

TRA VISIONS 2022 **Young Researcher** **Competition**

General information and
Rules for participation

Summary

- TRA 2022 research areas
- TRA VISIONS 2022 transport modes
- Young Researcher Competition Overview
- Competition rules
- Competition schedule
- Evaluation criteria
- Prizes and awards
- Further information



TRA 2022 Research Areas

1. Smart Solutions and Society

1.1 – User-focus and inclusive mobility

1.2 – Connected and automated multimodal mobility

1.3 – Innovation and the use of data, ITS and AI

1.4 – Efficient and Innovative logistics

2. Green Mobility and Decarbonisation

2.1 – Carbon neutrality and zero-emission vehicles

2.2 – Energy efficiency, electrification and alternative fuels

2.3 – Sustainable interurban and urban mobility

2.4 – Greening freight transport

3. Innovative Infrastructure for Europe 2030

3.1 – Single market for TEN-T and the wider Europe

3.2 – Intelligent, resilient and cooperative infrastructure systems

3.3 – Innovative hubs

3.4 – Safety and security

4. Policies and Economics for a Competitive Europe

4.1 – Transport Planning and Policy for Recovery and Resilience

4.2 – Innovative Business and Governance Models.

4.3 – Internalisation of Transport Externalities and Pricing Carbon.

4.4 – Supporting Competitiveness & Industrial Policy



Transport modes



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement n° 101006593



Transport modes



Road

Highways; Urban and inter-urban roads; Pedestrian and Cycling infrastructures.



Rail

High-speed rail; Passenger and Freight Railways; Urban and light rail systems.



Waterborne

Long distance shipping; Inland waterway transport; Cruise; Ferries; Short-sea shipping; Offshore; Waterborne manufacturing industry.



Transport modes



Air

ATM and UTM; Drones; Aerodynamics; Automation; Acoustic and aero elasticity; Aircraft avionics and systems; Cabin design and Passenger comfort; Future challenges and emerging aviation risks; Aerostructures; Disruptive Aircraft Configurations; Electric Aircraft, Alternative Fuels and Batteries; Digitalization.



Crossmodality

Multimodality; Combined transport; Intermodality; Integrated infrastructures; Public transport; Logistics; Interfaces; Ports; ITS; Aviation infrastructures; Airports



Young Researcher Competition overview

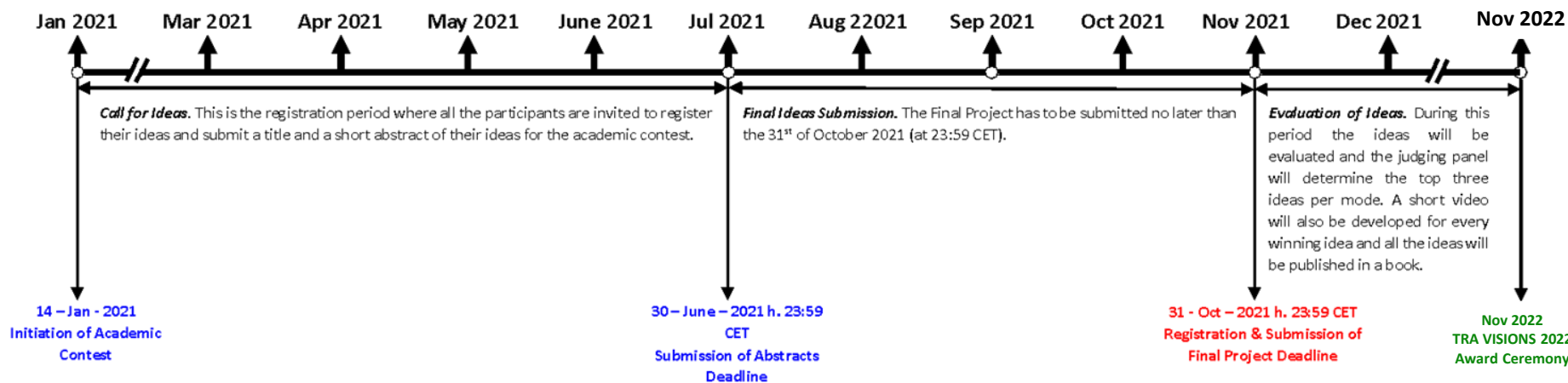
- TRAVISIONS 2022 is aimed at university and technical institutes students pursuing bachelor degrees and higher.
- The competition presents an opportunity for students to showcase their work in an **international stage** at the high-level conference **Transport Research Arena (TRA)** which will be held in Autumn 2022 in **Lisbon**.



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Competition schedule



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Who can submit the projects?

- BSc, MSc and PhD students
- Young Researchers that graduated (BSc, MSc or PhD level) after Jan 1st, 2020 registered in a College, University or Research Institute from across the European Union, EU Candidate Countries, Potential EU Candidate Countries and European Economic Area
- Group or individual entries are eligible for all pillars. Entries may be submitted by any individual or team that consists of up to a maximum of 7 participants
- Only one entry will be accepted per person/team



Evaluation Steps

- Abstract submission: June, 30th 2021
- Comprehensive project submission: October, 31st 2021
- Evaluation of ideas:
 - ✓ Eligibility assessment and Anonymity check -> by TRAVISIONS organizers
 - ✓ Remote online evaluation -> two evaluators assess each eligible project -> RANKING -> JANUARY, 31st 2022
- Shortlisting Workshop -> a judging panel evaluates the top 10 projects for each mode -> FEBRUARY 2022
- 3 winners per each mode (3 x 5 modes = 15 winners in total) are identified -> FEBRUARY 2022
- Award Ceremony: 15 winners awarded in TRA 2022, Lisbon, Autumn 2022



Abstract submission

Deadline: June, 30th 2021

220-250 words

It might contain up to 3 diagrams
(2 high-resolution images are
recommended)



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Project submission

- Deadline: **October, 31st 2021**
- **Final report** (template available on TRA VISIONS 2022 website)
- **Presentation** (template available on TRA VISIONS 2022 website)
- **Poster** (template available on TRA VISIONS 2022 website)



TRAVISIONS
TRA Visions 2022

Real Project Template - This template is to be used for submitting the final version of the project. The final submission deadline is 31st October 2021.

Project Information				
Name	ID	Description	Abstract	Other

Project Related to:

- EAC Innovative Initiatives & Services
- EAC Energy & Environment
- EAC Infrastructure & Utilities
- EAC Transport Policy & Governance

Project Title:

TRAVISIONS

TRAVISIONS

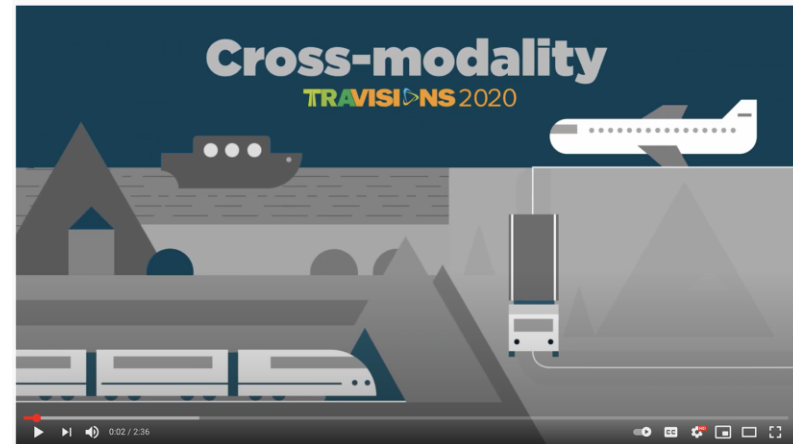
- 1. Introduction**
- 2. Selection of research area**
- 3. Literature Survey**
- 4. Proposal Section/Description of Idea**
- 5. Address potential technology gaps**
- 6. Detailed design description**
- 7. Source of additional information used & Appendices**

You are not required to precisely follow the proposal structure as proposed above, however you are encouraged to address the above topics as complete as possible. Drawings can also be supplied with the final submission where applicable.



Project submission

- Optional:
 - ✓ **Short video**
 - ✓ Any other supporting material (Excel files, CAD, ...)
- **ONLY FOR SHORTLISTED PROJECTS** (10 per mode): **A Pitch video** must be submitted.
Deadline for submission:
January, 31st 2022.



2020 winners for crossmodality

(the video includes parts of the pitch videos prepared by the students)



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Evaluation criteria

Scientific Merit (60%)

Research must:

- emphasize on **novelty**, or at least an innovative application of existing knowledge.
- address an **important problem**.
- **advance scientific knowledge** by the completion of this project
- be appropriate to the research field being investigated.
- have **conceptual framework**, design, methods, and analyses adequately developed, well-integrated, and appropriate to the aims of the project.
- acknowledge potential problem areas and consider alternatives.
- have adequate scientific support for the project.



Evaluation criteria

Impact (20%)

Research must:

- show **adequate relevance** to the transport industry.
- provide support that it is **applicable within the industry**.
- be **appropriate to the current** (or future) **trends** within the industry.
- propose how it could be **incorporated into the system**, if not already present.
- not be out-dated.



Evaluation criteria

Presentation (20%)

Submissions must:

- clearly state the primary theme or purpose-
- contain properly sequenced ideas.
- have depth of communications appropriate to the audience.
- include words and terms appropriate to the audience.
- not exceed the length appropriate to the competition.
- follow punctuation, spelling and formatting conventions.
- observe correct grammar in the written text
- secure the audience's attention at the beginning.
- use visual aids and produce a presentation of up to 10 slides with pictures.
- use the correct level of formality.
- Additionally submitted supporting video is to be evaluated as a plus.



Prizes and awards

The awards of the top 3 winners will be announced during the TRAVISIONS 2022 award ceremony which will take place during the prestigious high level event of Transport Research Arena (TRA 2022) which will be organized in Lisbon in Autumn 2022.

The winners will receive monetary prizes:

- **1st place 5.000 euros**
- **2nd place 3.000 euros**
- **3rd place 2.000 euros**



Further information

For further information, please visit

<http://www.travisions.eu>

where you will have access to all the template documents and you will be able to register online your idea for the competition.

Alternatively you can contact the TRAVISIONS team

info@travisions.eu



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TRA VISIONS 2022 **Senior** Researcher Competition

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Senior Researcher Competition overview

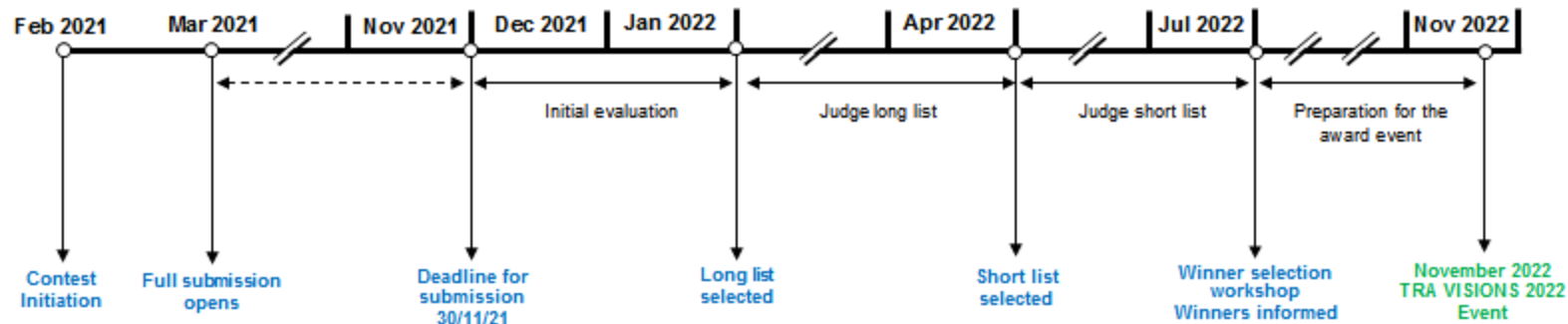
- TRAVISIONS 2022 is aimed at senior researchers involved in EU-funded projects in the field of transport. It will encompass five modes: Road, Rail, Waterborne, Airborne, Cross – modality
- The winners will be awarded a trophy during the TRA Conference to be held in Lisbon in Autumn 2022.



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Competition schedule



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Who can enter?

- Researchers who have contributed with significant innovative ideas and concepts, based on results from EU-funded projects in the field of transport.
- There are no specific educational, qualification or nationality requirements.



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Competition registration

- Entrants can register via the competition website:
www.travisions.eu
- Or via the TRA 2022 Conference portal:
www.traconference.eu
- Upon completion you will be sent an email with a link and password for competition entry
- **Deadline 30/11/2021**



Competition entry

Key items

1. Subject area information
2. Details of most impactful recent EC project
3. Research impact statement
4. Brief CV



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Most impactful recent EC project

- Research and/or innovation must be based on transport, funded by the EC
- Details of project
- Abstract describing project
- Entrants role and contribution to project



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Research Impact Statement

- One of the key sets of evidence that will be used to select the short list.
- How your research is/was supported by EU funding
- Your contribution to the research, this might be in a leadership role or as a practitioner
- Impact of your research at national, EU and global levels. Can be a combination of scientific impact; economic impact; policy development and public outreach
- Plans for further development and how your research will contribute towards rethinking transport for clean and inclusive mobility.



Curriculum vitae

The CV must include:

- Employment history
- Research project engagement
- Publications

Details of any other transport related activities, e.g.:

- ✓ Awards
- ✓ Patents
- ✓ Contributions to policy making
- ✓ Outreach activities and public engagement
- ✓ Editorship of journals



Evaluation

1. Entries will be checked for eligibility, relevance and against a baseline metric to create a long list for each mode.
2. Independent transportation experts will judge the longlisted entries based on the evidence provided. Consideration will be given to the:
 - Impact of research on national, European and global levels
 - Research track record
 - Total amount of EU-funding

The output of this evaluation will be a shortlist of top entrants for each transportation mode.

3. A shortlisting workshop will take place to select the winners (one per mode)



Awards

Winners will be required to attend the award ceremony at the TRA2022 conference in Lisbon, Portugal. Each winner will be awarded a trophy and a contribution to their costs to attend the conference.

The winners will have the opportunity to publicise their research during the conference. Shortlisted entrants will receive a certificate acknowledging their achievement.





Special honorary award

A special award will be introduced, for honouring a “very” senior researcher who is about to complete or has already completed their career, and who has through the years made an outstanding and well-recognized contribution to transport-related research and innovation. An Open Call for nominations will be launched to the entire transport research community. Self- nominations are excluded.

Each nomination shall include a proper justification based on the overall impact, visionary thinking, breakthrough achievements and track record of the nominated person. The justification shall not be more than two pages long. A Board of distinguished and renowned personalities from all transport modes will be created for selecting the winner. The criteria for the selection of the winner will be holistic. There will be only one winner for this award, irrespective of transport mode.



Further information

For further information, please visit www.travisions.eu where you will be able to find a link to the TRA VISIONS 2022 Senior Researcher competitions, frequently asked questions and research area specific information.

Alternatively you may contact the Senior Researcher Competition organizer, Mrs. Irene Pantelaki, at: irene.pantelaki@easn.net



Thank you.



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