Solutions for Sustainable Development

The Millennium Institute

...in partnership with UNEP and the Biovision Foundation

UNCTAD-WIF Geneva 15 October, 2014 Hans R. Herren President & CEO Millennium Institute Founder & President Biovision Foundation

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The Millennium Institute

- MI is a not for profit organization established in 1983 to promote holistic, long-term strategic planning
- MI's Vision is a world in which decisions makers apply extensive knowledge and a systemic perspective to bring about a sustainable, equitable and peaceful global society through good governance

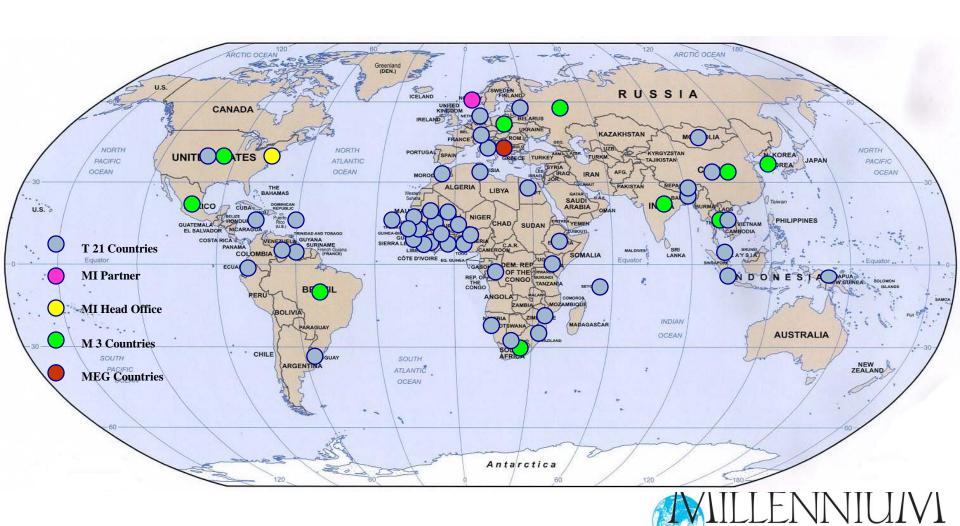


Biovision Foundation

- Non-governmental Organisation based in Zurich, Switzerland
- Supports proven and integrated solutions and methods to strengthen sustainable agriculture and food systems
- Implements advocacy work to foster the implementation of sustainable development



MI around the World

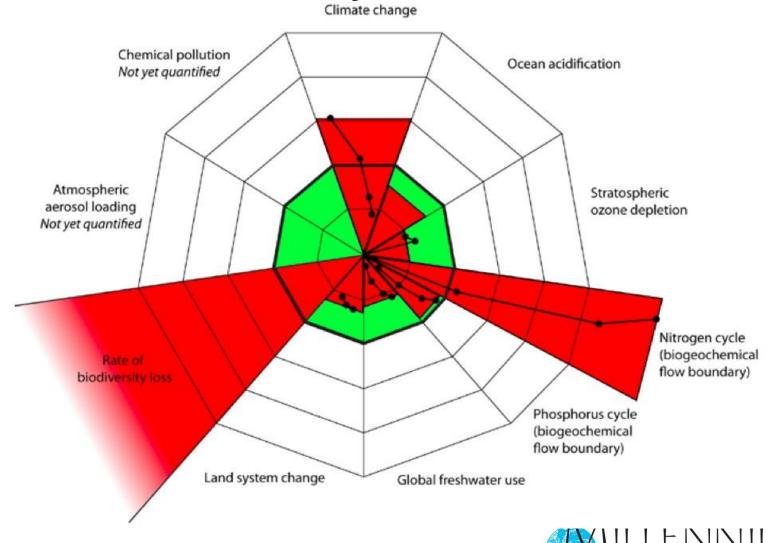


The development challenges

- Manage energy and natural resources to assure the sustainability of the ecological foundation (planetary boundaries)
- Enable social structures and governance to function equitably
- Provide social and environmental services as well economic sustainable growth to reduce poverty and inequity
- Take account of the vital interactions among and across the Economic, Environmental, and Social dimensions
- Mitigate and adapt to climate change and protect the environment



The crucial and connected challenges that need to be tackled: Planetary boundaries



MI's approach and models

MI's provides a service to develop and use tools and approaches for integrated, multistakeholder sustainable development policy planning

Levels: Global, regional, national and local

Sectors: All relevant sectors, individual or interconnected for customized policy development, analysis and M&E

Tools: System Dynamics models (T21 and derivatives)



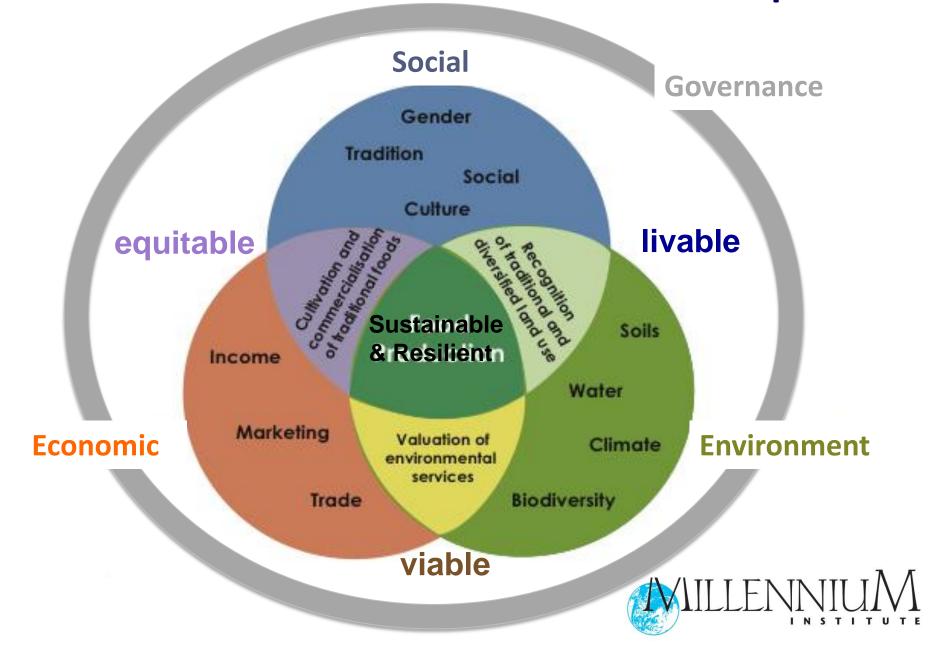
MI's approach and models

Aim: Inform sustainable development policies to meet strategic objectives (ROI)

Activities: Multistakeholder and group modeling exercises, capacity development (system thinking, modeling, policy analysis, M&E)

Areas: MDGs/SDGs; Road maps for national strategic development plan goals; CC mitigation/adaptation; energy; poverty/sustainable development; peace and security; etc.

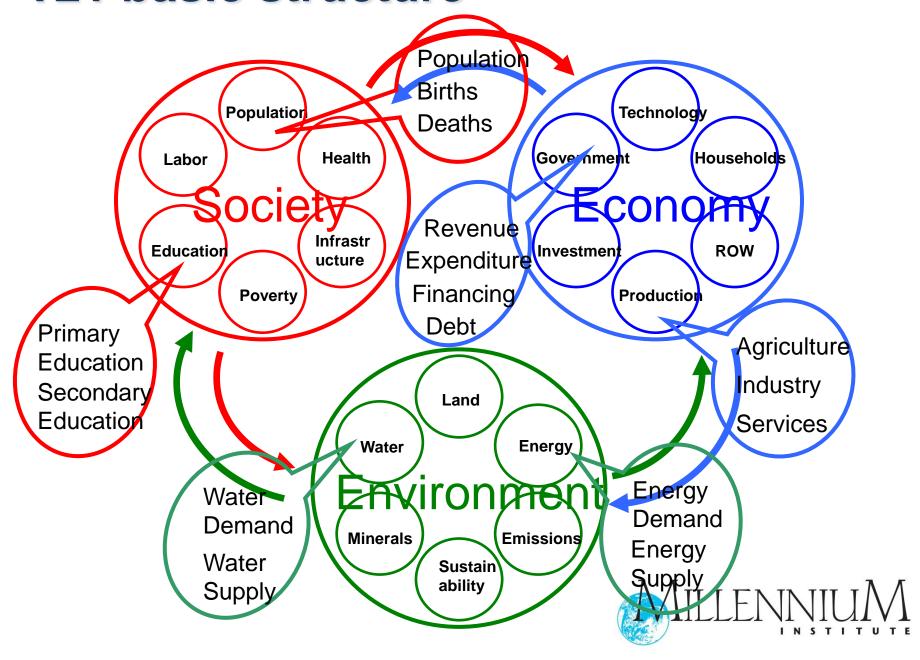
The 3 +1 dimensions of sustainable development



Why choose a systems approach with the Threshold 21 (T21) model

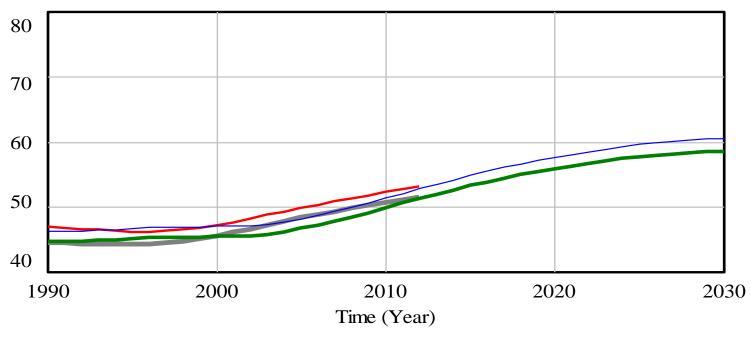
- Integrated tool linking economic, social, and environmental sectors
- Based on real-world causal relations, not just theory
- Flexible with scenarios or what if options to simulate the possible consequences of selected policy choices
- Fast, user-friendly, transparent, peer reviewed and based on best available science
- Supports productive dialogue and participatory decision making among gov ministries and other stakeholders

T21 basic structure



Historical comparison

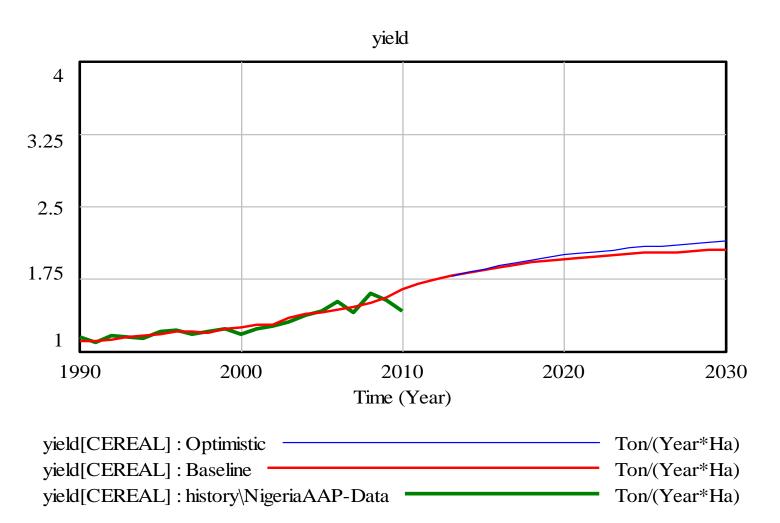




life expectancy[FEMALE] : Baseline	Year
life expectancy[FEMALE] : history\NigeriaAAP-Data	Year
life expectancy[MALE] : Baseline	Year
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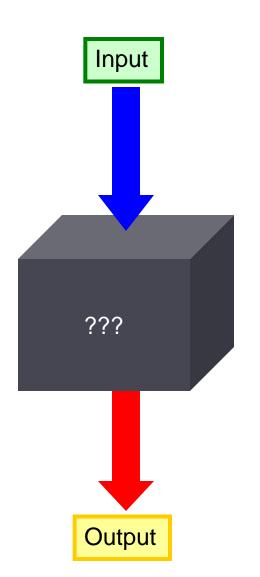


Scenario comparison



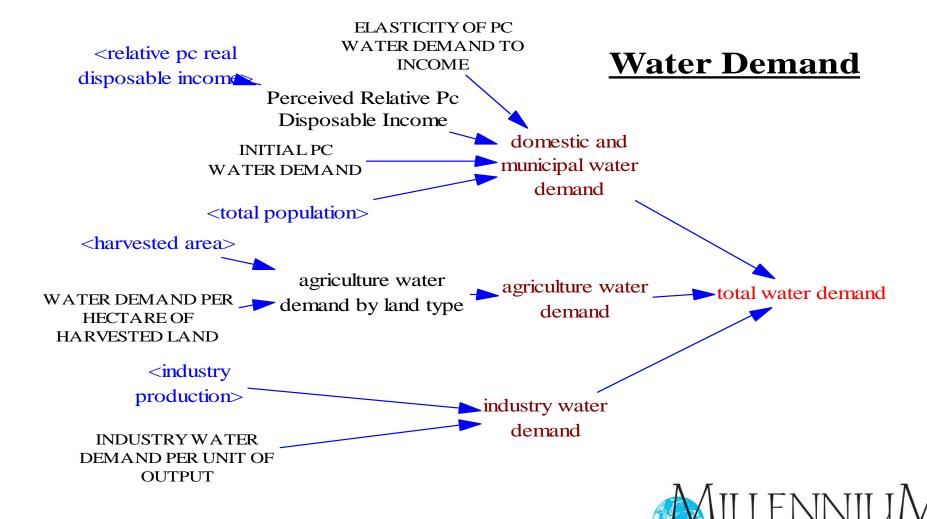


T21 = Transparency





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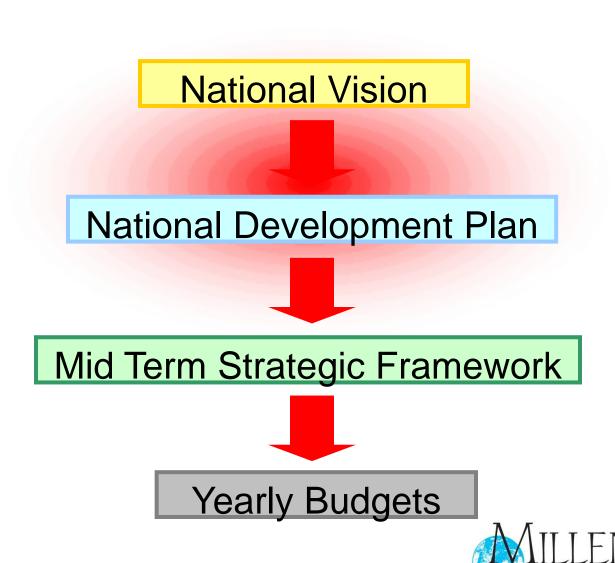


Integrating Planning Tools for success

Longterm

Medterm

Shortterm



System

T21 - Promoting cooperation and change

- T21 is a tool to bring stakeholders together
- Builds support by taking account of each party's concerns (consensus, participatory)
- Generates integrated scenarios, compares them and visualizes the results
- Helps understand synergies and negative feedbacks to reach consensus
- Is valuable for all Governments and Development Agencies (good governance/accountability) and the Private Sector to optimize ROI in the 3Ds



MI's activities

Sustainable strategic development, customized models, and reports assisted many countries

- CC Mitigation and Adaptation / Green Economy: USA, China, Denmark, Ecuador, Namibia, Kenya, Nigeria, Senegal, Burkina Faso, Ghana, Rwanda, Mauritius, Uruguay, Morocco, Peru
- Food and nutrition security: Senegal, Kenya, Ethiopia
- Poverty, MDGs, Malaria, HIV/AIDS: Ghana, Mali, Malawi, Mozambique, Jamaica, Bhutan, Swaziland, Kenya
- Natural disasters and External shocks: Jamaica, Mali, Mozambique, USA, Denmark, Mongolia
- Sustainable Development: Papua, Maui, ECOWAS, Venezuela, Mongolia, Malaysia
- Business: GM, National Commission on Energy Policy
- Post conflict: West Balkan



You cannot solve the problem with the same kind of thinking that created the problem Albert Einstein

Thank you

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UNEP and the iGER

- iGER focus: positive macro economic effects of green investments in the 3 sustainable development dimensions
- Model applied in twelve sectors and global scale
- Incorporate links across sectors, and within them to optimize the synergies and reduce negative feedbacks and overlaps, gaps
- Demonstrates effects of Green investments and shows long term benefits compared to BAU
- Supports policymakers design workable and affordable green development paths

Implementation of a multistakeholder policy design, analysis and M&E (Kenya, Senegal, Ethiopia)



