOURTEEN - RESOURCES: Graphic and Text Support for *TRILO-G* provides files and references to graphic and text that supports for all three volumes of *TRILO-G*.