SyC Smart Cities 2nd Plenary meeting in Tokyo, February 2017

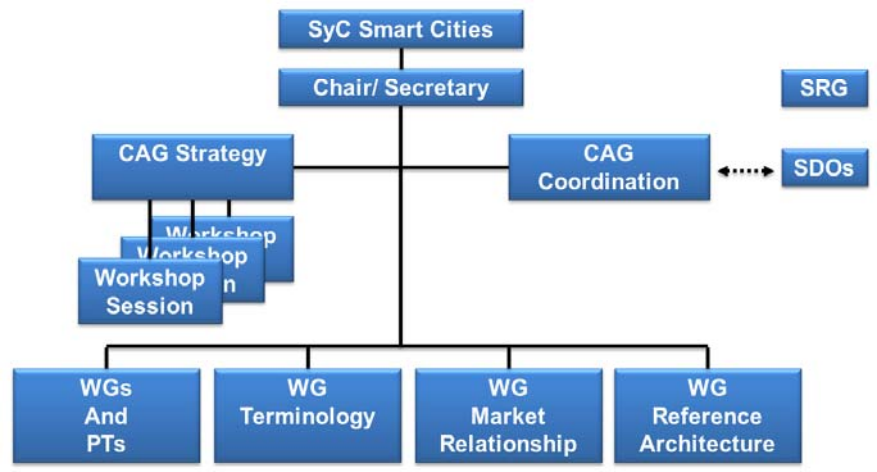
Shuji Hirakawa 2017-05-17, Singapore

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SyC Smart Cities 2nd PL meeting

- SyC Smart Cities Meeting 2 held in Tokyo (JP), on 2017-02-17
- WG1, WG2, WG3 and CAG1/2 had their meetings also in Tokyo before the 2nd PL meeting

Organization of SyC SC



3 TC100/AGS 2017/5/17

	Wed 15 Feb.		Thu 16 Feb.		Fri 17 Feb.
	AM	PM	AM	PM	All day
WG 1		15:15-17:15	-	-	-
WG 2	9:30-12:00	-	-	-	-
WG 3	-	13:00-15:00	-	-	-
CAG 1 & 2	-	17:30-19:30	-	-	-
Workshop on "Systems approach"	-	-	9:00-12:30 Registration starts at 8:45	-	-
Workshop on "Smart City needs"				13:30-17:00	-
Plenary	-	-	-	-	9:30-17:00 Registration starts at 9:00

4 TC100/AGS 2017/5/17

3 Vice-Chair nominations

- Dr Sun Wei CN
- Mr Michael Mulquin GB
- (Decision 2017-02/02):
  The SyC Smart Cities nominated
  Ms Sun Wei as Convenor for the CAG Coordination and
  Mr Michael Mulquin as Convenor for the CAG Strategy

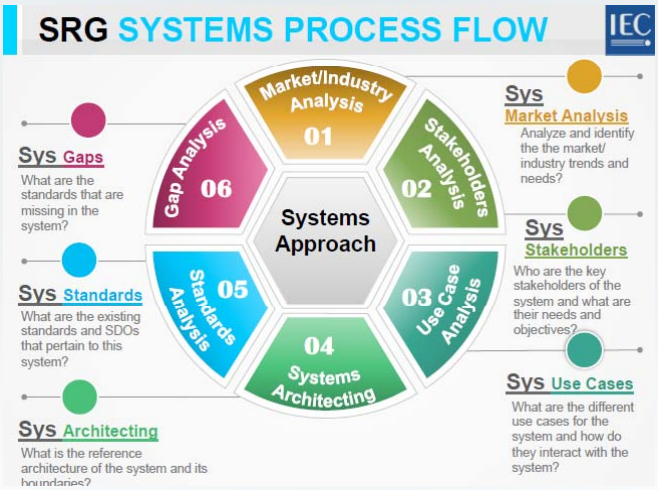
5 Target of SyC SC activity

(Decision 2017-02/03):
SyC Smart Cities Objectives:

1. Engage with city stakeholders to identify common needs and pain points and best practices and use these to develop electrotechnical standards that provide real value to cites
2. To provide global electrotechnical standards as practical evaluation frameworks to enable fair competition and appropriate deployment of resources by city stakeholders

Method: Joint work and adoption of SRG methodology

Adopt as a working method & adjust it for SyC SC's systems approach



6 Debriefing on the Systems approach workshop

The Chair summarizes the outcome of the Systems approach workshop where were analysed the processes

A. Needs analysis
B. Stakeholder analysis
C. (High level) use case analysis

These processes have evidenced the factors

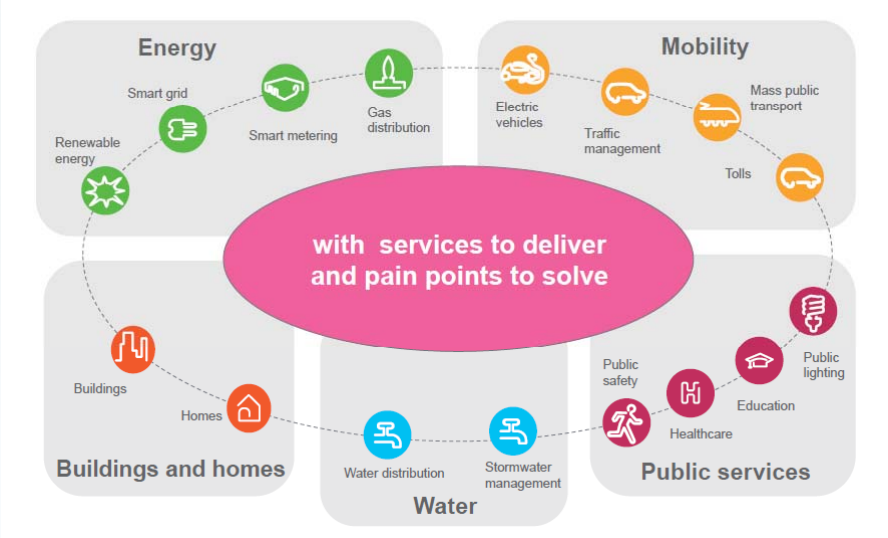
1. Collaboration
2. Iterative
3. Traceability

The key pillars for Smart Cities

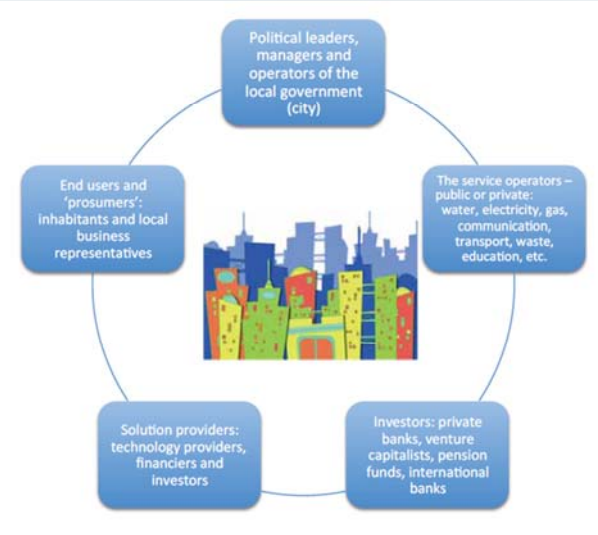
- Economic sustainability
- Social sustainability
- Environmental sustainability

(Reference to Smart Cities White Paper)

City needs



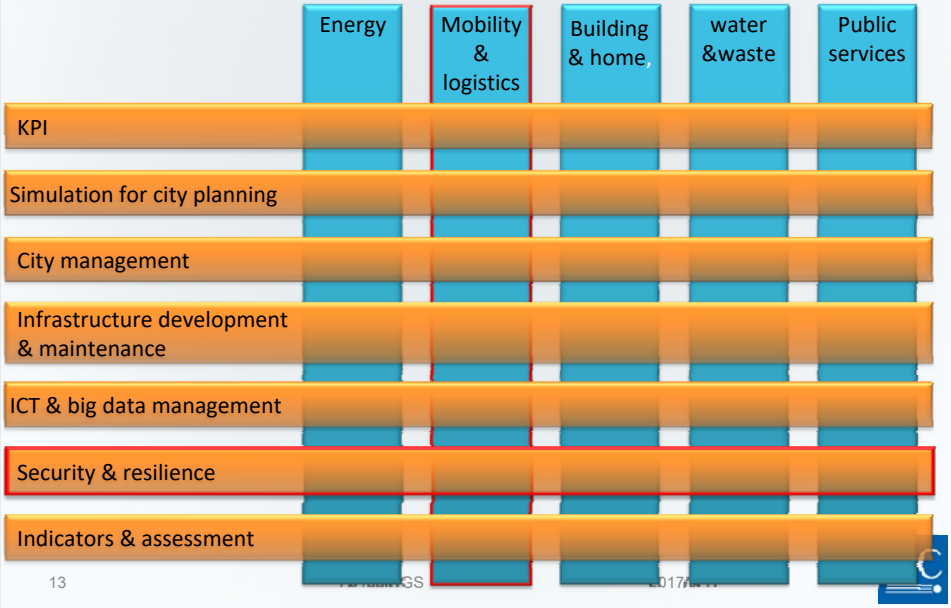
Stakeholder analysis



CGA strategy's approach using work session activity

	Energy	Mobility & logistics	Building & home	water &waste	Public services
KPI					
Simulation for city planning					
City management					
Infrastructure development & maintenance					
ICT & big data management					
Security & resilience					
Indicators & assessment					

Let's select "top runner" and prepare our priority roadmap based on the proposal of CAG strategy



7 WG and CAG activity reports

7.1 Report of WG 1, Terminology

- **Mr Mulquin reported about the WG 1 meeting.**
- **ISO/TC 286 has just published a standard about Smart Cities terminology: ISO 37100**
- **WG 1 will review this standard and investigate how to complement it with electrotechnology terminology. Two options are possible, collaborate with ISO and develop jointly a second edition (ISO/IEC 37100) or develop an IEC standard referencing ISO 32100.**

(Decision 2017-02/04): Mrs Xiaomi An (China) is nominated Co-Convenor for SyC Smart Cities/WG 1.

WG 1 Terminology

- Develop and maintain a common set of terminology for the SyC
- Convenor: Mr Michael John Mulquin GB
  Co-Convenor: Mrs Xiaomi An CN
- 18 experts including myself

7 WG and CAG activity reports

7.2 Report of WG 2, Market aspects

Mr Biyu Wan reported about the WG 2 meeting

(Decision 2017-02/05): All Working Group conveners should have access to the collaboration tools for all Working Groups

(Conclusion from the Chair): WG 2 should make reference to the already existing use cases from SEG 1 and should process them through the standard template documented in IEC 62559-2. (Action to WG2 Convener)

WG 2 Market Relationship

- Identify the key aspects of a Smart City
- Collect and analyse use cases
- Electrotechnical aspect of smart cities simulation
- Road test standards in real cities
- Convenor: Mr Biyu Wan CN
  Co-Convenor: Mr Sicelo Xulu ZA
- 26 Experts

7 WG and CAG activity reports

7.3 Report of WG 3, Architecture model

Mr Kishor reported about the WG 3 meeting

WG 3 needs to collaborate with WG 1 and WG 2. The WG will focus on the following action items:

- Support to develop use cases with WG 2

- Smart City reference model in collaboration with WG 1

- 3D classifications

- Reference architecture

WG 3 Reference Architecture

- Develop and maintain a reference architecture model and standards mapping tool for smart cities in collaboration with the IEC Systems Resource Group (SRG)
- Convenor: Mr Narang Nand Kishor IN
  Co-Convenor: Mr Heng Qian CN
- 26 Experts

CAG 1 Strategy

Tasks of CAG 1 Strategy:

- Roadmap for SyC Smart Cities
- Gather roadmaps from the TCs and SDOs engaged
- Maintain relationship and information exchange with users of the standards (city stakeholders)
- Develop and maintain the Strategic Business Plan (SBP) of the SyC
- Discuss and propose the future structure for SyC Smart Cities

- Vice Chie / Convenor: Mr Michael John Mulquin GB
- 10 Members including myself

CAG 2 Coordination

Tasks of CAG 2 Coordination:

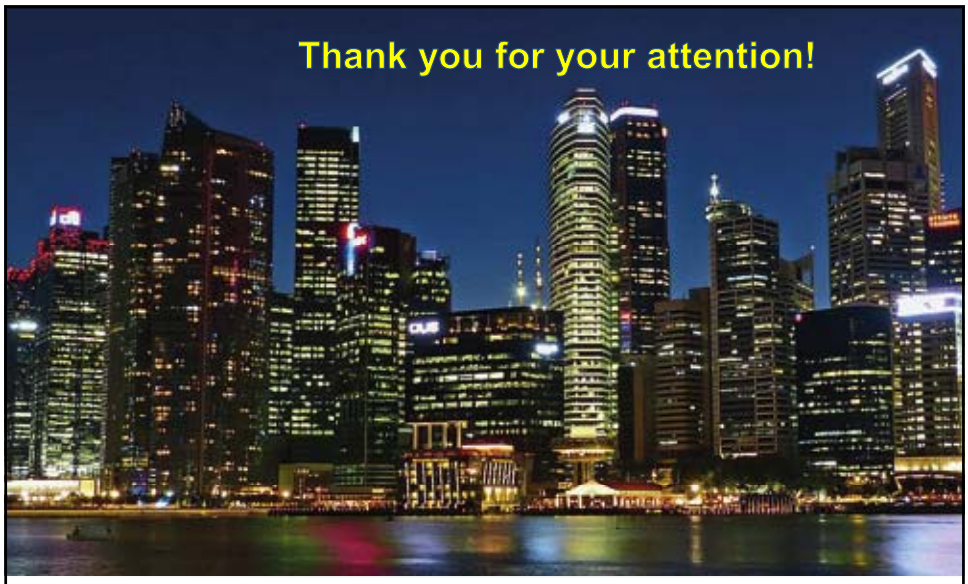
- Collaboration platform for the (ISO/IEC/ITU) TCs and other SDOs
- Harmonize work in the scopes “gray zones” between the SDOs
- Analyze gaps, and overlaps of work and overlap of standards
- Management of the work inside SyC Smart Cities
- Agreeing on necessary work items for SyC Smart Cities and related TCs
- Electrotechnical aspect assessment of smart cities

• Vice Chair / Convenor: Ms Wei Sun CN
• 10 Members including myself

8 Future plan

(Decision 2017-02/06): SyC Smart Cities agrees to hold WG meetings as proposed and thanks the Chinese NC for hosting the meeting

(Decision 2017-02/07): SyC Smart cities will hold its next meeting in Germany, from 29 January to 2 February 2018



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