



**Proposal to ISWIM Board to Establish  
Working Group to Promote Best Practices in WIM through “WIM BEST”  
Publication Series**

1. **Working Group (WG) Title:** Working Group to Promote Best Practices in WIM
2. **Objective:** to support a community of WIM practitioners and end users with practical WIM recommendations based on evidence. ISWIM is a non-profit International Society dedicated to the promotion of WIM, composed of scientist, end users and a college of vendors and consultants, and thus is a neutral party who is able to evaluate the findings from both research and best practices, and make recommendations that represent an agreement of the WIM community as whole.
3. **Deliverables:** deliver series of publications that fit a broad definition of “Practical WIM Implementation Notes.”
  - a. Developed and published on behalf of ISWIM, i.e. the ISWIM Board serves as the decision body.
  - b. Publications will be fully objective, free of any commercial interest.
  - c. Each publication will focus on a single well-defined practical topic related to WIM data collection or usage.
  - d. Publications will be less than 50 pages in length.
  - e. Several publications may be organized in a single volume if related together (e.g. all subjects are related to WIM for Enforcement).
  - f. Publication frequency will depend on the topic complexity, with a target to be e-published quarterly or semi-annually.
4. **Eligibility to participate:** WG will include well-known WIM researchers, WIM technology experts, experienced WIM practitioners, and experienced end users. The WG will include representatives from different countries to ensure that voices of ISWIM constituency are heard across the board.
5. **Governance:**
  - a. The WG formation requires the approval by the ISWIM Board (Board).
  - b. The WG will report to the Board.
  - c. Any WIM expert that requests a compensation for writing for the “WIM BEST” Publication Series should submit a proposal with a detailed description of the deliverable and the proposed budget to the ISWIM Board for approval, prior to engaging in any pay-for-activities.

## 6. Organizational Structure (Overall):

- a. The WG will consist of technical sub-groups (SGs). See SG description in §7 and 8.
- b. The WG governance will consist of a Steering Committee formed of the WG leader and the SGs leaders.
- c. The WG will be supported by facilitator(s)/editorial team, to assist the Steering Committee as a technical secretariat and with editing tasks.
- d. **WG Chair:** The chair is responsible for the overall group management, publication planning and scheduling, reporting to ISWIM Board, and quality assurance of the deliverables. The chair for the WG should be an experienced WIM professional with previous experience leading similar efforts, including publishing WIM technical guides or manuals for end-user audience. The chair should be a member of ISWIM board.
  - i. *The nominee Dr. Selezneva has led the development of the FHWA WIM Pocket Guide series and the development of the WIM guides for U.S. state agencies, including Successful Practices in Weigh-in-Motion Data Quality with WIM Guidebook (2017) for Arizona DOT, WIM Operations Manual for Arizona DOT, WIM Data Quality Assurance Manual (2018) for Florida DOT, Practical Guide and Tools to Assure Quality of WIM Data Collection (on-going) for TRB NCHRP. She is an ISWIM Board member.*
- e. **SGs leaders:** the proposed SG and leaders are given in §8 below.
- f. **Facilitators/Editorial Team:** the facilitators/technical editors should be experienced WIM professionals with previous experience facilitating technical meetings, forming consensus, preparing and publishing WIM technical guides or manuals focused on end-user audience.
  - i. *The facilitator nominee: Mr. Hans van Loo, assisted by Mr. Leonardo Guerson.*
  - ii. *The technical editor nominee: Mr. Chris Koniditsiotis*

## 7. Technical Sub-Groups (General):

- a. The WG technical activities will be supported by the sub-group (SG) leads and SG members. The SGs will be formed around the topics selected for publication. SG will be supported by volunteer members who are members of ISWIM.
- b. The sub-group (SG) leader candidates can be self-nominated or nominated by the Board members. Qualified nominees who are members of the ISWIM Board will be given the first priority. If a vendor is the best qualified to be a SG leader, he/she should be paired with a co-leader that has a full neutrality to the technology to avoid any "lobbying."
- c. The sub-group members will be ISWIM members. SG leader may nominate members of his/her sub-group. The priority will be given based on the experience and relevance to SG topic and commitment to participate in SG activities. Vendors participating in SG should have clearly defined tasks and must commit to product neutrality in their deliverables. SG leader will be responsible for assuring that vendors deliverables are free of any lobbying materials.

8. **Technical Sub-Groups (Topical Focus):** the topics listed in paragraph 11 are grouped and allocated to the following SG

**SG1. WIM System Selection, Installation and Financing Decisions** - proposed leader: Victor Dolcemascolo (possible co-leader: Jesus Leal or Jonathan Regehr) in charge of the topics a., b., c., d. and e. (see §10), covering WIM practitioners and User Perspectives. These topics require participation of the WIM vendor college representatives.

**SG2. Best Practices for WIM Data Quality Assurance** - proposed leader: Andy Lee or Deborah Walker (possible co-leader: Jonathan Regehr or Jesus Leal)  
in charge of the topics e. (partly), f., g., h and i. (see §10)

These topics require participation of the WIM vendor college representatives.

**SG3. WIM for Infrastructure Engineering** - proposed leader: Aleš Žnidarič (possible co-leader for pavement: Chia-Pei Chou or Olga Selezneva)  
incl. pavements and bridges, in charge of the topics j. and k. (see §10)

**SG4. WIM for Highway Freight Monitoring, Planning, Safety, and Tolling** - proposed leader: Chris Koniditsiotis or Jonathan Regehr  
in charge of the topics l., m. and n. (see §10)

**SG5. WIM for Enforcement** - proposed leader: Bernard Jacob (proposed co-leader: Adriana Antofie)  
in charge of the topics o. and p. (see §10)

**SG6. WIM Standard and Testing Procedures** - proposed leader: Adriana Antofie (proposed co-leader: Bernard Jacob)  
in charge of the topic q. and part of p. (see §10)

**9. Topics or Tasks (General):**

- a. The topics will be nominated by the core WG and approved by the Board.
- b. Topics or tasks selected by WG should result in a publication that has the following attributes:
  - i. Covers topics important to WIM community.
  - ii. Promotes best practices that are based on evidence and lead to sustainable high-quality WIM data collection.
  - iii. Focuses on practical aspects of WIM implementation.
  - iv. Focuses on addressing end-user needs.

**10. Topics (Candidates):** the following topics are identified as potential publication candidates:

- a. WIM Sensor Selection Guidance
- b. Sensor Arrays for Different Applications
- c. Desired WIM Controller Functionality for Highway Applications
- d. Financing Decisions for the WIM Data Collection and Processing
- e. Best practices in WIM Site Selection
- f. Best Practices in WIM Installation Quality Assurance
- g. Best Practices in Highway WIM Calibration
- h. Best Practices in Bridge WIM Calibration
- i. Best Practices in WIM Data Quality Assurance
- j. WIM Data for Pavement Engineering: What Should I know, What Should I Do?
- k. WIM Data for Bridge Engineering: What Should I know, What Should I Do?
- l. WIM Data for Road Safety: What Should I know, What Should I Do?
- m. Highway Freight Monitoring: How Can WIM Data Help?
- n. WIM for Tolling: Highway and Freight Tolling
- o. WIM Data for Enforcement: What Should I know, What Should I Do?
- p. WIM for Enforcement: Regulations and Challenges
- q. WIM standards and testing procedures

**11. Work Group Duration:** on-going