Sustainable Development Goals:
A Framework for Implementation
Dialogues and Actions

Jamaica 2030 and Beyond

Leadership Dialogue and Colloquium

Forum on the Future

October 20, 2015

Ken Hunter

Governance for Navigating the Frontiers of the 21st Century and Creating Goals and a Sound and Secure Foundation for the 22nd Century

2015: A Big Year for Global Goal Setting

Now the hard part begins

Implementation

United Nations Adopts 2030 Goals

- Resolution: Transforming our world: the 2030 Agenda for Sustainable Development
- “This Agenda is a plan of action for people, planet and prosperity.”
- 17 Sustainable Development Goals and 169 targets!!!!!

SDG Implementation

Resolution calls for action by:

- Member nations – national action plans
- International institutions, both UN and treaty-based
- Regional regimes of all types

SDG Driving a Green Economy

6. Water and sanitation

7. Energy

15. Climate change with reference to Framework Convention on Climate Change

16. Oceans, seas and marine resources

17. Ecosystems

Climate Change Meeting in Paris, December 2015

Can the nations and institutions of the World commit to actions to achieve a **goal** of limiting the increase in **carbon dioxide** in the atmosphere sufficiently to minimize global warming?

Nations and major corporations are making their **commitment**. Will they add up to enough? Will they be specific enough to drive implementation actions?

Will the meeting create enough consensus to launches us toward a "Green Economy"?

Creating a Green Economy:
A Framework for Governance Implementation Dialogues and Actions

Creating a Green Economy:
A Framework for Governance Dialogue and Actions

Ken Hunter, Futurist
October 12, 2015 Version

Creating the Conditions for Actions

1 **Stewardship**

Taking ownership of our future and well being as a moral duty and recognize costs of inaction

2 **Systems Perspective**

Developing deep understanding of how things really work as complex adaptive systems

...

3 **Goal Setting**

Getting everyone to envision a common preferred and plausible future as a basis for direction setting decisions

Creating the Agendas for Actions

4 **Operations Agenda**

Green the day-to-day decision making: relentless search for opportunities as a culture

...

5 **Reform Agenda**

Changes to existing systems, practices, and behavior to make them more green: stop damage and employ best practices

6 **Transformation Agenda**

Create a new paradigm and design new systems with full green vision: green industrial policy, green infrastructure, green behavior

...

7 **Science and Education Agenda**

Robust agenda to support all of above

...

1. Stewardship

A child born today will likely live into the 22nd Century – goals and strategies should cover at least her lifetime

- Recognize the risks and cost of inaction
- Ethical stances: See Pope Francis' Encyclical
- Economic stance: See Martin Wolf's "Why climate uncertainty justifies action"
- Industrial stance: Some major corporations' positions are changing

2. Systems: Deep Understanding

Green economy comprises global, regional, and local complex adaptive systems with natural and human components and agents

- Complex systems understanding: Go to Sante Fe Institute (santafe.edu)
- Mapping, modeling, measuring: climate change case – NASA, NOAA, National Socio-Environmental Synthesis Center cluster to provide actionable information
- Global food system case: “field to fork” systems thinking

3. Goal Setting for a Green Economy

- Global goals
  - UN Sustainable Development Goals for 2030
  - Climate change goals – Paris, December 2015
- Regional goals for big three
  - U.S. and China bringing an agreement to Paris
  - European Union ?
- Local goals cases
  - Maryland estuary case – goals for Chesapeake Bay
  - Jamaica island case

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4. Operations Agendas

Greening of the day-to-day operations agenda focuses on the **actions managers can take now** with existing authority and resources

- Green campaigns – awareness and behavior
- Relentless search for greater efficiency and waste reduction
- Procurement rules and practices

5. Reform Agendas: Meeting 2030 Targets

Greening reform agendas focus on meeting 2030 targets with policy changes to adopt and implement **"best green practices and technologies"** throughout the institution. Robust reform actions buy time for needed longer term transformational changes.

- Water and energy systems cases
- Industrial processes cases
- Green infrastructure cases – development banks
- Teaching science-based green everywhere

6. Transformation Agendas: Beyond the 2030 Horizon

Greening the institutions long-term **vision** of its preferred and plausible future through the 21st Century and assuring the **leadership** to rigorously and relentlessly create the **culture and capabilities** to design and implement next-generation policies and systems

- Note 1. Transformation does NOT have to be revolutionary or disruptive. It should be a disciplined process founded on actionable science and full citizen participation.

6. Transformation Agendas Continued

- Note 2. **Modernizing and streamlining** governance must be a major part of designing next generation systems. Our first generation green policies create in the 1970 are rules-based regulation of industry and use local governments to enforce national standards. The next paradigm should be based on the principles of **subsidiarity and complex adaptive systems**.
  - Maryland estuary system case
  - Jamaica island system case

6. Transformation Agendas Continued

- Decarbonizing domestic economies with green industrial policies and carbon pricing. **Sequencing** of actions is critical. The process of creating a green industrial policy will build the coalition to support carbon pricing. The Paris summit is likely to get this wrong.
- Recognize the full risks and costs of product services including a "price on nature." Get the **accountants** engaged.
- Recognize global and regional climate uncertainties and frame the challenges of insuring against disasters. Extreme weather and rising sea leaves. Get the **insurers** engaged.

7. Science and Education Agendas

Greening science and education to specifically support all six governance functions above with:

- Actionable knowledge for direction setting decision making and implementation
- Robust technology development and diffusion processes
- Lifelong learning systems

Three well established approaches would be useful:

7. Science and Education Agendas Continued

- Super robust **education-research-extension system** globally, regionally, and locally. A green economy version of the agriculture industry-research universities-government system created in the 1850s and used today.
- Create a **green "advanced research projects agency."** Build a specific capability for rapid and iterative prototyping for technologies.
- Expand the **systems analysis and socio-environmental synthesis** approaches. Bring together natural and social scientist and big data capabilities.

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Thank You, Ken

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Supplemental Charts

Contents

Governance for Navigating the Frontiers of the 21st Century and Creating Goals and a Sound and Secure Foundation for the 22nd Century

Ken's Ten Contributions to a Robust Dialogue and Direction Setting Decisions Now

Kenneth W. Hunter, Futurist
October 6, 2015 Version

Introduction: Governance for Navigating the Frontiers of the 21st Century and Creating Goals and a Sound and Secure Foundation for the 22nd Century

Chart Set 10. Governance of Lifelong Learning, Adapting, and Engaging Systems Case

Chart Set 2. Cultures, Identities, World Views, and Systemic Changes

Chart Set 9. Governance Stewardship Systems Case

Chart Set 3. Governance Principles: 21st Century Governance Narrative and More

Chart Set 1. Art of the Long View: Goal Setting and Public Sector Accountability and Foresight and More

Chart Set 8. Governance of Justice Systems Case

Chart Set 4. Systems of Governance and Governance of Systems and More

Chart Set 7. Governance of Science and Technology Systems Case

Chart Set 5. Governance Systems Leadership Community Practices, Capabilities, and Capacities

Chart Set 6.Governance of Diplomacy, Development, and Military Systems Case

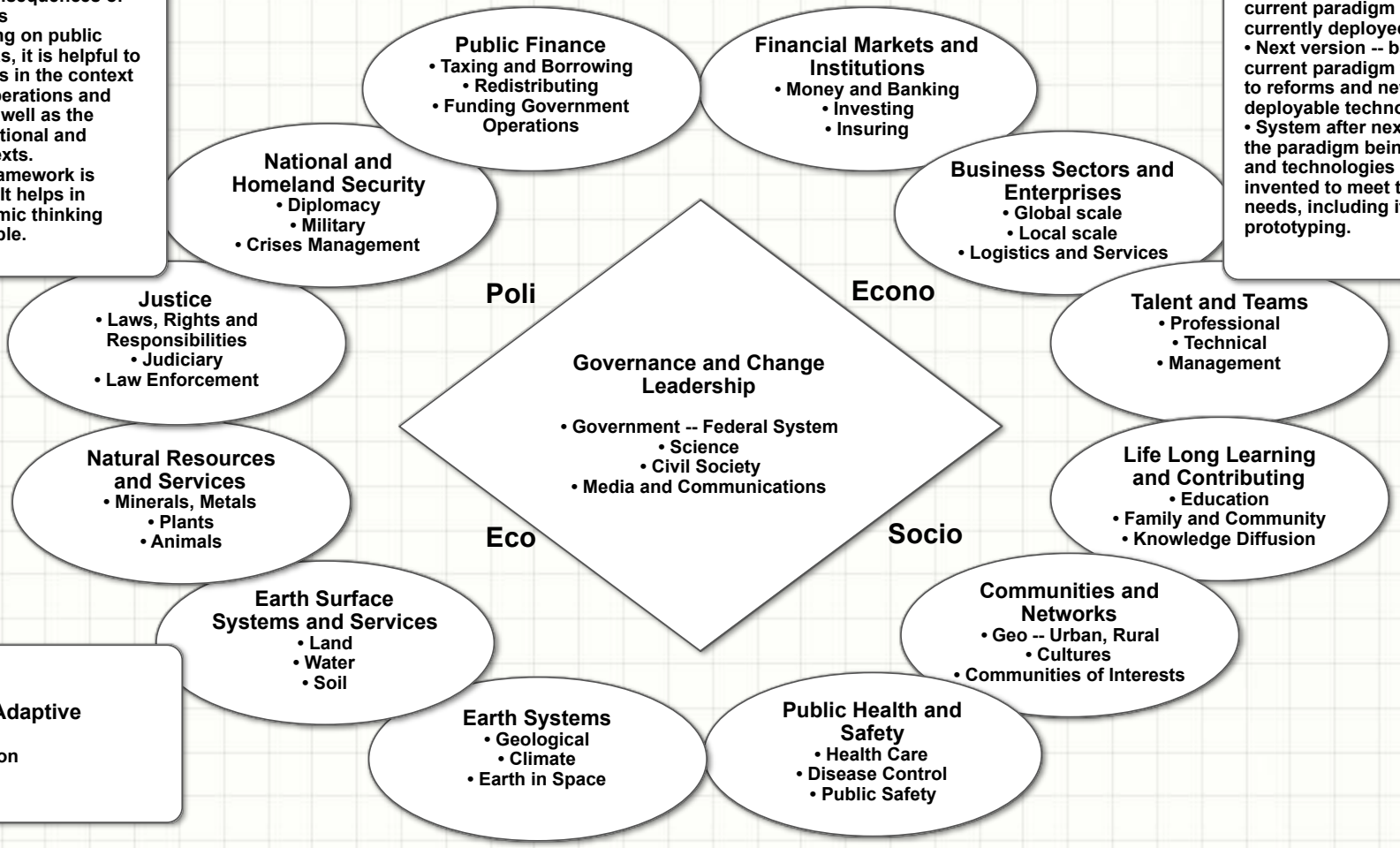
Governance for Navigating the Frontiers of the 21st Century

13 Functional Clusters of Complex Adaptive Public Systems Undergoing Transformational Change: A Policy Perspective

Kenneth W. Hunter, Futurist
October 6, 2015 Version

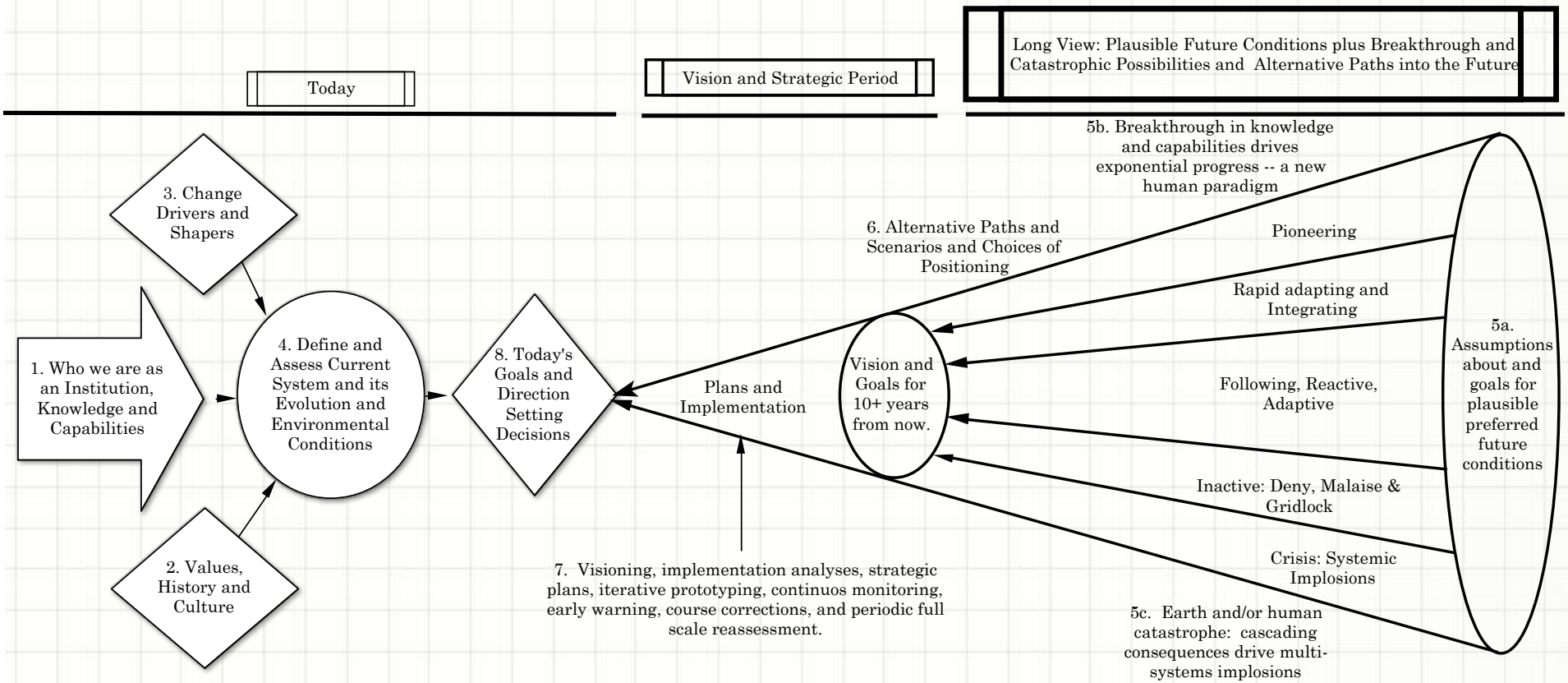
Purposes:
- I keep this chart at the ready, so as I work on one complex public system I can see it context of all systems also in operation and interactions, as well as being in transformational change.
- It is also useful in thinking about the possible paths of cascading consequences of major changes
- When working on public policy agendas, it is helpful to put the actions in the context of systems operations and evolutions as well as the normal institutional and political contexts.
- Since this framework is surprise free, It helps in making systemic thinking more accessible.

Public Systems Evolution:
At any moment, we should be addressing four versions of each system:
- Legacy components -- based on the old paradigm and old technology but still in use; hopefully no critical
- Current version -- based on current paradigm and currently deployed technology
- Next version -- based on current paradigm with agreed to reforms and newest deployable technologies
- System after next based on the paradigm being created and technologies being invented to meet the future needs, including iterative prototyping.



Complex Adaptive Systems:
Add definition

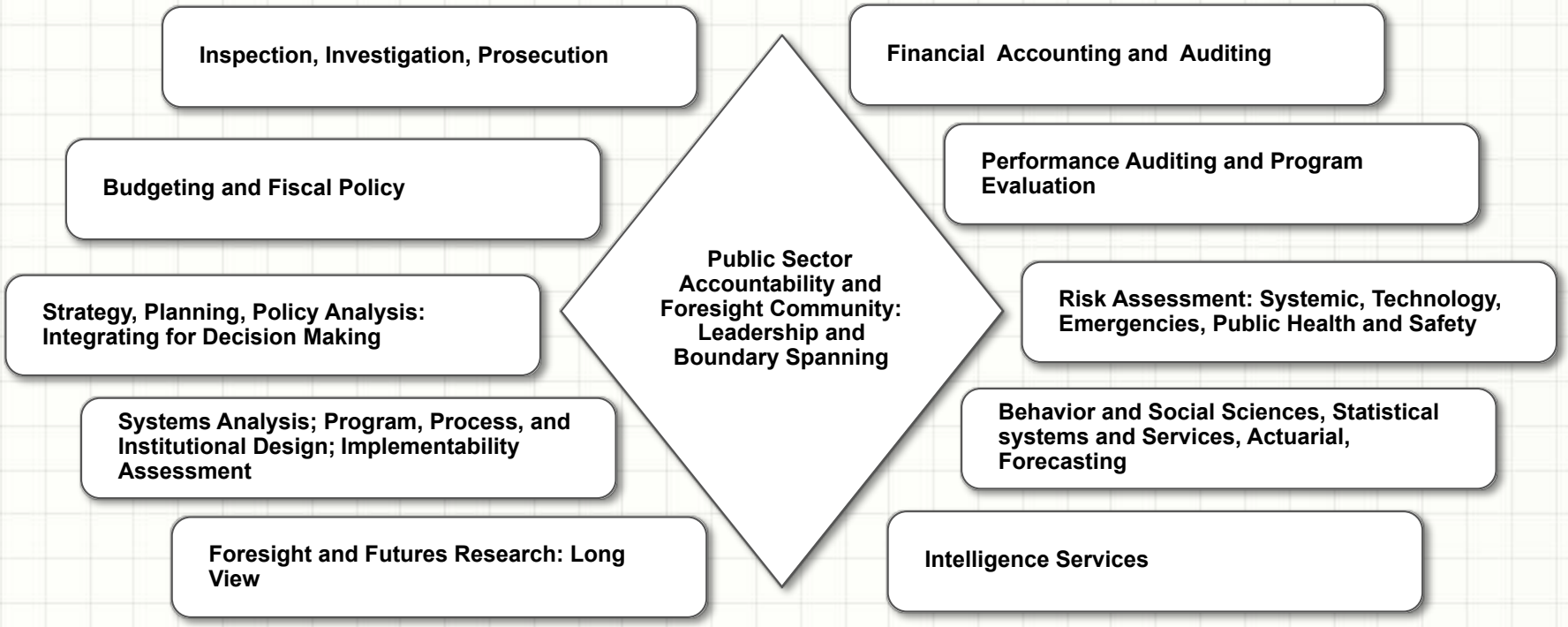
Direction-Setting Decision-Making: Ken's Integrated Process



Governance for Navigating the Frontiers of the 21st Century

Public Sector Accountability and Foresight Community: Ken's Framework for Mapping and Connecting the Parts of Disciplines and Functions that Comprise the Community

Kenneth W. Hunter, Futurist
October 6, 2015 Version



Community Supporting Functions

Accountability and Foresight Community Building

Accountability and Foresight Capacity Building (See Separate Chart)

Accountability and Foresight Research and Development

Governance for Navigating the Frontiers of the 21st Century

Public Sector Accountability and Foresight Community: Ken's Framework for Community Capacity Building

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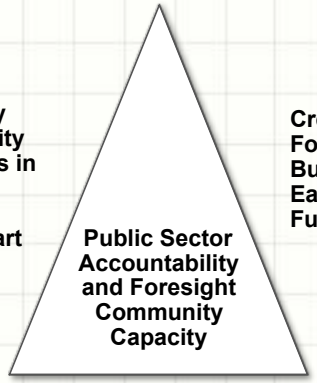

Create Accountability and Foresight Capacity Building Components in Each of the Many Disciplines that Contribute -- See Chart on community disciplines

Create Accountability and Foresight Capacity Building Components in Each Public Sector Function

Create Accountability and Foresight Capacity Building Community-wide Components -- Ken's Ten Suggested Sets of Deep Understandings and Capabilities

1. Deep understanding of governance principles -- Western Enlightenment and U.S. system of shared powers

2. Deep understanding of U.S. governance structures, functions and practices

3. Deep understanding of complex adaptive systems

4. Deep understanding of cultures, identities, world views, code of conduct, institutions and how they deal with the future and change

5. Deep understanding of time and the pace and direction of change: evolution, progress, and change

6. Deep understanding of knowledge and information systems and services

7. Capabilities to create and deploy community-wide initiatives on complex adaptive systems

8. Capabilities to synthesize information from all relevant sources to produce actionable knowledge for goals and direction setting decision making

9. Capabilities to create and communicate actionable warnings and stories and maps of alternative future conditions and directions of change

10. Capabilities to build and lead the accountability and foresight community and its collaborative actives and to support designers and leaders of transformational change: Macro and Micro