





















- OBSERVANCE OF THE "WORLD CITIES DAY 2018" THE 2018 ANNUAL SESSION OF GLOBAL FORUM ON HUMAN SETTLEMENTS

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BUIDING GREEN MODEL CITY IMPLEMENTING SDG11 AND NEW URBAN AGENDA AT LOCAL LEVEL

建设绿色范例城市 在地方层面贯彻SDG11和新城市议程

Global Forum on Human Settlements October 30, 2018, UNCC, Bangkok





An Assessment and Planning Guidance Tool for Sustainable Urban Development

Part I The concept of IGMC Standards 3.0



In light of the IGMC concept, the greener cities resemble trees





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Inspirations from Trees for the Development of Green Cities:

- **1. Best technology with photosynthetic energy:** By absorbing solar energy through photosynthesis, it provides the best renewable energy in a simple, efficient and continuous way;
- **2. Environment-friendly by sequestrating carbon and releasing oxygen:** It offers refreshable breathing for life, purifies air quality, and helps to control atmospheric carbon dioxide concentration;
- **3. Circulating resources without making any waste:** It is good at synthesizing organic matter, recycling water and nutrient, keeping ecological balance, and making life go onward in an endless succession.





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- **4. Even interconnection in the leaf vein network:** Reaching a single target through multiple paths, it provides a flexible urban traffic network mode.
- **5. Inclusive and equitable:** Every leaf has equal opportunities, and there's no polarization and social segregation. It can matter-of-factly realize the goal of realize the goal of leaving no one behind.





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绿城如树

Green Cities Resemble Trees

为诠释2018全球人居环境论坛年会"绿色范例城市"主题而作

Versifying the theme of "Green Model Cities" at the annual conference of the Global Forum on Human Settlements 2018

亭亭树参天,

大道法自然。

能量借白日,

源源不间断。

Gracefully erect, the trees are towering, Like Tao that closely follows nature. Uninterruptedly from them energy is emanating, For daylight provides the source of power.





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沐泽善化育, 升落自循环。 固碳释鲜氧, 众生吐纳酣。

In a robust cycle they turn over and over again.

They oblige loads of carbon to sequestrate,

While nursing numerous breathing lungs with fresh oxygen.





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叶脉网络匀, 殊途通各点。 瓣瓣欣共享, 飒飒风来欢。

The leaf vein network is balanceably level, Reaching each cell through every different way. Happily it conveys synergy from petal to petal, And ushers rustling wind to merrily stay. 绿城若如树, 幸福遍人寰。

As long as Green Cities resemble trees, The world will teem with happiness forever.

6 Key Principles



Safety











6 Dimensions with 18 Categories



Spatial Planning and Development



Services



Environment



Economy



Society



Culture



Sustainable Spatial Planning & Design



Sustainable Land Use

Liveable Community

Public Space



Low Carbon & Energy Efficiency

Green Transportation



Smart City



Sustainable Environment



Resilience



Sustainable Water



Green Economy





Inclusive &

Urban Governance



Local Innovation

The Structure of Each Category

Definitions and Aims Key Strategies and Methodologies Key Requirements and Indicators **Best Practices**







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The structure of IGMC Standards 3.0

Rooted in the 2030 Agenda for Sustainable Development and the New Urban Agenda, the vision of "IGMC Standards 3.0" is based on six basic principles: **Safety**, Sustainability, Equity, Identity, Prosperity and **Happiness**, and is carried out through the 18 categories of the six dimensions of spatial planning and development, basic services, environment, economy, society and culture.

Furthermore, the 18 categories are further elaborated in terms of definitions and aims, key strategies and methodologies, key indicators, scoring systems and best practices.

It is written in both English and Chinese.





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Releasing Ceremony of IGMC Standards 3.0



Habitat III, Oct. 18th, 2016, Quito





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An advanced tool for assessing and guiding sustainable urban development

The IGMC Standards 3.0 is an advanced tool for assessing and guiding sustainable urban development. Released in Quito, the capital of Ecuador during the Habitat III Conference in 2016, it is a set of effective strategy documents including the evaluation and certification system compiled by renowned international experts on the basis of summarizing the rules and many successful experiences of urban planning and construction around the world. It bears universal significance and reference value.





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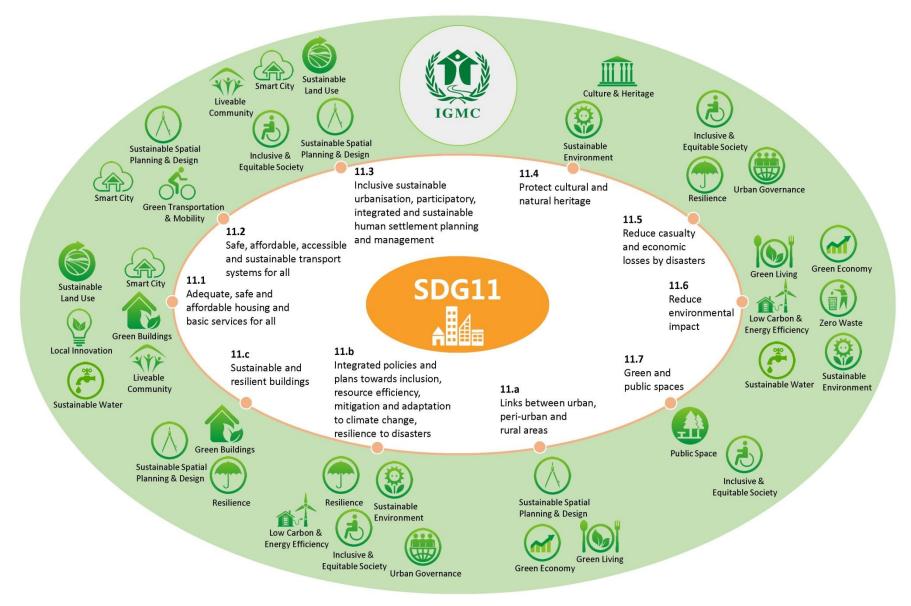
Roles of IGMC Standard 3.0

- **A.** Assessing sustainability of existing urban areas, identifying opportunities for improvement and transformation;
- **B.** Helping governments formulate policies and action plans as well as guiding them in planning and construction for stronger competitiveness and promoting implementation of SGDs and the New Urban Agenda;
- C. Guiding the process of urban sustainable development projects for improving overall performance and efficient investment;
- **D.** Appraising projects at planning or design phases to identify gaps and opportunities for improvement and avoid various risks;
- **E.** Providing a timely urban sustainable development training manual for relevant stakeholders.





Relevance between IGMC and SDG11







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Comparison of IGMC 3.0 Standards and SDG 11

SDG 11 Target	SDG 11 Indicators	IGMC Category & Indicators
11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums	11.1.1 Proportion of urban population living in slums, informal settlements or inadequate housing	Category 5.1: Inclusive and Equitable Society Proportion of urban population living in slums, informal settlements ≤1% Housing Affordability Index ≥100 Housing diversity in any given neighborhood, Percentage of the residential floor area distributed to low cost housing ≥20%, each tenure type of the total ≤50%
11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons	11.2.1 Proportion of population that has convenient access to public transport, by age, sex and persons with disabilities	Category 2.1: Green Transportation & Mobility Percentage of commuters using public transit ≥50%, Percentage of commuters using public transit, car-sharing, carpooling, bicycling or walking ≥80% Length of Public transport provision ≥6 km/km2





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SDG 11 Target	SDG 11 Indicators	IGMC Category & Indicators
11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries	11.3.1 Ratio of land consumption rate to population growth rate 11.3.2 Percentage of cities with a direct participation structure of civil society in urban planning and management which operate regularly and democratically	Ratio of land consumption rate to population growth rate, at comparable scale, should be ≤100% Urban development land per capita ≤100 m² Category 5.2: Urban Governance Percentage of voter participation in last municipal election ≥40% Public planning and management with a strong community engagement in a participatory process that operate regularly and democratically
11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations	11.5.1 Number of deaths, missing and persons affected by disaster per 100,000 people 11.5.2 Direct disaster economic loss in relation to global GDP, including disaster damage to critical infrastructure and disruption of basic services	Category 3.2: Resilience Established a well-coordinated system including a city disaster management centre to improve disaster prediction and emergency response Response time for emergency response services from initiative call ≤5 minutes Enforcing seismic and disaster design and construction for 100 % of infrastructures and buildings to meet the respective national standards Per capita regular shelter area ≥3 m²





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Part II: International Green Model City Initiative

The International Green Model City Initiative was launched by GFHS at the United Nations Headquarters in April 2011, in close collaboration various international with organizations including UNEP, concerned national and local governments. The Initiative never stops improving itself to keep up with the times.



As an innovative greener urban development action plan, the IGMC stimulates forward looking and responsible governments, businesses and social forces to work together to achieve sustainable cities and human settlements for all.





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The IGMC Initiative has been registered with the United Nations as a voluntary commitment of Rio+20 and 2030 Agenda for Sustainable Development as well as a conscious action to implement the SDGs, Paris Climate Agreement and NUA at the local and community levels.









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Aims of IGMC Initiative

In the new global context and evolving regional and local needs, the development of sustainable cities is facing severe challenges while offering many opportunities. IGMC Initiative aims to use IGMC Standards 3.0 as one of a variety of advanced planning tools by providing innovative concepts, integrated strategies and methodologies, benchmarks and monitoring framework as well as demand-oriented solutions for assessing and guiding sustainable urban development, conducting pilots, in conjunction with other approaches, to facilitate sustainable cities and human settlements for all, and to create a shared platform for dialogue and cooperation among the global stakeholders for the sake of establishing a new partnerships in support to the implementation of SDGs and NUA.

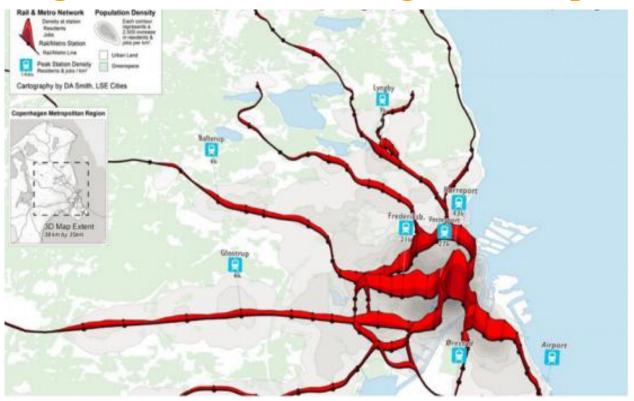




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Model of IGMC Implementation

The synergies between IGMC categories in Copenhagen



Copenhagen densities of people and jobs are aligned with transit accessibility. Source: LSE Cities





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IGMC Implementation in Copenhagen reflected in several categories as below: **Spatial Planning and Development.** Copenhagen has outstanding green land use policies. The city land use policies are based on the ongoing redevelopment of brownfield sites and the widespread availability of and accessibility to green spaces (almost 80% of residents in the municipality of Copenhagen live within 300 meters of a park or recreation area). Between 2000 and 2009, 80% of new developments were built on brownfield sites.





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Green Transportation and TOD. Copenhagen has an extensive public transport system, including a metro system, suburban railway and bus networks, and virtually all residents live within 350 metres of public transport. Copenhagen densities of people and jobs are aligned with transit accessibility. In addition, the Danish capital aims to become the "world's best cycle city" by raising the share of residents who regularly use a bicycle to commute from 36% in 2009 to 50% by 2015.

Low Carbon and Energy Efficiency. In 2009 Copenhagen set a target to become CO2 neutral by 2025, which if met would make it the first large carbon-neutral city in the world. The national government's climate change strategy aims to raise the share of renewable energy to 30% of total consumption by 2025 from 17% in 2008. The annual energy consumption of residential buildings, at 554 megajoules per square meter, is the lowest of the 30 European cities in the Economist Intelligence Unit survey. The city aims to achieve 10% of its CO2 reductions through construction and renovation projects, with plans to upgrade all municipal buildings to the highest standards for energy efficiency.





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Governance and Behavioural Change. Copenhagen is also joint first (with Brussels, Helsinki and Stockholm) in the individual category of environmental governance, in part for its strong collaborative efforts to set policies. The city has excellent performances for water system leakages, wastewater treatment and water efficiency. Some 55% of all waste is recycled. The city constantly promotes to rise the share of residents who regularly use a bicycle to commute. The municipality has recently taken steps to ensure integrated environmental management across all of its departments, appointing environmental coordinators for each administrative unit, who meet regularly to exchange experiences.





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IGMC Members and Pilots

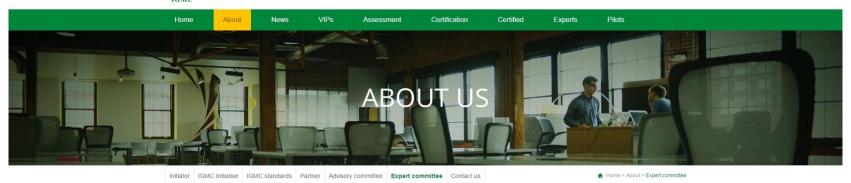
Some well-known cities and enterprises have joined the IGMC Initiative, such as Vancouver (Canada), Cape Town (South Africa), Mannheim (Germany), Seberang Perai (Malaysia), Cuenca (Ecuador), Liuyang National Economic & Technical Development Zone, Wuyi County of Zhejiang Province, China Railway Real Estate Group, Vanke, Country Garden, Mission Hills. Some of them have also been on the list of IGMC pilots.



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Expert committee

IGMC Expert Committee is mainly composed of well-known experts and scholars in related fields. It provides technical support for the promotion and development of IGMC initiative and standards, and offers services for IGMC VIP members and partners. Its main responsibilities are: to improve the IGMC standards and technical strategies, participate in organizing IGMC training, seminars and other activities, verify IGMC assessment and certification data, provide advisory services for IGMC VIP members and pilot projects, and conduct IGMC-related research projects.



Serge Salat

President, Urban Morphology and Complex Systems Institute, Paris, France, Leading Expert of International Green Model City Standards 3.0



Warren Karlenzig

Senior Sustainability Expert, founder and president of Common Current, based in San Anselmo, USA



Wang Dehui

Former Deputy Director-General of the Nature and Ecology Conservation Department, SEPA & Director of China Office for "Implementation of the Convention of Biological Diversity"



Xu Zongwei

Vice Chairman of the Architects Regional Councial Asia, Vice Chairman of the Architectural Society of China



LU Haifeng

Secretary General of Global Forum on Human Settlements (GFHS), President of Better City Institute



Hou Baizhen

President of APCE Design Group, Professorial and Senior Urban Planner, Proprietor of Urban Planner Magazine



Curt Garrigan

Chief, Sustainable Urban Development Section at United Nations Economic and Social Commission for Asia and the Pacific



Craig Pekins

President & Executive Director of the Energy Coalition, USA, Former Director of Environmental and Public Works Management in the City of





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Part III: IGMC Online Assessment and Certification System www.igmci.org







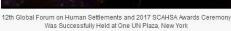


Assessment

Experts

Pilots







11th Global Forum on Human Settlements Was Successfully Held in Quito Ecuador



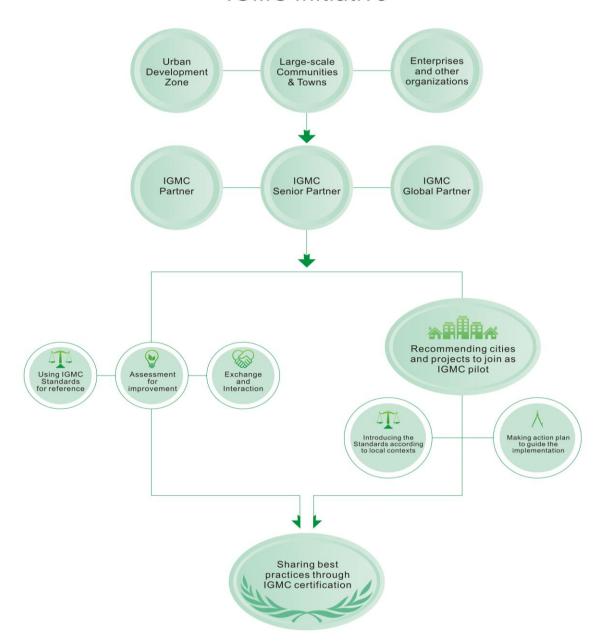


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Making Assessment and Certification, Collect and Analyze Data

(GMC	Search	Q & My Center Logout	f (中文~)	
Home About News VI	Ps Assessment Certification	Certified Experts Pilots		
	Assessment			
Total 6 Dir	IGMC Rating Systems- City Version mensions, 18 Categories, 112 Indicators (32 man			
Dimension 1. Spatial Planning	and Development			
1 Sustainable Spatial Planning & Desig	gn			
*X1.1. Integrated planning across scales ar	nd sectors applied			
	ent geographical scales in the urban development increa change. It provides a platform for the formation of comm		and helps	
Yes No	Either-or, The same below			
1.2. Enforcement of an urban growth bound	lary			
An urban growth boundary means that the curban form and leads to better environmenta	city is regenerating and redeveloping by infill instead of call and economic performance.	extending outwards, thus having a more sus	stainable	
Yes No				
1.3. Annual growth rate of the urban footprin	nt is % Please fill in the exact data in the	he box; the same below		
exacerbating or creating traffic congestion a	rea) can have a negative impact on the surrounding env and inadequate access to utilities and other public servic III-up area for current year; A2 is total built-up area for p	ces. The formula to estimate annual growth re	rate of the	
1.4. Population density in build-up urban are	ea is people/km², in urban center is p	people/km²		
Promoting high density urban growth, allevia	ates urban sprawl and maximizes land efficiency.			
1.5. The job-resident ratio (the number of pe	eople employed divided by the number of residents) is	% over every commuting district		
	atial area that is no more than 15 km2. A high job/resider as to local people, greater inclusiveness and reducing tr		uction and	
1.6. Percentage of population and jobs withi	in 800 meters to transit is respectively	%		
Accessibility to transit for people and jobs is	s key to high transit modal share with associated sustain	nability benefits		

Procedures for Joining IGMC Initiative







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THANK YOU. SCAHSA! 👑 💥





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