

Telangana Mobility AI Challenge

Frequently Asked Questions (FAQs)

DATASET

- **What is the quantum of this data set?**

The sample data set is already available for download on the microsite: taim-gc.in/mobility. It's about 250 MB for two views of the same route. This will give you a good estimate of the nature and quantum of dataset. The shortlisted startups will receive a longer dataset.

- **What kind of data can be expected?**

The shortlisted startups can expect to receive video data from 2-3 km stretch each in four areas, in two directions, and during four times of the day.

- **Can someone take the video feed in the field of routes?**

Yes, you can. However, you don't have to do that since we will be providing this data to all the shortlisted startups at the start of the PoC development stage. Please note that the solution testing will be done using the test dataset that has the same angle of attack as the training dataset.

- **Are the video feeds going to be geo-tagged?**

Yes, we expect the video feeds to be geo-tagged. Further information regarding this will be provided during the PoC development stage.

- **What will be the size and breadth of the dataset for the videos?**

The videos will be 40 fps and above. Same attributes as the sample dataset.

- **Will the real-time camera feed be shared as the sample dataset?**

No, the dataset will not be in real-time. It will be a recorded one, however the larger scope of this exercise is for solutions to have the ability to achieve the desired outcomes through real-time feeds.

- **For any given road, will you provide the camera recording with only road view or only surface view, or any one of them, or both?**

Both the views will be shared.

- **Can we get the required training and test datasets for model development, or do we collect our own datasets?**

Yes, the training dataset will be provided to all the shortlisted startups during the PoC development stage of the grand challenge. The test dataset will not be shared.

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TECHNOLOGY

- **What are the factors on which Approach Note would be evaluated?**

For the problem at hand, the Approach Note will be evaluated based on:

- a. the description of how the solution will be approached (including solution architecture)*
- b. assumptions made while developing the solution approach*
- c. demonstrable understanding of problem statement*
- d. suggestions on how the solution can be taken to next level with the use of data/algorithms.*

Essentially, the document must convey how your startup can deliver the expected outcomes of the Mobility AI Grand Challenge.

In addition to your approach note, you will have the chance to upload one more document in support of your application. The document can include, but not limited to, your company presentation, PR articles, published research papers, past projects of similar kind, etc.

- **Can you share more information on the type of solution architecture that needs to be built?**

There is no set format for this. However, please ensure that the presented solution architecture can convey that it can achieve the outcomes of the Grand Challenge.

- **If a proprietary solution is built which can potentially be patented, how will the ownership be worked out? Who will own the patent?**

The startup, which develops the solution, will be the owner of the patent.

- **Will submission be covered under non-disclosure agreements? How will the idea/approach/code be secure?**

A non-disclosure agreement will be shared with all the shortlisted startups that will take part in the PoC development stage of the grand challenge. Please be rest assured of the confidentiality of your submissions.

- **We have our own hardware to do the computer vision with AI hardware engine are we eligible as well?**

Yes, sure. However, please note that the solution must be compatible with the dataset and the evaluation process.

- **What are the camera specifications, and can we suggest a specific camera setup?**

No, we will be using a standard camera. Please refer to the sample dataset to know more about the type of data shortlisted startups will receive during the PoC development stage.

- **Will you provide cloud computing credits to use cloud for model development?**

Unfortunately, we can't help you with this request.

- **It is said the PoC will be tested on unseen data. This suggests that there is labelled data for this problem. Will labelled data be provided as well, or are we required to take care of this ourselves?**

No, we won't provide annotated or labelled data. Shortlisted startups will only be provided with the raw data for the PoC development.

- **Do we need to create the dashboard showing the distribution of the potholes across the city?**

Yes, creating a dashboard is one of the expected outcomes. This should enable the civic authorities to easily spot potholes: their density, distribution, and the severity in a particular area and across the city. You are also invited to add further insights to the dashboard(s).

- **Since this is meant to process live video what is the target hardware on which the inference will be done? What is the frame rate and how many feeds per unit of target hardware?**

We won't prescribe anything at this stage. Please go ahead with assumptions regarding the frame rate and the target hardware. Ensure that these assumptions are mentioned in your approach note.

- **Can we suggest changes in the way the data is being generated?**

Unfortunately, not. The data will be captured in a standardised way using a data capture platform provided by this challenge's technology partner.

- **Does the evaluation panel consider a broken gravel road as potholes or pits only as potholes?**

Please refer to any existing literature on classification of the potholes. Do reference all the literature as well as any assumptions with respect to pothole classification in the approach note.

- **Do we need to share our code?**

Ideally, yes. If you have any concerns regarding sharing your code, please do write to us at taim@nasscom.in.

- **Is there a cap on speed of the vehicle while taking the video? If so, how much?**

The vehicle will ply at 40 kmph or lesser while recording the data.

- **Can we also look at a solution that skips taking the video and does the pot-hole detection in real-time using a mobile phone/IoT camera?**

For the purposes of this Grand Challenge, we will not be able to accommodate such solutions. However, feel free to add such a suggestion at the end of your Approach Note.

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OTHERS

- **Is it possible to open this challenge to all citizens instead of just startups?**

Unfortunately, the current challenge is limited to startups. Although, please feel free to submit a solution. We'll welcome solutions from anyone.

- **How can participants other than start-ups submit the approach note?**

Please email it to taim@nasscom.in if you're not a start-up.

- **What should be the team size?**

Please choose the best team that can respond to this challenge.

- **On what factors, will the Approach Note be evaluated?**

Please refer to the eligibility criteria mentioned on the microsite.

- **If a start-up is yet to be registered, or is in the process of registration, can it participate?**

If you have already submitted your startup for registration and expect the process to be completed before the onset of the PoC development stage, please feel free to participate in the Grand Challenge. Ideally, target registration by Sep 25th.

- **Should approach note be as word doc or PPT?**

Any format of the approach note will be accepted.