

# **Sustainable Cities**

## **Use and difficulties of standards**

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## **Standards Why ?**

- **Methodology to guide actions**
- **Do'nt reinvent the wheel in a complex world**
- **To be able to measure and to compare the results.**
- **To allow cooperation and sharing of knowledge.**

## **Difficulties**

- **Situations in different countries need different approaches**
- **Sustainable development goals are the same for all countries but their level of fulfillment will be different**
- **The central goverment has to determine what is acceptable in each internal territory and the balance between them**
- **Local goverments need cooperations at least with the national level**

**ISO 37101 is standard of management**

**ISO 37120 is more ambitious : it involves 17 SDG and creates needs of cooperations**



# SUSTAINABLE DEVELOPMENT GOALS

**1** NO POVERTY



**2** ZERO HUNGER



**3** GOOD HEALTH AND WELL-BEING



**4** QUALITY EDUCATION



**5** GENDER EQUALITY



**6** CLEAN WATER AND SANITATION



**7** AFFORDABLE AND CLEAN ENERGY



**8** DECENT WORK AND ECONOMIC GROWTH



**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**10** REDUCED INEQUALITIES



**11** SUSTAINABLE CITIES AND COMMUNITIES



**12** RESPONSIBLE CONSUMPTION AND PRODUCTION



**13** CLIMATE ACTION



**14** LIFE BELOW WATER



**15** LIFE ON LAND



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



**17** PARTNERSHIPS FOR THE GOALS



**ISO 37101 : How it works ? We shall examine a concrete case of building a project having in mind all the goals of 37120**  
**SDG :**

**Case study 1 : Rural area with a vocation of tourism**



**Employment Creation of JOBS.**

**ROAD:** Creation, operation and maintenance of roads « owned » by the agglomeration

**ECONOMIC** development, tourism

**EDUCATION** insertion by activity, capacity building

**LAND PLANNING**

**PORTS** ( leisure and freight )

Management of **WATER** , prevention of **FLOODS**

and protection **against the SEA**

**CULTURE:** theatre, multi media library, music , dance,

open-air activities, swimming pools...

**HOUSING** and social housing

**INCLUSION** of homeless population



### 1st ideas :

**Employment   Creation of JOBS.**

**open-air activities, swimming pools...**

**ROAD: Creation, operation and maintenance**

**ECONOMIC development, tourism**

### 2d ideas

**EDUCATION insertion by activity, capacity building**

**PORTS ( leisure and freight )**

**Management of WATER, prevention of FLOODS  
and protection against the SEA**

**LAND PLANNING**

### 3d ideas

**CULTURE: theatre, multi -media library, music ,  
dance,**

**INCLUSION of homeless population**

**HOUSING and social housing**



**1st Ideas : 4 SDG**

**2d Ideas : 5 SDG**

**3d Ideas : 2 SDG**

**SDG 16 and 17 Management**

**SDG left to other responsibilities**



**Cooperation need to be active with State or Region on these SDG**



**In other case studies (dense areas in large metropolis, less developed countries ... ) priorities will be different and they will need other types of cooperation**

**At the moment, a simplified analysis is made on the website <http://www.dataforcities.org/publications/> managed by Prof. Mc Cartney, Toronto Universities. This work, launched in 2014 is based on 100 indicators, provided by 77 cities or territories. Data are certified and can be used to compare the quality of urban services available. There is only 1 Chinese city in the data base and no French cities.**



**A new version of ISO37101 has been decided in 2018 but is not yet published. Its aim is to help territories to use the standards as an instrument to develop projects and not only to choose the best country to live. There is different ways of life, the large majority of human people will live in the country where he is born, except if it is no more possible.**

**International cooperations: 48 pilot Cities (including French and Chinese cities ) have launched studies about ISO 37101. French participants Rennes Métropole, Versailles Grand Parc**

**A project has been launched in the frame of CICE (see bibliography) to analyse jointly the application of both standards ISO37101 et ISO37120 by 2 cities : 1 in France and 1 in China.**

## **Bibliography**

**Programme des Nations Unies pour l'environnement**

**[https://fr.wikipedia.org/wiki/Programme\\_des\\_Nations\\_unies\\_pour\\_l'environnement](https://fr.wikipedia.org/wiki/Programme_des_Nations_unies_pour_l'environnement)**

**List of Sustainable Development Goals**

**<http://www.undp.org/content/undp/en/home/sustainable-development-goals.html>**

**Partner Ship between TONGJI and UNEP : A MOU was signed in 2012 to continue collaboration and to make more efforts in favor of UNEP-Tongji Institute for Sustainable Development (IESD) to develop its education and research programs.**

**<http://en.tongji.edu.cn/index.php?classid=68&newsid=134262&t=show>**

**Education : International Campus towards an Ecological Civilization**

**<http://www.civilisationecologique.org/en/>**



