



#### Form 4: New Work Item Proposal

Circulation date: <a href="#">2019-02-26</a>	Reference number: <a href="#">ISO/NP 37166</a> (to be given by Central Secretariat)
Closing date for voting: <a href="#">2019-05-22</a>	
Proposer (e.g. ISO member body or A liaison organization) <a href="#">SAC</a>	<a href="#">ISO/TC 268/SC 1</a> <a href="#">N 340</a>
Secretariat <a href="#">JISC</a>	

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, an organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

- The proposer has considered the guidance given in the Annex C during the preparation of the NWIP.

**Proposal** (to be completed by the proposer)

<p><b>Title of the proposed deliverable.</b></p> <p><b>English title:</b></p> <p>Smart community infrastructures --Specification of multi-source urban data integration for smart city planning(SCP)</p> <p><b>French title:</b></p> <p><i>(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)</i></p>
<p><b>Scope of the proposed deliverable.</b></p> <p>This document focuses on the integration and application of multi-source data from urban infrastructure systems, e.g. water, transport, energy and waste etc., so as to support smart city planning and top-level design.</p> <p>It builds a data framework that involves those data through standardized data integration and sharing mechanism, which include:</p> <ul style="list-style-type: none"> <li>- defines the precision, dimension of the data, where at the same time raise the requirement on data collection, update, and storing mechanism</li> <li>- defines the data model for data integration, make suggestions on data standardization and data fusion approaches for multi-source smart city infrastructure data for each involved data</li> <li>- defines the data security level and shareable attributes for each involved data, establishes principles on data sharing/exchange.</li> </ul>
<p><b>Purpose and justification of the proposal*</b></p> <p>This document aims to coordinate urban development resource allocation; optimizes urban spatial function layout; promotes urban scientific development and assists government wisdom decision-making through smart city infrastructure spatial planning data integration</p> <p><i>Consider the following: Is there a verified market need for the proposal? What problem does this standard solve? What value will the document bring to end-users? See Annex C of the ISO/IEC Directives part 1 for more information. See the following guidance on justification statements on ISO Connect:</i></p> <p><a href="https://connect.iso.org/pages/viewpage.action?pageId=27590861">https://connect.iso.org/pages/viewpage.action?pageId=27590861</a></p>
<p><b>Sustainable Development Goals (SDGs)</b></p> <p>Goal 8: Decent Work and Economic Growth          Goal 9: Industry, Innovation, and Infrastructure          Goal 11: Sustainable Cities and Communities          Goal 12: Responsible Consumption and Production          Goal 13: Climate Action          Goal 15: Life on Land</p>
<p><b>Preparatory work</b> (at a minimum an outline should be included with the proposal)</p> <p><input checked="" type="checkbox"/> A draft is attached      <input type="checkbox"/> An outline is attached      <input type="checkbox"/> An existing document to serve as initial basis</p> <p>The proposer or the proposer's organization is prepared to undertake the preparatory work required:</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>

**If a draft is attached to this proposal:**

Please select from one of the following options (note that if no option is selected, the default will be the first option):

Draft document will be registered as new project in the committee's work programme (stage 20.00)

Draft document can be registered as a Working Draft (WD – stage 20.20)

Draft document can be registered as a Committee Draft (CD – stage 30.00)

Draft document can be registered as a Draft International Standard (DIS – stage 40.00)

If the attached document is copyrighted or includes copyrighted content:

The proposer confirms that appropriate permissions have been granted in writing for ISO or IEC to use that copyrighted content.

**Is this a Management Systems Standard (MSS)?**

Yes       No

NOTE: if Yes, the NWIP along with the Justification study (see Annex SL of the Consolidated ISO Supplement) must be sent to the MSS Task Force secretariat (tmb@iso.org) for approval before the NWIP ballot can be launched.

**Indication(s) of the preferred type to be produced under the proposal.**

International Standard                       Technical Specification

Publicly Available Specification

**Proposed development track**

18 months\*                       24 months                       36 months                       48 months

**Note: Good project management is essential to meeting deadlines. A committee may be granted only one extension of up to 9 months for the total project duration (to be approved by the ISO/TMB).**

\*DIS ballot must be successfully completed within 13 months of the project's registration in order to be eligible for the direct publication process

**Draft project plan (as discussed with committee leadership)**

Proposed date for first meeting:

Dates for key milestones: DIS submission

Publication

**Known patented items (see ISO/IEC Directives, Part 1 for important guidance)**

Yes       No

If "Yes", provide full information as annex

**Co-ordination of work:** To the best of your knowledge, has this or a similar proposal been submitted to another standards development organization?

Yes       No

If "Yes", please specify which one(s):

**A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables. The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized.**

[The new proposed work recognizes and adopted the definition of data related aspects of ISO 37156,](#)

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and conducts in-depth analysis of multi-source data, especially urban planning data, based on ISO 37156, to fill gaps of urban planning data that should support smart city infrastructure development

A listing of relevant existing documents at the international, regional and national levels.

ISO 37151: Smart Community infrastructure  
 ISO 37152: Smart Community infrastructure  
 ISO CD 37156 Guidelines on Data Exchange and Sharing for Smart Community Infrastructures  
 GB: Smart city - Technical guide for multi-planning integration  
 PAS 183:2017 Smart cities – Guide to establishing a decision-making framework for sharing data and information services  
 IEC SEG1 WG2Urban planning and simulation system  
 IEC SEG1 WG3infrastructure management

Please fill out the relevant parts of the table below to identify relevant affected stakeholder categories and how they will each benefit from or be impacted by the proposed deliverable(s).

	Benefits/impacts	Examples of organizations / companies to be contacted
Industry and commerce large industry	It can expand or create business market by improving business performance	All organizations, especially those involved in planning and data related organizations
Industry and commerce SMEs	You can expand or create your business market by improving your business performance	All organizations, especially those involved in planning and data related organizations
Government	It can provide a better environment and a safe and intelligent life for citizens and urban planners	National, state, city, town, village government
Consumers	Access to more convenient living and related city services Citizens, city planners	Citizen
Labour	Can work in a safe, comfortable and convenient environment	Citizen
Academic and research bodies	Can work in a safe, comfortable and convenient environment	Universities, research institutes and research companies
Standards application businesses	Can create effective business and expand business	A provider of city planners and data related services.
Non-governmental organizations	Can improve their performance and safety activities	A non-profit organization that helps improve the lives and activities of citizens
Other (please specify)	None	None

<p><b>Liaisons:</b></p> <p>A listing of relevant external international organizations or internal parties (other ISO and/or IEC committees) to be engaged as liaisons in the development of the deliverable(s).</p>	<p><b>Joint/parallel work:</b></p> <p><b>Possible joint/parallel work with:</b></p> <p><input type="checkbox"/> IEC (please specify committee ID)</p> <p><input type="checkbox"/> CEN (please specify committee ID)</p> <p><input type="checkbox"/> Other (please specify)</p>
<p><b>A listing of relevant countries which are not already P-members of the committee.</b></p>  <p>Note: The committee secretary shall distribute this NWIP to the countries listed above to see if they wish to participate in this work</p>	
<p><b>Proposed Project Leader</b> (name and e-mail address)</p> <p><a href="mailto:wanbiyu@scitylab.org">Dr. Wan Biyu</a> <a href="mailto:wanbiyu@scitylab.org">wanbiyu@scitylab.org</a></p>	<p><b>Name of the Proposer</b> (include contact information)</p> <p><a href="#">Li Yubing</a></p>
<p><b>This proposal will be developed by:</b></p> <p><input checked="" type="checkbox"/> An existing Working Group:      <a href="#">ISO/TC 268/SC 1/WG 4</a></p> <p><input type="checkbox"/> A new Working Group:</p> <p>(Note: establishment of a new WG must be approved by committee resolution)</p> <p><input type="checkbox"/> The TC/SC directly</p> <p><input type="checkbox"/> To be determined:</p>	

**Supplementary information relating to the proposal**

- This proposal relates to a new ISO document
- This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item
- This proposal relates to the re-establishment of a cancelled project as an active project

Other:

**Maintenance agencies and registration authorities**

- This proposal requires the service of a maintenance agency. If yes, please identify the potential candidate:
  
- This proposal requires the service of a registration authority. If yes, please identify the potential candidate:

NOTE: Selection and appointment of the MA or RA is subject to the procedure outlined in the ISO/IEC Directives, Annex G and Annex H, and the RA policy in the ISO Supplement, Annex SN.

- Annex(es) are included with this proposal (give details)

**Additional information/question(s)**