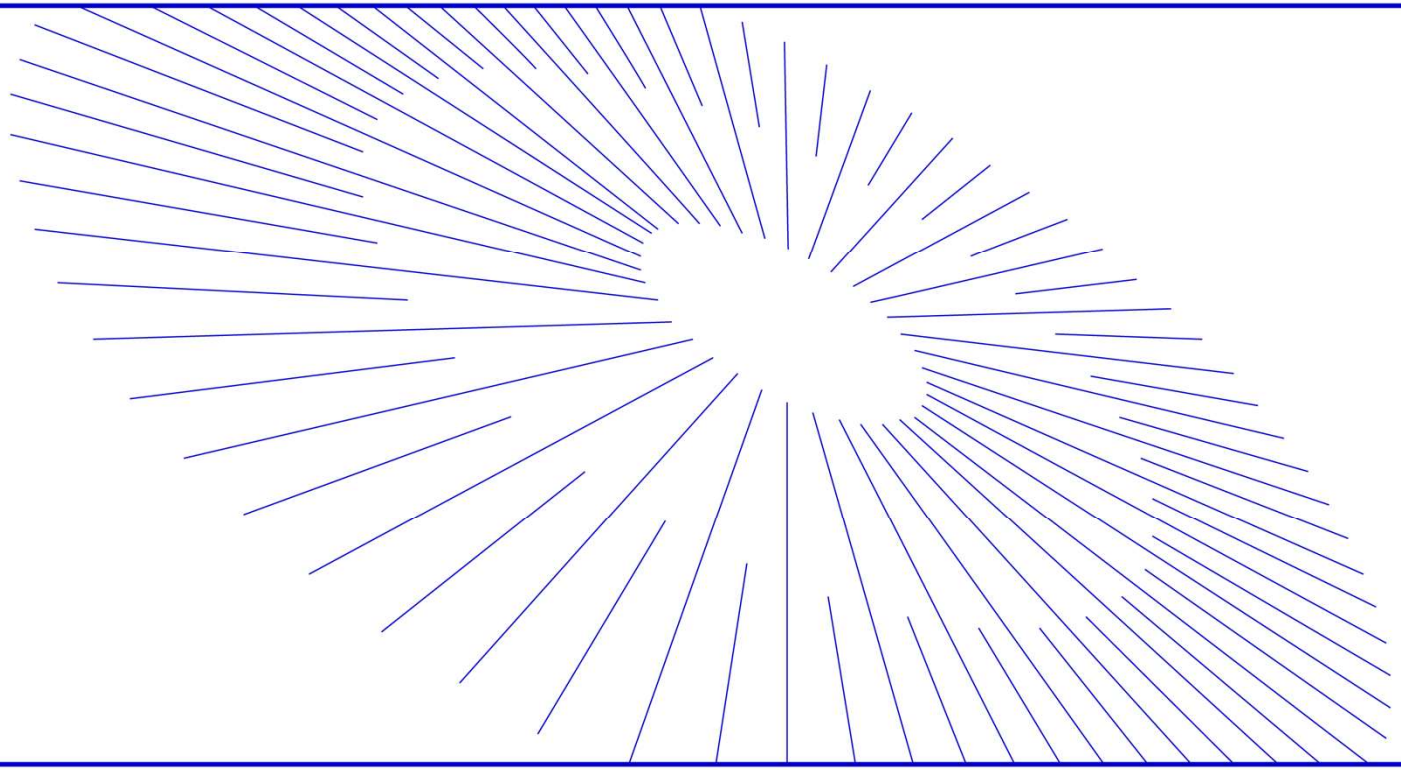
# Smart Construction Simulation
# 2024.9.18(Schedule) About the Release Version



EARTHBRAIN

# Release Item List



- We are pleased to announce the release of updates to "Smart Construction Simulation" with the following schedule and content.
- Due to system maintenance, the relevant services will not be available during the following dates.

(*The release schedule, time, and contents are subject to change depending on the situation. Please understand this in advance.)

Schedule： Tuesday, September 17 (Japan time)　7:00 p.m. - 12:00 p.m.

| NO. | Target Functions | Overview |
|---|---|---|
| 1 | Simulation (Function Improvement) | • Overview：Changed input method for total rainfall<br>• Details：The following changes have been made to the input method for total rainfall when calculating rainfall-flow projections.<br><Before>Total rainfall (mm)<br><After>Precipitation (mm/h) x rainfall duration (hours) = total rainfall (mm)<br>  |

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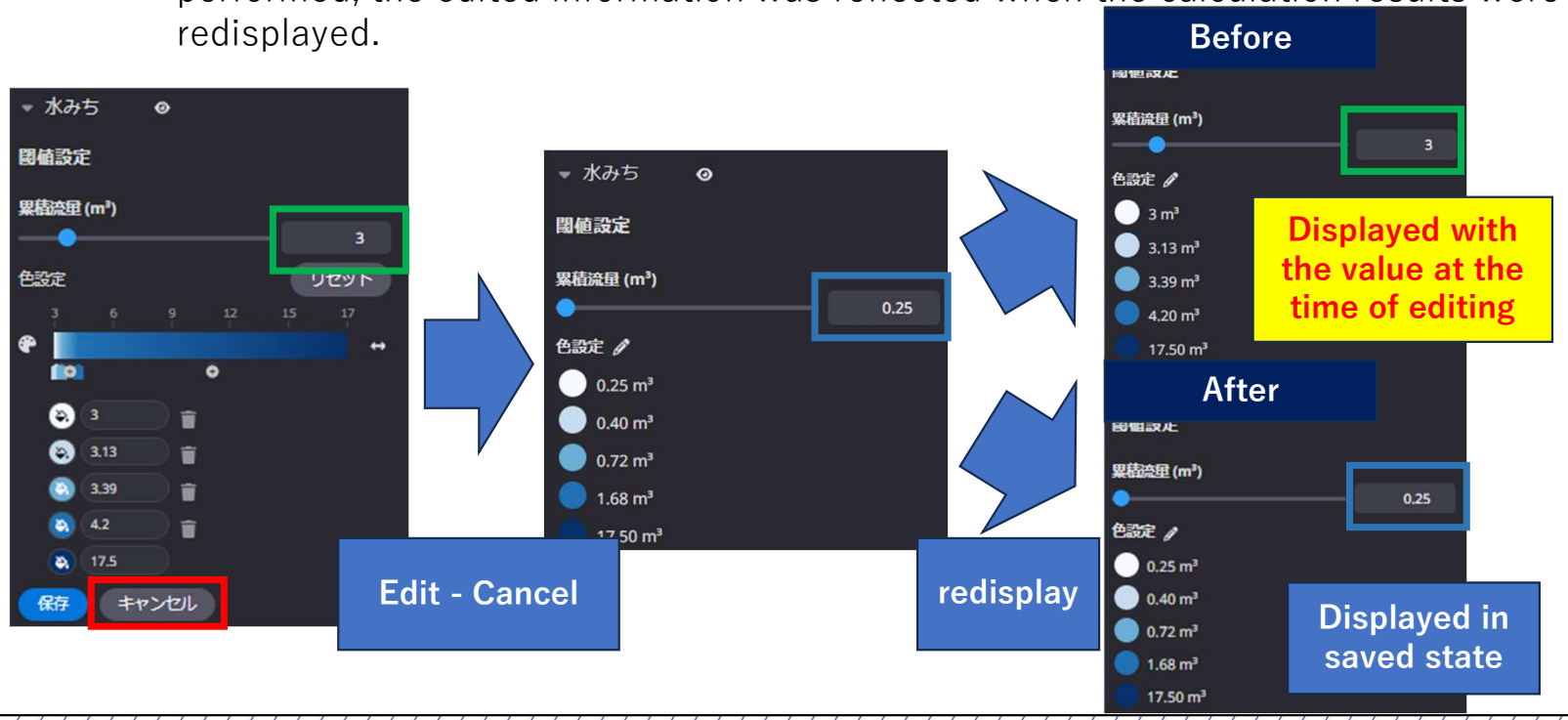
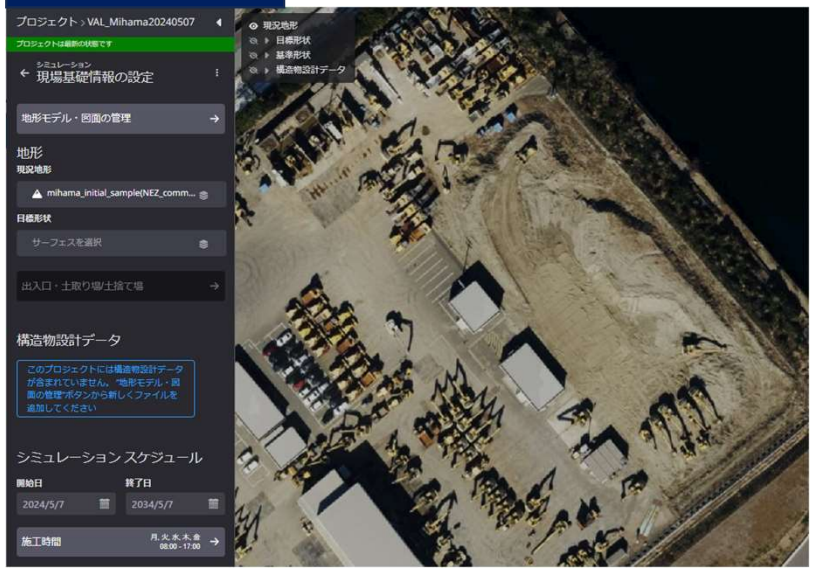
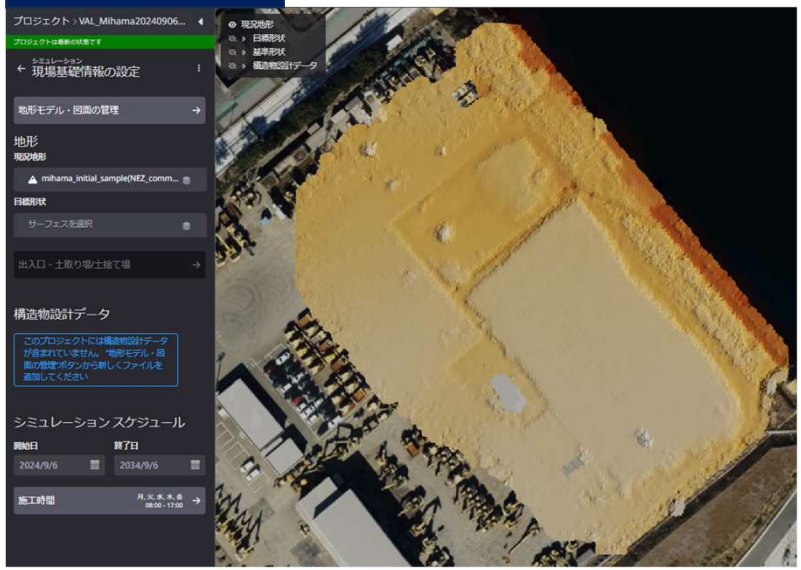
|---|---|---|
| 2 | Simulation<br>(Bug Repair) | • Overview：Fixed a problem in which the cumulative flow threshold was not retained when redisplaying results after cancelling changes to cumulative flow in the color edit screen.<br>• Details：A problem has been corrected where, when editing the color of a water channel, if the cumulative flow filter was changed and then the “Cancel” operation was performed, the edited information was reflected when the calculation results were redisplayed. |



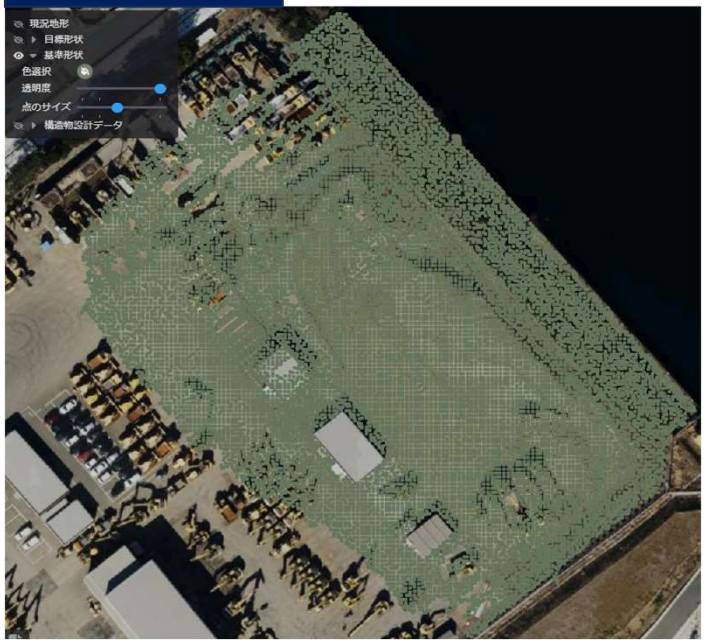
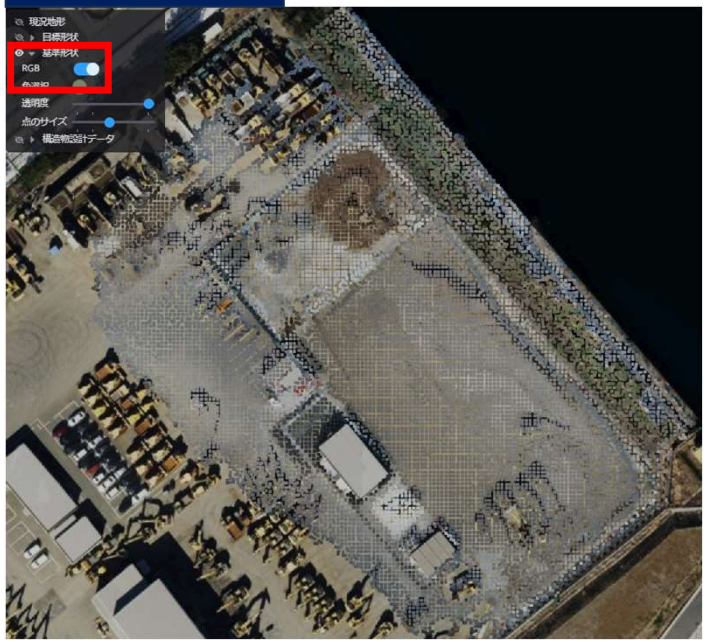
# Release Item List



| NO. | Target Functions | Overview |
|---|---|---|
| 3 | Simulation (Function Improvement) | • Overview：Ability to display Simulation Surface with existing topography only<br>• Details：Simulation Surface is now displayed even when only the existing terrain is set. Simulation Surface can be viewed by clicking “Current Topography: ON” on the map.<br><br>**Before**<br>  <br><br>**After**<br>  <br> |

# Release Item List



| NO. | Target Functions | Overview |
|---|---|---|
| 4 | Simulation (Function Improvement) | • Overview：Ability to display colored point cloud files<br>• Details：For colored point cloud files, you can now display them in color by toggling RGB ON/OFF. If the point cloud file does not contain RGB information, the RGB toggle will not be displayed as before.<br><br>**Before**<br>  <br><br><br>**After**<br>  <br> |

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| NO. | Target Functions | Overview |
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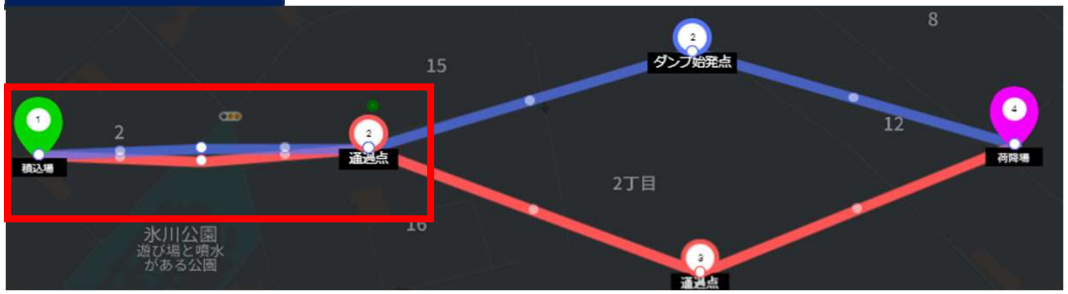
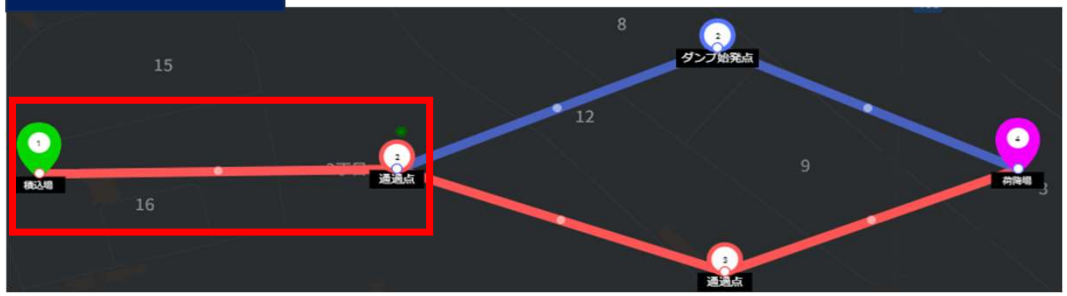
| 5 | Machine Simulation (Bug Repair) | • Overview：Fixed a problem in which the route sharing status between the construction area and adjacent points was canceled after reloading the plan when the round trip was disabled.<br>• Details：A problem has been corrected in which route sharing was broken when reloading a plan that merged construction zones and adjacent points in the case of separate outbound and inbound routes.<br>**Before**<br>  <br><br>**Routes between construction zones and adjacent points are not shared.**<br>**After**<br>  <br><br>**The route between the construction zone and adjacent points remains shared.** |

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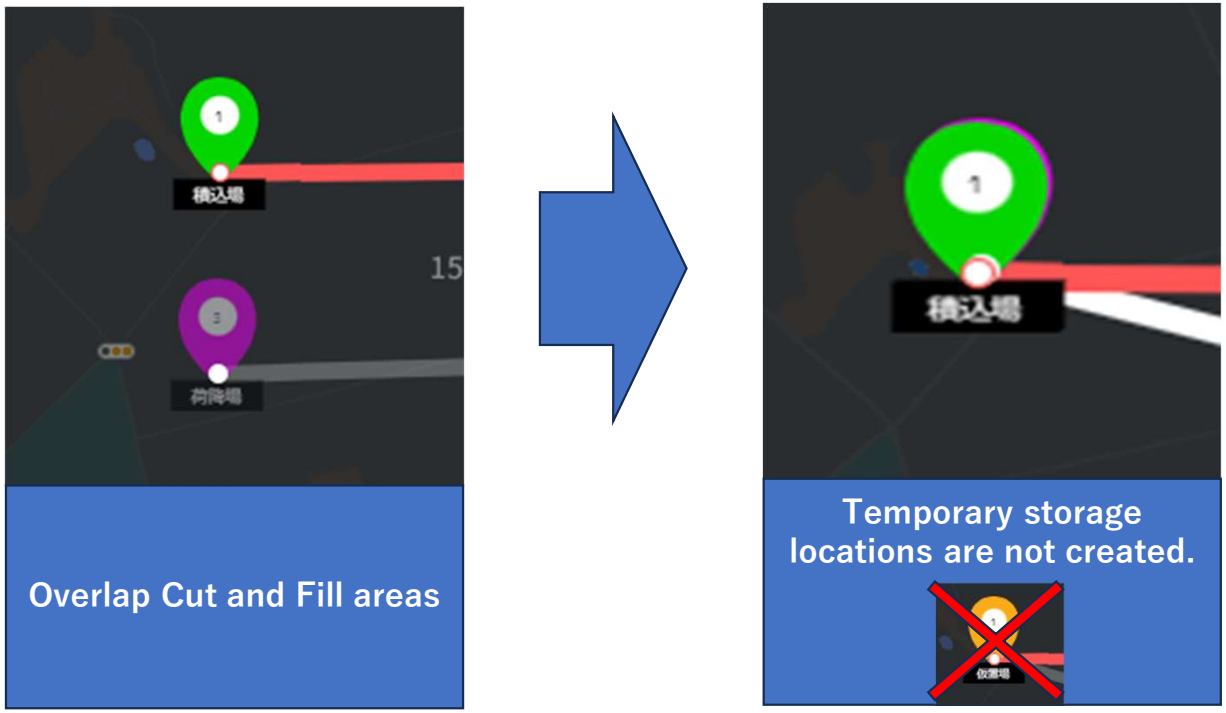
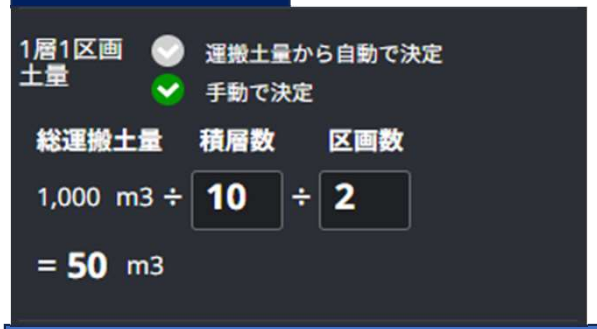
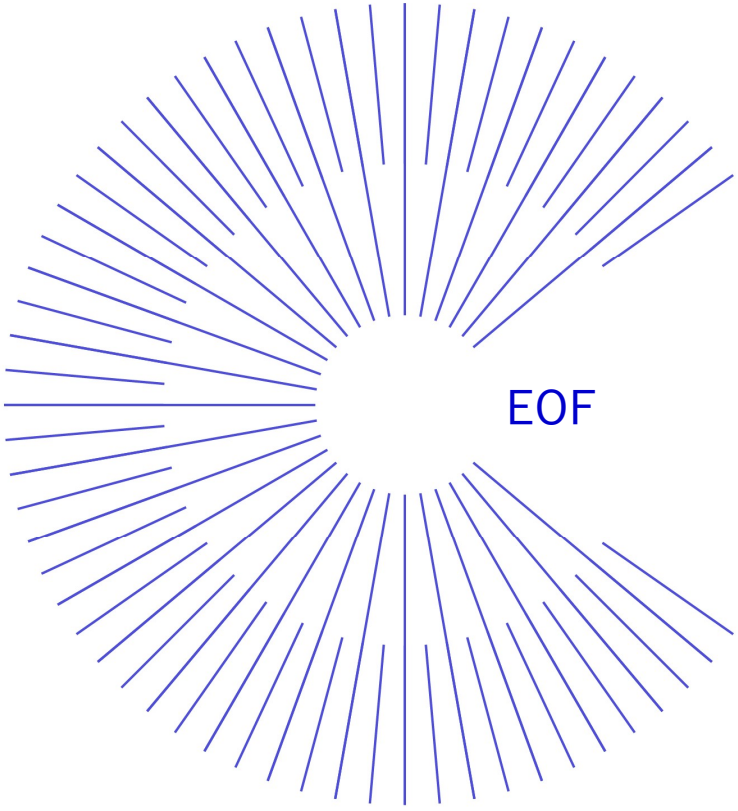
| NO. | Target Functions | Overview |
|---|---|---|
| 6 | Machine Simulation (Function Improvement) | • Overview：Temporary placement function changed to disabled<br>• Details：The temporary placement function was restricted from being used because it is a non-released function and is not known to the general user. As a result, when loading and unloading points are overlapped, they will only overlap but will no longer be combined into a temporary placement point.<br>  |

| NO. | Target Functions | Overview |
|---|---|---|
| 7 | Machine Simulation (Function Improvement) | • Overview：Ability to switch between automatic adjustment and manual setting of soil volume setting per layer per plot<br>• Details：You can now choose between automatic adjustment and manual setting of the soil volume per layer per section. In the case of automatic adjustment, the value is automatically adjusted from the amount of soil to be transported. If you wish to change the number of layers/compartments, you can use the manual setting to change it to any desired value.<br>**Auto Adjustment (default)**<br>  <br>4 荷降場<br>搬出（他社）<br>1層1区画土量<br>運搬土量から自動で決定<br>手動で決定<br>The following values are changed when the amount of soil to be transported is changed<br>・Number of layers: Fixed value 10<br>・Number of sections: Total soil volume ÷ 400 (rounded down)<br>※The number of layers/compartments is not displayed on the screen.<br>**Manual setting**<br>  <br>1層1区画土量<br>運搬土量から自動で決定<br>手動で決定<br>総運搬土量 積層数 区画数<br>1,000 m3 ÷ 10 ÷ 2<br>= 50 m3<br>Numbers of layers/compartments values can be changed manually |

| NO. | Target Functions | Overview |
|---|---|---|
| 8 | Machine Simulation (Bug Repair) | • Overview：Fixed a problem in which changes to [number of layers/number of sections] in the parent runway were carried over to the child runways when batch settings were enabled.<br>• Details：A problem has been corrected in which changes to [number of layers/number of sections] in the parent runway would be carried over to the child runways. |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