

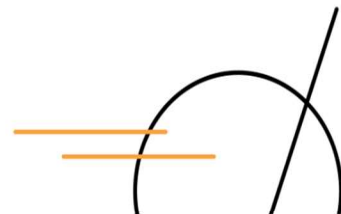
**Netivei
Ayalon**

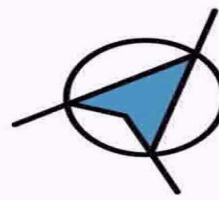
Advanced
Transportation
for Israel

Technology and Innovation Division

Online Request for Proposals for Integration of Technologies at the National Test Center for Smart Transportation

July 2020





**Netivei
Ayalon**

Advanced
Transportation
for Israel

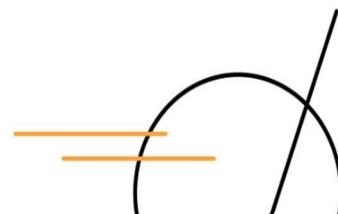
Technology and Innovation Division

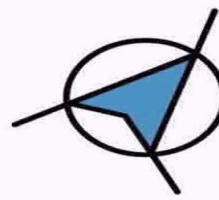
1. Background

- 1.1. Ayalon Highways Ltd. ("**Netivei Ayalon**" / the "**Company**") is a government company responsible for advancing the planning and execution of transportation projects and is an executive arm of the Ministry of Transportation.
- 1.2. In June 2016, the Company became a state-owned company wholly owned by the State of Israel. As a result, the Company's areas of activity have recently been substantially defined and expanded, as part of a resolution reached by the Socioeconomic Cabinet on 9.3.2017 (Resolution No. heit-kaf/62).
- 1.3. In accordance with the above resolution, the Company is intended to be an arm for carrying out government tasks through the Ministry of Transport and to engage, among other things, in planning, promoting, managing and executing urban and metropolitan transportation projects, including those promoting public transportation and reducing the use of private vehicles across the country, **as well as management, initiation and development of projects in the world of transport innovation and technology and adapting infrastructure to technological developments in vehicles and road facilities.**
- 1.4. In addition to the aforesaid, and in accordance with Government Resolution No. 2316 dated 22.1.2017, promoted by the Ministry of Transportation, in cooperation with Fuel Substitute Administration and Smart Transportation at the Prime Minister's Office and other entities, a national plan for smart transportation. In this context, it was decided, among other things, to encourage research and development, entrepreneurship and industry in the field of smart transportation in Israel and to streamline the transportation system by encouraging the integration of advanced technologies in the field of transportation, including autonomous, electric and interconnected vehicles, collaborative models, transportation information monitoring and processing technologies and innovative concepts in operating transportation services, and to bring to fruition the economic and social benefits inherent in these technologies, with an emphasis on reducing oil use, reducing road congestion and cost of living, improving road safety, environmental protection and development of the technology industry.

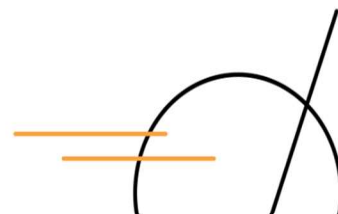
2. National Test Center for Smart Transportation

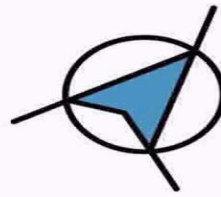
- 2.1. The field of smart transportation and construction of technologies and solutions in the field of Autonomous Vehicles (AV) has been gaining momentum in recent years throughout the world and in Israel, and today there are hundreds of start-up companies in Israel that are



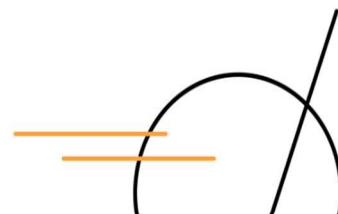


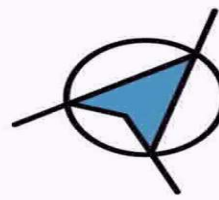
- engaged in the development of various technologies in the field, and as part of their activities, they are required to conduct testing safely.
- 2.2. To this end, Netivei Ayalon have established a test center for autonomous vehicles that supports smart transportation (the “**Test Center**”). As part of these activities and as a basic part of the Test Center’s activities, Netivei Ayalon makes a constant effort to locate, establish, operate and manage sites / testing fields / testing facilities throughout the country, some permanent and some temporary, where tests can take place. This is in order to enable a broad examination of different autonomous scenarios, technologies and steps carried out by smart transport researchers from Israel and around the world (hereinafter: the “**Researchers**”).
 - 2.3. The National Test Center is intended to serve as a collection of multi-purpose sites that will be used to examine various elements in the field of transportation, including:
 - 2.3.1. Examination and demonstration of products and/or concepts (smart traffic lights, V2X communication systems, identification systems, various sensors and the like).
 - 2.3.2. Examination of technologies and their usefulness in the field of smart and autonomous transportation.
 - 2.3.3. Examination of the suitability of vehicle systems, highly autonomous vehicles and/or autonomies for smart infrastructure facilities.
 - 2.3.4. Examination of different vehicle autonomy levels.
 - 2.3.5. Testing in different environments such as intercity roads, urban areas, and simulations of various scenarios such as traffic accidents and emergencies.
 - 2.3.6. Inspection of vehicles including autonomous vehicles for the purposes of development – such as testing on straight roads, curves, tunnels, data collection for “goals”, objects on the road etc.
 - 2.3.7. Inspection of vehicles including autonomous vehicles for the purposes of safety and regulation.
 - 2.3.8. Execution of simulation events.
 - 2.4. These days, the Test Center is working diligently to establish a permanent site on the old skating rink in Ashdod (hereinafter: the “**Permanent Site**”) that will be the Test Center’s primary site. Initially, the Test Center Site will include the following:





- 2.4.1. Intercity road – repaving of the perimeter road (complete and continuous ring) with at least two travel lanes.
- 2.4.2. Main work surface of 100x300 meters – clean surface, paved at a minimum level, with a continuous line of sight to the western and eastern areas by removing shrubs and paved/compacted connecting road at a minimal cost.
- 2.4.3. Different types of carriageway – maintaining the 15x150 concrete surface as road infrastructure.
- 2.4.4. Merging lane – based on road markings only.
- 2.4.5. T-junction – based on road markings only.
- 2.4.6. + junction – based on road markings only.
- 2.4.7. Pedestrian crossing – road markings only; a number of locations throughout the site.
- 2.4.8. Roundabout – based on existing roundabouts, cosmetic treatment only.
- 2.4.9. Parking – perpendicular, diagonal and parallel – road markings only.
- 2.4.10. Various road signs – use of permanent/mobile road signs compatible with legal road signs.
- 2.4.11. Various curbs.
- 2.4.12. Routing and painting.
- 2.4.13. Electrical connections.
- 2.4.14. Connections to water and sewage.
- 2.4.15. Night lighting – required in part of the main work surface, at the entrance to the site, including the northern part of the perimeter road and in the logistics area in the western part of the site.
- 2.4.16. WiFi communications – full coverage of the site by a fast, wireless network.
- 2.4.17. Site mapping – HD mapping.
- 2.4.18. Control and command station (test management room).
- 2.4.19. Researcher room – office container that includes a bathroom, kitchenette and central space.

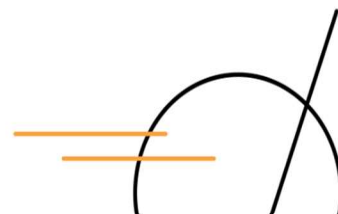


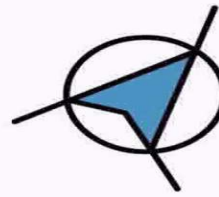


2.4.20. Equipment storeroom.

3. Description of the need

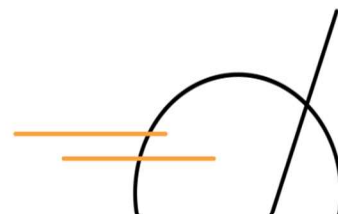
- 3.1. As part of this request for proposals, Netivei Ayalon is reaching out to companies interested in installing their products in the Test Center's Permanent Site in order to examine the possibility of becoming part of the Permanent Site's infrastructure and to be used for the testing to be conducted there.
- 3.2. The proposed products that will be installed at the Permanent Site of the Test Center will be used for the purpose of comparing capabilities, verifying data in the tests conducted on site and carrying out testing (depending on the proposed product).
- 3.3. It shall be noted that in addition to using products installed at the Permanent Site for the purpose of carrying out tests on autonomous vehicles, new technologies and innovative products, installations may also be used for various tests on and improvements of said products, as well as exposure to interested parties.
- 3.4. Such companies that respond to this call and are found to be suitable for the needs of the Test Center (hereinafter: the "**Respondents**"), will be required to meet the following criteria:
 - 3.4.1. Respondents will be required to complete installation of the proposed products by the date of completion of the renovation and preparation of the Permanent Site (Respondents will be notified of this date by the Company).
 - 3.4.2. In the event that product installation does not entail damage to the Test Center's infrastructure, the option will be given to install the products at a later date, with prior written coordination and approval from Netivei Ayalon.
 - 3.4.3. After the proposed products have been installed on site as mentioned above, respondents will be required, during the term of engagement and with coordination with the Company, upgrade and update their products, so that products installed on site are of the most up-to-date version.
 - 3.4.4. Respondents will monitor and maintain the systems they provide and be responsible for recognizing faults and errors (including the reasons for them) and for repairing them immediately, monitor data transfer times, evaluate the function and quality of activity and report this to the Company at their request. In addition, installed systems will have traceability to enable various analyses and examinations to be performed.

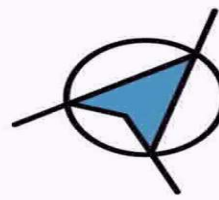




- 3.4.5. Respondents will cooperate with Researchers, provide them with all information required for carrying out the tests at the Test Center and analyzing the results, and maintain confidentiality and reliability of the data while maintaining its availability. In addition, respondents must cooperate in the aspect of using and compliance with various standards and protocols that will be required for execution of the tests.
- 3.4.6. The architecture of installed systems will include data protection architecture as an integral part of said systems. Design of system data protection mechanisms must take into account expected security risks deriving from the need to connect to external interfaces.
- 3.4.7. Systems installed by respondents will have the ability to update and adapt to generations of new products and to interface with future systems, as well as to interface with previous generation systems (backwards compatibility).
- 3.4.8. It is clarified that respondents are obligated to maintain confidentiality, and to the extent necessary will sign confidentiality agreements with the researchers and the Company. Also, to the extent required by researchers, respondents will be required to shut down their products for certain tests.
- 3.4.9. Respondents will not remove their products without prior written notice to the Company at least 6 months before the actual removal date.
- 3.4.10. All installation and removal work will be carried out by prior arrangement with the Company and subject to their prior approval.
- 3.4.11. **It is clarified that respondents will bear all the costs of planning, installation, construction, maintenance, operation and removal** of the technologies and/or software and/or devices, including any associated costs, including insurance costs, cost of equipment supply, costs of respondent's employee and/or staff wages (including full social expenses for them), as well as any additional and/or other expenses, direct and/or indirect, of any kind and type in connection with the use of the product proposed by them at the Test Center.
- 3.4.12. Respondents will be required to sign an engagement agreement in the wording attached as **Appendix 4** to this request.

4. **Manner of handling proposals:**



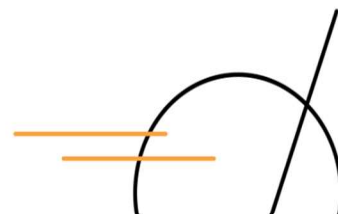


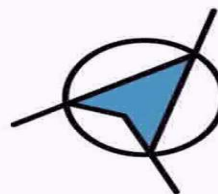
- 4.1. **Stage 1 – Provision of information** – after receiving the information in accordance with that detailed in Appendix 1 and Appendix 2 to this request, and in accordance with the conditions of this automated proposal, Netivei Ayalon will examine responses to the request.
- 4.1.1. Respondents must present all the approvals required by all relevant parties with regard to use of the technology, components or software proposed for testing at the Permanent Site.
- 4.1.2. In the event respondents do not have all the required approvals when submitting their bids, respondents must state this explicitly in their proposal.
- 4.1.3. At this stage, Netivei Ayalon will examine the proposals received from respondents and select respondents who may address the needs of conducting the tests at the Permanent Site, and will invite these respondents to demonstrate the product proposed by them. The choice will be made in accordance with the Company's sole discretion and the nature of the technology presented in the proposal, with emphasis on Netivei Ayalon and the Test Center's value proposition from assimilation of the proposed product or technology.
- 4.1.4. It is clarified that Netivei Ayalon will be entitled to summon respondents that it chooses for the purpose of demonstrating their proposed technology / facility / software as well as the manner in which they will be implemented in the test tender.

Respondents selected by the Company will be required to sign the agreement attached as appendix 2 to the Request for proposals documents.

5. Replies to proposals

- 5.1. Respondents are required to provide the following information in their proposals:
- 5.1.1. **Appendix 1 – General information about the bidder:** controlling entities, years of activity and the main technologies on which the respondent's activities are based. Responses must be submitted in the format of the form in **appendix 1** to the request for proposals.
- 5.1.2. **Appendix 2 – Technical specification of the proposed solution:** In this appendix, respondents are required to provide details of the technical specifications of the products / technologies / facilities / software proposed by them. Respondents are also requested to attach a technical specification of the application technology proposed, including all relevant information such as a presentation, film, photos, documents, experiments, etc. Catalogs, links to websites or any other source detailing the requested information (if any) should also be attached.





6. Schedules

Publication of request	20.7.2020
Final date for clarification questions	30.7.2020 at 12:00
Final date for submitting a response to this request	16.8.2020 at 12:00

7. Guidelines for submitting responses

7.1. Responses to this request, together with all relevant documents and details as specified above, including any relevant information, are to be submitted to the automated system as specified in section 7.2 below.

7.2. Online proposals

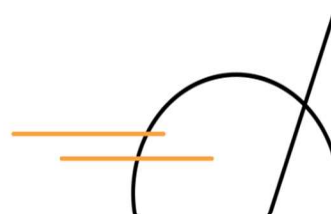
7.2.1. Such proposals shall be managed by the electronic tender system operated and maintained by "Dekel" (the "**Automated System**"), and proposal not submitted through the automated system shall not be received.

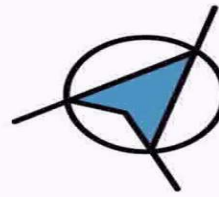
7.2.2. Anyone interested in participating is required to register on the automated system in advance. In order to register in advance, enter the link published by Netivei Ayalon under the "Tenders" tab in the relevant page, enter the required details and send the registration request no later than 48 hours before the final date for submitting proposals / clarification questions. **It is recommended to register early so as not to delay submission of proposals due to delays and possible faults.**

7.2.3. It is clarified that in the event a respondent registered to the automated system in the past, there is no need to register again.

7.2.4. After registration to the request, respondents will receive confirmation of the registration from the system in an email that will include their login details. It is recommended to keep this confirmation.

7.2.5. In the event registration confirmation has not been received, respondents must contact Ms. Katya Goldovich from Dekel on 04-8145400 ext. 1 or email: service@dekel.co.il and ensure registration to the request has been completed. It is the sole responsibility of respondents to ensure registration has been confirmed sufficient time in advance and they have access to the automated system in order to participate in the procedure and respondents hereby waive, in advance and irrevocably, any claim against the Company



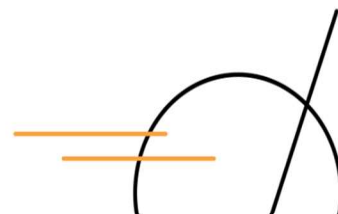


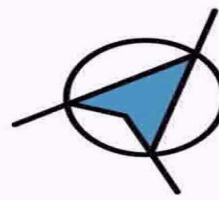
regarding the inability of the respondent to submit a clarification questions / proposal on time through said automated system.

- 7.2.6. Since only respondents who have registered in advanced to this request and provided means of identification as required may submit clarification questions to the procedure / proposals to the request, no claim will be accepted that respondents have refrained from submitting their questions / proposals on time due to any reason, including due to a technical malfunction, lack of a suitable internet connection or unavailability of technical assistance upon completing the registration.
- 7.2.7. Respondents must scan all the response documents signed by him, as specified above, including the appendices, and attach all documents required to support the response.
- 7.2.8. Respondents' attention is directed to the provisions of Appendix 4, which details the conditions of the automated proposal.

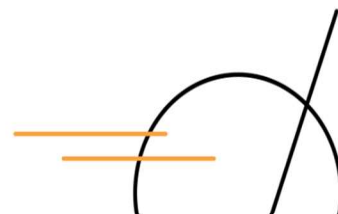
8. General Guidelines:

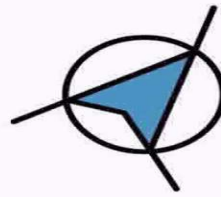
- 8.1. This request does not constitute an invitation to submit bids and is not part of a tender procedure and/or any competitive procedure and therefore does not create any obligation towards any of the respondents.
- 8.2. This request does not constitute any obligation on the part of the Company to publish a tender and/or a competitive procedure regarding this request, or to involve this or that party in a future tender if published, and this procedure does not create an obligation or promise towards participants and/or any person and/or body.
- 8.3. A response to this request for proposals does not constitute an advantage in any such tender / competitive procedure, if published, and does not guarantee compliance with the threshold conditions or any other conditions regarding such a tender / competitive procedure.
- 8.4. In the event the Company decides to publish a tender and/or a competitive procedure as mentioned, they will be entitled to request services different from those presented in this proposal in the tender / competitive procedure, and will be entitled to impose additional or different conditions than those presented in this request, at their sole discretion.
- 8.5. The Company may request clarifications, completions or additional information from anyone who has responded to this request or from other bodies, and all as they see fit.





- 8.6. The Company may summon any of the respondents for the purpose of presenting their response to its representatives. It is clarified that the Company is not obligated to summon all respondents.
- 8.7. Each respondent to this request declares that he agrees that the company may make use of the information provided by him, in whole or in part, for the purposes of preparing a tender or for any other need it deems appropriate.
- 8.8. Respondents are asked to indicate which data and/or documents contained in their submission constitute a trade secret in their opinion. Subject to any law, Netivei Ayalon will maintain confidentiality and will not disclose and/or transmit any information that constitutes a trade secret that has become available to them in this request, except to Netivei Ayalon employees and consultants on its behalf, for who the information is necessary for performance of their duties. It is also clarified that respondents may submit documents and references in which they have blacked out details that are not relevant to this request.
- 8.9. Respondents to this request declare that they waive in advance any claim, including in the matter of intellectual property, and/or a suit and/or demand from the Company or anyone on their behalf and/or on behalf of the Ministry of Transport in respect of the information included in their response or in connection with any clarification questions that follow, in the event there are any.
- 8.10. All expenses associated with preparation of a response to this request and its submission are the sole responsibility of respondents and at their expense. Respondents will not be entitled to any compensation or indemnification or refund or payment of any kind from the Company in respect of submission of a response to this request and the Company will have no liability in this regard.
- 8.11. Respondents providing information in response to this request undertake that no rights, including copyrights or trade secrets of a third party will be infringed by submission of the information and/or any use made of it. Respondents alone will be liable for any demand and/or claim arising from a claim that any rights of such a third party have been infringed.
- 8.12. The Company may cancel this request for proposals at any stage and for any reason.
- 8.13. It is clarified that Netivei Ayalon do not undertake to choose any technology proposed in this request, and that they are within their rights not to apply any technology proposed in this request, and all at their sole discretion.

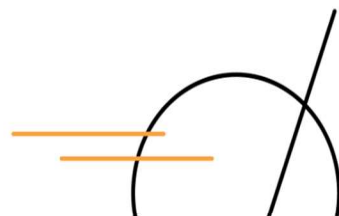


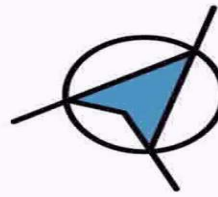


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**Appendix 1 – Profile of respondent to the request for proposals for Integration of Technologies at the
National Test Center for Smart Transportation**

Name: _____ Corporation /L.D. No. _____

Year of establishment: _____ Address: _____

Respondent's contact person: _____ Role: _____ Tel: _____

Email: _____

Names of respondent's owners: 1. _____ ID No. _____

2. _____ ID No. _____

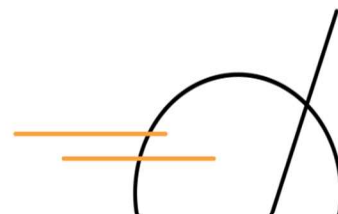
3. _____ ID No. _____

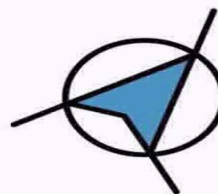
(If corporation owner is a corporation, specify owner of said corporation)

Fields of activity: _____

Controlling factors in the respondent (please specify entities holding 25% and more of the respondent)

* Additional documents and any relevant information may be attached.



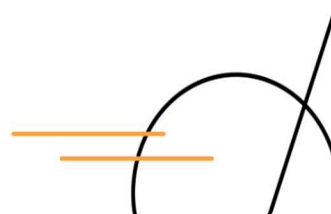


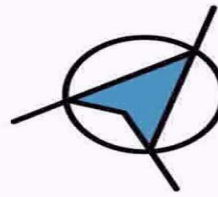
Appendix 2 0 Technical specification of technology /facility / software proposed by the respondent

In this appendix, respondents are requested to provide the technical specification of technologies, facilities and/or software proposed by them. Moreover, respondents are also requested to attach the technical specification of the application technology they intend to use including all relevant information such as a presentation, film, photos, documents, experiments, etc.

Other relevant topics are also to be specified.

	Software	Details
1	Product name & model	
2	Manufacturer (including country of manufacture)	
3	Main technological components	
4	Method of execution	
5	Required maintenance (please specify maintenance requirements and weather resistance)	
6	Product warranty	





Appendix 3 – Online Submission

1. This request is managed through an automated website called “Dekel” (E-Tender system) at the address <https://bids.dekel.co.il/ayalon> (hereinafter: “Website Address”).
2. Below are the proposal steps as managed by this website:
 - 2.1. Registration on the “Dekel” website and issue of a username and personal password for each participant. It is emphasized that applicants will only be able to enter the website using their personal username and password.
 - 2.2. Review of request documents.
 - 2.3. Registration to the request and receipt of a reference (in a circular) approving the participant has registered.
 - 2.4. Attachment management: all proposal documents including appendixes and references are to be downloaded in the designated tab. Applicants must print and complete all proposal documents according to the instructions specified in the proposal T&C’s brochure. After all documents have been completed and signed and all required documents have been attached, high quality scans must be made of the documents which will then be submitted in the designated tab in accordance with classification: mandatory documents, responses to clarification questions (published in accordance with the date determined for response), additional messages and optional documents.

It is clarified and emphasized that the automated system does not examine the contents of submitted documents or their compliance with requirements and therefore, applicants must take responsibility for this.
 - 2.5. The system will sign, encrypt and send an encrypted copy of the applicants’ proposal that cannot be viewed by any party before the date set for opening the tender box by the Tenders Committee and/or those authorized to open the tender box on their behalf.
 - 2.6. Submission of a single proposal. It is clarified and emphasized that participants will not be able to submit more than one proposal and that after submission of a proposal by an applicant on the automated system, the system will be locked to prevent the same applicant from submitting an additional proposal.
3. Please contact Ms. Katya Goldovich from Dekel with any questions on telephone no. 04-8145400 ext. 1 or email service@dekel.co.il

