

# Implementation of 2000WSC Initiative



**Government to Government Contracts**  
 Financed by federal funds



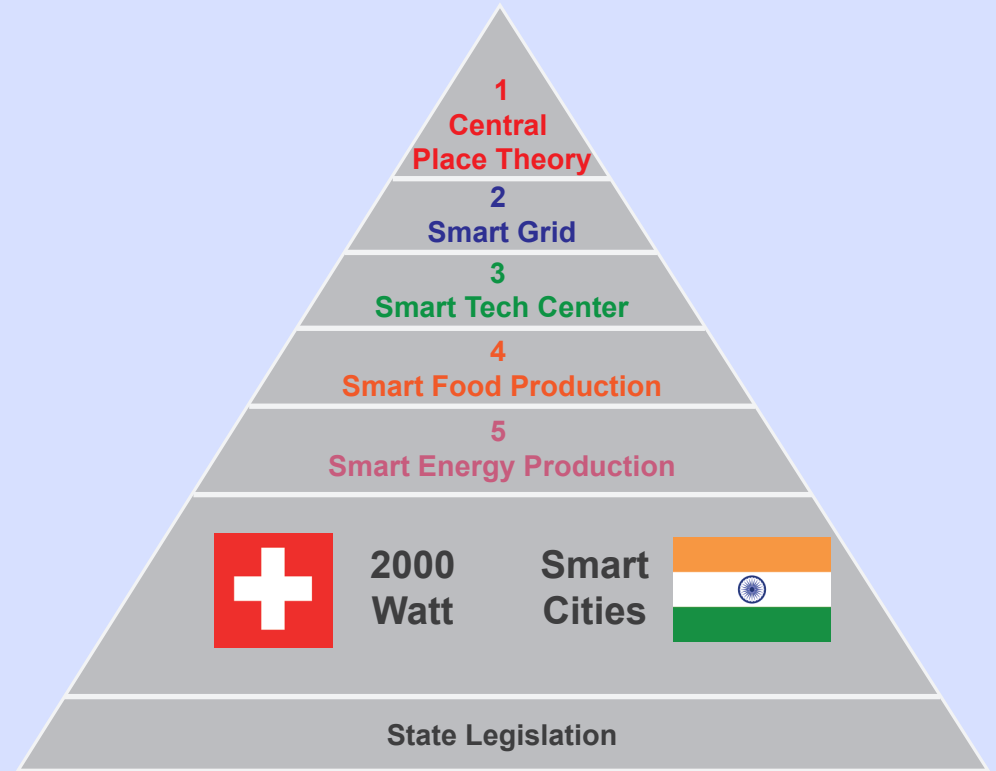
**Public-Private-Development Partnership**  
 Financed by green bonds and State funds



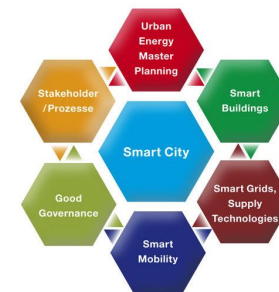
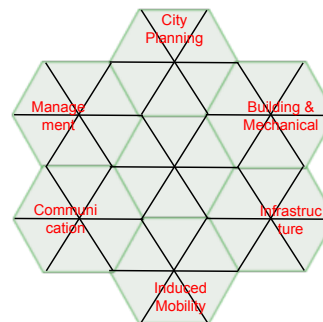
**Special Purpose Vehicle for individual townships**  
 with para-governmental guidelines and democratic,  
 public management.  
 Financed by sale of building land

legal & financial

# 2000-Watt-Smart-Cities in India



## Sustainable Urban Planning for a Carbon Neutral Future



Vision

# 10 steps to comfort & health

## 1. For a greener better World

## 2. 2000 Watt Smart Cities

The City of the Future is a 2000 Watt Smart City

It is built upon the foundation of the 2000 watt society and the guidelines for Smart Cities

5 Guidelines principles must be fulfilled for a city to become carbon neutral

## 3. 5 Preconditions

1. Central Place Theory
2. Smart Grid
3. Smart Tech Centers
4. Smart Energy Production
5. Smart Food Production

- Existing cities on their way of transforming to carbon neutral 2000 Watt Smart Cities can be certified. At each level...??? They combine maximal use of local resources with minimal exploitation and environmental impact, giving maximal comfort that is required in 21st Century.

## 4. Center Place Theory

- The urban concept of a 2000 Watt Smart City combines the Center Place Theory, the City Web Theory and Cluster Theory of Zwischenstadt.
- Centrality, Density and mixed use define not only the «Landscape footprint» but also it's «carbon footprint». By its own principles, the 2000 Watt Smart City goes far beyond more urban planning. It includes sustainability and technology.
- It differentiates hierarchy levels of nodes of high density and allocates approximate functionality to each level.
- Primary nodes contain all functions necessary for growth and prosperity of the states' inhabitants
- They are qualified to cover all needs: cultural, political, commercial, social

## 5. Smart Grid A

A grid-city consists of nodes, fields and connections.

The nodes come in different sizes and differing functions:

- Primary nodes (cities) fulfil all functions their inhabitants may request
- Secondary nodes (towns) fulfil periodical and daily needs
- Tertiary nodes (townships) allow their inhabitants to function in their daily life without requiring motorized transportation

## 6. Smart Grid B

Connectivity is the bloodstream of the 2000-Watt-Smart-City. The unrestricted flow of people, of good, of information and of energy is essential for each township to prosper. Today we command new technologies which allow energy-efficient and comfortable means of transport. It is true, technology 4.0 will further expand today's potential for solutions beyond

Strategy

our expectations. But even then: It is not truly smart to find expensive, high-tech solutions to problems, but rather to avoid the problem in the first place. We favour "no tech before low tech before high tech" to make 2000-Watt-Smart-Cities affordable.

Tertiary nodes are self-sufficient decentralised, resource efficient locations, flawlessly communicating with each other.

## 7. Smart Tech Centers

Each 2000-Watt-Smart-Township shall be economically self-sufficient. This requires a finely balanced user-mix. Commerce and industries will settle between townships and contribute to the tax substrate. Productivity is essential to the success of 2000-Watt-Smart Townships, Towns and Cities.

## 8. Smart Food Production

Each 2000WS-Township / Tertiary node will have its own identity and focus:

More rural townships may champion more agricultural and energy focused production, more urban townships will feature more offices, higher-education, or cultural functions.

These farms will be tightly connected to their respective 2000-Watt-Smart-Townships not only by producing local green energy but also by feeding the local population. The value chain from the field to the table will be controlled and optimized by block-chain technology. This allows a higher income for the farmers, fresher and cheaper nutrition for the locals, and overall less waste.

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## 9. Smart Energy Production

Energy production of 2000-Watt-Smart-Cities is carbon free, mostly solar energy production – wherever possible combined with farming; giving a new meaning to the word "solar farms".

Because energy consumption and induced mobility utilize locally-produced green energy, 2000WSCs can become carbon-neutral despite the imbedded energy inevitably needed to construct these townships.

## 10. Conclusion

The Carbon neutral 2000-Watt-Smart-City Approach is the ambitious path to achieve Paris COP-21 agreement to reach sustainability for an entire state, a region, a town, villages or townships.

## Certification & Label

2000-Watt-Smart-City guidelines are the regulatory framework in line with Smart City Guidelines of both Swiss and Indian governments.

They control and certify the mechanism which shall attract sustainable finance such as green bonds for economic development and will lead to a greener, better world.

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