Urban Wellbeing

-Urbanization in Japan-

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Comprehensive well-being urbanization can be advanced by technology & system implementation combined with proper regulation setting



Emerging issues in Japan

- 1: Saturation of economic growth
- 2: Super aging society(>75Y, 10→20% in 2030)
- 3: Low fossil fuel and material resources
- 4: Sustainable, safe & secure electric source
- 5: Global environmental problems
- Japan is facing these issues ahead of the world.
- Urban development and regeneration should be advanced under consideration of these issues.

Population and GDP in Japan (1870 - , 1913=100)





Station staffs pushed passengers into a train during rash hour at Shinjuku Station (1970)

Lorenz curve of population /income



Ratio of Per Capita Income of High and Low 5 Prefectures in Japan



Statistics by Japanese cabinet office



Population migration to three metropolitan areas

Resource: 2012 Population Census (by Ministry of Internal Affairs and Communications, Statistics Bureau)

Reduction of CO2 emissions by changing to tower building system



Future image of center of Tokyo

New city of autonomously connecting to business, residence, scientific activity, governance/administration, and leisure area with high safety and security



Integrated flexible // transportation system

Attractive underground space with various facilities

Atago Green Hills in Minato ward of Tokyo (Area; 20km², Population; 200,000, 1M in day time)



Ark Hills



Increase of Land Price of Tokyo by Value –added Development



Year

Ratio of land price based on 2004 value

Picnic along Sumida river in old Tokyo Japanese print painted by Utagawa Toyoharu (1735- 1814)

向島行楽図 歌川豊春



Japan overcame environmental pollution by new technology & proper regulation

1967



http://www.env.go.jp/policy/hakusyo/zu/eav11/eav11000000000.html

Enjoying a night cruse Ckomiyama

Sumida river running downtown Tokyo.

Expansion of DID in Tokyo area by new city construction with railway network development



(DID: Densely Inhabited District)

Kashiwa under development to a smart city

*Aerial photo of the site combined with CGIs of 148th Block and Park City 2nd Town



Green innovation

Yokkaichi city

(Petrochemical complex)

Proper combination of regulation & technology level

1950s



Present



©Yokkaichi City

http://www.city.yokkaichi.mie.jp/kankyo/kogai.htm

Beyond pollution control, Revive forests, Revive ocean !



Japan overcame environmental pollution. Kitakyusyu has become cleaner & will be a low carbon city



Ckomiyama





Sky with twinkling stars, 110 kinds of fishes

Low-carbon model district in Kitakyusyu



Comparison of electric power consumptions in 2010 and 2011 after 3.11 (in TEPCO grid, weekday)



Conclusion

Urbanization toward well-being society in Japan was explained.

Balanced development from social, economic and environmental perspectives are important for well-being urbanization.

Society suffering from aging, low economic growth, old infrastructure etc. can be reconstructed by green, life and ICT innovation.