'Launch of the City Profile for Goris" 11 September 2017, Yerevan, Armenia





# USC and the process of the Smart Sustainable City Profile for Goris

### **Domenica Carriero**

Housing and Land Management Unit Forests, Land and Housing Division, UNECE



# The process towards a smarter and more sustainable Goris - timeline

- April 2014: launch of the «United Smart Cities» project
- December 2014: elaboration of the UNECE Smart Cities Indicators
- February 2015 Reasearch mission in Goris and testing of the indicators
- April 2015: Sharing of preliminary results
- September 2016: Updating of the KPIs and new test for Goris
- September 2017: launch of the Smart Sustianbale city Profile for Goris

## **United Smart Cities (USC)**





United Smart Cities is a program which aims at addressing the major urban issues in sustainable development and its financing in medium-sized cities in particular in countries with economy in transition

Launched in April 2014



## Starting point: smart city definition



"A smart sustainable city is an innovative city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social and environmental aspects as well as cultural." (UNECE & ITU, 2015)









































# Starting point: KPIs for smart sustainable cities

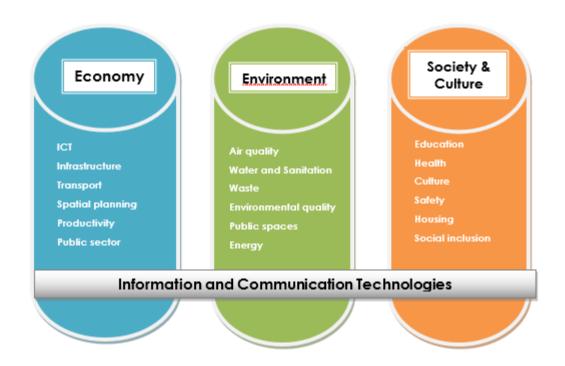




- Developed by a consortium of organizations (2015-2016)
- Uniqueness: address smartness and sustainability of a city
- Support the localization of SDGs

## **Approach**

3 main dimensions18 topics72 indicators (core & additional)



# The stakeholders consultation and the pyramid approach



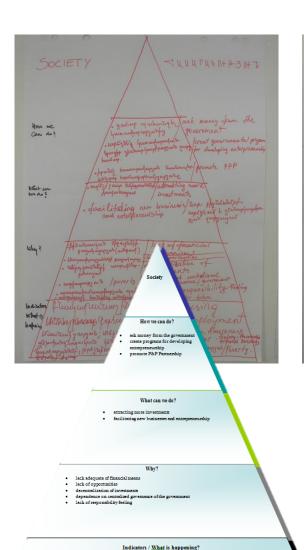
- Stakeholders divided in 3 groups
- To generate ideas and initiatives that will inspire people to get involved
- To engage people and invite them to share their opinion in an informal environment



### The final results for Goris







Needs for social housing for needy households High level of unemployment Insufficient level of awareness, participation rehabilitation center building, a historical high

lack of adequate skills, trainings Great number of aged people (aging society)

\* national Llake Act for water supply + treatment Plan Financing Hoste: . illegal wate dumping (1) only crossic Frohuster: Gois new. municipal dump site is not Nate water becoment lacking & Vararak inter · yate burning (A)+(3) investments nutrification (organic pdl.) (9K5) Shally invotes (2) internal + outareness's education · drinking water . safe Southern Anion dos 

- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Anion dos 
- Southern Ani The sures + new regulation to investigat control system
(1) Basic water system + plan t education of water (recycling) - notional problem (3) THE Landfill (2) icconstruction of did pork + new ones (4) econstruct flood control facility todats
(5) econstruction of actual tector (6) the

Reg discognish fields (A) Risk Hote quality replace of open public areas pr Environ y improvement of waste tredm (A) Flooding Indicates Separate (Colone) CHG salut to Cons As collutarity only in neighbour cities The armost of broad exceed once la sociato How we can do? Plan / Financing sealing (built up area to a (1) only organic pollution, simple system (1) + (3) investments (4)±(5)+(6) smaller investment (2) internal + awareness & What can we do? New regulation / directive / control system

Why? Key development fields (1) giver water quality
(2) lack of green public areas (parks)
(3) improvement of waste treatment and dumping
(4) flooding
(5) cultural heritage is in danger (6) lack of monitoring points (air pollution and biodiversity)

### Indicators / What is happening?

Climate (regional) / GHG emissions / quality Air pollutants only in neighbor cities The amount of forest covered areas "deforestation" Soil sealing (built up area) 40 km roads, no data Green areas only private gardens, lack of public green areas

. Training of staff . Mr. Rockefeller / Morgan · advartising (day of Govis) · Land/building for SME . Science bayed in looking
. effort to be technologies to improve in knowled be
. information configuration of the contraction tourism · Light undustries (electromechanie, clothes/tertic) IT-Infrastructure elight industries (electron actions, flund protection in infractive cluve (worker, can later , flund protection in an argument of transport [street, popul to margaret across of the control of the contr Solid Worle Lightenine · number of SME (1200 regulad) · unemployment of young peop 130 years advertising (day of Gogle), etc... land / building space for SMEs science based affordable technologies to improve in finatructure support tourism&II, sector (tourism

- not sufficient investments (state and private sector) not functioning of existing industries (light industr
- elethes / textile)
- inadequate infrastructure (water, sanitation, flood protection and control

- number of SMEs (1,200 registered unemployment of young people < 30 years

### Goris: main issues





#### Economical perspective:

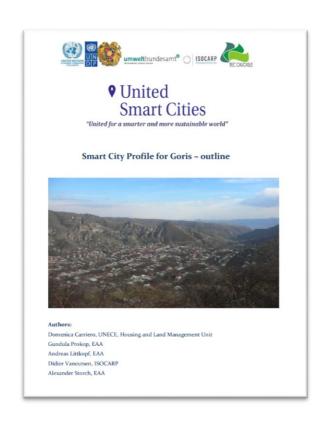
- Centralisation of investments in the capital
- Dependence from the central government
- Demise of 'light' industries in the last decades and few operating SMEs
- Weak performance, inspection, maintenance and bad quality of some infrastructures (water distribution system, streets, etc.)
- Weak infrastructure for information and communication technologies (ICT)
- High costs for energy for households and enterprises

#### Environmental perspective:

- Pollution of the riverbed
- Lack of a waste water treatment
- Depletion of biodiversity
- Frequent floods and lack of flood protection and control systems
- Private and municipal landfills
- Solid waste management (damaged containers, no sorted waste collection, littering reduction and backyard burning)

#### Socio-cultural perspective:

- Lack of financial mechanisms
- Feeling of uncertainty and lack of opportunities
- High level of unemployment
- High migration
- Lack of recreational and sport facilities
- Lack of infrastructure for vulnerable groups
- Lack of skilled personnel





# Thank you for your attention!

### **Domenica Carriero**

Housing and Land Management Unit, UNECE Email: domenica.carriero@unece.org

Tel.: +41 (0) 22 917 16 72

Website: www.unece.org/housing

Follow us:

**@UNECE Housing and Land Management** 





