

# How to properly plan and implement SDG 11 to make sustainable cities meet their real purpose: Analysis Based on COVID-19

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# Executive Summary

## Research purpose

- This research takes COVID-19 as the background, and its purpose is to correctly plan and implement SDG 11 so that sustainable cities can achieve their actual goals.

## Methods

- Secondary data research

## Outcome

- The planning and implementation of SDG 11 should not be limited to one-sided indicators.
- Decision-makers need to adjust to the actual situation.
- Science and technology and green building are indispensable for the development of SDG 11.



# Literature review

## Challenge

- COVID-19 first broke out in megacities where SDG 11 has been implemented as a development goal, such as New York and Wuhan.
- High density population and transportation are the main characteristics of megacities.
- Population aggregation, urban sustainability and virus disaster have become in a contradictory situation.
- It seems that cities implementing SDG 11 do not have sustainable defence systems.

## Wrong direction

- Main purpose is to develop economy.
- Only focus on one indicator.



# Discussion and Findings

## Disadvantages of independent pursuit of indicators

- A single pursuit of SDG 11 lead to conflicts between SDG 11's internal goals

## SDG 11 planning and implementation need to adapt to local conditions

- The advantages of population aggregation
- Science and technology
- Green building



# Discussion and Findings

## Disadvantages of independent pursuit of indicators

- A single pursuit of SDG 11 lead to conflicts between SDG 11's internal goals
  - Reducing disaster losses (COVID-19) and improving urban efficiency (increasing the degree of aggregation)

### A. The population is highly concentrated

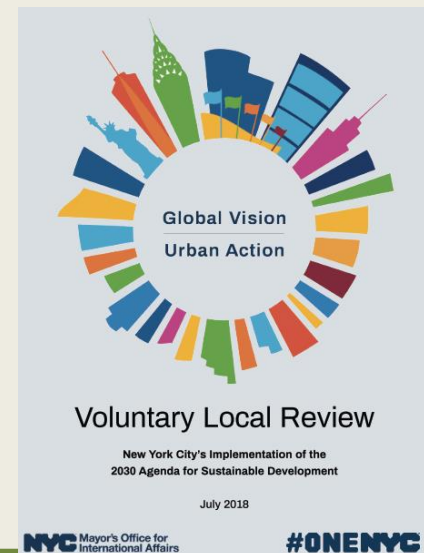
The cities that broke out first : Wuhan, New York

### B. Uneven distribution of social resources

New York pays more attention to housing index planning.

-Ignore the allocation of medical resources and green space.

-There are problems in the management of transportation tools.



(The City of New York, 2018)



(New York subway, 2020)



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# Discussion and Findings

## SDG 11 planning and implementation need to adapt to local conditions

--- Does rapid economic growth bring about good social services?

- The advantages of population aggregation
- Science and technology assist in the planning and implementation of SDG 11
- Green building promotes the achievement of SDG 11



# Discussion and Findings

## The advantages of population aggregation

- Hong Kong COVID-19 has the slowest propagation speed. Wuhan is now under good control.
- Reasonable information disclosure, effective tracking of virus infection sources, and prevention of virus spread.
- Logistics and delivery service
- Reasonable medical resource allocation: Wuhan---Mobile cabin hospital.
- Timely control of traffic



(JD.com's "Unmanned Delivery" Robots Assist Wuhan's Hardest-hit Area, 2020)

# Discussion and Findings

## Science and technology assist in the planning and implementation of SDG 11

- Implement low-cost prevention and control strategies, the cost of losses is more serious.
- Scientific services according to the concept of SDG 11

### China as a case

- Online medical services and provide free online consultation
- Application of artificial intelligence in medical image recognition, mobile disinfection, prescriptions, temperature measurement and other field
- COVID-19 health code apps





# Discussion and Findings

## Green building promotes the achievement of SDG 11

- Green building can adapt to the natural environment of each city, and automatically adjust the energy according to the changes of the current environment.
- Green building plays an active role in preventing and controlling COVID-19 (GBRI, 2020) :
  1. Increase ventilation.
  2. Provide basic functions of epidemic prevention.
  3. Provide convenience for epidemic prevention.
  4. Reduce the risk of infection.
  5. Enhance residents' health and immunity.

# Discussion and Findings

## Cases of planning and implementing SDG11 in the local context

- Management measures based on property management in China

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(Wuhan: community life in the fight against the COVID-19, 2020)

# Discussion and Findings

## Cases of planning and implementing SDG11 in the local context

- Establish resource information sharing channels

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(China Mobile launches community service solutions, 2020)

# Conclusion

- In the event of an emergency such as COVID-19, SDG 11 planning and implementation cannot focus solely on ensuring economic growth and blindly pursuing indicators.
- Reasonable planning and implementation of SDG 11 further promotes technological innovation.



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# Thank you

