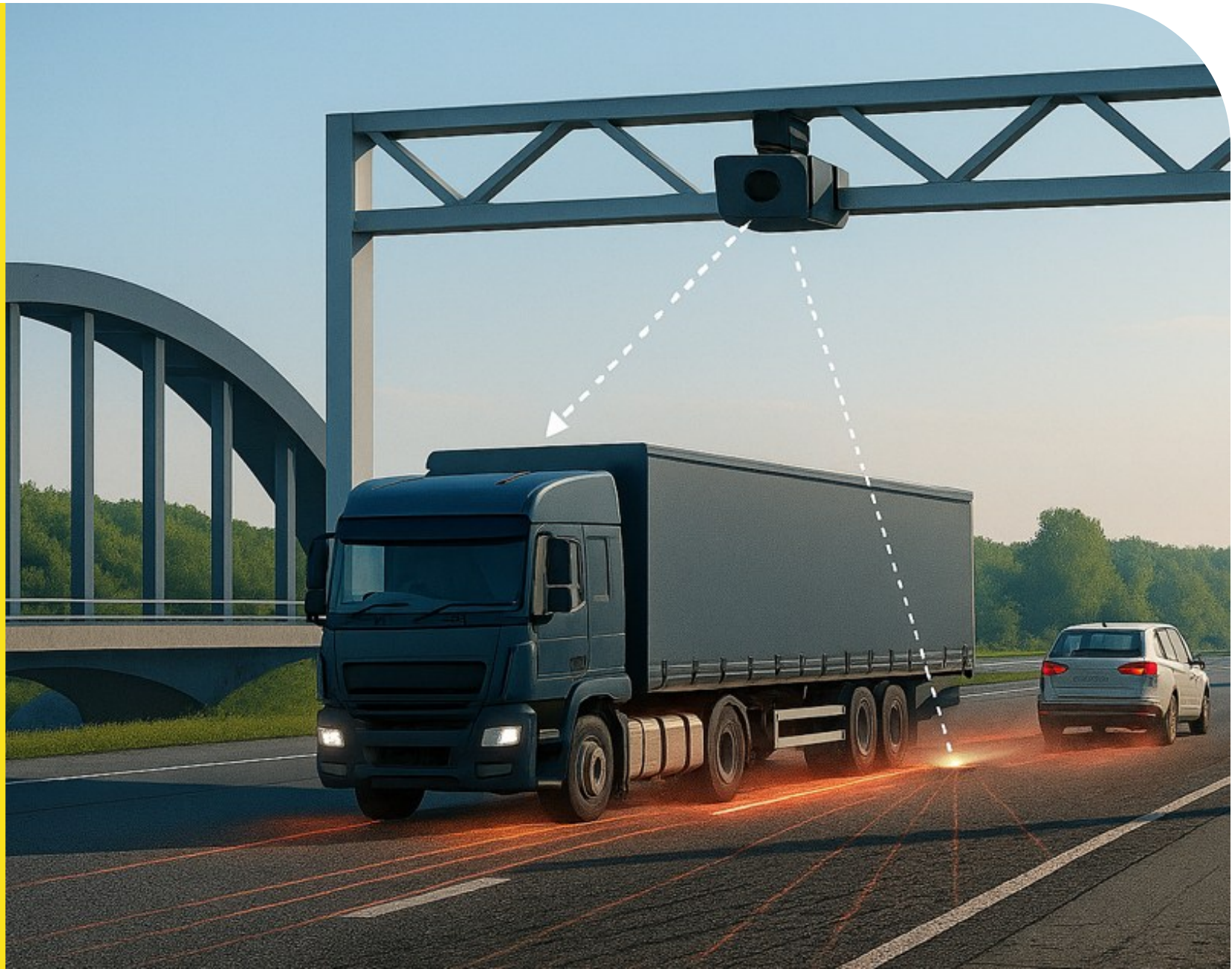


Information meeting

*Market Consultation
Weigh in Motion*

14 april 2026



Purpose of this information meeting

- Clarify any uncertainties regarding the questionnaire
- Provide further explanation about the 'how and why' of this Market exploration/consultation

Contents

1. Welcome and introductions
2. Introducing Rijkswaterstaat
3. Goals Weigh in Motion 2.0
4. Questions Market Consultation
5. Process Market Consultation
6. Questions
7. Wrap up

Welcome and introductions

- Recording
- Introduction of RWS team
- Introduction of market participants

Introducing Rijkswaterstaat

Mission Rijkswaterstaat:

**Working together towards a safe, liveable and accessible Netherlands.
That is Rijkswaterstaat.**

Rijkswaterstaat is the executive agency of the Ministry of Infrastructure and Water Management. We manage and develop the national road network, waterways and water systems, and we are committed to a sustainable living environment.

Together with others, we work towards a country that is protected against flooding. A country with sufficient green space and with enough clean water. And a country where people and goods can travel smoothly and safely from A to B.

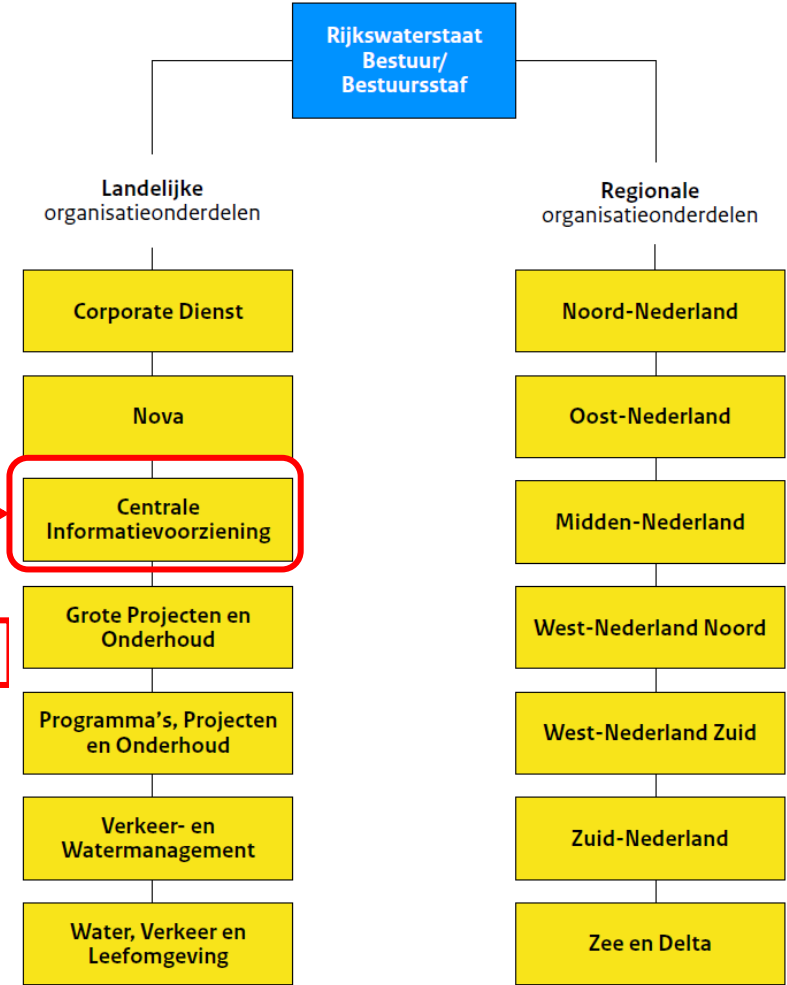
Introduction to Rijkswaterstaat



RWS organization

How it must happen

Partner RWS & Market



What must happen



Purpose of the market consultation

By actively contributing to this market consultation, you help RWS align **technical feasibility, operational maturity** and **cost realism** at an early stage, **strengthening the business case** and increasing the likelihood that a future procurement will be based on **realistic requirements, achievable technology** and a **level playing field** for market parties.

Goals WIM 2.0

Goals WIM 2.0

Minimising impact on assets

If vehicles exceed the permitted weight limits, this negatively affects the rate at which roads and engineering structures deteriorate. This impact must therefore be prevented.

Improving road safety

If heavier vehicles operate beyond permitted limits, they can cause damage to engineering structures. These vehicles may also have different driving dynamics, such as longer braking distances and reduced manoeuvrability, which poses risks to public safety. This can also lead to congestion and disruptions on the road network. Such situations must be prevented.

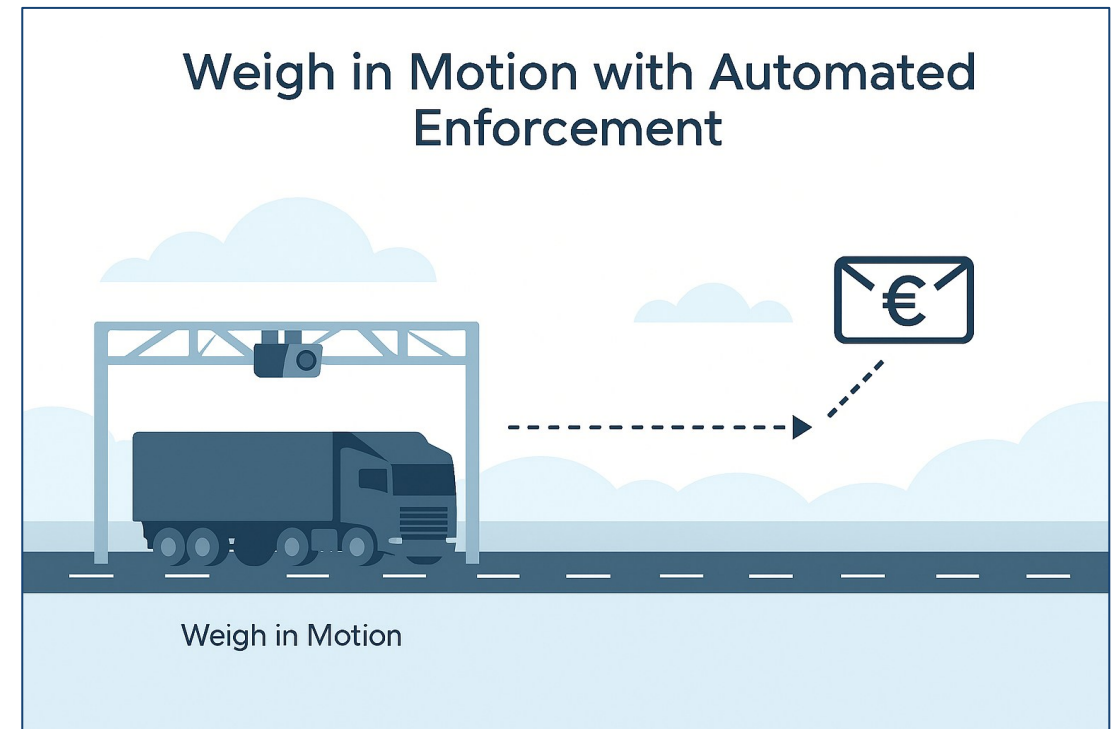
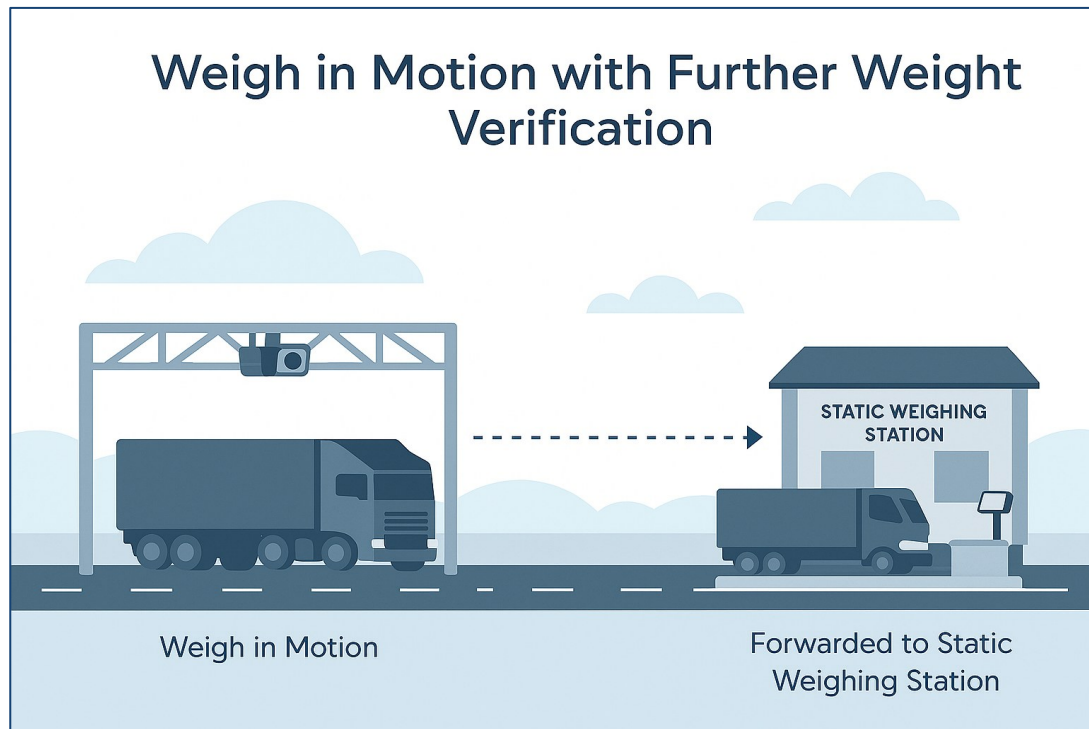
Level playing field for transport operators

When vehicles are loaded beyond legal limits, operators who do so gain a cost advantage over compliant competitors. In other words, non-compliance becomes economically attractive. This undermines fair competition and must therefore be prevented.

Gaining insight into actual asset loading behaviour

We aim to understand how different vehicle types and load levels affect RWS assets in practice, in order to better assess and predict asset lifespans.

WIM today versus WIM tomorrow



2026

Transition

Decommissioning of current systems and installation of new locations. At each location, either the existing system or the new system will be operational on a carriageway. The assumption is that systems are not operated in parallel.

Current assumption: 2050

- 13 'fixed' locations (26 systems) with Weigh in Motion
- Multiple 'flexible' systems at critical structures

Goals market consultation

Purpose of the market consultation

- Gaining insight into the **feasibility of using WIM for automated enforcement**
- Gaining insight into **the conditions under which automated in-road and bridge WIM is possible**
- Collecting input for several components of the Project Initiation Document (including **business case refinement**)
- Gaining insight into **the impact of technological changes** on the installed WIM systems up to 2050

Target group

Suppliers with proven WIM experience are the target group of this consultation and are expected to organise and take responsibility for all integration capabilities required for their solution, including the involvement of an ITS integrator where appropriate.

Scope of the market consultation

Part of market consultation

- **System Certification,**
- **Data Quality Control (DQM)**

Not part of market consultation

- **Legal Acceptance**

Questions market consultation

The Questionnaire: general guidance

Part	Title	Purpose
Part 1	Questions on Future-proofing & Innovation	To understand how future-proof WIM systems are, including their ability to adapt to technological developments, evolving vehicle characteristics, and changing regulatory requirements over a long lifecycle.
Part 2	Questions on Introduction Strategy & Preconditions	To gain insight into realistic and responsible implementation strategies for WIM in the Netherlands, including necessary operational, technical and legal preconditions for a gradual and feasible introduction.
Part 3	Questions on Costs, Risks & Benefits (Lifecycle / Business)	To obtain an overview of lifecycle costs, key risks and opportunities, and the societal and economic benefits of WIM systems, in order to support long-term decision-making and business case development.
Part 4	Questions on Design, Maintenance & Quality (Engineering / Metrology)	To identify design principles, maintenance strategies and quality assurance mechanisms that contribute to reliable performance, long-term accuracy and cost-effective operation of WIM systems.
Part 5	Questions on System Integration & Chain (ITS / Data / Interfaces)	To understand how WIM systems can be effectively integrated into the broader ITS and data ecosystem, including dependencies, interfaces and responsibilities within the enforcement and data processing chain
Part 6	Final Open Question	To provide market parties with the opportunity to share additional insights, innovations, concerns or risks that may not be covered by the structured questions but are relevant for the successful development of WIM 2.0.

The Questionnaire: general guidance

RWS BEHOEFTVERHOUDEN FINAL Market exploration or consultation document 26 March 2026 5 Annex – MUST-HAVES / NICE-TO-HAVES 1. MUST-HAVES 1.1 Compliance with OIML R134:2006 WIM systems must comply with the internationally recognized OIML R134 standard for vehicles in motion, because this standard: • forms the basis for future legal enforcement, • sets conditions for error margins, stability, and test protocols, • is a necessary requirement for NMI certification. RWS requests suppliers to specify which variants of their systems are already certified, in which year, and with which accuracy class. 1.2 Certifiable by NMI and suitable for periodic re-verification The system must: • be technically suitable for initial verification and periodic verification, • suppliers must describe how they ensure ongoing certification compliance, • systems must support an auditable metrological history (traceable verifications, component changes, software versions). Clarification: WIM will be deployed at least until 2050; systems must therefore be capable of remaining certified on a structural basis. 1.3 Installation in accordance with COST 323 These standards safeguard, among other things: • requirements for asphalt quality, flatness, and foundation, • sensor positioning and tolerances, • optimal conditions to ensure accurate axle load measurements, • conditions to prevent failures and deformation, • correct processing of variations in tire configurations (such as super single and dual wheel). Suppliers are asked to indicate which civil engineering conditions are required for their system and which tolerances are acceptable. 1.4 Data traceability & audit trail according to metrological principles The system must provide raw data that is: • fully traceable (timestamp, lane, raw sensor data, temperature, statuses), • non-manipulable, • reproducible in legal review, • enriched with sufficient metadata to enable verification by NMI/ILT. This is necessary for future enforcement chains. 1.5 Lifetime & maintenance suitable for deployment until 2050 Given the lifecycle of WIM 2.0, the system must: • support an operational lifetime of at least 15–20 years, • allow modular maintenance and replacement, • include clear remote monitoring and service procedures, • operate reliably under all traffic conditions, including congestion and closely spaced vehicles, • withstand civil degradation of the road surface (such as porous asphalt wear, rutting, or settlement) and include procedures for periodic civil inspection to maintain measurement performance, Pagina 18 van 22	RWS BEHOEFTVERHOUDEN FINAL Market exploration or consultation document 26 March 2026 • exhibit predictable drift behaviour and include mechanisms for detecting and compensating measurement drift over time and temperature. Suppliers are asked to describe their maintenance strategy and lifecycle planning. 1.6 Prepared for future legal enforcement Although enforcement lies outside the scope of RWS, the system must be technically capable of meeting future requirements such as: • mandatory data redistribution, • tamper-proof data logging, • complete dataset for fine processing (lane, vehicle image, raw signals), • connection to ILT/ON/CIS chains. The market must indicate which functionalities are already available and which may need to be developed. 1.7 Adaptability to future legislation and regulations Because the legal framework for automated WIM enforcement in the Netherlands is still evolving, the WIM system must support future-proof adaptations. Suppliers are asked to describe: • how their system can be adapted when legal requirements change (e.g., MPEs, fine-processing requirements, data obligations, certification standards), • which components can be upgraded via software configuration, modular hardware, or updates, • how they handle changes in integration frameworks (e.g., NMI requirements, Metrology Act), • how they can support interoperability with future ILT/ON chain standards. Clarification: The system does not need to meet future legal requirements now, but it must be technically prepared for changes so that investment in WIM 2.0 up to 2050 does not lead to obsolescence or major replacement costs. 1.8 Connection with verification infrastructure for continuous data validation Since international implementations (ISWIM 2026) show that long-term accuracy can only be ensured with a verification infrastructure, suppliers are asked to describe how their system can interoperate with one or more of the following means: • LS WIM (low speed) installations, • static weighbridges (connection with reference data), • ge-certified reference vehicles. Systems must be able to operate within a Data Quality Management process in which periodic and continuous validation is possible without loss of certification status. 1.9 ITS integration capacity (including use of an ITS integrator if required and provided by the supplier) Because WIM systems are part of a broader ITS chain (sensors, cameras, induction loops, communication, asphalt, ANPR, data interfaces, and security layers), suppliers are expected to bring the necessary ITS integration capacity themselves. Suppliers are asked to describe: • whether and why an ITS integrator is needed to deliver a fully functioning system, Pagina 19 van 22	RWS BEHOEFTVERHOUDEN FINAL Market exploration or consultation document 26 March 2026 • which roles and responsibilities this integrator fulfills (e.g., ANPR integration, data routes, network and security configuration, sensor apocrypha, integrity, timestamps, lane mapping), • how the integrator is involved in design, construction, testing, and data quality assurance, • which requirements the supplier places on RWS or other parties to ensure successful integration. Clarification: The chain surrounding WIM 2.0 (cameras, gantries, data transport, security, ANPR, DQM, PSA components) requires an integrated approach. Having suppliers provide their own ITS integrator ensures clear responsibility and reduces implementation risks. 2. NICE-TO-HAVE Requirements (recommended; stimulate innovation and efficiency) 2.1 Validation with reference vehicles A system that, either independently or in combination with RWS validation measurements (e.g., using vehicles with certified axle loads), provides additional verification contributes to: • faster validation of data quality, • insight into deviations, • risk reduction within the chain. 2.2 AI-assisted monitoring and quality analysis AI techniques can help to: • detect anomalies or measurement drift at an early stage, • identify patterns in degradation, • plan maintenance proactively. This supports the RWS objective of data-driven asset management. 2.3 Health monitoring dashboards Dashboards are desired for: • real-time systems status, • visualization of anomalies, • maintenance planning, • insight into historical performance. Explanation: particularly valuable for GPO/CIV in managing a national WIM asset portfolio. 2.4 Expandable architecture Systems that can be expanded with future functionalities, such as: • hazardous materials recognition, • vehicle classification, • integration with traffic models, • additional sensors (LIDAR/RADAR), • embedded pavement sensor technology. are attractive because WIM 2.0 is a ecosystem running until 2050 in which innovations may be integrated. Pagina 20 van 22	RWS BEHOEFTVERHOUDEN FINAL Market exploration or consultation document 26 March 2026 6 Annex – Relevant Vehicle Categories <table><thead><tr><th colspan="2">WIM-M1 vehicle sub-classes</th><th colspan="2">WIM-M2 vehicle sub-classes</th></tr><tr><th>sub-class</th><th>symbol</th><th>sub-class</th><th>symbol</th></tr></thead><tbody><tr><td>B11</td><td></td><td>T1201</td><td></td></tr><tr><td>B1A1</td><td></td><td>T1202</td><td></td></tr><tr><td>B1A2</td><td></td><td>T1203</td><td></td></tr><tr><td>B2</td><td></td><td>T1204</td><td></td></tr><tr><td>B12A1</td><td></td><td>T12011</td><td></td></tr><tr><td>B12A2</td><td></td><td>T12021</td><td></td></tr><tr><td>B21</td><td></td><td>T120111</td><td></td></tr><tr><td>B1111</td><td></td><td>T1201111</td><td></td></tr><tr><td>B11111</td><td></td><td>T20011</td><td></td></tr><tr><td>B11112</td><td></td><td>V11</td><td></td></tr><tr><td>B11121</td><td></td><td>V1A1</td><td></td></tr><tr><td>B11113</td><td></td><td>V1A2</td><td></td></tr><tr><td>B11211</td><td></td><td>V1A11</td><td></td></tr><tr><td>B12121</td><td></td><td>V1A12</td><td></td></tr><tr><td>B122</td><td></td><td>V2</td><td></td></tr><tr><td>B1221</td><td></td><td>V2A1</td><td></td></tr><tr><td>B1222</td><td></td><td>V2A2</td><td></td></tr><tr><td>B12211</td><td></td><td>V3</td><td></td></tr><tr><td>B12212</td><td></td><td>V3A1</td><td></td></tr><tr><td>B12213</td><td></td><td>V3A2</td><td></td></tr><tr><td>B12221</td><td></td><td>V21</td><td></td></tr><tr><td>B12222</td><td></td><td>V22</td><td></td></tr><tr><td>B12223</td><td></td><td>V2A11</td><td></td></tr><tr><td>B12224</td><td></td><td>V2A12</td><td></td></tr><tr><td>B12225</td><td></td><td>V11</td><td></td></tr><tr><td>B12226</td><td></td><td>V12</td><td></td></tr><tr><td>B12227</td><td></td><td>V211</td><td></td></tr><tr><td>B12228</td><td></td><td>V212</td><td></td></tr><tr><td>B12229</td><td></td><td>V213</td><td></td></tr><tr><td>B12230</td><td></td><td>V214</td><td></td></tr><tr><td>B12231</td><td></td><td>V215</td><td></td></tr><tr><td>B12232</td><td></td><td>V216</td><td></td></tr><tr><td>B12233</td><td></td><td>V217</td><td></td></tr><tr><td>B12234</td><td></td><td>V218</td><td></td></tr><tr><td>B12235</td><td></td><td>V219</td><td></td></tr><tr><td>B12236</td><td></td><td>V220</td><td></td></tr><tr><td>B12237</td><td></td><td>V221</td><td></td></tr><tr><td>B12238</td><td></td><td>V222</td><td></td></tr><tr><td>B12239</td><td></td><td>V223</td><td></td></tr><tr><td>B12240</td><td></td><td>V224</td><td></td></tr><tr><td>B12241</td><td></td><td>V225</td><td></td></tr><tr><td>B12242</td><td></td><td>V226</td><td></td></tr><tr><td>B12243</td><td></td><td>V227</td><td></td></tr><tr><td>B12244</td><td></td><td>V228</td><td></td></tr><tr><td>B12245</td><td></td><td>V229</td><td></td></tr><tr><td>B12246</td><td></td><td>V230</td><td></td></tr><tr><td>B12247</td><td></td><td>V231</td><td></td></tr><tr><td>B12248</td><td></td><td>V232</td><td></td></tr><tr><td>B12249</td><td></td><td>V233</td><td></td></tr><tr><td>B12250</td><td></td><td>V234</td><td></td></tr><tr><td>B12251</td><td></td><td>V235</td><td></td></tr><tr><td>B12252</td><td></td><td>V236</td><td></td></tr><tr><td>B12253</td><td></td><td>V237</td><td></td></tr><tr><td>B12254</td><td></td><td>V238</td><td></td></tr><tr><td>B12255</td><td></td><td>V239</td><td></td></tr><tr><td>B12256</td><td></td><td>V240</td><td></td></tr><tr><td>B12257</td><td></td><td>V241</td><td></td></tr><tr><td>B12258</td><td></td><td>V242</td><td></td></tr><tr><td>B12259</td><td></td><td>V243</td><td></td></tr><tr><td>B12260</td><td></td><td>V244</td><td></td></tr><tr><td>B12261</td><td></td><td>V245</td><td></td></tr><tr><td>B12262</td><td></td><td>V246</td><td></td></tr><tr><td>B12263</td><td></td><td>V247</td><td></td></tr><tr><td>B12264</td><td></td><td>V248</td><td></td></tr><tr><td>B12265</td><td></td><td>V249</td><td></td></tr><tr><td>B12266</td><td></td><td>V250</td><td></td></tr><tr><td>B12267</td><td></td><td>V251</td><td></td></tr><tr><td>B12268</td><td></td><td>V252</td><td></td></tr><tr><td>B12269</td><td></td><td>V253</td><td></td></tr><tr><td>B12270</td><td></td><td>V254</td><td></td></tr><tr><td>B12271</td><td></td><td>V255</td><td></td></tr><tr><td>B12272</td><td></td><td>V256</td><td></td></tr><tr><td>B12273</td><td></td><td>V257</td><td></td></tr><tr><td>B12274</td><td></td><td>V258</td><td></td></tr><tr><td>B12275</td><td></td><td>V259</td><td></td></tr><tr><td>B12276</td><td></td><td>V260</td><td></td></tr><tr><td>B12277</td><td></td><td>V261</td><td></td></tr><tr><td>B12278</td><td></td><td>V262</td><td></td></tr><tr><td>B12279</td><td></td><td>V263</td><td></td></tr><tr><td>B12280</td><td></td><td>V264</td><td></td></tr><tr><td>B12281</td><td></td><td>V265</td><td></td></tr><tr><td>B12282</td><td></td><td>V266</td><td></td></tr><tr><td>B12283</td><td></td><td>V267</td><td></td></tr><tr><td>B12284</td><td></td><td>V268</td><td></td></tr><tr><td>B12285</td><td></td><td>V269</td><td></td></tr><tr><td>B12286</td><td></td><td>V270</td><td></td></tr><tr><td>B12287</td><td></td><td>V271</td><td></td></tr><tr><td>B12288</td><td></td><td>V272</td><td></td></tr><tr><td>B12289</td><td></td><td>V273</td><td></td></tr><tr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vehicle sub-classes		WIM-M2 vehicle sub-classes		sub-class	symbol	sub-class	symbol	B11		T1201		B1A1		T1202		B1A2		T1203		B2		T1204		B12A1		T12011		B12A2		T12021		B21		T120111		B1111		T1201111		B11111		T20011		B11112		V11		B11121		V1A1		B11113		V1A2		B11211		V1A11		B12121		V1A12		B122		V2		B1221		V2A1		B1222		V2A2		B12211		V3		B12212		V3A1		B12213		V3A2		B12221		V21		B12222		V22		B12223		V2A11		B12224		V2A12		B12225		V11		B12226		V12		B12227		V211		B12228		V212		B12229		V213		B12230		V214		B12231		V215		B12232		V216		B12233		V217		B12234		V218		B12235		V219		B12236		V220		B12237		V221		B12238		V222		B12239		V223		B12240		V224		B12241		V225		B12242		V226		B12243		V227		B12244		V228		B12245		V229		B12246		V230		B12247		V231		B12248		V232		B12249		V233		B12250		V234		B12251		V235		B12252		V236		B12253		V237		B12254		V238		B12255		V239		B12256		V240		B12257		V241		B12258		V242		B12259		V243		B12260		V244		B12261		V245		B12262		V246		B12263		V247		B12264		V248		B12265		V249		B12266		V250		B12267		V251		B12268		V252		B12269		V253		B12270		V254		B12271		V255		B12272		V256		B12273		V257		B12274		V258		B12275		V259		B12276		V260		B12277		V261		B12278		V262		B12279		V263		B12280		V264		B12281		V265		B12282		V266		B12283		V267		B12284		V268		B12285		V269		B12286		V270		B12287		V271		B12288		V272		B12289		V273		B12290		V274		B12291		V275		B12292		V276		B12293		V277		B12294		V278		B12295		V279		B12296		V280		B12297		V281		B12298		V282		B12299		V283		B12300		V284		B12301		V285		B12302		V286		B12303		V287		B12304		V288		B12305		V289		B12306		V290		B12307		V291		B12308		V292		B12309		V293		B12310		V294		B12311		V295		B12312		V296		B12313		V297		B12314		V298		B12315		V299		B12316		V300		B12317		V301		B12318		V302		B12319		V303		B12320		V304		B12321		V305		B12322		V306		B12323		V307		B12324		V308		B12325		V309		B12326		V310		B12327		V311		B12328		V312		B12329		V313		B12330		V314		B12331		V315		B12332		V316		B12333		V317		B12334		V318		B12335		V319		B12336		V320		B12337		V321		B12338		V322		B12339		V323		B12340		V324		B12341		V325		B12342		V326		B12343		V327		B12344		V328		B12345		V329		B12346		V330		B12347		V331		B12348		V332		B12349		V333		B12350		V334		B12351		V335		B12352		V336		B12353		V337		B12354		V338		B12355		V339		B12356		V340		B12357		V341		B12358		V342		B12359		V343		B12360		V344		B12361		V345		B12362		V346		B12363		V347		B12364		V348		B12365		V349		B12366		V350		B12367		V351		B12368		V352		B12369		V353		B12370		V354		B12371		V355		B12372		V356		B12373		V357		B12374		V358		B12375		V359		B12376		V360		B12377		V361		B12378		V362		B12379		V363		B12380		V364		B12381		V365		B12382		V366		B12383		V367		B12384		V368		B12385		V369		B12386		V370		B12387		V371		B12388		V372		B12389		V373		B12390		V374		B12391		V375		B12392		V376		B12393		V377		B12394		V378		B12395		V379	
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Accuracy, Civil Conditions & Enforcement

RWS considers accuracy, civil conditions and enforcement holistically and invites the market to share international experience to determine what performance is realistically achievable, certifiable and legally defensible under Dutch conditions.

At the same time, RWS acknowledges legal uncertainties and seeks market insight into how systems can remain robust and adaptable as the legal framework evolves.

Opportunities

RWS explicitly invites the market to think along and share opportunities that can strengthen the technical, civil-engineering and operational feasibility of WIM systems over the full lifecycle.

Examples of opportunities we are keen to explore together include:

- **Technological opportunities**
Innovations in sensors, cameras, AI-driven monitoring, self-diagnostics or data processing that improve robustness, accuracy and maintainability over time.
- **Civil-engineering opportunities**
Better alignment between WIM system performance and pavement behaviour (e.g. ZOAB), improved installation concepts, modular sensor replacement, or smarter interaction with civil maintenance regimes.
- **Operational opportunities**
Standardisation, remote monitoring, predictive maintenance, improved data-quality management, or more efficient integration into the ITS and enforcement chain.
- **Lifecycle and scalability opportunities**
Architectures that support phased rollout, upgrades and future functionalities without major reinvestments up to 2050.
- **International experience and best practices**
Lessons learned from comparable deployments abroad that have demonstrably improved reliability, acceptance, cost control or enforceability.

Market parties are explicitly invited to share their ideas, experiences and perspectives on where such opportunities exist and how they could contribute to a more robust, efficient and future-proof WIM system in the Dutch context.

Process market consultation

Planning

Today

Activity	Date and Time
Publication of the market consultation document on TenderNed	Wed. 1 April 2026
Submission of questions for the information meeting (see Section 3.1.2)	Fri. 10 April 2026
Final date for registration	Mon. 13 April 2026
Online (MS Teams) information meeting for market parties (see Section 3.1.3)	Tue. 14 April 2026, 13:00–14:30 hours
Final date for submitting questions about the market consultation document	Thu. 23 April 2026
Publication of the Information Notice	Thu. 7 May 2026
Final date for submitting the completed questionnaire (phase 1) (see Section 3.1.4)	Thu. 14 May 2026
Invitation to participate in individual clarification meetings (if applicable)	Wed. 3 June 2026
Dates for possible individual clarification meetings (see Section 3.1.5)	Tue. 9 June and Wed. 10 June 2026
Completion and publication of the final report	End of June 2026

Phase 1

Phase 2

Planning

Activity	Date and Time
Publication of the market consultation document on TenderNed	Wed. 1 April 2026
Submission of questions for the information meeting (see Section 3.1.2)	Fri. 10 April 2026
Final date for registration	Mon. 13 April 2026
Online (MS Teams) information meeting for market parties (see Section 3.1.3)	Tue. 14 April 2026, 13:00–14:30 hours
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Dates for possible individual clarification meetings (see Section 3.1.5)	Tue. 9 June and Wed. 10 June 2026
Completion and publication of the final report	End of June 2026

- Market parties are asked to clearly indicate in advance which information is confidential and/or business-critical. The final report contains no commercial or business-sensitive information and will not be presented to market parties for approval.

Planning

Activity	Date and Time
Publication of the market consultation document on TenderNed	Wed. 1 April 2026
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Completion and publication of the final report	End of June 2026

- Communication concerning the market consultation through: inkoopcentrum-iv@rws.nl

Questions and discussion

Questions and discussion

Wrap up

Purpose of the market consultation

By actively contributing to this market consultation, you help RWS align technical feasibility, operational maturity and cost realism at an early stage, strengthening the business case and increasing the likelihood that a future procurement will be based on realistic requirements, achievable technology and a level playing field for market parties.

End