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Global Sustainable Urban Development Indicators (GDI): HUD and White House Working Group

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GDI Overview

- Developed during World Urban Forum, March 2010 due to urbanization discussions and effects
- Partners from World Urban Forum uniquely positioned to collaborate in the United States and internationally – multi-sector, diverse, urban and rural mandates
- U.S. cities and agencies taking ambitious steps toward sustainable development
- Working group co-led by the White House Office of Urban Affairs and HUD
- Aim to develop indicators that demonstrate the progress that American cities are making toward sustainable urban development and inform supportive policy, planning and investment.



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GDI Overview (cont'd)

- Penn State professors and PhD students participating in working group and leading analysis
- American Planning Association staff and working group members coordinating closely with Penn State team
- Initial analysis from Penn State presented to subset of working group two weeks ago
- Working group members attended World Urban Campaign meetings in Shanghai, China to present materials, leading to interest in process for China
- Working group members attended launch of Sustainable Urban Housing Competition in early November, leading to further interest in partnering on GDI for Brazil and Latin America





GDI Goals

Goal 1:

Scan North American indicators and outcomes which evaluate successful sustainable urban development and revitalization strategies.

Goal 2:

Match these metrics in context of global best practices.

Goal 3:

Submit suggestions on potential common language, normative principles, and universal benchmarks around sustainability



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Indicators will:

- Adhere largely to political jurisdictions, i.e. cities.
- Be informed by international research and understandings, but tailored to domestic needs.
- Apply broadly, to American cities and metropolitan areas of all sizes and locales.
- Relate primarily to data that cities already collect and/or are interested in and motivated to collect over the long term.
- Be simple, few, and succinct, but supplemented with contextual information.





Dimension of Sustainable Urban Development	Elements necessary for sustainable urban development:
Social Wellbeing	 Health Safety Local or civic identity/sense of place Access to decent – affordable – housing and services Access to public recreation and open space Access to a variety of transportation options
Economic Opportunity	 A diversified and competitive local and regional economy Transportation and other infrastructure coordinated with land use Growth plans that leverage existing assets Access to capital and credit Access to education, jobs, and training
Environmental Quality	 Efficient land use Use of renewable resources Waste/pollution minimization and management Climate change and natural disaster mitigation, adaptation, and resilience Carbon efficient, environmentally sound, transportation A diverse natural environment and functional ecological systems



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Sources of Indicator Information & Data

Institutional (1)

• Columbia Univ. + Yale Univ. – 2010 Environmental Performance Index

Non-Profits / NGO (9)

- CAP, ICLEI + USGBC STAR Community Index
- GBCA (Australia) Green Star
- Global Reporting Initiative Sustainability Reporting Guidelines
- International Institute for Sustainable Development
- Urban Ecology Coalition Neighborhood Sustainability Indicators Guidebook
- USGBC *LEED ND*
- The World Bank *Global City Indicators Facility*
- ACSE Sustainability Action Plan
- International Sustainability Indicators Network
- The World Bank *Sustainable Development*





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Sources of Indicator Information & Data

Private Organizations (3)

- ASLA + Lady Bird Johnson Wildflower Center Sustainable Sites Initiative
- PricewaterhouseCoopers *Cities of Opportunity*
- Siemens European Green City Index

National / Municipal Governments (9)

- Abu Dhabi Estidama
- European Foundation Urban Sustainability Indicators
- Central Texas Sustainability Indicators Project
- Houston Sustainability Indicators
- Minneapolis Sustainability Indicators
- Portland Planning and Sustainability
- Santa Monica Sustainability Plan
- Whistler Monitor Program
- Sustainable Seattle

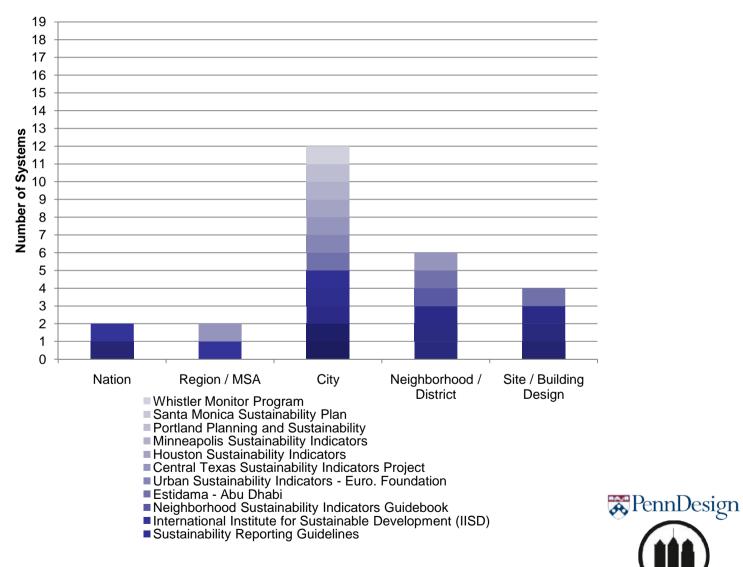




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Scale of Focus



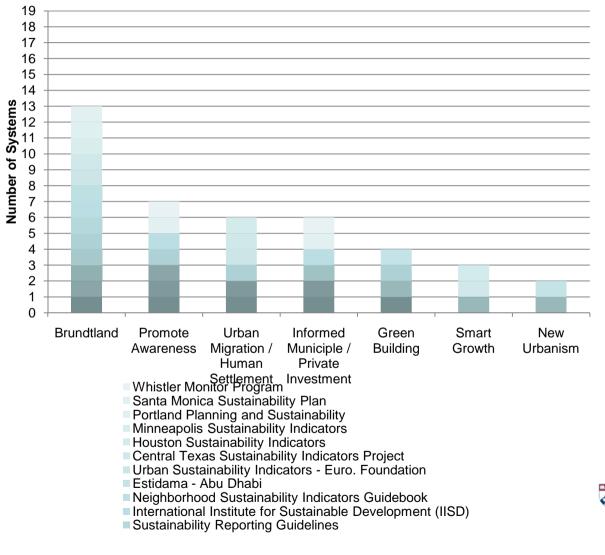
PENN INSTITUTE for URBAN RESEARCH



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Principles of Sustainability



PennDesign





General Observations: Sources and Indicators

•Many Indicator Systems are not SMART?: Specific, Measurable, Attainable, Repeatable, Timely

•Measurable?

-Surveys sources inaccessible (Fortune 500 CEOs)?
•Repeatable?

Custom datasets that need to be purchased?

•Timely?

-One-time survey?

How many indicators have we reviewed?
 -139 Environmental – 44 Not SMART
 -126 Social – 63 Not SMART
 -70 Economic – 22 Not SMART



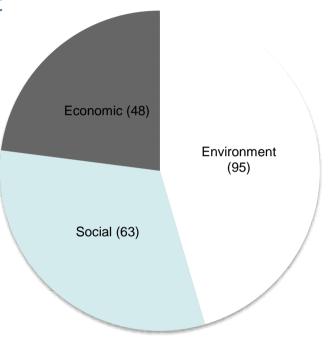


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Indicator Makeup

- The number of SMART indicators is skewed towards Environment and secondarily Social. Economic indicators are more narrowly defined.
- Few indicators overlap categories.
- Transportation is a common theme among each category, but is seen more in environment and social.
- A large number of indicators currently being used do not meet the SMART standards or have an obvious nexus with the three categories.
- Some indicators are used commonly – especially ones that come from readily collected administrative data.







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Example: Environment Indicators

First cut yields 95 SMART indicators. 24 Single-dimension, 71 Multi-dimensional.

- A large number of indicators, most of which are multidimensional. Overlap is an issue, need to pare down to the few SMART-est indicators.
- Ratio of single- to multi- dimensional indicators also shows a lack of specificity. Particularly concerning where an element has few indicators, overall (e.g. diverse natural environment, above).
- Rating and index systems (e.g. LEED, SSI) are comprehensive, but very specific.





Example: Environment Indicators Framework Element

	Efficient land use	Use of renewable resources	Waste/pollution minimization and management	Climate change and natural disaster mitigation, adaptation, and resilience	Carbon efficient, environmentally sound, transportation	A diverse natural environment and functional ecological systems
Number of Single- dimensional Indicators covering the area:	1	6	12	0	4	1
Number of Multi- dimensional Indicators covering the area:	52	24	18	31	36	16







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Next Steps for Working Group

Short Term (Dec/Jan)

- Revisit indexed systems (e.g. LEED, SSI).
- Pare down existing list: Review indicators in each category for overlap and double counting.
- Supplement with additions: Add indicators that speak to underrepresented elements.
- The objective is to maximize information and minimize the number of indicators, i.e. create a 'lean and mean' indicator system.

Longer Term (Jan/Feb/Mar)

- Complete indicator crafting/selection and present to working group.
- Select several American cities in which to pilot the new system.
- Apply new indicator system to selected cities paying particular attention to data availability and ease of use.





Contact Us:

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