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JTC 1/WG 11 Business Plan 2021

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Description

This document is circulated for review and consideration at the November 2021 JTC 1 Plenary.

BUSINESS PLAN FOR ISO/IEC JTC 1/WG 11

Smart Cities

PERIOD COVERED: May 2021 – September 2021

SUBMITTED BY:

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1 EXECUTIVE SUMMARY

ISO/IEC JTC 1 WG 11 serves as the focus of and proponent for JTC 1's Smart Cities standardization program. JTC 1/WG 11 continuously recognized the urgent and emerging demands for standards regarding smart city and related new ICT to support city services and constructions.

JTC 1/WG 11 keeps pushing the standard projects forward and exploring the strategic topics on ICT Reference Architecture, Semantic Interoperability of City Data, Software Platform for Open City Data, City Digital Twin and Operating System, ICT applications in Public Health Emergency, Date Use in Smart Cities, City Knowledge Trustworthiness Evaluation, etc.

From May 2021 to September 2021, 1 virtual meeting in plenary mode along with 16 e-meetings were held at this period. Next virtual meetings in plenary mode will be held by the end of 2021.

During this period, 1 project is newly published, 1 project is from CD to DIS, 1 project is from WD to CD, working draft of 3 projects are continually updated. Besides, 3 PWIs was approved by JTC 1 and another 3 potential projects are being explored.

JTC 1/WG 11 also established 2 new AHGs about Unified Digital Infrastructure — ICT Reference Architecture and City Knowledge Trustworthiness Evaluation.

2 CONVENER'S REMARKS

2.1 Market Requirements, Innovation

Smart City is the only area in which technical committee or group is established in the main three international standardization organizations including ISO, IEC & ITU-T. These committees focus on different aspects of Smart City.

For JTC1, there are many ICT standards that could be used in a smart
City, including

- Hardware technology for data capture, including sensors and the Internet of Things
- Data capture & identification
- Data management
- Privacy
- Security
- ICT networks
- Software engineering, including application technologies, cultural &
- linguistic adaptability, programming languages
- IT service management

2.2 Accomplishments

In 2021, JTC 1/WG 11 keeps pushing the standard projects forward and exploring the strategic topics on ICT Reference Architecture, Semantic Interoperability of City Data, Software Platform for Open City Data, City Digital Twin and Operating System, ICT applications in Public Health Emergency, Date Use in Smart Cities, City Knowledge Trustworthiness Evaluation, etc.

During this period, 1 project is newly published, 1 project is from CD to DIS, 1 project is from WD to CD, working draft of 3 projects are continually updated. Besides, 3 PWIs was agreed by JTC 1 and another 3 potential projects are keep exploring.

2.2.1 Meetings

From May 2021 to September 2021, 1 virtual meeting in plenary mode along with 16 e-meetings were held at this period. Another 1 virtual meetings in plenary mode will be held by the end of 2021. 1 International Seminar on Data Use in Smart Citis will be held on October 14-15, 2021.

Table 1 Meeting list scheduled in 2021

No.	Date	Topic
1.	01/12	The first meeting for ad hoc group(AHG) on the revision of JTC 1/WG 11 Strategic white paper
2.	01/19	ISO/IEC 5087-1 "Information technology — City data model — Part 1: Foundation level concepts"
3.	01/21	ISO/IEC 5087-2 "Information technology — City data model — Part 2: City level concepts"
4.	01/25	ISO/IEC 24039 "Information technology — smart city digital platform"
5.	01/26	The First meeting of ad hoc group(AHG) for ISO/IEC PWI 5217 “Guidance on smart city digital infrastructure design”

6.	02/04	The first meeting of Task Force(TF) on Data Use in Smart City
7.	02/22	ISO/IEC 5087-1 "Information technology — City data model — Part 1: Foundation level concepts"
8.	03/02	ISO/IEC PWI 5217 “Guidance on smart city digital infrastructure design”
9.	03/05	The second meeting of Task Force(TF) on Data Use in Smart City
10.	03/12	ISO/IEC 5153 “Information technology — Smart City — City Service Platform for Public Health Emergency”
11.	03/19	TF of Pilot Implementation Programmes&Use Cases Study
12.	04/05	A temporary e-meeting to discussion the JNB proposal to restructure application domain WGs directly reporting to JTC 1(Ref: JTC 1/WG 11 N1027, JTC 1 N15266)
13.	04/08	AHG for ISO/IEC 5153 split
14.	04/09	The third meeting of Task Force(TF) on Data Use in Smart City
15.	04/19	The second meeting for ad hoc group(AHG) on the revision of JTC 1/WG 11 Strategic white paper
16.	05/05	ISO/IEC 5087-1 “Information technology — City data model — Part 1: Foundation level concepts”
17.	05/06	ISO/IEC 5087-2 “Information technology — City data model — Part 2: City level concepts”
18.	05/12	AHG for ISO/IEC 24039 title and scope update
19.	05/14	The forth meeting of Task Force(TF) on Data Use in Smart City
20.	05/19	AHG for ISO/IEC 5153 split
21.	05/20	the revision of JTC 1/WG 11 Strategic white paper
22.	06/14-06/17	JTC 1/WG 11 12th Virtual Meeting in Plenary Mode
23.	07/16	AHG 9 (Unified digital infrastructure-ICT reference architecture) Meeting 1
24.	08/04	ISO/IEC 5153-1 “Information technology — City service platform for public health emergencies — Part 1: Overview”
25.	08/13	JTC 1/WG 11/AHG 9 (Unified digital infrastructure-ICT reference architecture) Meeting 2
26.	08/25	Review of JTC 1/WG 11 TFs and AHGs
27.	09/08	ISO/IEC 5087-1 “Information technology — City data model — Part 1: Foundation level concepts"
28.	09/10	•ISO/IEC PWI 5153-2 “Information technology — City service platform for public health emergencies —Part 2: Response resource management”(ISO/IEC PWI 10311-2) •ISO/IEC PWI 5153-3 “Information technology — City service platform for public health emergencies —Part 3: Contact tracing”
29.	09/17	AHG 9 (Unified digital infrastructure-ICT reference architecture) Meeting 3
30.	09/20	AHG 5-the revision of “JTC 1/WG 11 Strategic White Paper”
31.	09/22	•ISO/IEC PWI 10235-4 “Information technology — City data model — Part 4: Service level concepts for public health emergencies” •Information technology—Data use in smart cities*(Add this topic)*
32.	09/23	AHG 10-City Knowledge Trustworthiness Evaluation
33.	10/07	ISO/IEC 5153-1 “Information technology — City service platform for public health emergencies — Part 1: Overview”
34.	10/08	•ISO/IEC PWI 5153-2 “Information technology — City service platform for public health emergencies —Part 2: Response resource management”(ISO/IEC PWI 10311-2)

		•ISO/IEC PWI 5153-3 “Information technology — City service platform for public health emergencies —Part 3: Contact tracing”
35.	10.13	TF 1 - City Digital twin and Operating System
36.	10.14-10.15	Virtual International Seminar on Data Use in Smart Cities
37.	10.19	TF2-Pilot Implementation Programmes and Use Cases Study
38.	10/21	•PWI “Information technology — Data use in smart cities — Part 1: Framework” •PWI “Information technology — Data use in smart cities — Part 2: Use case analysis and derived requirements” •PWI “Information technology—Data use in smart cities—Part 3: Measurement, evaluation and reporting”(ISO/IEC PWI TS 10267-3)
39.	10/22	AHG 9 (Unified digital infrastructure-ICT reference architecture) Meeting 4
40.	11/03	ISO/IEC 5087-3 “Information technology — City data model — Part 3: Service level concepts -Transportation planning”
41.	11/04	ISO/IEC 5153-1 “Information technology — City service platform for public health emergencies — Part 1: Overview”
42.	11/05	•ISO/IEC PWI 5153-2 “Information technology — City service platform for public health emergencies —Part 2: Response resource management”(ISO/IEC PWI 10311-2) •ISO/IEC PWI 5153-3 “Information technology — City service platform for public health emergencies —Part 3: Contact tracing”
43.	11/10	•PWI “Information technology — Data use in smart cities — Part 1: Framework” •PWI “Information technology — Data use in smart cities — Part 2: Use case analysis and derived requirements” •PWI “Information technology—Data use in smart cities—Part 3: Measurement, evaluation and reporting”(ISO/IEC PWI TS 10267-3)
44.	11/11	AHG 10-City Knowledge Trustworthiness Evaluation
45.	11/12	JTC 1/WG 11/AHG 9 (Unified digital infrastructure-ICT reference architecture) Meeting 5
46.	11/29-12/03	JTC 1/WG 11 13th Virtual Meeting in Plenary Mode

2.2.2 Projects

In 2021, 1 projects is newly published, 1project is from CD to DIS, 1project is from WD to CD, 3 PWIs were agreed by JTC 1.

JTC 1/WG 11 has totally initiated 17 projects in the domain of smart city. Status is updated as following.

Table 2 Projects

No.		Projects	Status
1.	ISO/IEC 30146:2019	Information technology — Smart city ICT **indicators**	Published
2.	ISO/IEC 21972:2020	Information technology — Upper level ontology for smart city **indicators**	Published
3.	ISO/IEC 30145-3:2020	Information technology — Smart City ICT **reference framework** — Part 3: Smart city engineering framework	Published
4.	ISO/IEC 30145-2:2020	Information technology — Smart City ICT **reference framework** — Part 2: Smart city knowledge management framework	Published
5.	ISO/IEC 30145-1	Information technology — Smart City ICT **reference framework** — Part 1: Smart city business process framework	Published

6.	ISO/IEC 24039	Information Technology — Smart city **digital platform**	DIS
7.	ISO/IEC 5087-1	Information technology — **City data model** — Part 1: Part 1: Foundation level concepts	CD
8.	ISO/IEC 5087-2	Information technology — **City data model** — Part 2: Part 2: City level concepts	WD
9.	ISO/IEC 5087-3	Information technology — **City data model** — Part 3: Part 3: Service level concepts -Transportation planning	WD
10.	ISO/IEC 5153-1	Information Technology — **City service platform for public health emergencies** — Part 1: Overview and general requirements	WD
11.	ISO/IEC PWI 5217	Information technology — Guidance on smart city **digital infrastructure** planning — Part 1: Overview	PWI
12.	ISO/IEC PWI 10235-4	Information technology — **City data model** — Part 4: Service level concepts for public health emergencies	PWI
13.	ISO/IEC PWI 10311-2	Information technology — **City service platform for public health emergencies** — Part 2: Response resource management	PWI
14.	ISO/IEC PWI TS 102 67-3	Information technology—**Data use in smart cities**— Part 3: Measurement, evaluation and reporting	PWI
15.		Information technology — **City service platform for public health emergencies** —Part 3: Contact tracing	Potential project
16.		Information technology — **Data use in smart cities** — Part 1: Framework	Potential project
17.		Information technology — **Data use in smart cities** — Part 2: Use case analysis and derived requirements	Potential project

2.2.3 TFs and AHGs

The status of TFs and AHGs in JTC 1/WG 11 is updated as below.

Table 3 TFs in JTC 1/WG 11

No.	Name	Convenor	Founding meeting and date (reference)	Status
TF 1	Task Force (TF) on City Digital Twin and Operating System	Mark Fox (CA), Yun Li(CN)	JTC 1/WG 11 6th Meeting in Plenary mode Toronto, Canada May 5-11, 2018 (*Ref: Recommendation 12, JTC 1/WG 11 N 0352*) ISO/IEC JTC 1/WG 11 E-meeting Aug 25th, 2021 (*Ref: Recommendation 2021-85, JTC 1/WG 11 N 1243*)	ongoing
TF 2	Task Force(TF) on the Pilot Implementation Programmes and Use Cases Study	Dapeng Zhang(CN)	JTC 1/WG 11 6th Meeting in Plenary mode Toronto, Canada May 5-11, 2018 (*Ref: Recommendation 14, JTC 1/WG 11 N 0352*)	ongoing
TF 3	Task Force(TF) on Data Use in Smart City	Xiaomi An(CN)	JTC 1/WG 11 11th Virtual Meeting in Plenary Mode December 14-18, 2020 (*Ref: Recommendation 19, JTC 1/WG 11 N 0914*)	ongoing

JAHG 1	Joint ad hoc group(JAHG) between JTC 1/WG 11 and ISO/TC 268	Mark Fox (CA)	JTC 1/WG 11 4th Meeting in Plenary Mode Southampton, UK Jun.19th-23rd, 2017 (*Ref: Recommendation 11, JTC 1/WG 11 N 0202*)	disbanded
AHG 2	Ad hoc group(AHG) on "Request for ISO/IEC 30145 Title Change and Project Restructuring"	Howard Choe (US)	JTC 1/WG 11 6th Meeting in Plenary Mode Toronto, Canada May 5th-11th, 2018 (*Ref: Appreciation, JTC 1/WG 11 N 0352*)	disbanded
JAHG 3	Joint Ad-hoc Group(JAHG) with IEC SyC Smart Cities (IEC/SyC SmC/JAHG5:Interdependencies between ICT and Electrotechnology in Smart Cities)	Howard Choe(SyC SmC), Heng Qian (JTC 1/WG 11)	JTC 1/WG 11 7th Meeting in Plenary Mode Sydney, Australia Jan 14th-18th, 2019 (*Ref: Recommendation 17, JTC 1/WG 11 N 0462*) JTC 1/WG 11 10th Virtual Meeting in Plenary Mode July 6-10, 2020 (*Ref: Recommendation 2, JTC 1/WG 11 N 0761*) Request to establish a Joint Ad-hoc Group between IEC Systems Committee Smart Cities and JTC 1/WG 11 *(Ref: JTC 1 N 15165)*	Ongoing
AHG 4	Ad-hoc Group (AHG) for ISO/IEC PWI 5217 "Information technology — Guidance on smart city digital infrastructure planning — Part 1: Overview"	Dapeng Zhang(CN)	JTC 1/WG 11 10th Virtual Meeting in Plenary Mode July 6-10, 2020 (*Ref: Recommendation 8, ISO/IEC JTC 1/WG 11 N 0761*) JTC 1/WG 11 9th Meeting in Plenary Mode Jinan, Shandong Province, China 2-6 December 2019 (*Ref: Recommendation 8, JTC 1/WG 11 N 0644*)	disbanded
AHG 5	Ad-hoc Group on the revision of the "WG 11 Strategic White Paper"	Heng Qian (JTC 1/WG 11)	JTC 1/WG 11 9th Meeting in Plenary Mode Jinan, Shandong Province, China 2-6 December 2019 (*Ref: Recommendation 12, JTC 1/WG 11 N 0644*) JTC 1/WG 11 12th Virtual Meeting in Plenary Mode June 14-16 and June 18, 2021 (*Ref: Recommendation 2021-39, JTC 1/WG 11 N 1176*)	ongoing
AHG 6	Ad-hoc Group(AHG) to review the role of guidance documents for the implementation of ISO/IEC 30145 (all parts), ISO/IEC 30146:2019 and ISO/IEC 21972:2019	Michael Mulquin (UK), Dapeng Zhang(CN)	JTC 1/WG 11 10th Virtual Meeting in Plenary Mode July 6-10, 2020 (*Ref: Recommendation 1, ISO/IEC JTC 1/WG 11 N 0761*) ISO/IEC JTC 1/WG 11 E-meeting Aug 25th, 2021 (*Ref: Recommendation 2021-80, JTC 1/WG 11 N 1243*)	ongoing
AHG 7	Ad-hoc Group(AHG) on review and discussion on the title and scope of ISO/IEC 24039 "Information technology — Smart city digital platform"	Yun Li(CN)	ISO/IEC JTC 1/WG 11 E-meeting Jan 25th, 2021 (*Ref: Recommendation 2, ISO/IEC JTC 1/WG 11 N 0950*)	disbanded

AHG 8	Ad-hoc Group(AHG) on split review and discussion for ISO/IEC 5153 "Information technology — Smart city — City service platform for public health emergency"	Yun Li(CN), Sangkeun YOO(KR)	JTC 1/WG 11 E-meeting March 12th, 2021 (*Ref: Recommendation 4, JTC 1/WG 11 N 1014*)	disbanded
AHG 9	ad hoc group(AHG) on Unified Digital Infrastructure — ICT Reference Architecture	Sujit Patheja(IN), Lavanya Nupur(IN)	JTC 1/WG 11 12th Virtual Meeting in Plenary Mode June 14-16 and June 18, 2021 (*Ref: Recommendation 2021-43, JTC 1/WG 11 N 1176*)	ongoing
AHG 10	ad hoc group(AHG) on City Knowledge Trustworthiness Evaluation	Yongchao Gao(CN), Junfeng Zhao(CN)	JTC 1/WG 11 12th Virtual Meeting in Plenary Mode June 14-16 and June 18, 2021 (*Ref: Recommendation 2021-47, JTC 1/WG 11 N 1176*)	ongoing
AHG 11	ad hoc group(AHG) to prepare gap analysis report and further study for the potential project "Information technology — City service platform for public health emergencies — Part 3: Contact tracing"	Sangkeun YOO(KR)	JTC 1/WG 11 12th Virtual Meeting in Plenary Mode September 10, 2021 (*Ref: Recommendation 2021-97, JTC 1/WG 11 N 1275*)	ongoing

2.3 Resources

Up-to-now, JTC 1/WG 11 have totally 165 registered members from 29 countries, and 12 incoming liaison representatives and 17 document monitors.

Australia (SA)	Austria (ASI)	Belgium (NBN)	Canada (SCC)	China (SAC)	Denmark (DS)
Finland (SFS)	France (AFNOR)	Germany (DIN)	India (BIS)	Ireland (NSAI)	Israel (SII)
Italy (UNI)	Japan (JISC)	Korea (KATS)	Luxemburg (ILNAS)	Malaysia (DSM)	Mexico (DGN)
New Zealand (NZSO)	Russia (GOSTR)	Saudi Arabia (SASO)	Singapore (SPRINGSG)	Slovenia (SIST)	South Africa (SABS)
Spain (UNE)	Sweden (SIS)	Switzerland (SNV)	United Kingdom (BSI)	United States (ANSI)	

3 COLLABORATION AND COOPERATION

3.1 Liaison representatives

Table 4 Liaisons

No.	Entities	LR to *
1.	JTC 1/ SC 7	Dapeng Zhang (CN): iecseg1@163.com
2.	JTC 1/SC 24	Chris Body (AU): chris.body@iinet.net.au
3.	JTC 1/SC 27	Jinghua Min (CN): minjinghua@qq.com
4.	JTC 1/SC 38	Dapeng Zhang (CN): iecseg1@163.com
5.	JTC 1/SC 41	Howard Choe (US): h_choe@yahoo.com
6.	JTC 1/SC 41/WG 4	Mark Fox (CA): msf@eil.utoronto.ca
7.	JTC 1/SC 41/WG 5	Chris Body (AU): chris.body@iinet.net.au
8.	JTC 1/SC 42	Howard Choe (US):h_choe@yahoo.com Tangli Liu (CN):liutangli1979@icloud.com
9.	ISO/TC 204/WG 1	Mark Fox (CA) : msf@eil.utoronto.ca
10.	ISO/TC 268	Chris Body (AU): chris.body@iinet.net.au
11.	ISO/TC 268/SC 1	Chris Body (AU): chris.body@iinet.net.au
12.	ISO/TC 268/WG 2	Dapeng Zhang (CN): iecseg1@163.com
13.	ISO/TC 268/WG 3	Mark Fox (CA) : msf@eil.utoronto.ca
14.	ISO/TC 268/WG 4	Hongwei Zhang (CN): zhanghw@cesi.cn Mark Fox (CA): msf@eil.utoronto.ca
15.	ISO/TC 211	Chris Body (AU): chris.body@iinet.net.au
16.	IEC/SyC Smart Cities	Howard Choe (US): h_choe@yahoo.com
17.	ITU-T SG 17-Security	Jinghua Min (CN): minjinghua@qq.com
18.	ITU-T/SG 20	Yun Li (CN): liyun_cetcisa@163.com
19.	ITU-T/JCA-IoT and SC&C	Yun Li (CN): liyun_cetcisa@163.com
20.	OGC	Peter Parslow (UK): Peter.Parslow@os.uk
21.	TM Forum	Michael Mulquin (UK): michael@iscommunications.co.uk

3.2 Requirement Investigation and cooperation strengthening

It is necessary to have strong relationships, with various kinds of objects:

- Market facing, listening to cities and communities, and their representatives, including technical suppliers to those cities. This would involve taking an active part in smart city activities – going where the customers are.

- organizationally horizontal, to clarify the overlap or distinct areas of working with:
  - ISO/TC 268 Sustainable cities and communities, especially SC 1 Smart community infrastructures, because their scope for “infrastructure” includes “ICT infrastructure”
  - IEC/SyC Smart Cities, because their systems engineering approach of necessity takes IT systems of the city into consideration
  - ISO/TC 204/WG 1 and JTC 1/WG 11 are both interested in the City data model

This could benefit from being coordinated, to better provide a consistent picture to the users in this wide-ranging market sector.

JTC 1/WG 11 also arranged experts to participate in JTC 1/AG 18, JTC 1/AG 8, JTC 1/AG 6, JTC 1/AG 10, JTC 1/WG 15, JTC1 AHG4

3.3 Joint Ad-hoc Group with IEC Systems

JTC 1/WG 11 and IEC SyC Smart City agree to set up a joint AHG. JTC 1capproved the establishment of Joint Ad-hoc Group
The task of this Study and discuss interrelationships between and among various types of Smart City systems, applications, and services, and those technologies and components (both physical and virtual) that comprise them.

4 DISCUSSION OF WG PROGRAM OF WORK

4.1 Uniqueness of Smart City ICT

- Software Platform for Open City Data

An important component of a smart city is the open availability of data for citizens and corporations to use. Cities throughout the world provide open data, but the services provided by their open data platforms vary from city to city. To date no standard has emerged for open data platforms.

- Semantic Interoperability of City Data

Semantic interoperability is a key constraint on the operation of e-Government, and can only be satisfied with the introduction of standards. The information that cities use can be divided into several types.

- Standard for Logging Smart City Applications

As more of the operations of the city are automated using smart applications, the need for being able to detect and analyze the source of operational failures becomes increasingly important. Standards will be needed for logging the input, output, decisions and actions of these “smart” applications. The development of such standards will enable the development of forensic applications that would be able to

determine the source and cause of failures, leading to improved performance over time.

- Coordinating City Operations

As more and more smart applications are introduced into city operations, the need for integration of their operation becomes increasingly important. Just as current city functions operate as silos with minimal interaction/coordination, these smart applications will also, unless standards are developed for how they are to interact and coordinate their decisions and actions.

- Urban Operating System

The advent of Smart Cities has seen an explosion of research, development and deployment of applications that take advantage of the convergence of technologies such as Artificial Intelligence, Web-based information systems, mobile technologies, and the Cloud.

- Measurement of Smart City

Smart cities need evaluation methods and indicators with which city stakeholders can understand the smart city performance from the ICT perspective. These evaluation methods and indicators focus on the efficient functioning of different systems, infrastructures and facilities. In addition, they also provide the guidance on how cities function holistically and facilitate innovation and growth in an integrated and coherent way.

- Data use in smart city

Smart city needs standardization collaboration framework, common requirements and measurement methods on city-wide data use as strategic resource, including data are available, data are useful, data are used effectively and data are used securely. This will enhance total capabilities of data use to maximized needs of multiple stakeholders from many views and various dimensions e.g. effective, sustainable, comprehensive and innovative use of data. This can be used for mapping, building, operating, assessing and continuous improvement of data use in ICT development and applications, investment, procurement, monitoring, auditing and performance assessment.

4.2 Future work

The future works of JTC 1/WG 11 includes:

4.2.1 Finish the current projects on time

See Table2

4.2.2 Pre-research and initiate potential projects

- Workshop on city data model

JTC 1/WG 11 will continually hold a series e-workshops on requirements for approaches to city data models for smart city. JTC 1/WG 11 members are encouraged to participate.

- Semantic Interoperability of City Data
- ICT applications in Public Health Emergency
- Data use in smart city

foundational guidance for data use in Smart Cities

- City digital twin and operating system
- Software Platform for Open City Data
- Unified Digital Infrastructure — ICT Reference Architecture
- City Knowledge Trustworthiness Evaluation
- City planning and smart modelling and simulation

Digital infrastructure planning for smart cities

4.2.3 Approach ongoing TFs and AHGs' work

See table 3

4.2.4 Piloting and testing

Setting up a task force on pilot implementations of standards (or combinations of standards) to address use cases.

4.2.5 Revision of Strategic White Paper on Smart City

To have a clear roadmap for the future works of WG11.

4.2.6 Building relationships

- Be active in the joint IEC-ISO-ITU Smart Cities Task Force (J-SCTF) in this area.
- Continue to talk with ISO/TC 268 Sustainable cities and communities, especially SC1 Smart community infrastructures,
- Explore collaboration with ITU-T, IEEE-SA, ETSI
- Talk within the JTC1 sub committees., as a lot of established and recent JTC 1 work is of relevance to a smart city.

This could benefit from being coordinated, to better provide a consistent picture to the users in this wide-ranging market sector.

5 FUTURE MEETINGS

JTC 1/WG 11 will have 1 more virtual meeting in plenary mode on Nov 29 to Dec 3, 2021. See Table 1 for the full list of meetings.