# OpenPASS Questions


**To be as specific as possible in what we would like to know, some of the questions are presented over the screenshot of the function in question**

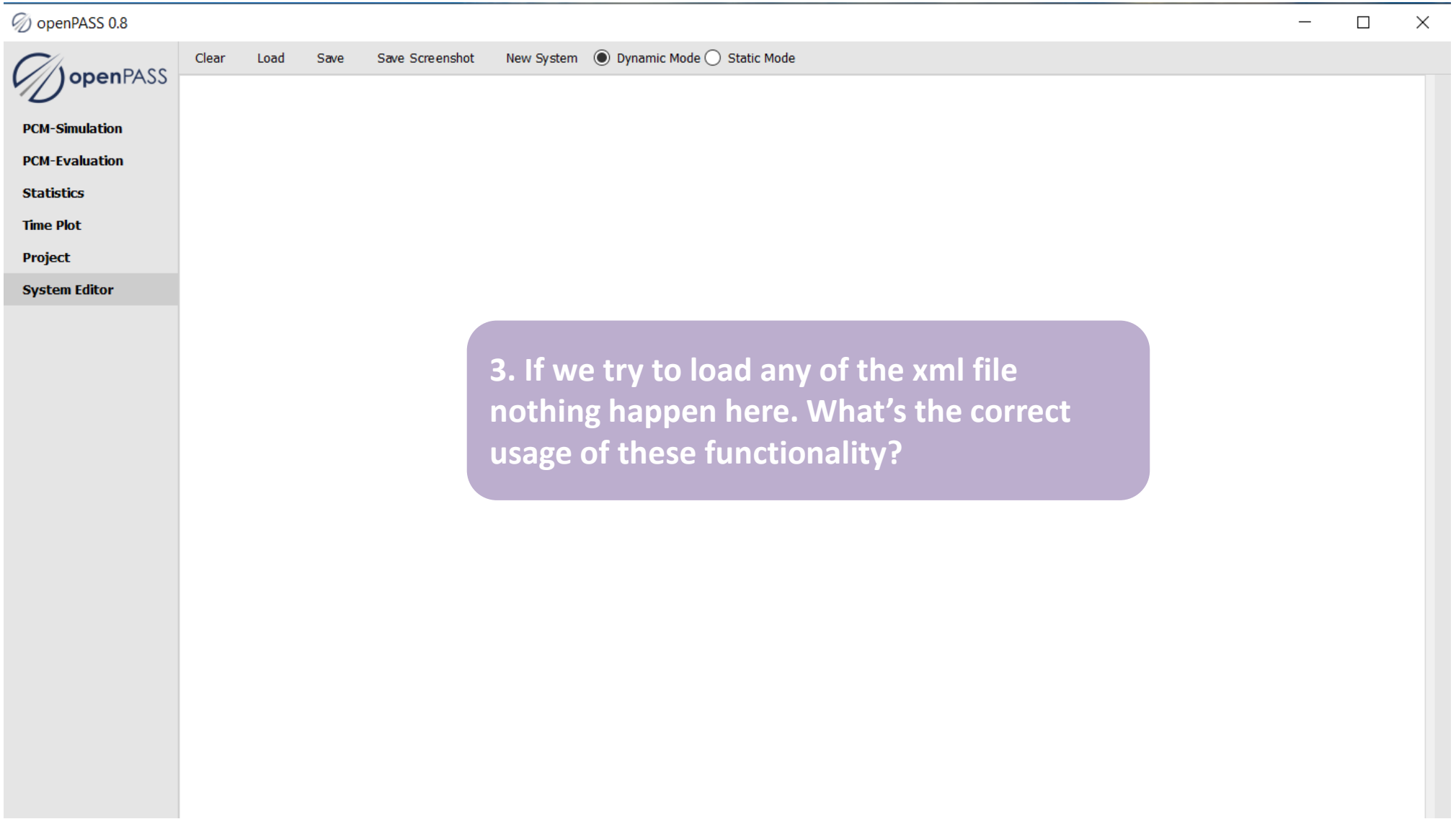
**Please read carefully**

**Thank you**

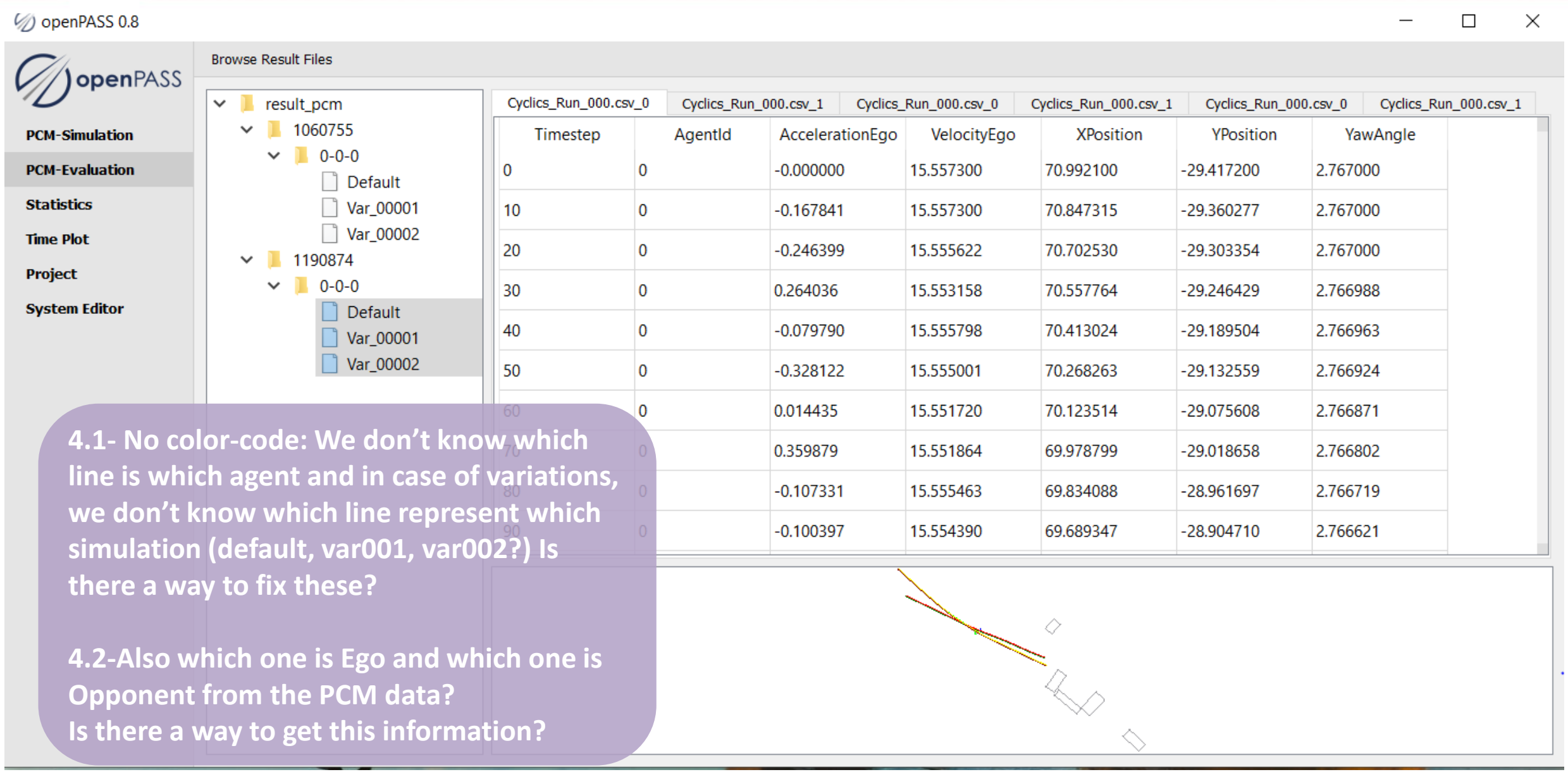
Fernando Chirici

# GUI Plug-in – Project Settings

After loading Agent Follow.xml



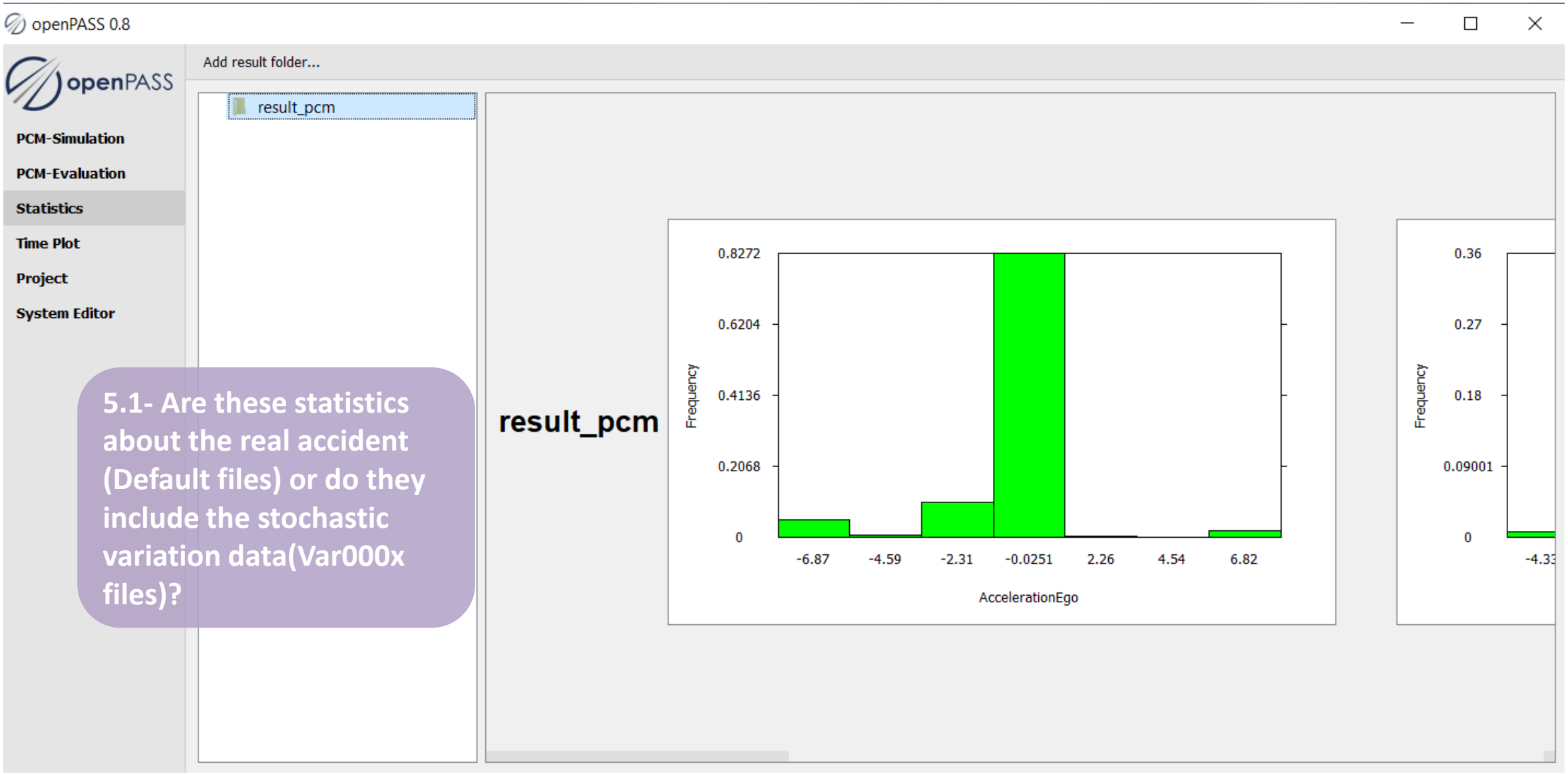
# GUI Plug-in -- evaluation




**4.1- No color-code: We don't know which line is which agent and in case of variations, we don't know which line represent which simulation (default, var001, var002?) Is there a way to fix these?**

**4.2-Also which one is Ego and which one is Opponent from the PCM data?**
**Is there a way to get this information?**

# GUI Plug-in -- statistics between results



# OpenPASS GUI – outputs summarized

**In the next slides there is a summary of the output parameters relative to the ExtendedCollisionInformation**

**Since we couldn’t fin any documentation we try to understand these data**

**Please read it and tell us if there is something that has been wrongly interpretated**

**In particular please give us some feedback on the one marked in red:**

- **Key=“OYA” – Why is there only the opponent yaw angle? Why not the Ego Yaw Angle?**
- **Key= “Velocity” and “Opponent Velocity” -- At what time steps are these parameters referring to?**
- **Key= “VelocityDirection” and “OpponentVelocityDirection” -- What exactly does these parameters represent?**

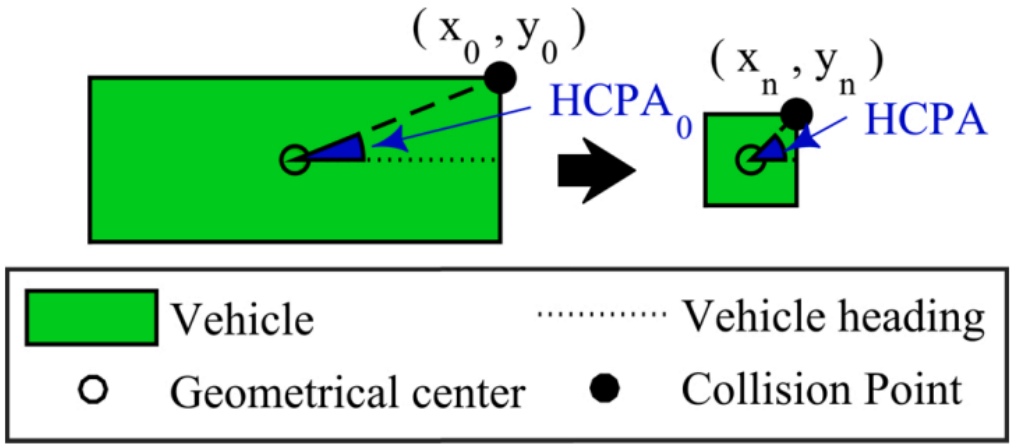
# OpenPASS GUI – SimulationOutput.xml parameters

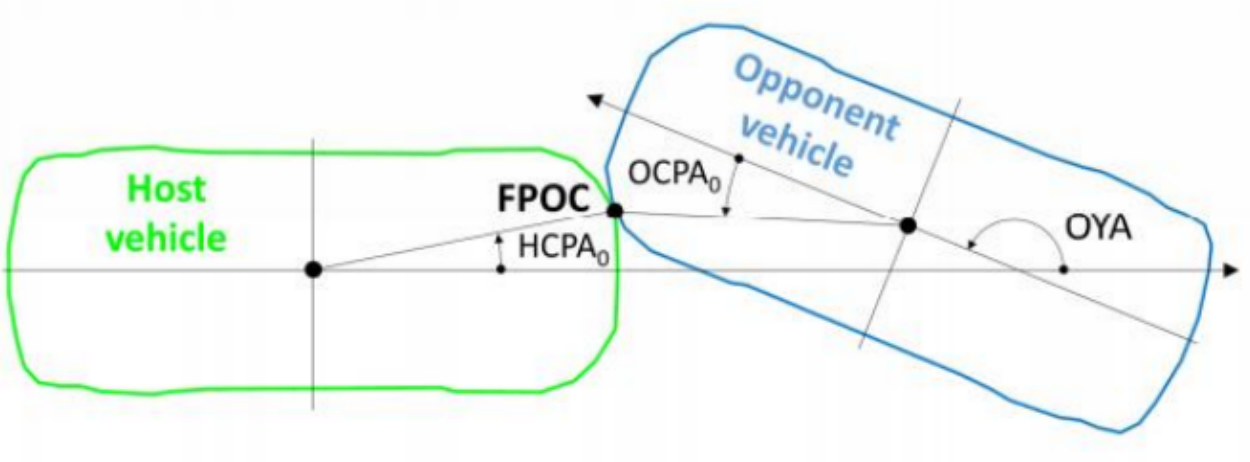
**<Event Time="xxxx" Source="OpenPASS" Name="ExtendedCollisionInformation">**

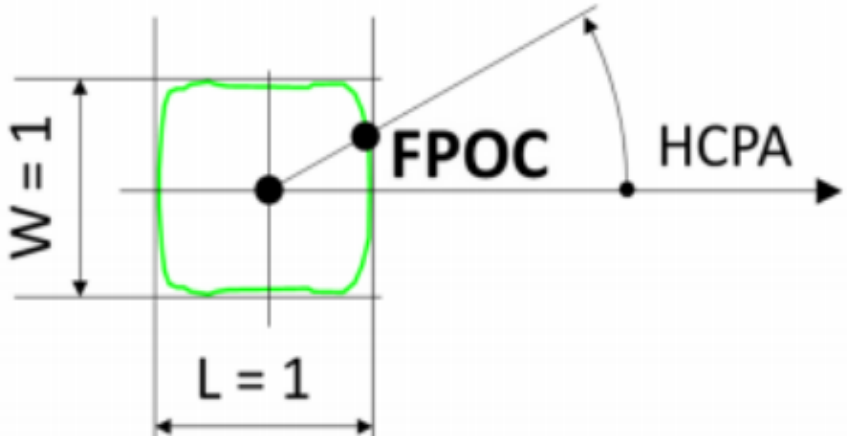
| Parameter | Example | Notes |
|---|---|---|
| Key="HCPA" | Value="173.412230" | Host **Collision** Point Angle relative to vehicle |
| Key="OCPA" | Value="-45.002738" | Opponent **Collision** Point Angle relative to vehicle |
| Key="HCPAo" | Value="177.245061" | HCPA at first point of contact |
| Key="OCPAo" | Value="-22.621809" | OCPA at first point of contact |
| Key="OYA" | Value="68.501194" | Opponent Yaw Angle. Why not for Ego? |
| Key="OpponentCollisionVelocity" | Value="8.280934" | m/s |
| Key="CollisionVelocity" | Value="4.119117" | m/s |
| Key="OpponentPointOfContactLocalX" | Value="1.781848" | Coordinate |
| Key="OpponentPointOfContactLocalY" | Value="-0.749684" | Coordinate |

# OpenPASS GUI – SimulationOutput.xml parameters

- FPOC: first point of contact
- HCPA: Host Collision Point Angle
- OCPA: Opponent Collision Point Angle
- OYA: Opponent Yaw Angle




**The vehicle is scaled to a unit-size, allowing for comparison of crash configurations between vehicles of different dimensions. The first point of contact (x0,y0) is scaled to generate the normalized coordinates (xn, yn), which, in return, defines the HCPA relative to the vehicle's heading.**

# OpenPASS GUI – SimulationOutput.xml parameters

**<Event Time="xxxx" Source="OpenPASS" Name="ExtendedCollisionInformation">**

| Parameter | Example | Notes |
|---|---|---|
| Key="PointOfContactLocalX" | Value="-1.983403" | Coordinate |
| Key="PointOfContactLocalY" | Value="-0.194611" | Coordinate |
| Key="Velocity" | Value="4.901951" | Velocity at which TS? |
| Key="OpponentVelocity" | Value="6.325802" | Velocity at which TS? |
| Key="OpponentSliding" | Value="1" | Boolean |
| Key="Sliding" | Value="1" | Boolean |
| Key="OpponentYawVelocity" | Value="-1.242858" | m/s |
| Key="YawVelocity" | Value="-2.219941" | m/s |
| Key="VelocityChange" | Value="2.001956" | m/s |
| Key="OpponentVelocityChange" | Value="2.001956" | m/s |

# OpenPASS GUI – SimulationOutput.xml parameters

**<Event Time=“xxxx" Source="OpenPASS" Name="ExtendedCollisionInformation">**

| Parameter | Example | Notes |
|---|---|---|
| Key="CollisionWithAgent" | Value=“1" | Boolean |
| Key="OpponentVelocityDirection" | Value="-1.637885" | Vector? |
| Key="VelocityDirection" | Value="-2.360998" | Vector? |

# Thank you for your time!