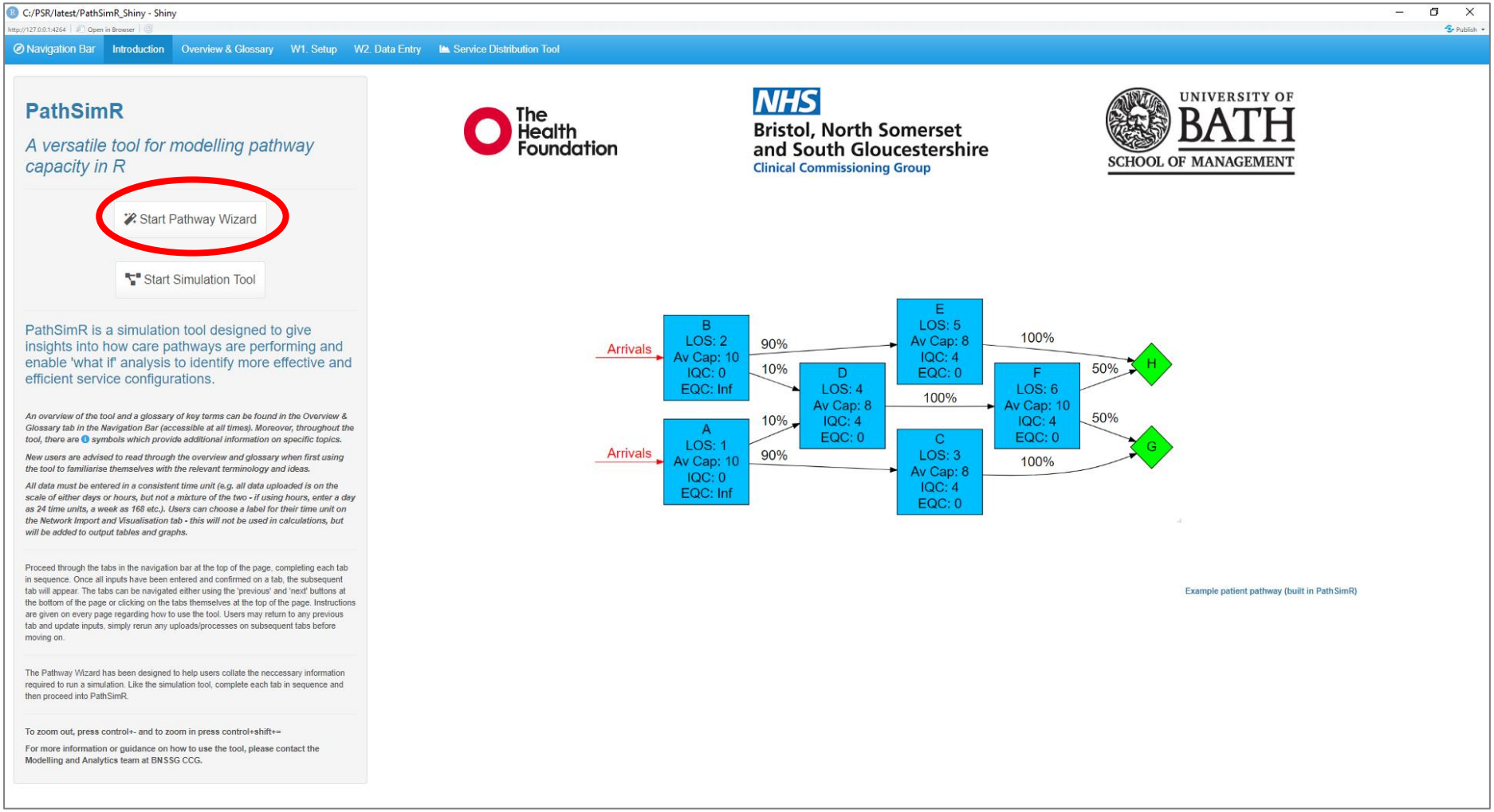
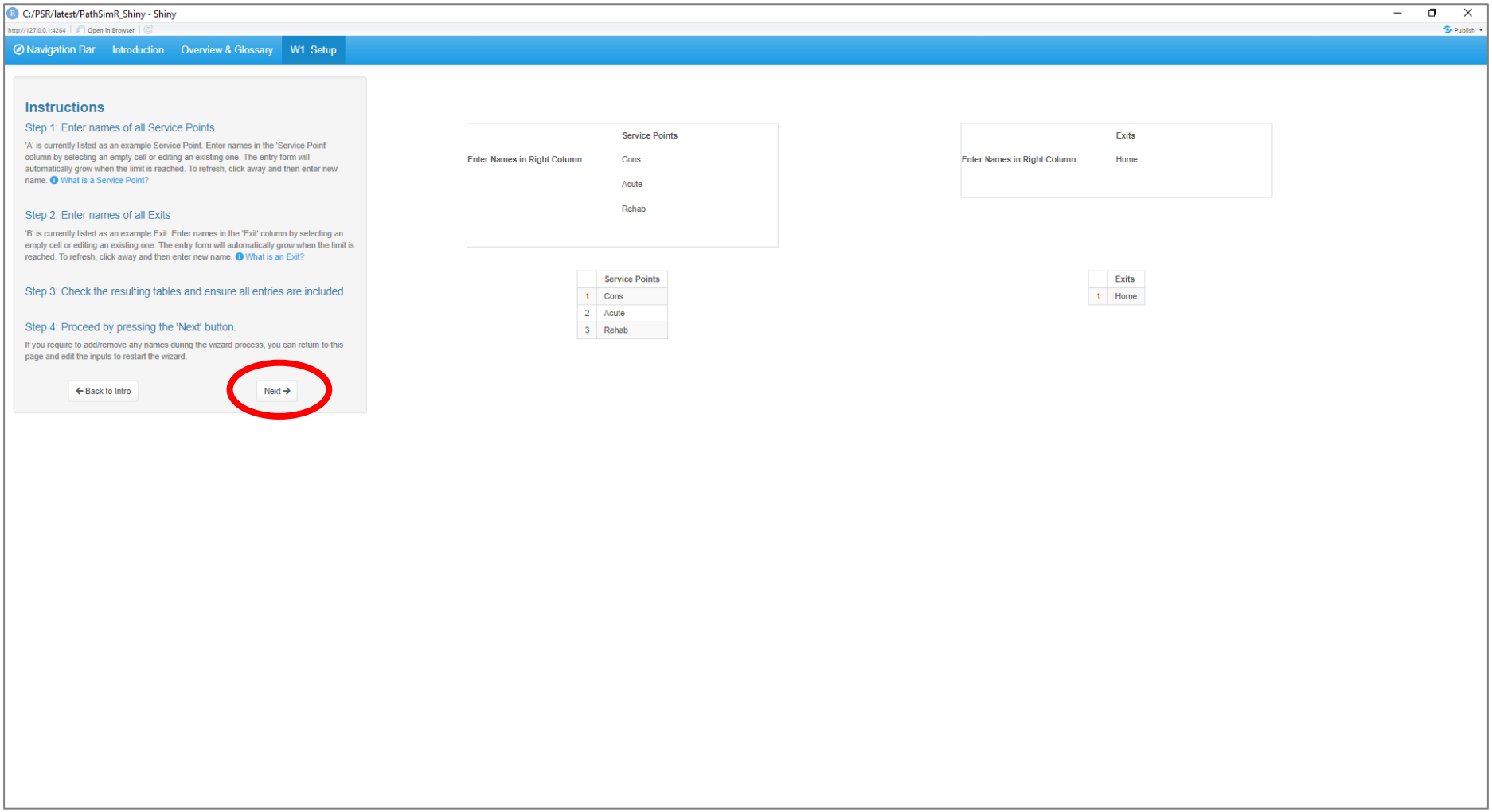
Start: Front page



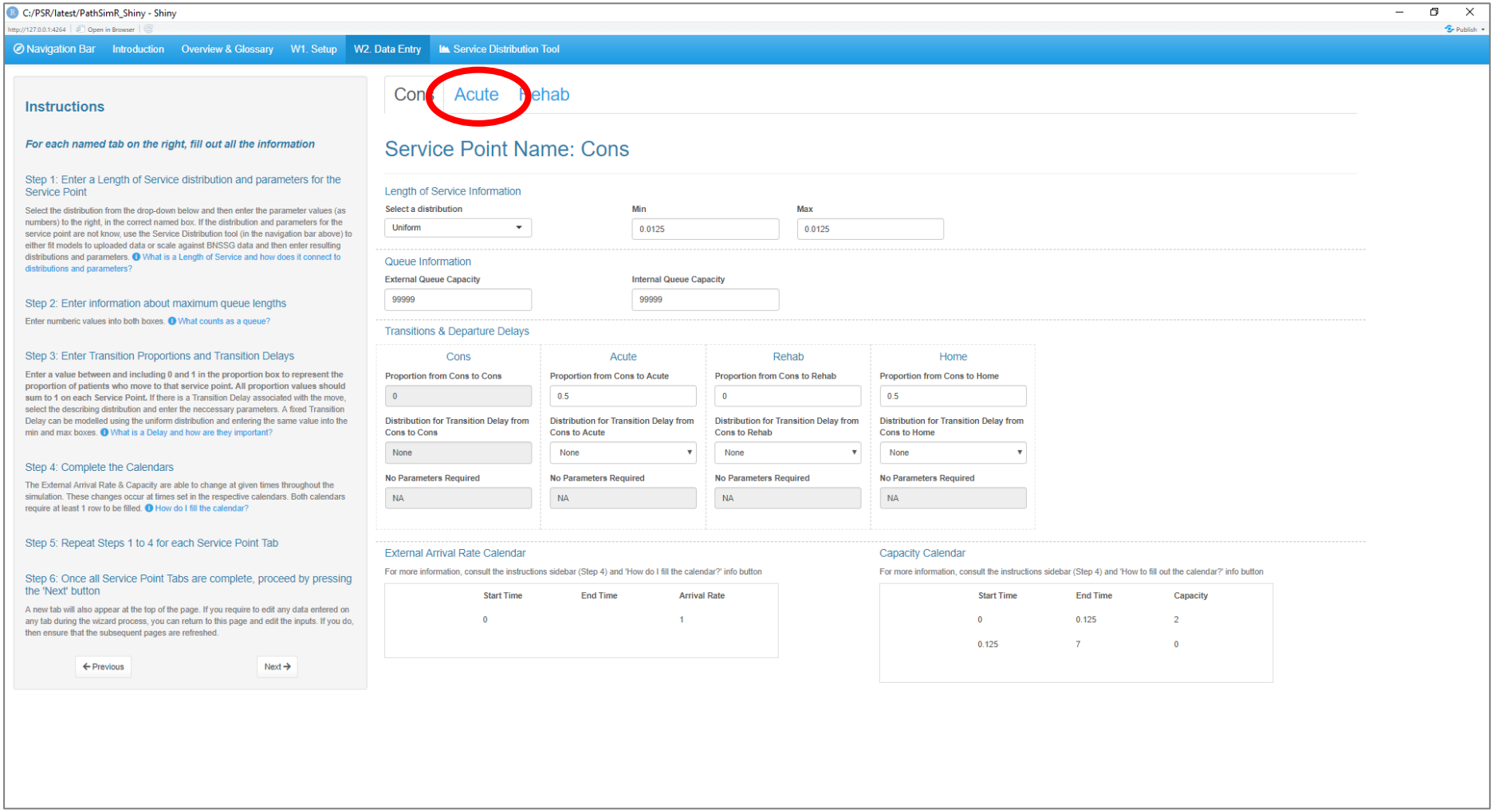
1. Select “Start Pathway Wizard”
2. Otherwise select “Start Simulation Tool” to input templates directly (see step 9)

Pathway wizard: Wizard start



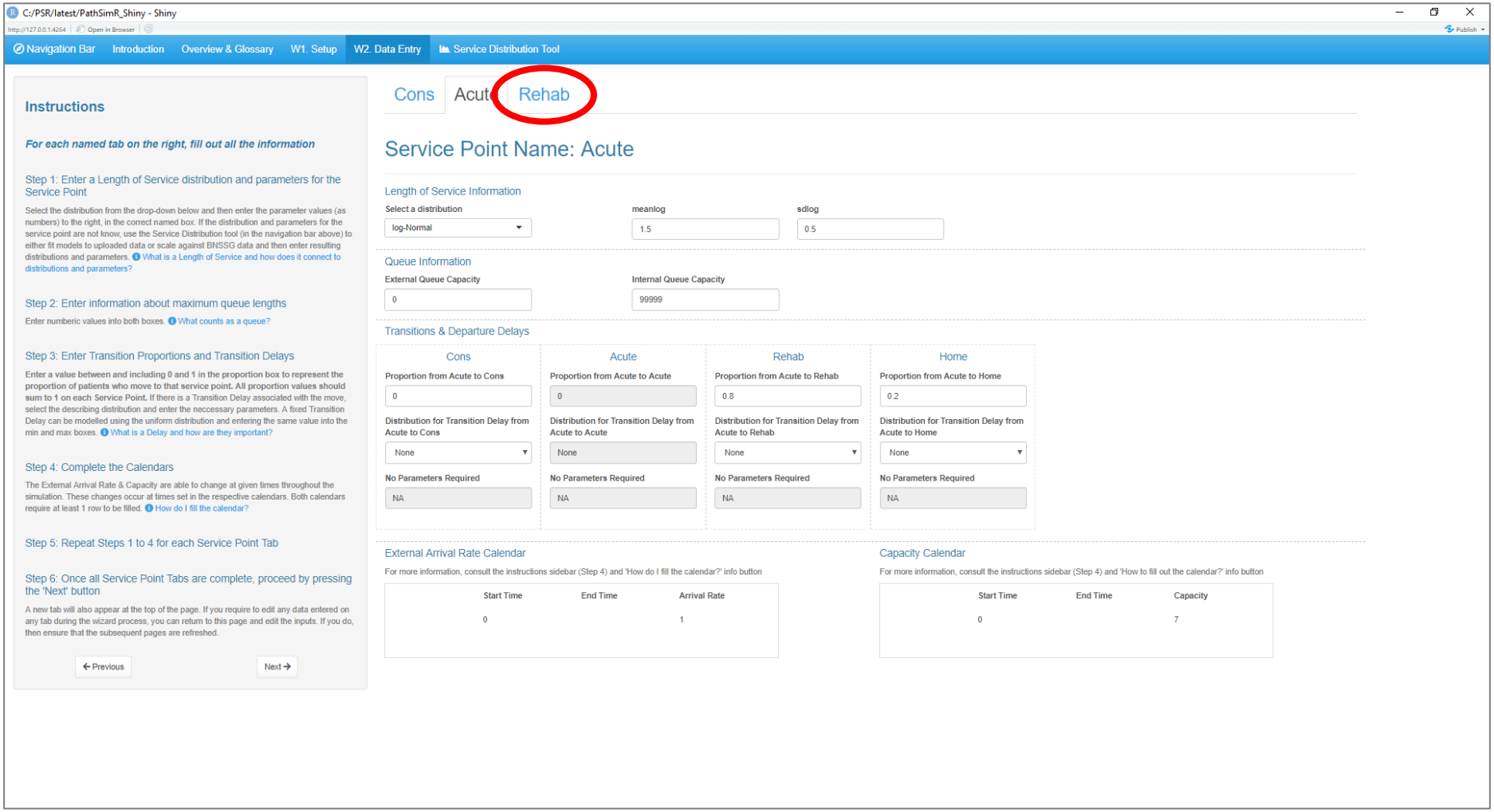
3. Enter pathway service and exit nodes to be modelled
4. Then select “Next” to begin calibration

Pathway wizard: Input info (first service node)



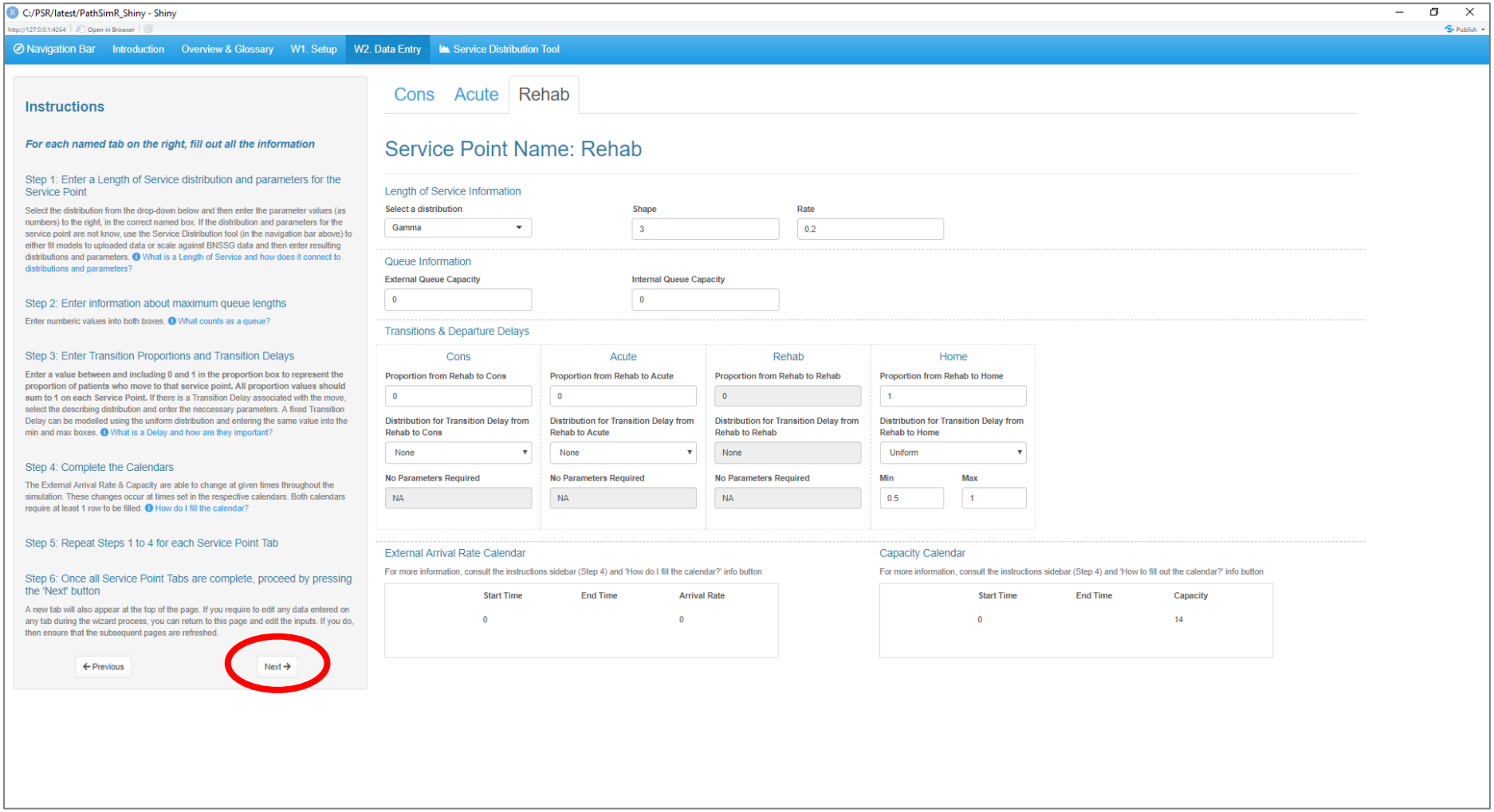
5. Then move onto “Acute” service node tab once all populated

Pathway wizard: Input info (second service node)



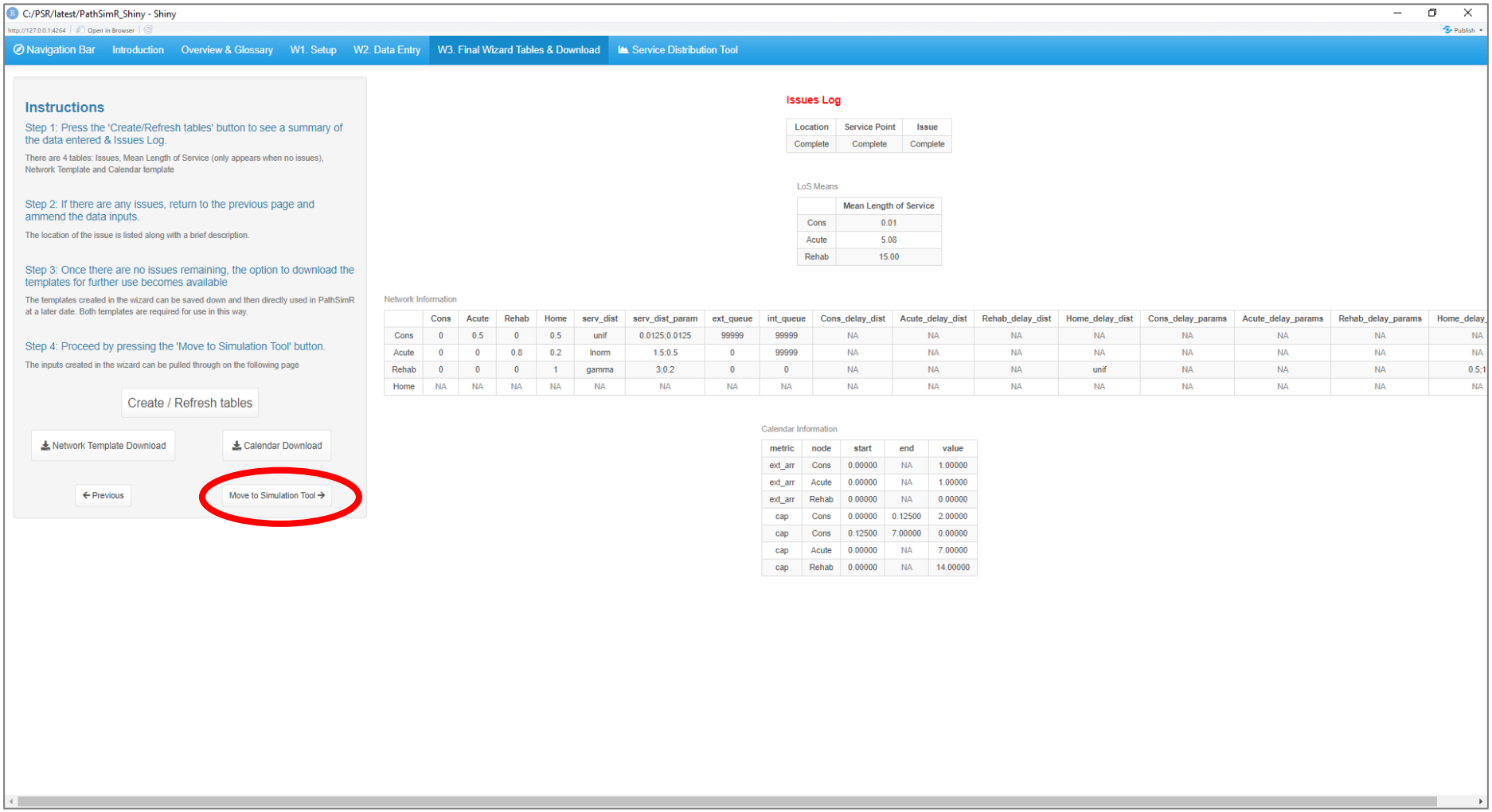
6. Then move onto “Rehab” service node tab once all populated

Pathway wizard: Input info (third service node)



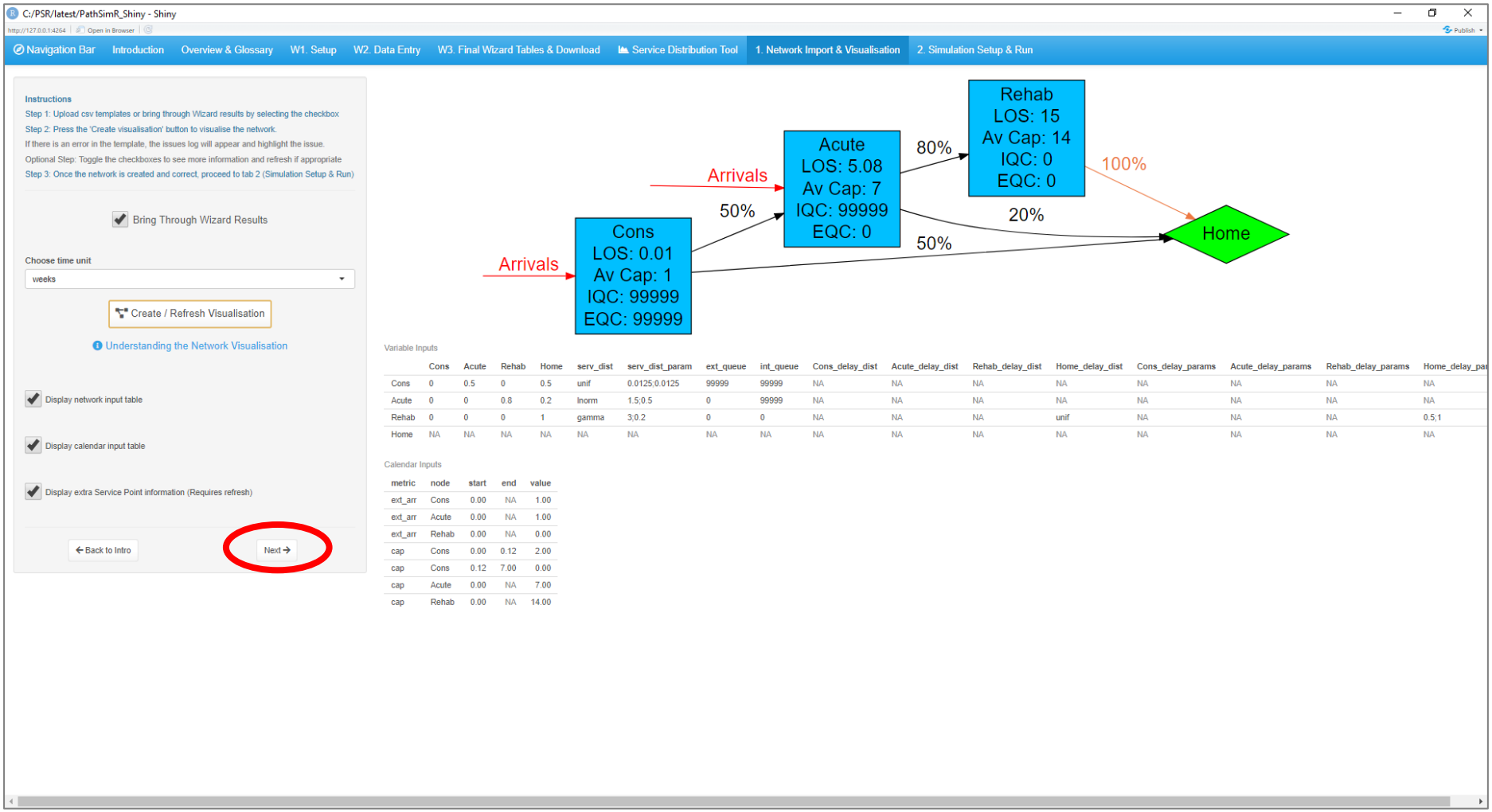
7. Then select “Next” service node tab once all populated

Simulation set-up: Confirm pathway and inputs



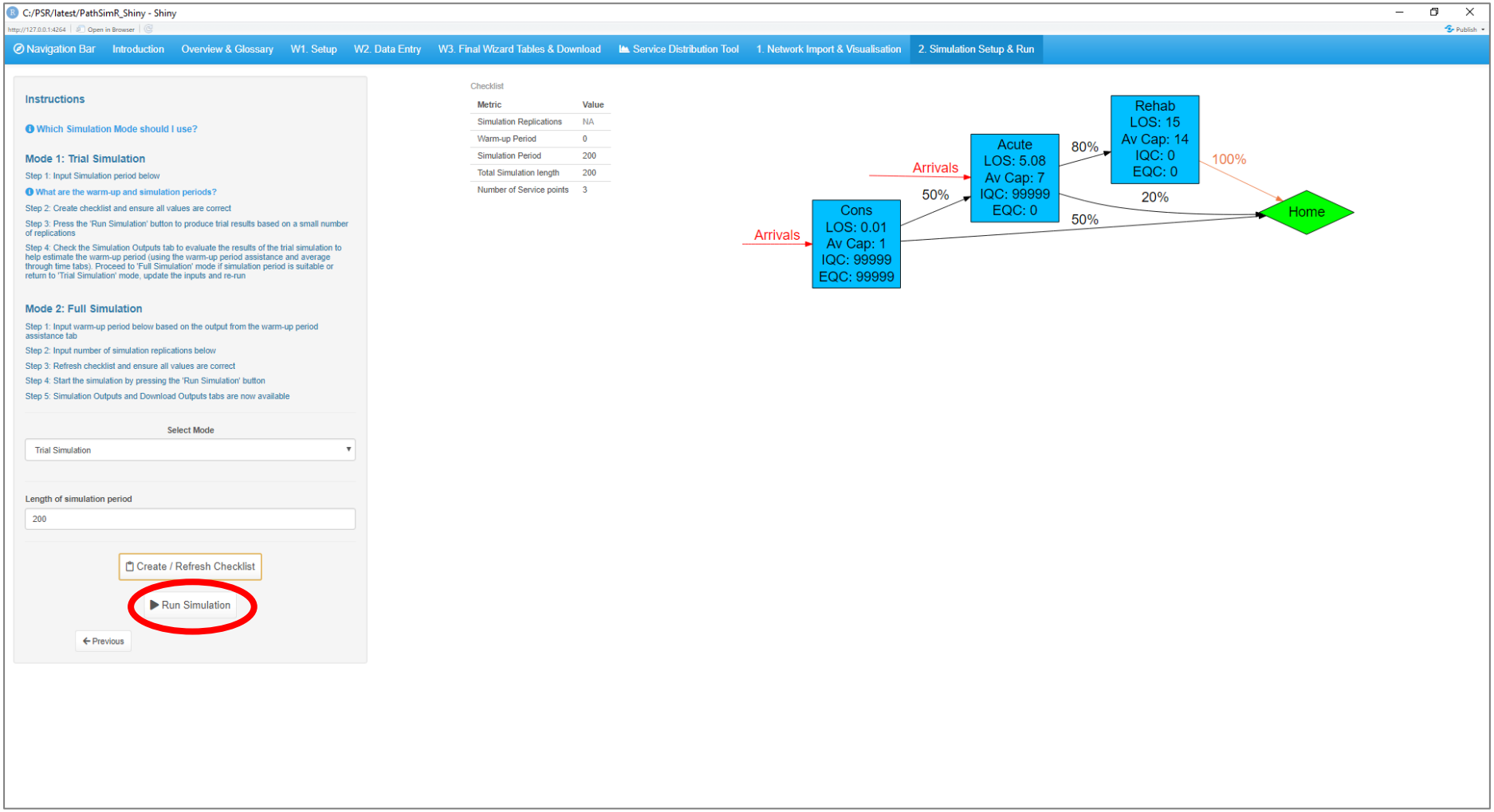
8. Should there be any errors (e.g. service node discharge probabilities not summing to 1) then user is notified, and not allowed to progress
9. User may also download csv templates for inputs, allowing them to bypass Wizard in future (see step 2 on page 1 above)
10. Select “Move to Simulation Tool” to progress to next step

Simulation set-up: Confirm pathway and inputs



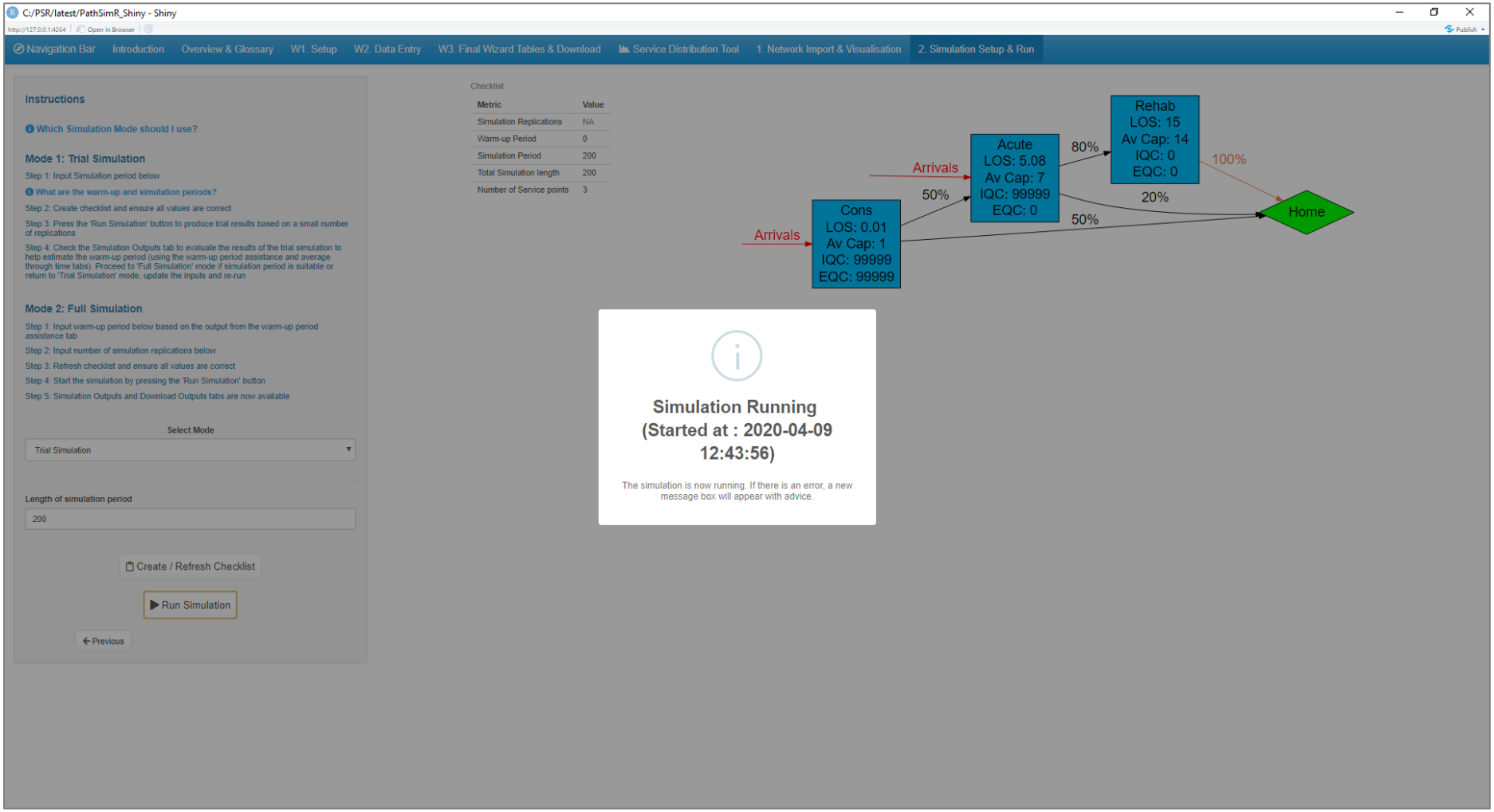
11. Select time unit (e.g. minutes, days, weeks)
12. Select “Next” to progress to next step

Simulation set-up: Global options configuration (trial simulation)

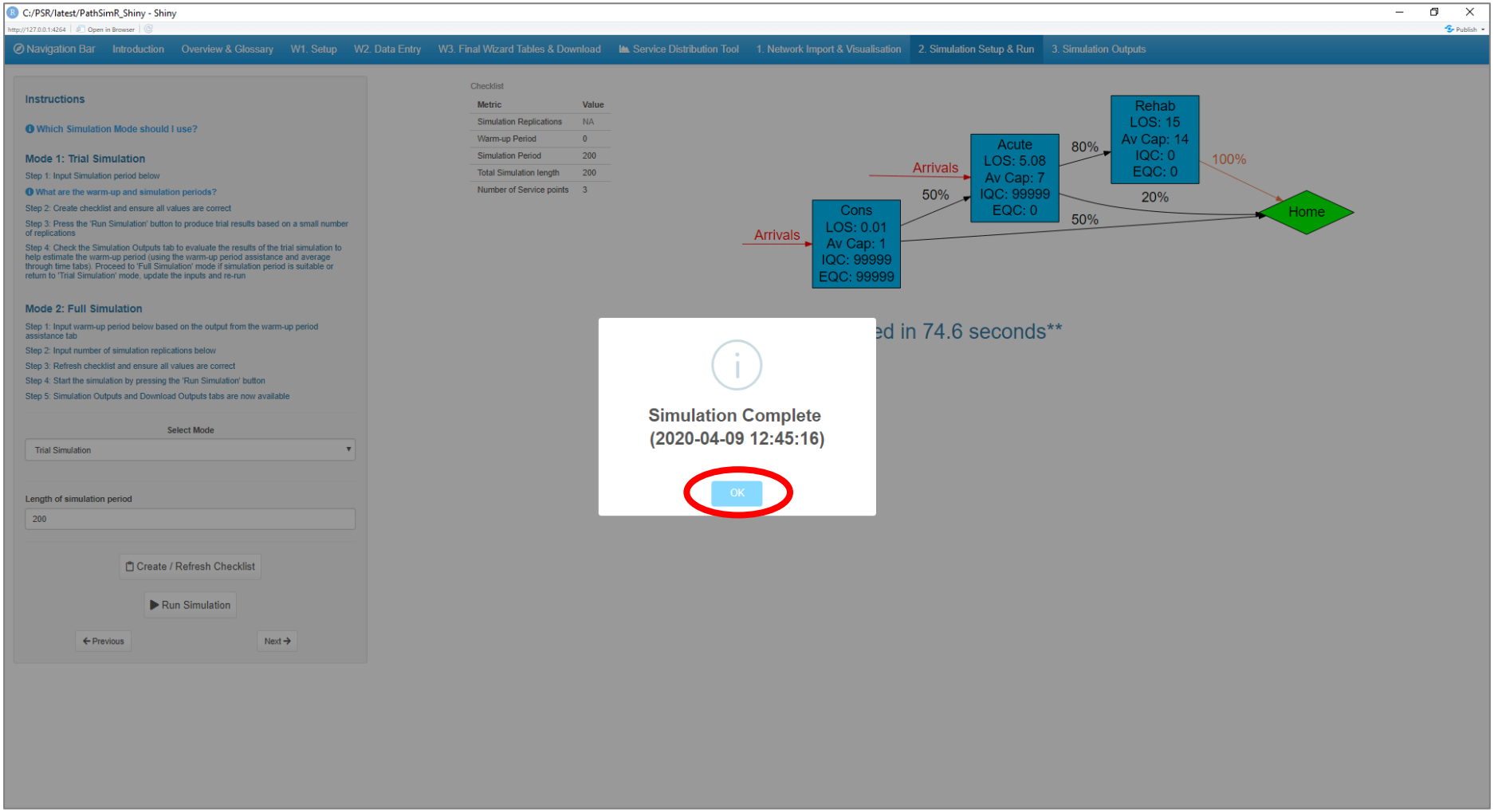


13. Select “Trial Simulation” and enter “Length of simulation period”
14. Select “Run Simulation” to begin

Simulation set-up: Global options configuration (trial simulation)

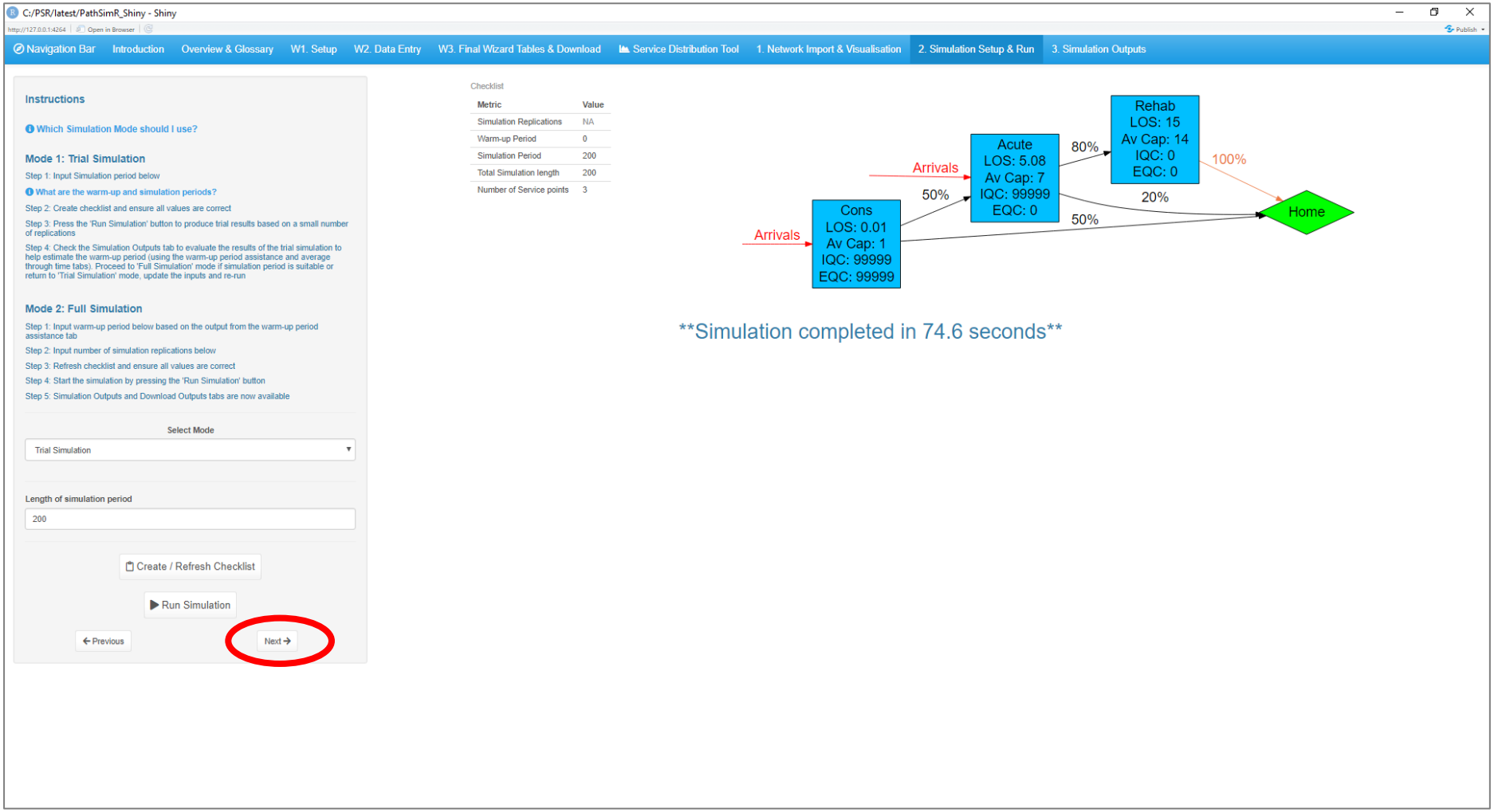


Simulation set-up: Global options configuration (trial simulation)



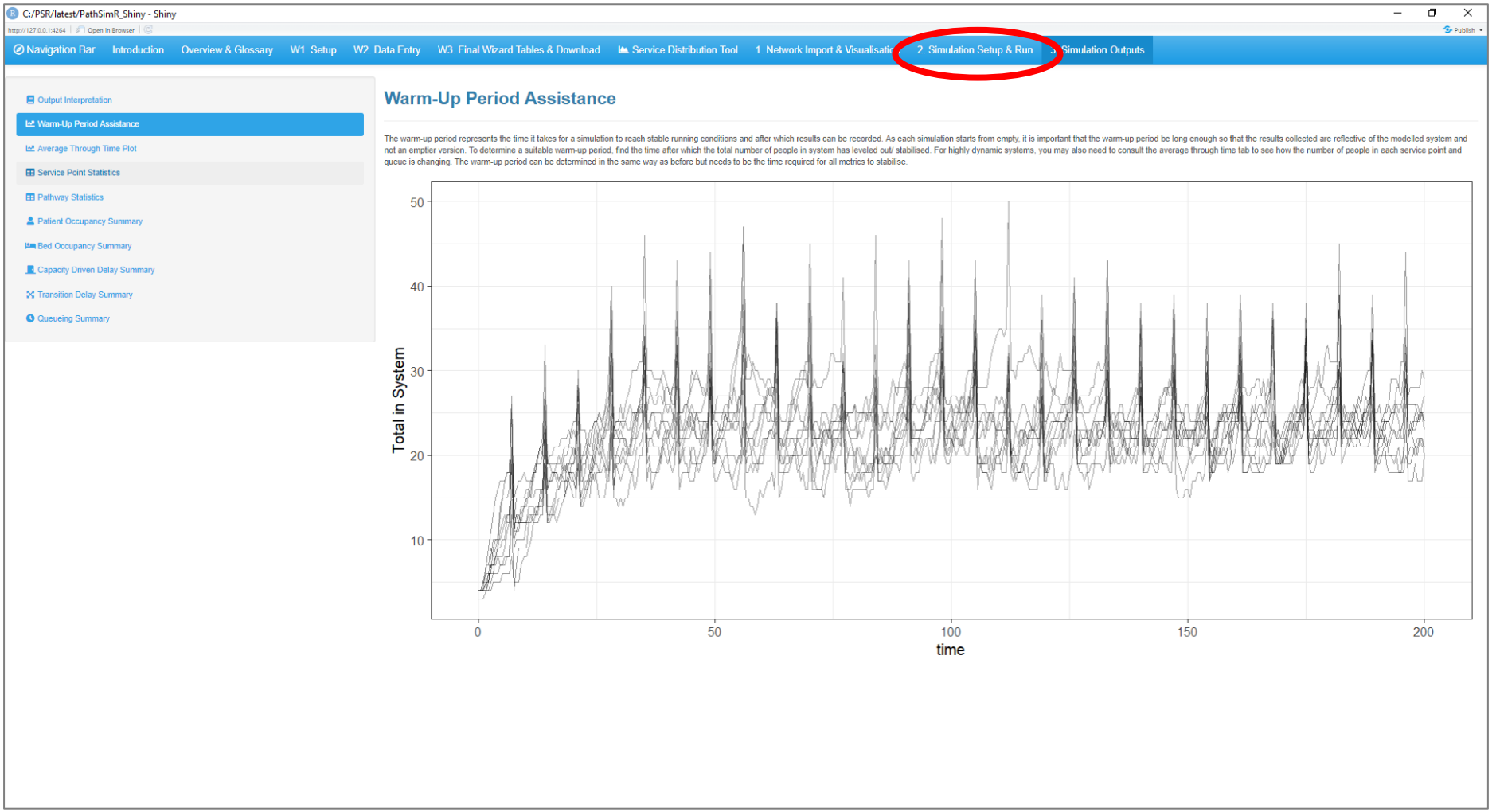
15. Select “OK”

Simulation set-up: Global options configuration (trial simulation)



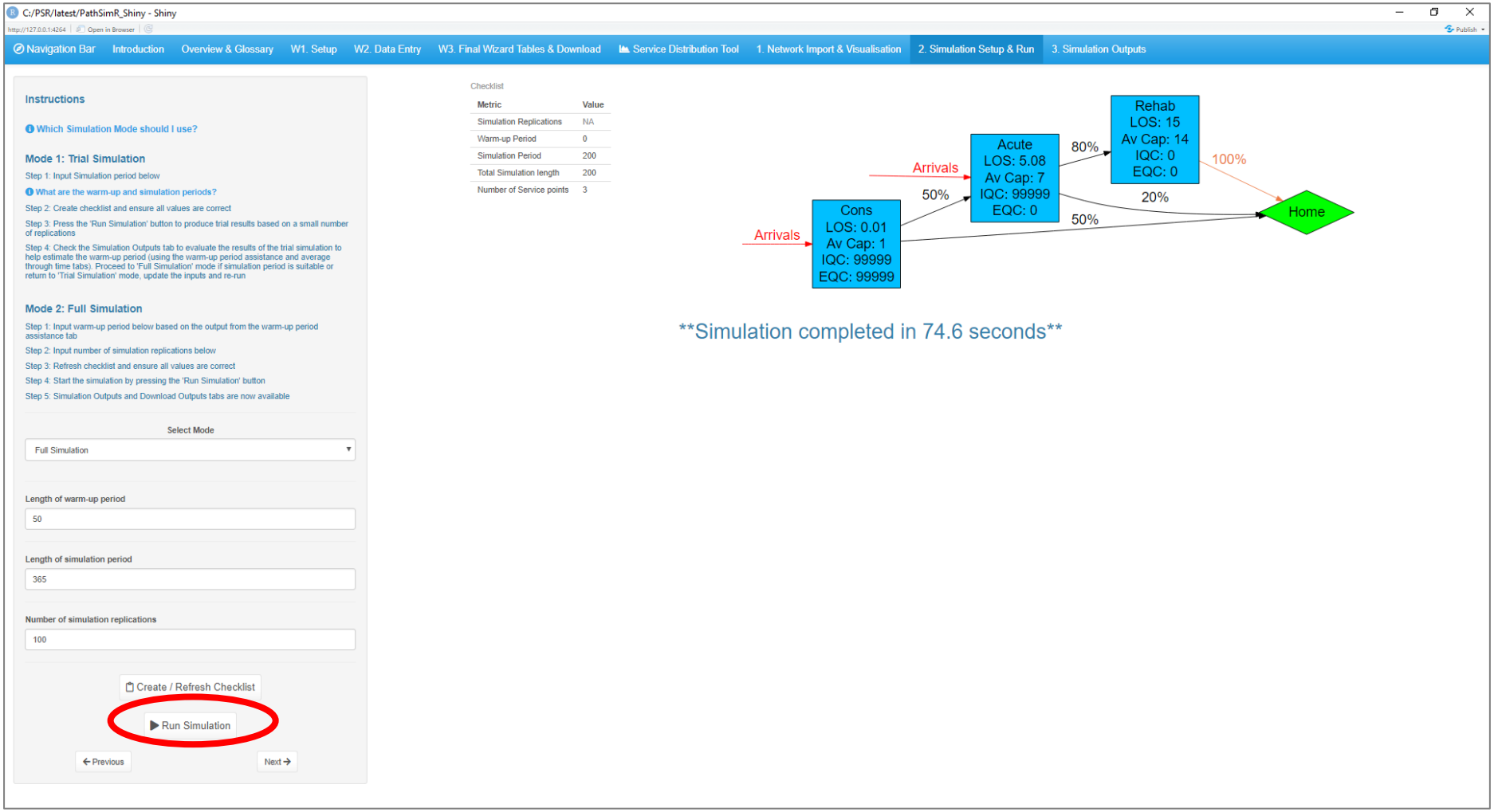
16. Select “Next”

Simulation set-up: Warm-up period detection



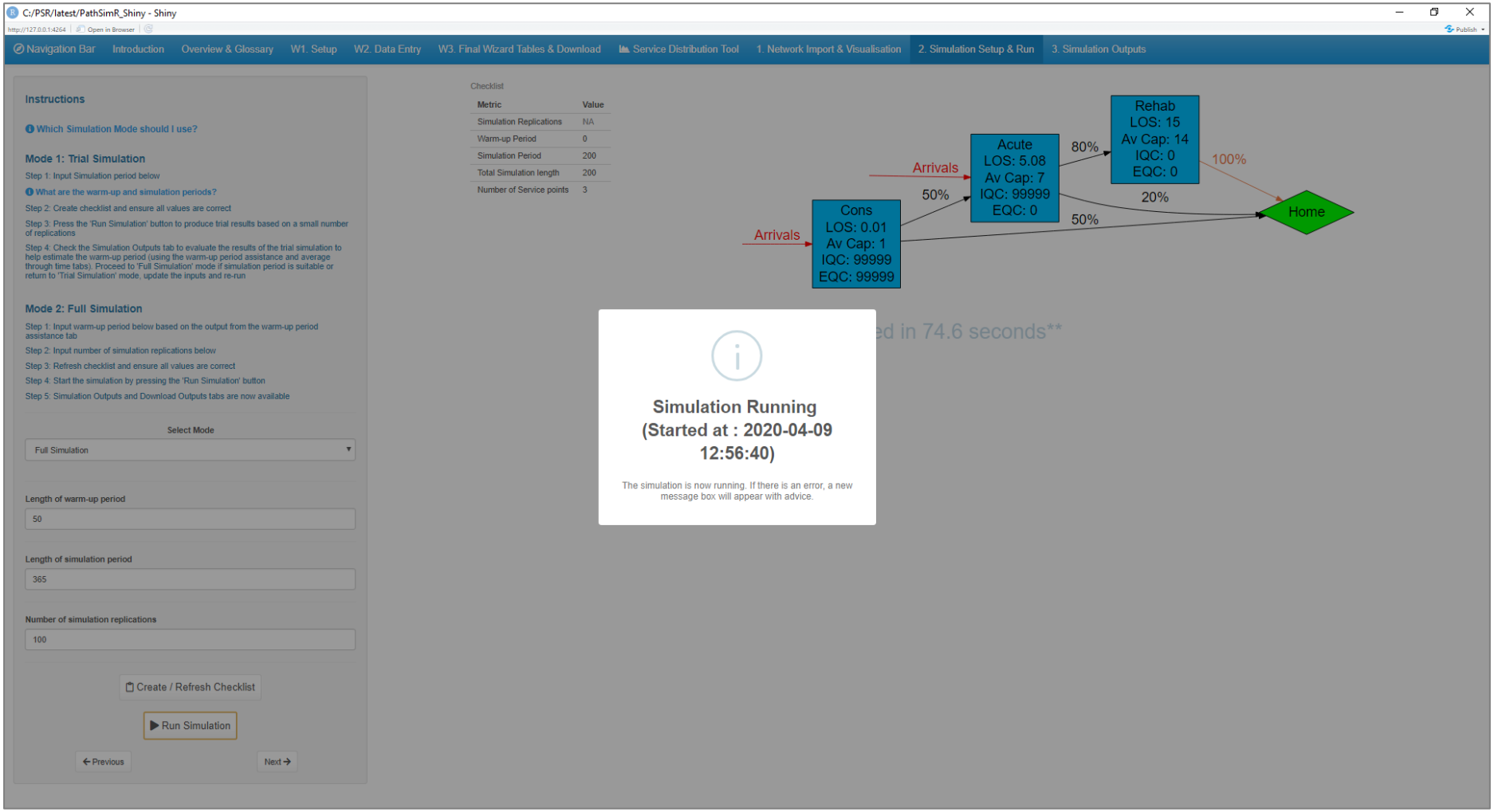
17. It is clear from visual inspection that a warm-up period of 50 days is sufficient
18. Navigate back to “Simulation Setup & Run” tab

Simulation set-up: Global options configuration (full simulation)

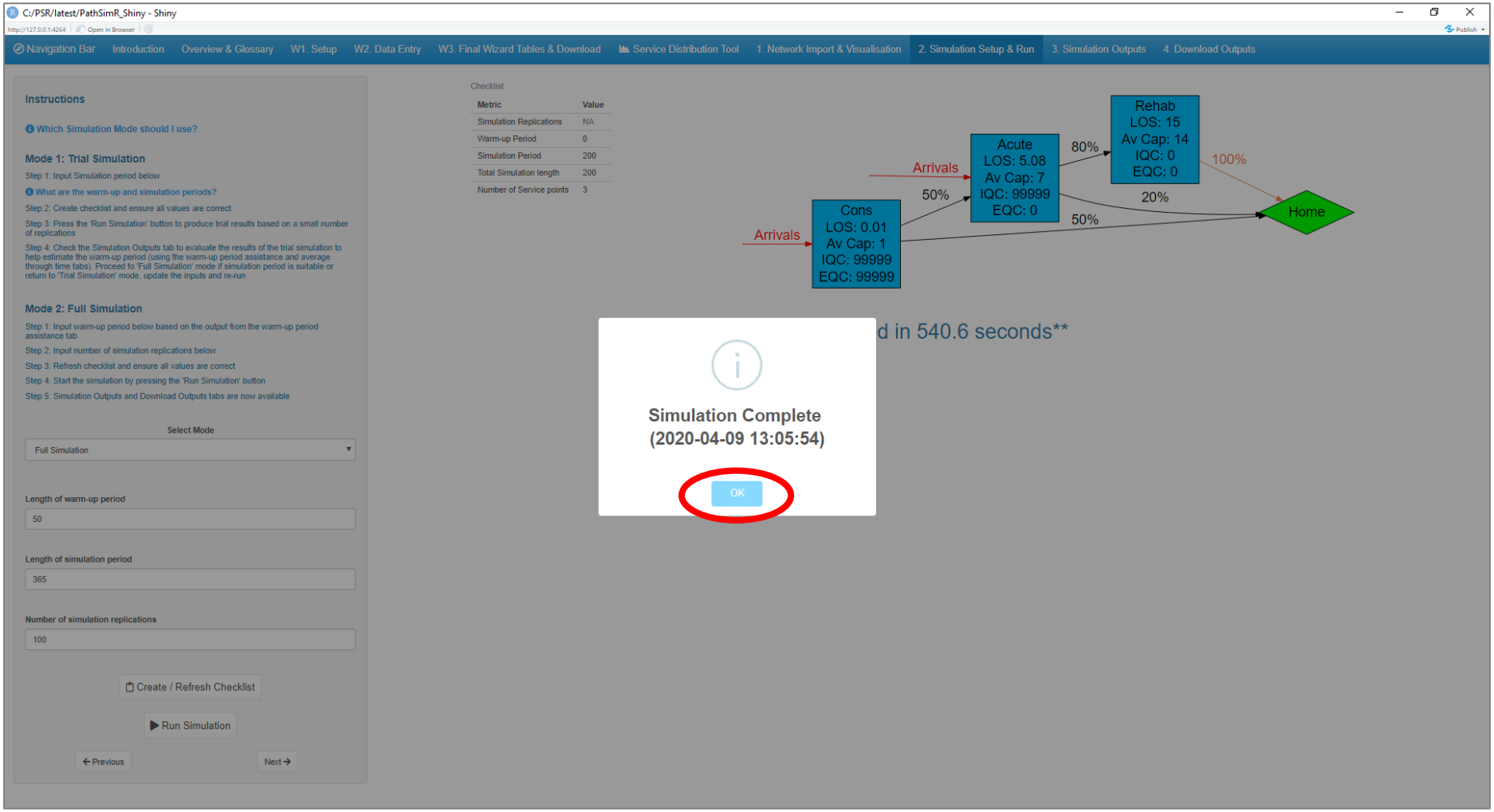


19. Select “Full Simulation” and enter warm-up period (50 days), length of simulation, and number of replications
20. Select “Run Simulation” to begin

Simulation set-up: Global options configuration (full simulation)

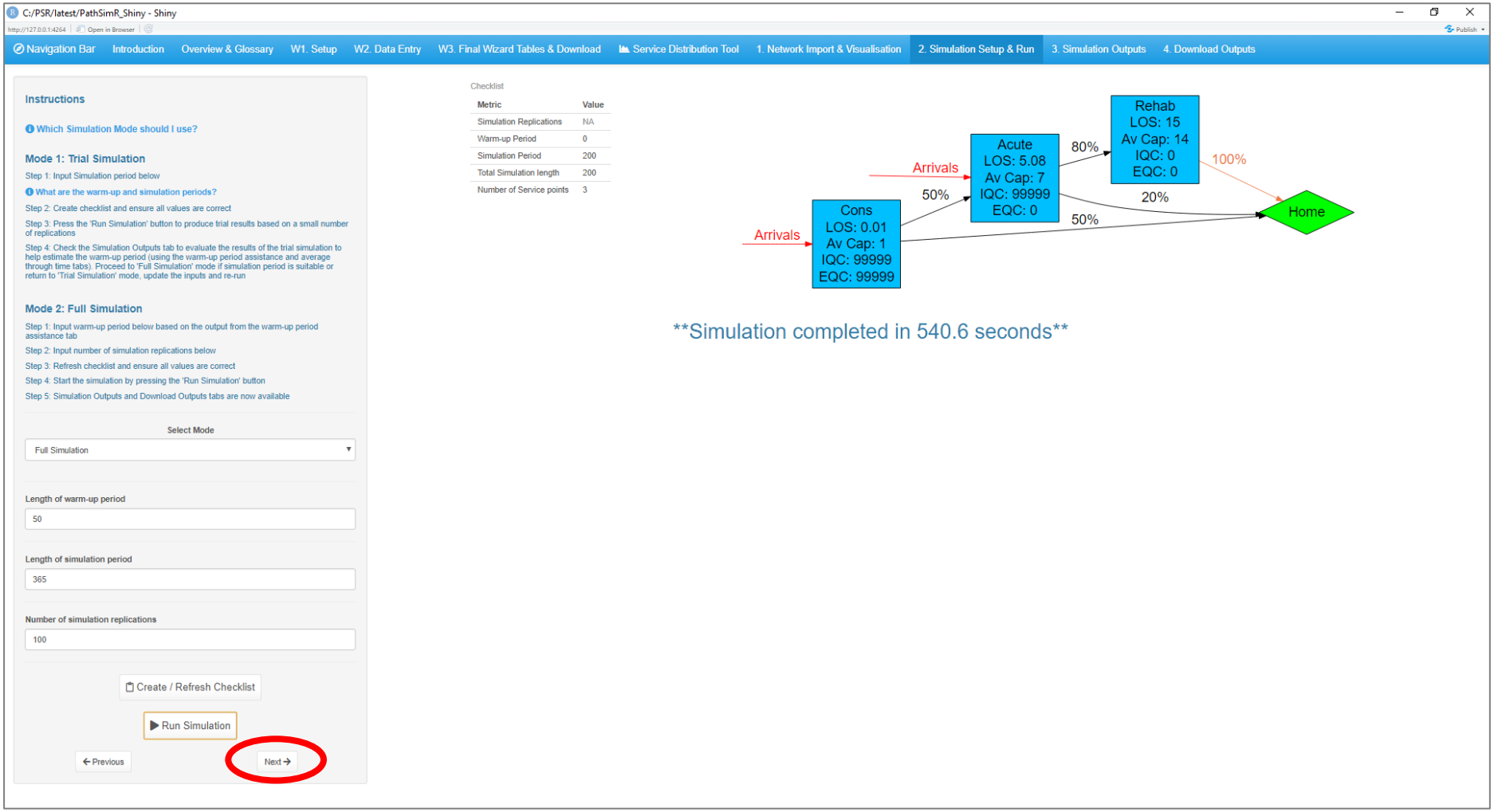


Simulation set-up: Global options configuration (full simulation)



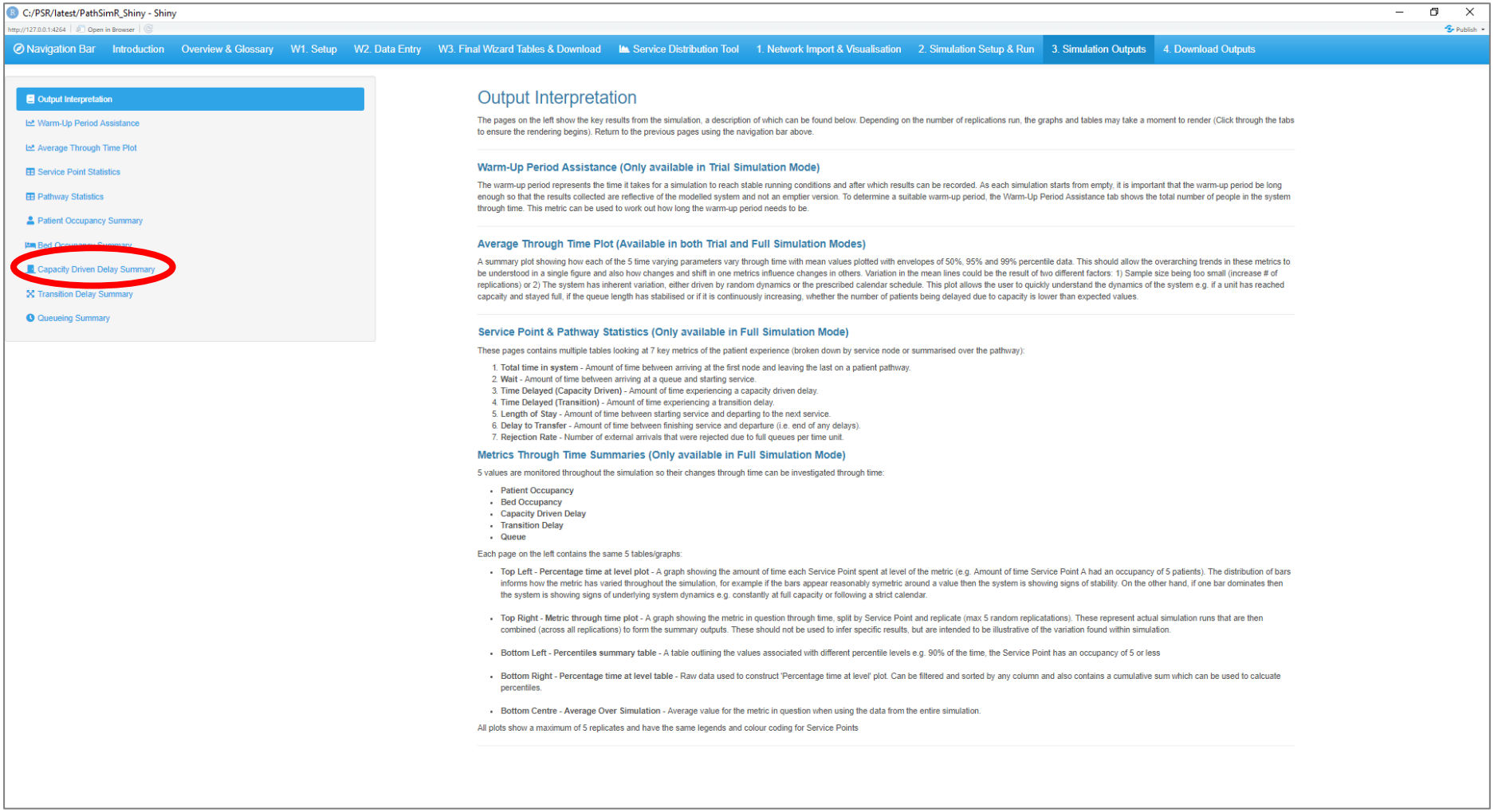
21. Select “OK”

Simulation set-up: Global options configuration (full simulation)



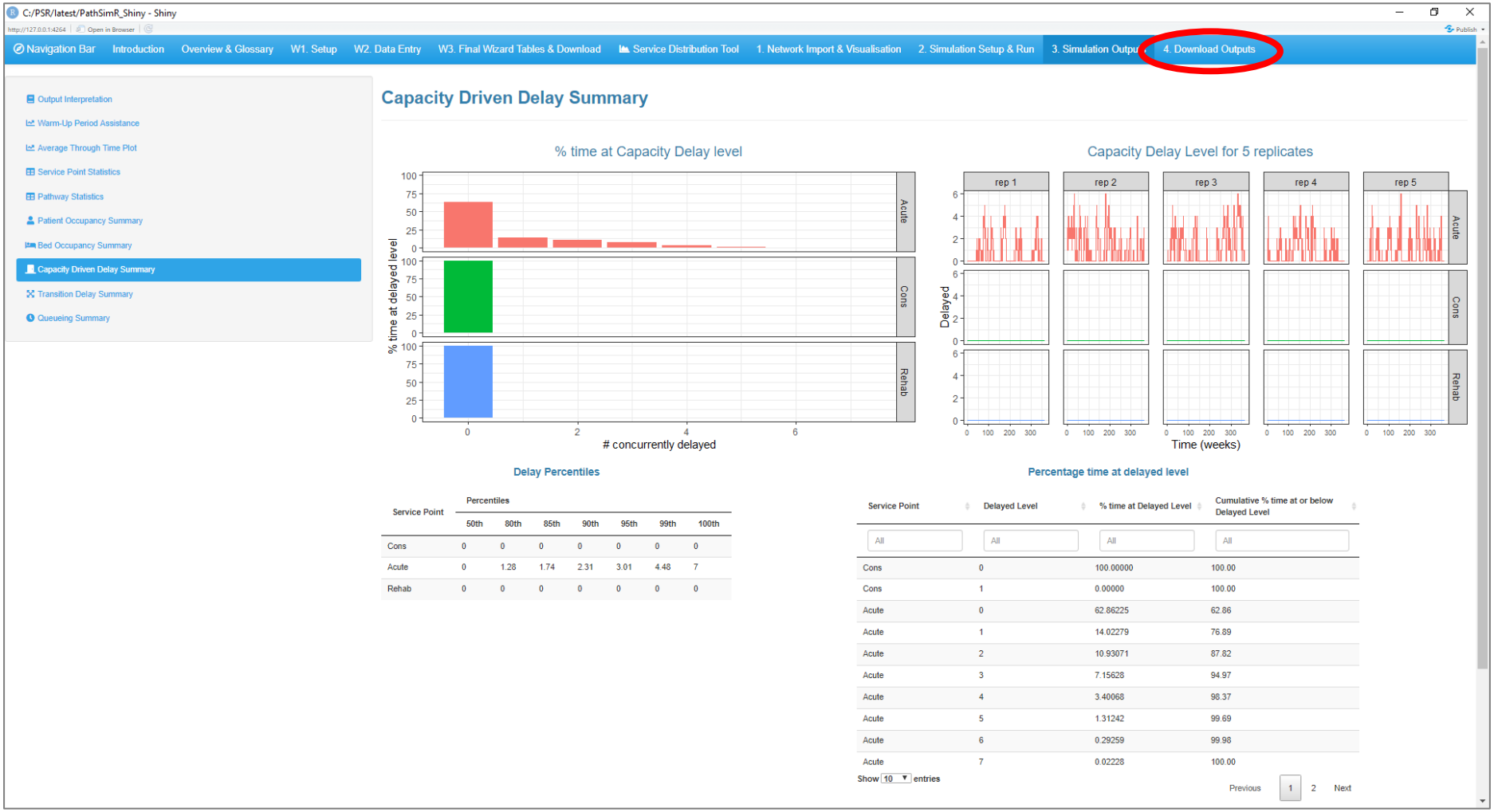
22. Select “Next”

Outputs: Output inspection



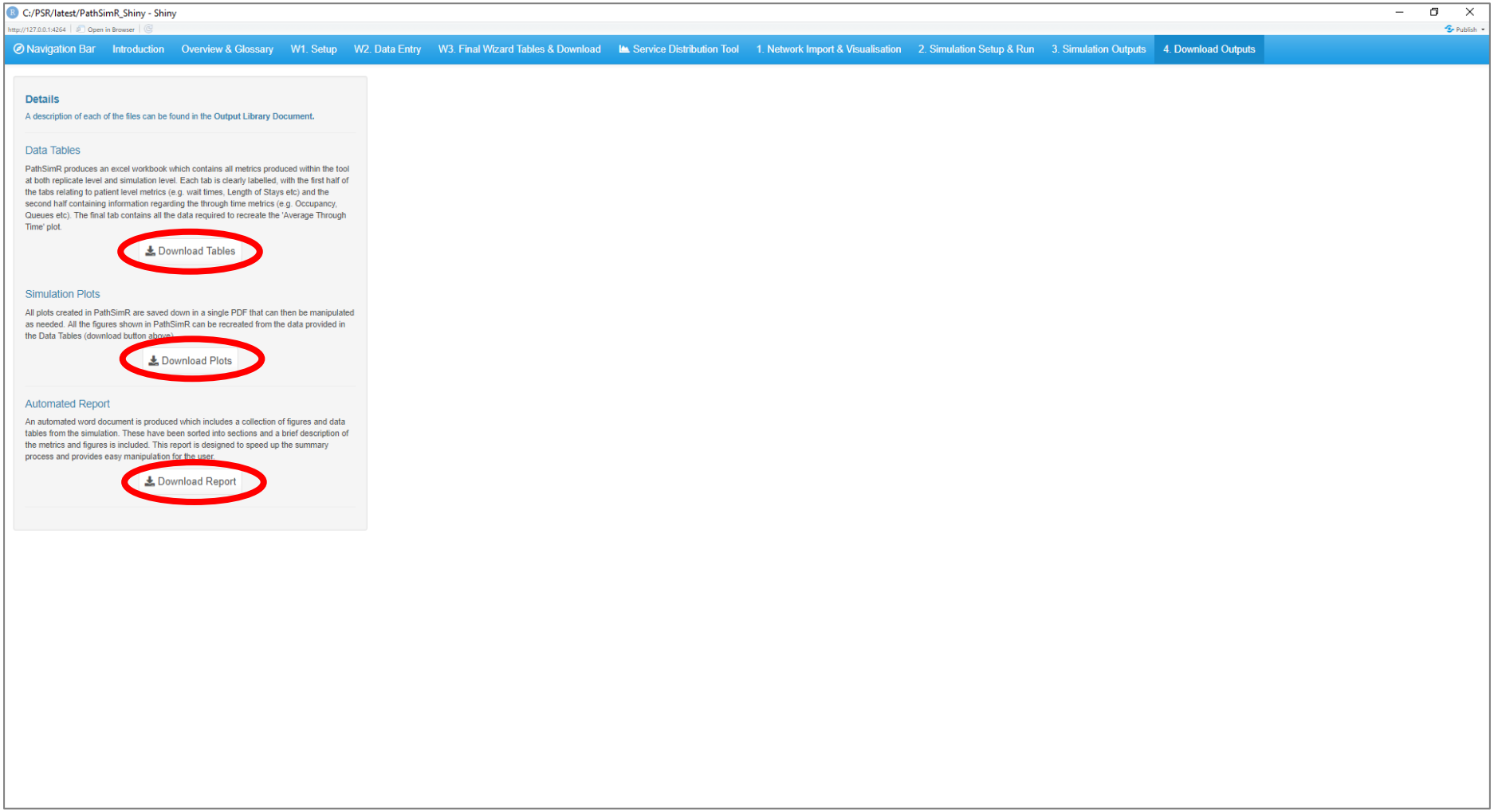
23. After reading, navigate to any of the output display windows

Outputs: Output inspection



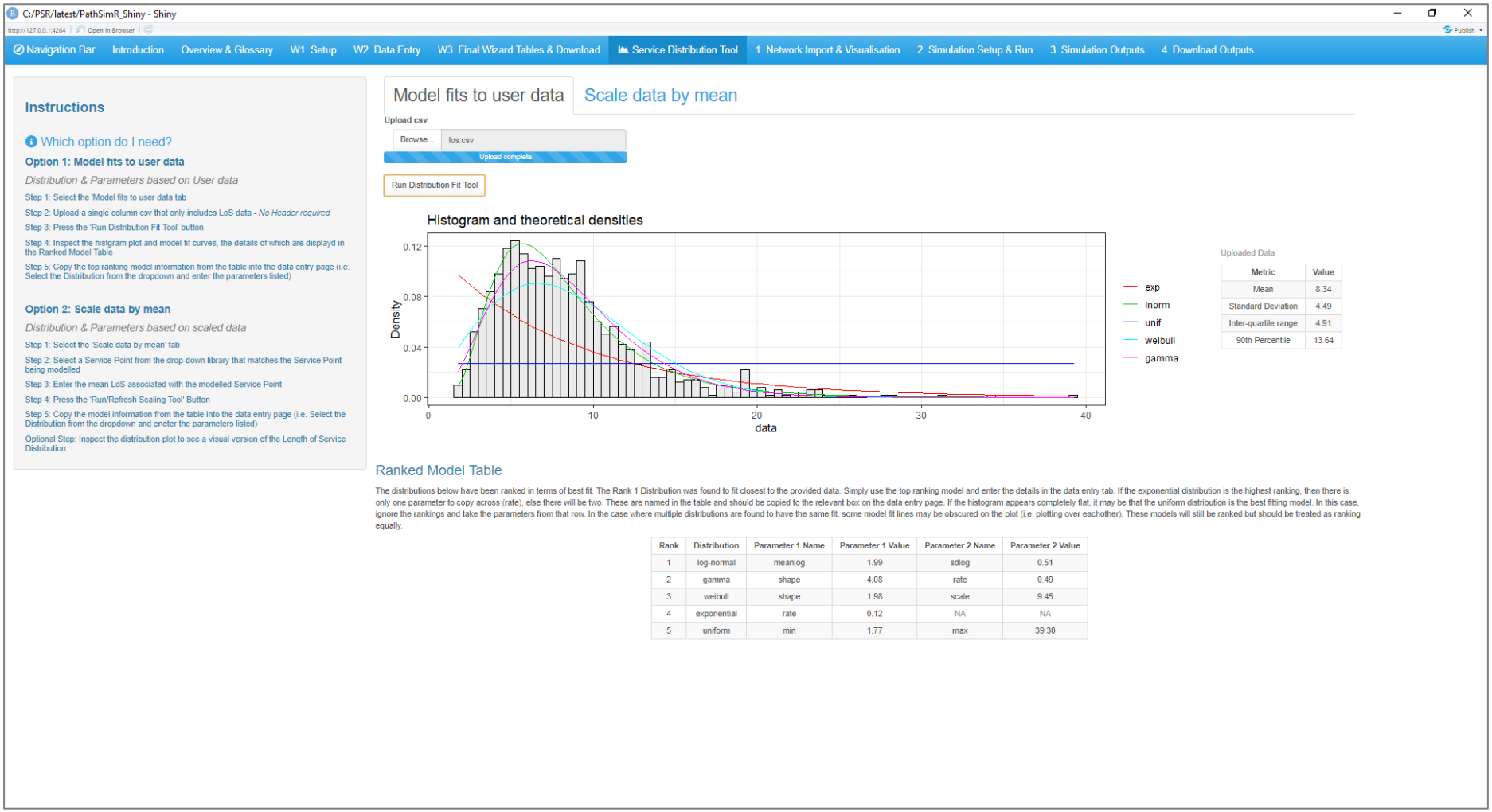
24. User may also download outputs, through selecting the “Download Outputs” tab

Outputs: Download data, tables, reports



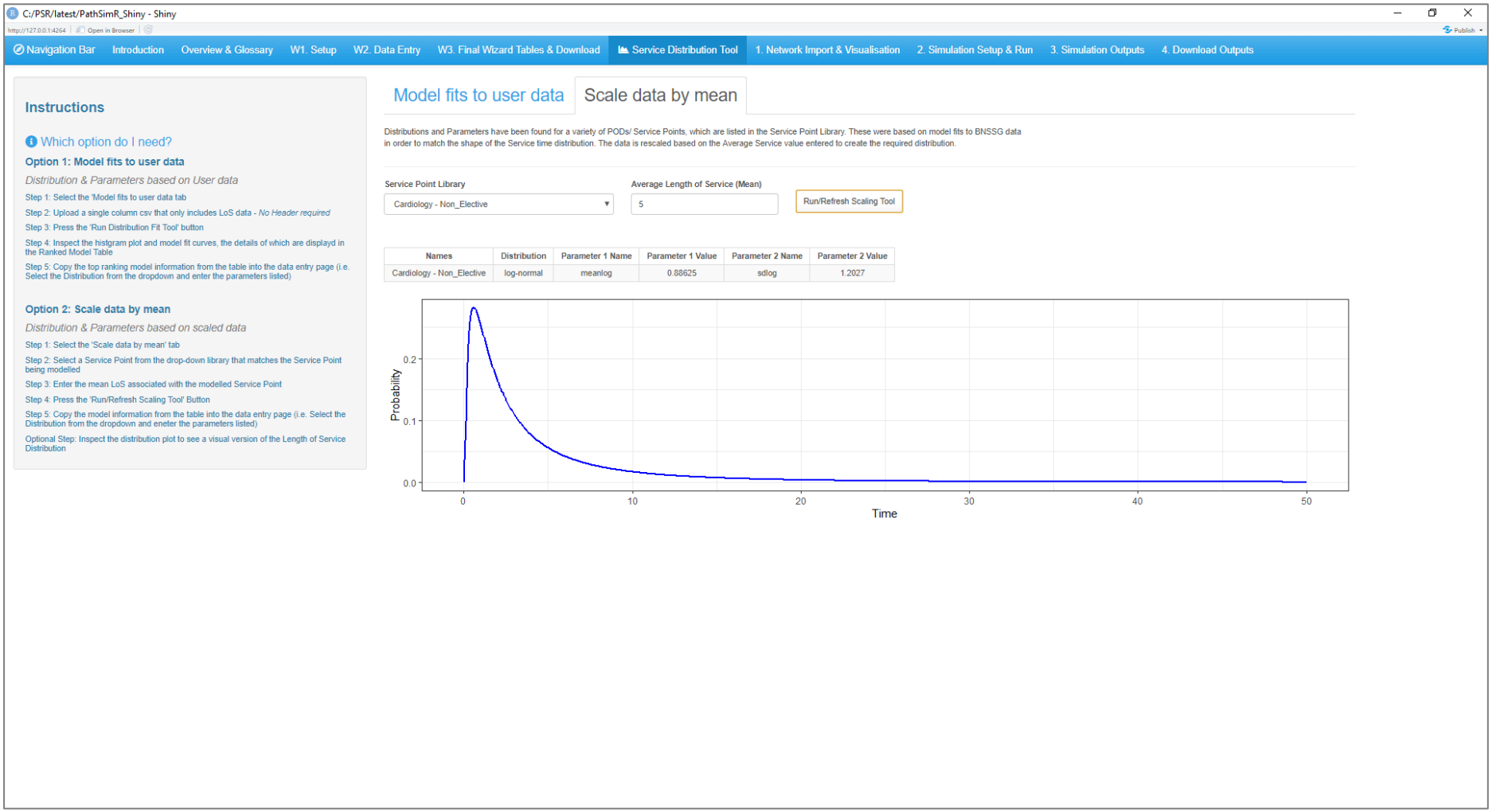
25. User can download the raw output data tables, plots, or MS Word report compiled automatically via R Markdown (this “knits” together the range of outputs as displayed through the visual GUI inspection, i.e. on previous page)

OPTIONAL – Pathway wizard: Node length of stay distribution fitting tool



- If the distribution of length of stay and associated parameters are not known then user can upload a list of known lengths of stay and the tool will fit distributions to this, from which the user may select one
- Resulting parameters can thereafter be entered into the Wizard calibration tabs for the relevant service node

OPTIONAL – Pathway wizard: Node length of stay distribution fitting tool



- Otherwise the user may select from a drop-down list of pre-populated distributions (based on fitting to England-wide data) and provide the mean to scale accordingly
- Resulting parameters can thereafter be entered into the Wizard calibration tabs for the relevant service node