Form 13: Report of voting on ISO/DIS

ISO/DIS 37105	
Closing date of voting: 2018-10-03	ISO/TC 268 **N 427**
Secretariat: AFNOR	

A report shall be returned to ISO/CS no later than 3 months after the closing date of voting on the DIS.

1. Result of the voting
The above-mentioned document was circulated to member bodies with a request that the ISO Central Secretariat be informed whether or not member bodies were in favour of registration of the DIS for publication.

The vote closed on the date indicated above. <u>Please attach the results of voting to this form as annex A.</u> |

2. Comments received 3. Observations of the secretariat 4. Decision of the Chairman	<u>Please attach as annex B (if appropriate)</u>

Where the approval criteria are met:

☐ A revised text is to be submitted to ISO/CS for publication (there have been no technical changes made to the DIS draft)

☒ A revised text is to be submitted to ISO/CS for the approval procedure, FDIS (there are technical changes to be made)

Where the approval criteria are not met:

☐ A revised text is to be submitted to ISO/CS for a further enquiry (DIS) vote

☐ The project is to revert to the Committee Stage (a new committee draft will be developed)

☐ The enquiry draft and comments will be discussed at the next meeting

Remarks:

Enclosed:

☒ **Annex A**   *(DIS results from ISO electronic balloting portal)*

☐ **Annex B**   *(comments received with observations of the secretariat)*

Date:	Signature of TC/SC Secretary:	Signature of Chair:
2019-02-08	Cailleau, Etienne M.	Gindroz Bernard Mr

Ballot Information

Reference	ISO/DIS 37105	**Committee**	ISO/TC 268
Edition number	1		
English title	Sustainable cities and communities -- Descriptive framework for cities and communities		
French title	Développement durable des collectivités -- Cadre descriptif pour les villes et les collectivités		
Start date	2018-07-09	**End date**	2018-10-01
Opened on	2018-07-09 00:01:09	**Closed on**	2018-10-03 00:05:32
Status	Closed		
Voting stage	Enquiry	**Version number**	1
Note			

Result of voting

P-Members voting: 19 in favour out of 21 = 90 % (requirement >= 66.66%)

(P-Members having abstained are not counted in this vote.)

Member bodies voting: 2 negative votes out of 21 = 10 % (requirement <= 25%)

Approved

Votes by members

Country	Member	Status	Approval	Disapproval	Abstention
Australia	**SA**				X
Austria	**ASI**	**P-Member**			X
Barbados	**BNSI**	**P-Member**			X
Brazil	**ABNT**	**P-Member**	X *		
Canada	**SCC**	**P-Member**			X
China	**SAC**	**P-Member**	X		
Czech Republic	**UNMZ**	**P-Member**			X
Denmark	**DS**	**P-Member**			X
Ecuador	**INEN**	**P-Member**			X
Egypt	**EOS**	**P-Member**	X		
France	**AFNOR**	**Secretariat**		X *	
Germany	**DIN**	**P-Member**		X *	
Greece	**NQIS ELOT**	**P-Member**			X

India	**BIS**	**P-Member**	X *		
Iran, Islamic Republic of	**ISIRI**	**P-Member**	X		
Ireland	**NSAI**	**P-Member**			X
Israel	**SII**	**P-Member**			X
Japan	**JISC**	**P-Member**			X
Kazakhstan	**KAZMEMST**	**P-Member**	X		
Kenya	**KEBS**	**P-Member**			
Korea, Republic of	**KATS**	**P-Member**	X		
Mauritius	**MSB**	**P-Member**	X		
Mexico	**DGN**	**P-Member**			X
Netherlands	**NEN**	**P-Member**			X
Nigeria	**SON**	**P-Member**	X		
Norway	**SN**	**P-Member**	X		
Philippines	**BPS**	**P-Member**	X		
Romania	**ASRO**	**P-Member**	X		
Russian Federation	**GOST R**	**P-Member**	X *		
Rwanda	**RSB**	**P-Member**	X		
Serbia	**ISS**	**P-Member**			X
South Africa	**SABS**	**P-Member**	X		
Spain	**UNE**	**P-Member**			X
Sri Lanka	**SLSI**	**P-Member**	X		
Sweden	**SIS**	**P-Member**			X
United Kingdom	**BSI**	**P-Member**	X		
United States	**ANSI**	**P-Member**	X *		
Viet Nam	**STAMEQ**	**P-Member**	X		
P-Member TOTALS Total of P-Members voting: 21			19	2	15
TOTALS			19	2	16
(*) A comment file was submitted with this vote					

Comments from Voters		
Brazil	**ABNT**	**P-Member**
France	**AFNOR**	**Secretariat**
Germany	**DIN**	**P-Member**
India	**BIS**	**P-Member**
Russian Federation	**GOST R**	**P-Member**
United States	**ANSI**	**P-Member**

Comments from Commenters

ISO

MB/ NC[1]	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment[2]	Comments	Proposed change	Observations of the secretariat
FR 001				Ge	Despite the improvements observed made on the different versions of this draft the French mirror committee is still disapproving the ISO/DIS 37105. It has been considered that most of the French comments formulated during CD stage were noted and are still pending; this concerns mainly the target audience of this standard and the fact that the implementation of this standard is currently not user friendly.	Please change the status of this document.	Disagree with the comment. At the CD stage, the work group made general comments such as "comment is noted". In all cases the work group did elaborate on why a change was or was not being made. If the French national committee believes that their comments have not been addressed previously, we're willing to revisit any specific topics or items and reconsider the proposed language in the draft. We do note that 19 of 21 country votes did approve of the draft moving forward.
** 002		General		Ed	In many ways this document does not conform to the ISO/IEC Directives, Part 2, 2018, and seems to have been written without their consideration. Notable problems or deviations from the Directives Part 2 include: subdivision of text, numbering and presentation of figures, numbering of lists, formatting of text (bold, italic), capitalization, presentation of numbers, use of correct verbal forms to express requirements, use of normative references, presentation of terms and definitions.	Please review the entire document in relation to the ISO/IEC Directives, Part 2, 2018.	Agree with the comment. ISO staff was kind enough to provide an edited version of the document that more closely follows the ISO-directives with respect to format, editing styles and related items. We have worked to incorporate those changes in this version.
** 003		General		Ed	ISO documents use British (Oxford) English rather than America English.	Please update spellings throughout, particularly in Figures, e.g. neighbourhood.	Agree with the comment. ISO staff was kind enough to provide an edited version of the document that more closely follows the ISO-directives with respect to format, editing styles and related items. We have worked to incorporate those changes in this version. We've also worked to utilize British (Oxford) English spellings when appropriate.
** 004		General		Ed	In bullet lists that run on from the main body text, such as in 4.3, each line should begin with a lowercase letter.	Remove capitalization throughout.	Agree with the comment. ISO staff was kind enough to provide an edited version of the document that more closely follows the ISO-directives with respect to format, editing styles and related items. We have worked to incorporate those changes in this version.
** 005		General		Ed	There is no need to capitalize 'descriptive framework' or other terms (e.g. interactions,	Remove capitalization throughout.	Disagree with the comment. There seems to be some confusion about proper nouns and common

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					structure, environment, built domain). These are not proper nouns, and are often italicized anyway. Only the opening word in a heading should be capitalized.		nouns? 37105 should be complying with the Directives, and the editors choice of proper and common nouns.
** 006		General		Ed	Use of bold and italic to highlight important terms is inconsistent.	Please use either bold or (preferably) italics throughout to highlight important terms.	Agree with the comment. ISO staff was kind enough to provide an edited version of the document that more closely follows the ISO-directives with respect to format, editing styles and related items. We have worked to incorporate those changes in this version.
** 007		General		ed	**ISO/IEC Directives, Part 2, 2018, 9.1** 'The decimal sign shall be a comma on the line in all language versions.' 'Each group of three digits shall be separated by a small space from the preceding digits.'	Please change all decimal points to decimal commas, and insert spaces between each group of three digits.	Agree with the comment. ISO staff was kind enough to provide an edited version of the document that more closely follows the ISO-directives with respect to format, editing styles and related items. We have worked to incorporate those changes in this version.
** 008		General		ed	**ISO/IEC Directives, Part 2, 2018, 7.6** 'Must shall be used to indicate constraints or obligations defined outside of the document.'	Please review and update all instances of must.	Agree partially with the comment. There are five (5) uses of MUST in the 37105 DIS (according to the line numbers in the DIS): - Line 431 where 'must' should be changed to 'shall' indicating that a logic language used (as expressed in W3C OWL) to describe a concept SHALL (i.e. needs to have) at least have a relationship in order to be valid. - Line 439/440 where the use of MUST indicates a general competency requirement, and in line with ISO Directives. - Line 451 where the use of MUST indicates a general competency requirement, and in line with ISO Directives. - Line 675 where MUST might seem to be replaceable by SHALL BUT Line 675 belongs to an Information Annex and it would seem illogical to put a reserved ISO Requirement with an Informative section. Keep Must as it is in Line 675.

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							- Line 759 also uses MUST might seem to be replaceable by SHALL BUT Line 759 belongs to an Information Annex and it would seem illogical to put a reserved ISO Requirement with an Informative section. Keep Must as it is in Line 759.
** 009		General	Figures	Ed	Please provide separate, editable image files so we can make any necessary corrections to text, figures, fonts, etc. See https://www.iso.org/drafting-standards.html for Guidelines for the submission of text and graphics to ISO/CS. Please also prepare figures according to ISO guidelines.		Agree with the comment. Vector style CAD drawings were provided as part of the development of the draft standard. The Secretariat will revise or edit those files as necessary for final publication purposes.
** 010		General	Figures	Ed	Content of all figures is too small or too detailed for this document.	Suggest replacing figures with much smaller, simplified versions or instead inserting a URL to link to the figures online.	Agree partially with the comment. We have taken several approaches to improve upon the quality of the figures. One solution is to show the figures in a landscape format rather than a profile format. This will allow some additional clarity. We have also looked at different ways to divide or split the figures to offer increased resolution. We do note that chapter 5 of the standard currently shows segments of the figure enlarged but do bring out the detail. As noted in our response to comment 009, we can provide various formats to see what might work best. Finally, it is noted that the figures are simply intended to offer a graphical representation of the framework but the substance of the framework is contained within the text of the standard.
FR 011				Ge	Does this framework has been tested by cities or communities?	It is maintained that this document should be published as Technical report or at least as Technical Specification.	Disagree with the comment. The descriptive framework was developed around a number of cities involved in the City Protocol Society Barcelona meeting and drew heavily on the concepts included in the 2014 publication "City Anatomy — A Framework to Support City Governance, Evaluation and Transformation". In that report, Barcelona, Dubai, Buenos Aires, Amsterdam, Dublin, Quito and Genoa are among the cities that piloted these concepts.

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FR 012				Ge	Terminology used within ISO/DIS 37105 is not fully consistent with terms and definitions used within ISO/TC 268.	Please ensure consistency with terminology used within SIO/TC 268 deliverables and especially with ISO 37101, ISO 37104, ISO 37106 and ISO 37120:2018.	The comment is noted. No specific instances were identified with regard to areas where the terminology is not been consistent. Any items or terms where the standard needs to be revised with respect to terminology will be reviewed and changed on an as-needed basis.
DE 013					Germany disagrees for the following reasons:		The comment is noted. This appears to be a general comment from Germany. We have addressed specific comments below as necessary.
DE 014					Overall, this draft contradicts the understanding of sustainability in ISO/TC 268. The machine-readable interpretation in this draft does not do justice to humans as participants. This show a contradiction to ISO 37101 and ISO 37104, which describe and include the human being as a political actor. In addition, the coding system lacks the openness that is necessary to be able to map future developments.		The comment is noted. No changes are necessary as a result of this comment. The ontology approach described in the standard is intended to look at the role of society including myriad interactions of human beings, cities, visitors, residents and others who cross by, through or stop in the city environment. In addition, the ontology is not separate but is in fact a formal syntax. The standard addresses the city as a network of individual nodes and related networks which makes it conducive to consider the specific approach with the ontology. Nothing in the ontology approach used in the standard would limit future development.
DE 015					Furthermore, we would like to point out that similar work has also begun at IEC. Before the next step, possible overlaps should be clarified.		The comment is noted. We believe this is referencing the IEC Smart City Framework but we are not positive. We would be pleased to receive more detail on the IEC initiative that is mentioned in the comment from Germany. The chair of the IEC Smart Cities Working Group is not aware of any potential overlaps. In the future, should any specific elements be identified, we of course will work to coordinate between the different projects.
DE 016					We would also like to recommend a closer collaboration with ISO/TC 268/SC 1/WG 2 on their projects ISO 37155-1 and ISO 37155-2		The comment is noted. The descriptive framework is not a recommendation about "how to do things" rather it provides a language (terminology) that can be applied or used by all of the TC 268 standards so as to apply consistent terminology and ontology to set forth the "how to" requirements in other TC 268 documents. In the future, should any specific

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							collaboration opportunities be identified, we of course will work to coordinate between the different projects.
BR 017	36	Introduction		ge	Introduce mutual constituency between men and system. Although a city can be built by a single or few agents, it will only be a city as long as a community engages with the built environment and among themselves. For more info on the subject, please see: - Luhmann, Niklas. Social systems. Stanford University Press, 1995. (pg,103 and 106) - Latour, Bruno. "On recalling ANT." The Sociological Review47.1_suppl (1999): 15-25. - Latour, Bruno, and Emilie Hermant. "Paris: invisible city." (2006).	(36) Where you read "that fosters emergent human behaviour", please consider adopting: (36) "that fosters and are fostered by human behaviour, and an emergent phenomena.'"	Agree partially with the comment. Revise the sentence to read: "A city or community is a system of systems and interactions that fosters and are fostered by emergent human behaviour. 2" We did not accept the last part of the proposed change as we did not understand what is meant by "an emergent phenomena".
** 018		Introduction	Footnotes 2 and 3	Ed	Do you have permission to reproduce material from these two sources? If not, then please seek permission from the copyright holder.		Agree with the comment. YES-ISO does have permission to use the content. 37105 is the product of derivatives of the City Protocol Society's 2 separate works "City Anatomy" and "City Anatomy Ontology" (which the City Protocol Society Copyright Statement for both publications allows for; i.e. derivative works without restriction of any kind). 37105 is now, after extensive changes having been made in TC268, is now an ISO document in its own right. City Protocol Society Board and Secretary General have supported and even contributed graphics earlier on in the ISO editing process to the development of 37105.
FR 019		Scope		Te	The scope of this DIS is not targeting particular audience. Even if we are at DIS	Please revise the scope in accordance with ISO internal regulation Part 2 Clause 14.	Disagree with the comment. The intended audience and application of the standard is clearly defined in section 4.3. The ISO rules and directives do not

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Date: 2018-11-06	Document: 37105	Project: TC 268

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					stage, this is currently not clear who is intended to use of this standard.		mandate that the audience be highlighted in the scope. As noted in section 4.3 of the draft, "The Descriptive Framework aims to help enable effective governance, evaluation, and transformation by providing city officials and other stakeholders …". We do not find an instance where the ISO directive requires the audience to be defined in the scope.
** 020		Scope		Ed	'This document specifies requirements for a descriptive framework' Does it? There don't appear to be any requirements in the document. ISO documents use 'shall' to express requirements (see **ISO/IEC Directives, Part 2, 2018, Table 3**).	Please review title and Scope.	Agree with the comment. We agree that the language in the scope can be further refined and clarified. Revise the first sentence of the scope statement in Section 1 as follows which also reflects our response to comment 22 from Brazil. "This ~~international standard~~ document specifies ~~requirements for~~ a descriptive framework for a city including an associated foundational ontology of the anatomical structure of the city or community. The descriptive framework ~~has~~ is intended to have the following qualities "
021	69-70	01	Paragraph 1 Scope	ge	The statement that this document is applicable for "any type of city; scalable, i.e., valid for a 70 metropolis, a city, a small town or a village" is very much welcome and should be adopted in all related documents.	No change is proposed in this document	The comment is noted. Thank you.
BR 022	70	01		ge	The text as presented confronts well stablished sociological and anthropological views of social construction and promotes epistemological turmoil.	Please consider removing categories *timeless* and *acultural* from the list or include interjection "may" , before every statement. (…) may be compatible with … at any time in history (…) may be valid for any culture.	Agree partially with the comment. See the response to comment 20. It is the intent that the standard have applicability to these elements when appropriate. The examples in the illustrations represent current society and norms. Past methods, for example just related to mobility and transportation would've included elements such as walking paths, horse and buggy and other ways of getting around which in some societies are still utilized.
** 023		02		Ed	**ISO/IEC Directives, Part 2, 2018, 15.5.3** 'Only references cited in the text in such a way that some or all of their content constitutes requirements of the document	Move reference to the Bibliography.	Agree with the comment. Delete from Section 2 and add to the bibliography at the end of the document. ~~ISO 37100:2016, Sustainable cities and communities — Vocabulary~~

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					shall be listed in the Normative references clause.' ISO 37100 is not cited normatively in the text.		Add additional text to section 3 as follows. "ISO 37100 contains a list of relevant terms and definitions which are also useful in understanding the descriptive framework."
** 024		03.03		Ed	**ISO/IEC Directives, Part 2, 2018, 16.5.5** 'Common terms, which a qualified user of the document will already know, should not be defined.'	Can 3.3 be removed?	Agree with the comment. Delete the term as follows. ~~3.3 Stakeholder. Any person or organization that can affect, be affected by, or perceive themselves to be affected by a decision or activity.~~
BR 025	105	04.01		ge	Same as above	Where you read:" any city or community" please change for "a general city or community".	Agree partially with the comment. Revise first sentence of section 4.1 as follows. "Figure 1 shows the three overarching logical elements of ~~any~~ a city or community ecosystem as the…"
** 026		04.01	Figure 1	Ed	Figure 1 is too big for this document.	Suggest replacing the figure with a much smaller, simplified version or instead inserting a URL to link to the figure online.	Agree with the comment. See our response to comment 10 where we are putting forth some ideas for various figures.
** 027		04.02		Ed	'A city can best be viewed and understood as an ecosystem, which shall be broken down into three elements' Is this intended to be a requirement? If not, change 'shall be' to 'is'.		Agree with the comment. Revise the introductory sentence in section 4.2 as follows. (Note number four being deleted by response to comment 28) "~~Cities~~ A city can best be viewed and understood as an ecosystem, ~~which shall be~~ broken down into three elements [4]:"
** 028		04.02	Footnote 4	Ed	It is unclear what this footnote refers to. Was the structure attributed to Ramon Margalef? If so, please give an accurate reference, e.g. to a published document.		Agree with the comment. Delete footnote 4 related to Margalef as suggested.
029	110-114	04.02	Paragraphs 1	te	Non-living eco-systems also influence a city. For instance, its values and heritage, This is in line with the averment made in para 4.6.3.	Add a bullet after line 114 as follows: "Values and heritage of the city."	Disagree with the comment. The standard already describes a city cultural layer that also encompasses values and heritages. It describes a layer of Culture in the Interactions (system) 4.4.2 where culture of a city includes traditions, beliefs, values, and ways with

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							which people organize their conceptions of the world around them. This would seem to also encompass values and heritages.
US 030	144	04.04.1		ed	For the definition of the natural environment, the three basic components should be listed as "air and space, land, and oceans." This breakdown is what is formally used by the geophysical community to describe the natural environment. Space is required because it provides the seasonal dynamics, sunlight which drives the atmosphere, and lunar tidal processes. The term "earth" is used for the planet as a whole, while land covers the basic terrain and anything on it, natural or man-made. In the geophysical community, oceans represent the planets bodies of water, while fresh water sources are linked to the land domain. Also, water is a component of the atmosphere. It is also noted that the description used in this section does not match that used in	Revise description to refer to: "Air and Space; Land; Oceans"	Agree partially with the comment. Revise the second sentence of section 4.4.1 as follows: "It is formed by the nature (plants and animals) and by the three basic components —......." Adding a component in related to nature does enhance the description as it is a definite component of the environment. With no disrespect to the geophysical community, and while space above our air is very important, cities and their immediate focus trends to be more attuned to the air and what they can do to affect the air in the city. Changing water to Ocean would seem to not be intuitive for cities? Oceans include Atlantic, Pacific. Sea's include the North Sea, Mediterranean… These would be generally accepted names. Some cities consider themselves to exist next to an Ocean, other cities are next to inland lakes, others have rivers (either salt or fresh water) running through the city but all have bodies of water; which are also part of the water life cycle.

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	Date: 2018-11-06	Document: 37105	Project: TC 268

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					Section 5.3, the Descriptive Framework.		
US 031	155	04.04.2		ed	In the "Interactions (system)" section, I would explicitly add "sports and entertainment" as they generally significant activities in cities and can involve major large infrastructure elements.	Add "sports and entertainment" as another category to this section.	Disagree with the comment. The diagram (Figure 16) mentions leisure, performing arts and sports. Section 4.4.2 is not intended to be a comprehensive list. The standard defines interaction functions in a city as activities such as living, working, shopping, arts, with sports and entertainment as in at least the performing arts classification enumerated in the ontology.
BR 032	156-163	04.42		ge	According to well stablished studies, information is equivalent to culture, i.e, information is valuable according to cultural values. Therefore, there must be a adequation of these terms in the overall text. For more information please see: - Boroditsky, Lera. "Does language shape thought?: Mandarin and English speakers' conceptions of time." Cognitive psychology 43.1 (2001): 1-22. - Bourdieu, Pierre. "The economics of linguistic exchanges." Information (International Social Science Council) 16.6 (1977): 645-668.	Change the name of the fourth layer (161) from *Information* to *Information Management* Or include a disclaimer, as suggested below: " Where you read *Information* and *Information Platform*, please consider *Information Management* and *Information Management Platform*".	Disagree with the comment. See responses to related comments 38, 39, 50, 51. Further discussion. Information does not equal culture. Various terms might be applicable here including information management/information systems/information platform. Should all of these just refer to information? The challenge becomes that not all information is managed or catalogued and there are many platforms where it might exist or reside. While culture is an important part of the city, the WG disagrees that information and culture are equal. The standard does contain a cultural layer and an information layer to show the distinctions between the two. Some of the WG members are aware of other academic papers that do treat these as separate subjects and layers.
RU 033	179		4.5.1 Environment	Ed	**It is recommended to add the forth component – geological environment. In many cities there are dangerous engineering-geological phenomena: karst, suffusion, landslides etc. This component is particularly important for the use of underground space in cities**	add the forth component – geological environment	Disagree with the comment. While the observation is correct, it is currently out of scope of the current version of this standard and should be reviewed and considered as part of a future revision or amendment. The 37105 ontology was originally meant to be a very basic framework on which other, more detailed expert elaboration knowledge structures could be mapped

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							to. E.g. the ISO 30182 BUILDING concept detail can be mapped to the 37105 Building Class. Engineering-geological phenomena: karst, suffusion, landslides etc. could all become elaborations of soil, and or sediment in the current ontology. As the Commenter correctly observes, more detail as separate elaborations on their own (e.g. as ISO 30182 is doing) or possibly as part of a Revision to 37105 could be particularly important for the use of underground space in cities which may have this need. Providing this information is an extra layer of detail that could be considered in the future. Myriad other hazard events could also be added in including cyclone, tornado, lightning, flooding and so on.
** 034		04.05.2 4.6 4.7 5.3 5.4 5.5 A		Ed	**ISO/IEC Directives, Part 2, 2018, 22.3.3** '"Hanging paragraphs" shall be avoided since reference to them is ambiguous.'	Insert **4.5.2.1 General** heading before opening paragraph, and renumber subsequent subclause headings and any cross-references.	Agree with the comment. Example formatting for these sections will be revised to: **4.5.2 Infrastructures** **4.5.2.1 Introduction** (text of current 4.5.2 "The second subsystem layer within the structure system element is the…." **4.5.2.1.1 Communication network** (text of current 4.5.2.1 "The first infrastructure depicted in figure 1 above…"
** 035		04.05.2.1 4.5.2.3 4.5.2.4 4.5.2.5 4.6.4	Figure 3 Figure 5 Figure 6 Figure 7 Figure 10	ed	**ISO/IEC Directives, Part 2, 2018, 28.5.3** 'Figures shall be language neutral in order to facilitate translation, using key references or figure footnotes instead of textual descriptions (in accordance with ISO 6433). In graphs, labelling of curves, lines, etc. shall be replaced by key references. Labelling on the axes shall not be replaced	Please supply revised figures using key references, including E, R and ISP for Figure 3.	Agree with the comment. Revise figure references as follows. Figure 3 – remove ISP, E, R Figure 5, 6 – replace words with graphic symbols Figure 7 – remove text: bus, metro, train, car, moto, bike and walk as those graphical symbols seem to be understandable.

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MB/ NC[1]	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment[2]	Comments	Proposed change	Observations of the secretariat
					by numerical key references, which could be confused with numeric values.'		Figure 10 – simplify the image by removing 'Open Data' 'Performance' and the 'symbolic eye of transparency' (!) in the figure.
US 036	207	04.05.2.2		ed	I would recommend the use of just "water" instead of "water cycle" to describe the water infrastructure. The description in the section matches closely the general description for the water lifeline infrastructure used in the infrastructure analysis community. Adding the word "cycle" implies interactions and interdependencies in the infrastructure.	Revise Section Heading to: **Water** ~~Cycle~~	Disagree with the comment. Water being addressed as a cycle should support a general sustainability agenda. Also encouraging life cycle analysis and assessment methods as appropriate. "Adding the word "cycle" implies interactions and interdependencies in the infrastructure" … and across all infrastructures. Breaking down any silo organizational thinking in the city is exactly what we wish to happen.
US 037	243	04.05.2.5		ed	I would suggest using "transportation" to describe the infrastructure. Mobility is the function provided by the transportation infrastructure.	Revise Section Heading to: ~~**Mobility**~~ **Transportation**	Disagree with the comment. Mobility in the city is the challenge, transportation is one of the, not only, more common means which is used to address mobility needs. Other means to addressing mobility may include strategies including better urban space planning to eliminate the need for transportation. A more sustainable urban mobility system would likely want to be Green, by being less reliant on fossil fuels, while designed to manage traffic efficiently with more non-vehicular modes (including walking, cycling) while being synergistic with land use & planning policies; all the while being responsive to changing demographics and mobility preferences.

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							While other ISO committee's e.g. ISO TC 204 are developing transport standards, more elaboration on an urban mobility description is likely beyond the immediate scope of TC268 and 37105.
BR 038	326	04.06.4		ge	Same as above	Change *Information platform* to *Information Management platform*.	Noted. Please see the WG response to comment 32.
BR 039	348	Figure 10		ge	Same as above	Change *Information platform* to *Information Management platform*.	Noted. Please see the WG response to comment 32.
BR 040	349-351	04.06.4		ge	Regarding the information platforms, it is important to present how the flow and quantity of data processed may require greater telecommunication infrastructure, services and storage in the cloud, besides the expansion of such infrastructures in order to accompany the expansion of cities.	Include paragraph or phrase: "In addition to the adoption of information platforms for the integration of data flow, there is a concern for the expansion and improvement of the technological infrastructure in order to support the demands of data traffic and storage, in line with population growth."	Disagree with the comment. The amount of data and information may or may not increase thus the number and types of platforms may or may not increase. The descriptive framework intends to describe the things that you need to consider, but will not necessarily need to happen.
** 041		05.01	1	Ed	'described in Section 4.3' ISO documents refer to Clauses and subclauses, not sections. See **ISO/IEC Directives, Part 2, 2018, 22.4.**	Change all instances throughout.	Agree with the comment. Review the document in total and utilize the terms clause and subclause as appropriate.
** 042		05.03.3 B	Figure 11 Figure B.1	Ed	**ISO/IEC Directives, Part 2, 2018, 28.4** 'Each figure shall be explicitly referred to within the text.'	Please provide citations for Figures.	Agree with the comment. Review the document in total and ensure that references to the figures are included as appropriate. Figure 11 is referenced in the title of Figure A1, but we can also add a reference in line 478 the first paragraph of 5.3.3 by amending "(see Figure 11)" to the end of the sentence.
** 043		05.04		Ed	'Annex C provides…' There is no Annex C.	Delete or update reference.	Agree with the comment. This was an editorial error. The text should point to Annex B, not Annex C which we used to have. We've also noted an overlap in language, specifically the headings for section B .1 and B .2. Those changes have been made in the subsequent draft.

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MB/NC¹	Line number	Clause/Subclause	Paragraph/Figure/Table	Type of comment²	Comments	Proposed change	Observations of the secretariat
US 044	513	05.04.1		ed	5.4.1 Environment. The description of the environment components does not match that used on Page 33 (see above). This section uses air, soil, and water - soil is inadequate to describe terrain related features and also does not include plant components.		Agree partially with the comment. Add a new sentence (second sentence) to clause 5.4.1 as follows: "The environment is the setting of the city." Revise the existing second sentence of clause 5.4.1 by adding the additional underlined text. "…. by nature (plants and animals, may be referred to as biodiversity) and by the three basic…" These two changes allow correlation with clause 4.5.1 and acknowledge the plant-animal role as part of the biodiversity of the environment.
US 045	517		Table 3	ge	What differentiates "sediment" from "soil"? How is a "Settlement" a part of the environment layer? Shouldn't it be part of the Built domain?		Disagree with the comment. Sediment is the crossover between soil and water. It is viewed as a type of interface between the two. Settlement, on the other hand is located and described as being within the environment – specifically the setting of the city. The descriptive framework utilizes distinct methods to clarify the differences between these two terms.
** 046		05.04.1 5.4.2 5.7	Table 3 Table 4 Table 11	ed	**ISO/IEC Directives, Part 2, 2018, 29.4** 'Each table shall be explicitly referred to within the text.'	Please provide citations for Tables.	Agree with the comment. At the following notations. In 5.4.1 amend the first sentence to include "… as described in Table 3" at the end of the sentence. In Line 524 "… 5 and Figure 14 …" change to "… 4 and Figure 14 …" In line 640 change to "(see Figure 21 and Table 11)
** 047		05.04.2 5.5	Table 4 Table 7	Ed	Figures are far too small.	Replace figures with cross-references.	Agree partially with the comment. We have taken several approaches to improve upon the quality of the figures. One solution is to show the figures in a

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							landscape format rather than a profile format. See additional discussion on this subject in our response to comment 10.
BR 048	525	Table 4		ge	Line 5, column 2 - The term transport can generate ambiguity because of the disciplines of the city infrastructure and transports, it is suggested the term instead of transport, of traffic. Data traffic.	*"owl:SubClassOfftraffic"*	Disagree with the comment. While the Comment makes an observation of possible ambiguity, 'traffic' to a city to different people in a city could also be ambiguous (e.g. commuter traffic jams to a police force or congested data flows on an information network in a city data center is also considered traffic) could also be ambiguous. In this case we are trying to convey that a 'TransportableThing' (water, energy, solid waste, information digital bits, …) will all somehow move / flow / cycle themselves in a city. The ontology was written to be abstract and allow for anything within the Infrastructures to be described in a consistent manner as it moves within the city. This concept is not just applicable within the mobility infrastructure but carries through to the other sectors as well.
049	526-546	05.05	Paragraph 1	te	The interaction system should also include the city ecosystem.	Add a bullet after line 543 as follows: "Ecosystem refers to the complex of living organisms, their physical environment, and all their interrelationships in a particular unit of space. The above definition is taken from https://www.britannica.com/science/ecosystem accessed on 11 September 2018.	Disagree with the comment. The city ecosystem is defined and described in clause 4.2 as it relates to all of the information in the standard. It describes the interactions between all of the physical structures, living entities, and the infrastructure between them.
BR 050	560	05.05		ge	According to well stablished studies, information is equivalent to culture, i.e, information is valuable according to cultural values.	Change *Information platform* to *Information Management platform*.	Disagree with the comment. The workgroup does not agree that information is equivalent to culture. See the WG response on the related subject for comment 32.

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					Therefore, there must be a adequation of these terms in the overall text. For more information please see: - Boroditsky, Lera. "Does language shape thought?: Mandarin and English speakers' conceptions of time." Cognitive psychology 43.1 (2001): 1-22. - Bourdieu, Pierre. "The economics of linguistic exchanges." Information (International Social Science Council) 16.6 (1977): 645-668.		
US 051	560	05.05		ed	"Information platform" was not one of the components of the interactions layers, "information."	Should "Information platform" be included?	Disagree with the comment. The workgroup does not agree that information is equivalent to culture. There are also other challenges associated with the term information and its various derivatives. See the WG response on the related subject for comment 32.
052	581-598	05.06	Paragraph 1	te	The statement in line 582 that "The Society subsystem comprises the living entities of the city" is correct. However, in expanding it, 'bird, animals and aquatic life" should also be added.	In line 582, after the word "people", insert the words "and other living beings".	Disagree with the comment. In as much as plants and animals are exclude from participating in any city government processes, Citizens have a direct relationship (somehow) with the government for this sub-clause. The commenter does bring up an interesting discussion on the flora and fauna in a city, which could be further elaborated in a next Revision, but for this version of 37105 all plants and animals are in the Nature Cycle (green infrastructure).
053	602-606	05.07	Paragraph 1	te	While evaluation is certainly useful, continuous monitoring is also required for maintaining the city dynamics. Monitoring could be either internally built into the city governance systems or through independent external monitors, or both.	In line 605, add the word "monitoring," after the word "governance." Add suitable definition of monitoring in this paragraph.	Disagree with the comment. Monitoring is a key part of the evaluation process. Unless you monitor or provide some level of surveillance, how can you evaluate or measure the particular attribute you are interested in? While monitoring is a separate activity, it is an essential part of the governance process.
BR 054	653			ge	Defining and mapping project processes increases the chances of success of achieving strategic objectives.	"tools, process,…"	Agree with the comment. Revise the **Transformation** paragraph in clause 5.7 as follows.

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							"… along with indicators and indexes, tools, <u>processes</u>, shared projects,….."
** 055		A B		Ed	**ISO/IEC Directives, Part 2, 2018, 20.5** 'Each annex shall be explicitly referred to within the text.'	Please provide references to Annexes A and B in the main text.	Agree with the comment. Explicit references to the two annex sections have been added to the newest draft. A reference to Annex A most likely belongs as a reference in 4.3 "How the Descriptive Framework supports governance and transformation". Add a new final sentence in Annex A to read <u>"See Annex A for a more detailed description of applying the Descriptive Framework for Cities: governance, evaluation, and transformation"</u>. See the related response to comment 43.
** 056		B		Ed	'Keywords derived from the Descriptive Framework (focus for multi-purpose public spaces):' This and the following subheadings should be numbered.		Agree with the comment. The text has been numbered as appropriate.
** 057		B	(4)	ed	'Quality people flow experience'	Please provide table headings and remove underscores.	Agree with the comment. Will add headings as follows: First column: Element Second Column: System Third Column: Component The underlined text in the second column has also been removed.
** 058		B	Footnote 11	Ed	Link is broken.	Please update URL.	Agree with the comment. Correct link is https://www.asla.org/uploadedFiles/CMS/Meetings_and_Events/2014_Annual_Meeting_Handouts/FRI-07_Infrastructure%20is%20Public%20Space.pdf
** 059		B.1		Ed	No text in this subclause.		Agree with the comment. Delete the text as follows: ~~B.1 Elaboration of the Descriptive Framework City Anatomy Ontology Classes~~

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** 060		Bibliography	[5] and [6]	Ed	Links are broken.	Please update URLs.	Agree with the comment. The corrected links are as follows: For 5 https://cpsociety.sharepoint.com/sites/cptf/CPTSC/_layouts/15/guestaccess.aspx?docid=1ce2637bcd0bd44b58b8fcf0803f14bf0&authkey=AeUUezm1_7axXN68TAT7sZ8 For 6 https://cpsociety.sharepoint.com/sites/cptf/CPTSC/_layouts/15/guestaccess.aspx?docid=1fb857335cde34ccd80a621b61d284761&authkey=AYQkidv4pvxVMEm_YQVJp1o

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