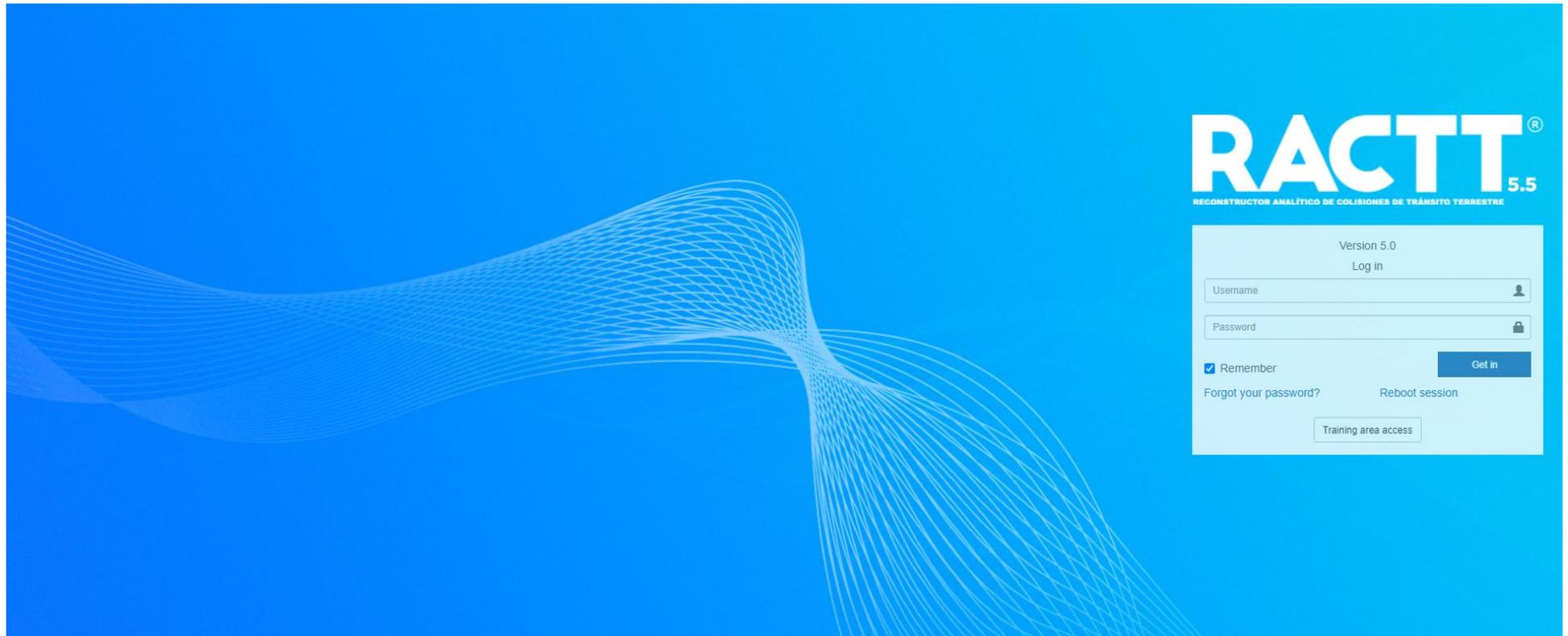


How to start projects with RACTT



- 1) After your purchase, check your email. The support will send you an email with your username and password.
- 2) Access the program from the Web: <https://sistema.ractt.com>
- 3) Enter your e-mail and password



4) Click on the "New" tab and enter the name of your project, select the date and add comments if you want.

The screenshot displays the RACTT 5.5 software interface. On the left is a sidebar menu with various analysis modules such as Mathematics, Kinematic, Center of mass, Drag factor, Work-Energy, Speed calculations and ΔV, Rotation-translation, Vault & Fall, Momentum analysis, Pedestrian Collisions, Motorcycles, Hidroplaning, Moment of Inertia and C.G., Rollovers, Crush, Speed Change - ΔV, and Avoidance. The main window features a menu bar with options: New, Open, Save, Save as, Equation, ARC, Boards, and Print. Below the menu bar is a form for creating a new project. The form includes a 'Name' field, a 'Date' field with a calendar icon, a 'Comments' text area, and an 'Involved Parties' table with columns for 'Name' and 'Action'. At the bottom of the form are 'Add' and 'New project' buttons. Hand icons indicate the 'New' tab, the 'Name' field, the 'Date' field, and the 'Comments' text area.

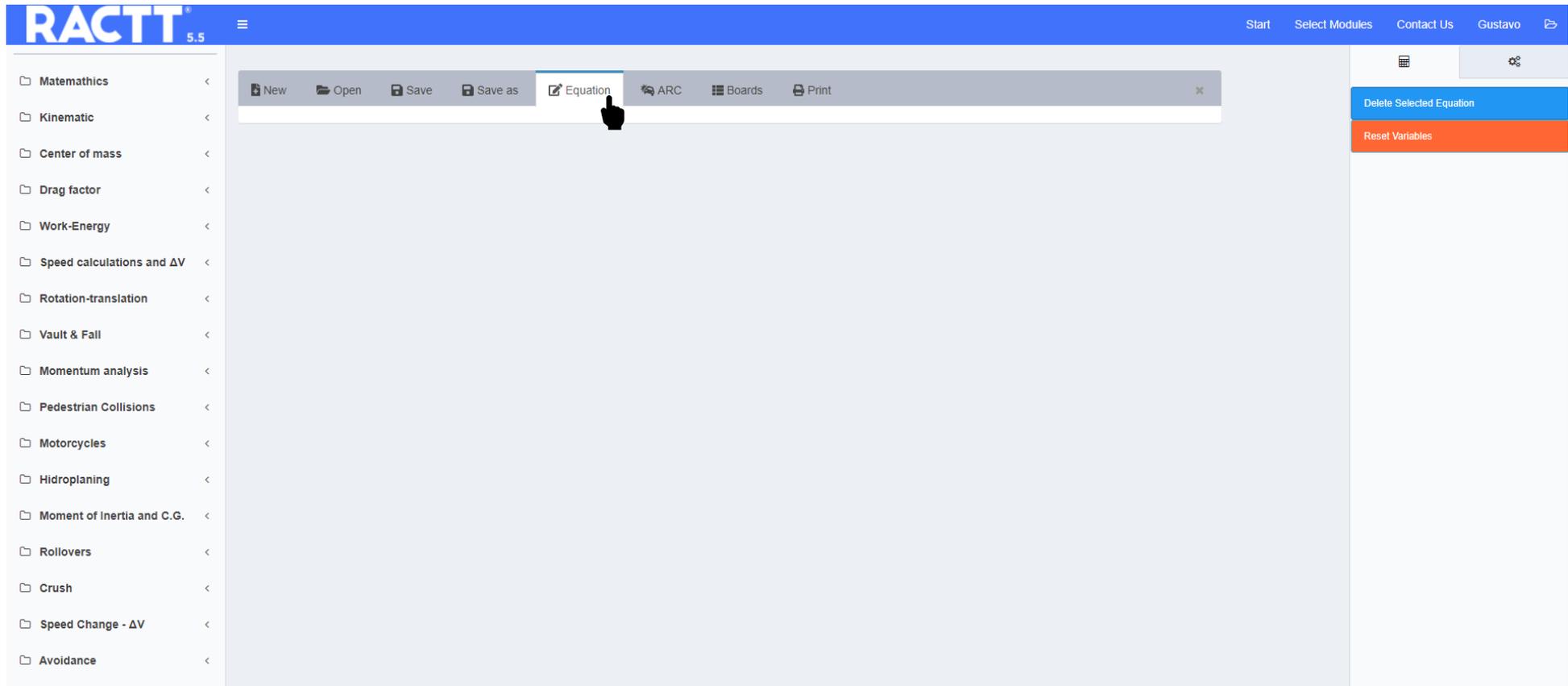
5) Click the blue button to add the Involved Parties and write the names of the people or vehicles that participated in your investigation. If you want to delete it click on the red button, and then click on “New project”.

The screenshot displays the RACTT 5.5 software interface. On the left is a sidebar menu with categories like Mathematics, Kinematic, Center of mass, Drag factor, Work-Energy, Speed calculations and ΔV , Rotation-translation, Vault & Fall, Momentum analysis, Pedestrian Collisions, Motorcycles, Hidroplaning, Moment of Inertia and C.G., Rollovers, Crush, Speed Change - ΔV , and Avoidance. The main workspace features a menu bar with options: New, Open, Save, Save as, Equation, ARC, Boards, and Print. Below the menu bar, there are input fields for 'Name' (containing '30/06/2021 11:40') and 'Date' (containing '30/06/2021'). A 'Comments' text area is also present. The 'Involved Parties' section contains a table with the following data:

Name	Action
Vehicle 1	
Vehicle 2	

At the bottom of the 'Involved Parties' section, there is a blue 'Add' button and a grey 'New project' button. Hand icons indicate the intended actions: clicking 'Add', clicking on 'Vehicle 1', and clicking 'New project'.

6) To add models, you must select the Equations tab and then find the type on the folders on the left according to the calculation you want to perform.



7) For example, if you analyze a vehicle-pedestrian impact, select the equation in the pedestrian impact folder, this contains equations from three authors, click on the one you prefer. When you click on any of them, this is loaded at the central part.

The screenshot shows the RACTT 5.5 software interface. On the left, a sidebar contains a tree view of categories: Mathematics, Kinematic, Center of mass, Drag factor, Work-Energy, Speed calculations and ΔV, Rotation-translation, Vault & Fall, Momentum analysis, Pedestrian Collisions, Motorcycles, Hidroplaning, Moment of Inertia and C.G., and Rollovers. The 'Pedestrian Collisions' category is selected, and its sub-items are: 1. Collision Model of Searle, 2. Collision model of Wood, 2., 3. Collision model of Happer, 4. Projection Efficiency, and 5. d. The main window displays the 'Collision Model of Searle' configuration screen. At the top, a toolbar includes 'New', 'Open', 'Save', 'Save as', 'Equation', 'ARC', 'Boards', and 'Print'. The equation
$$v = \sqrt{\frac{2 \cdot g \cdot \mu \cdot d}{1 + \mu^2}}$$
 is shown. Below it, the title 'Collision Model of Searle' is followed by 'Pedestrian Collisions' and two icons. The 'Constants' section includes a field for 'g: Acceleration of gravity' with a value of 9.81 [m/seg²]. The 'Custom Name' field is empty. The 'Variable' section has a table with columns 'Variable' and 'Action':

Variable	Action
Total throw distance [d] [m]	⬇️ ⬆️
Coefficient of friction [μ] Sin unidad	⬇️ ⬆️

The 'Pedestrian throw velocity' section has a 'Result' field with a value of 0 and a unit dropdown set to [km/hr]. At the bottom, there are 'Save' and 'Calculate' buttons. On the right, a panel shows 'Delete Selected Equation', 'Reset Variables', and a list of selected equations: 1. Collision Model of Searle (with 'Print' and '✖️' icons).

8) Below the figure of the equation, you will find several rows. The first of these "Custom Names" is to add the title or comment of your calculation (this will be printed). Below are the fields of the variables that you must complete according to the case, that you are investigating. Once completed, click Calculate to see the result that will appear at the bottom of the screen.

The screenshot displays the RACTT 5.5 software interface. On the left is a sidebar with a tree view of modules including Mathematics, Kinematic, Center of mass, Drag factor, Work-Energy, Speed calculations and ΔV, Rotation-translation, Vault & Fall, Momentum analysis, Pedestrian Collisions (expanded), Motorcycles, Hidroplaning, Moment of Inertia and C.G., and Rollovers. The main workspace shows the 'Equation' editor with the equation $v = \sqrt{\frac{2 \cdot g \cdot \mu \cdot d}{1 + \mu^2}}$. Below the equation, the title 'Collision Model of Searle' is entered, with a sub-title 'Pedestrian Collisions'. A 'Constants' section contains 'g: Acceleration of gravity' set to 9.81 [m/seg²]. A 'Custom Name' field is empty. A 'Variable' table is shown with the following entries:

Variable	Unit	Action
Total throw distance	[d] [m]	↓ ↑ ↗ ↘
Coefficient of friction	[μ] Sin unidad	↓ ↑ ↗ ↘
Pedestrian throw velocity	[km/hr]	

At the bottom of the workspace are 'Save' and 'Calculate' buttons. The right-hand panel shows a list of equations, with '1. Collision Model of Searle' selected and a 'Print' icon next to it. Above the list are buttons for 'Delete Selected Equation' and 'Reset Variables'.

9) Finally, save your project by clicking on the grey button . If you don't save, you can lose your changes.

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