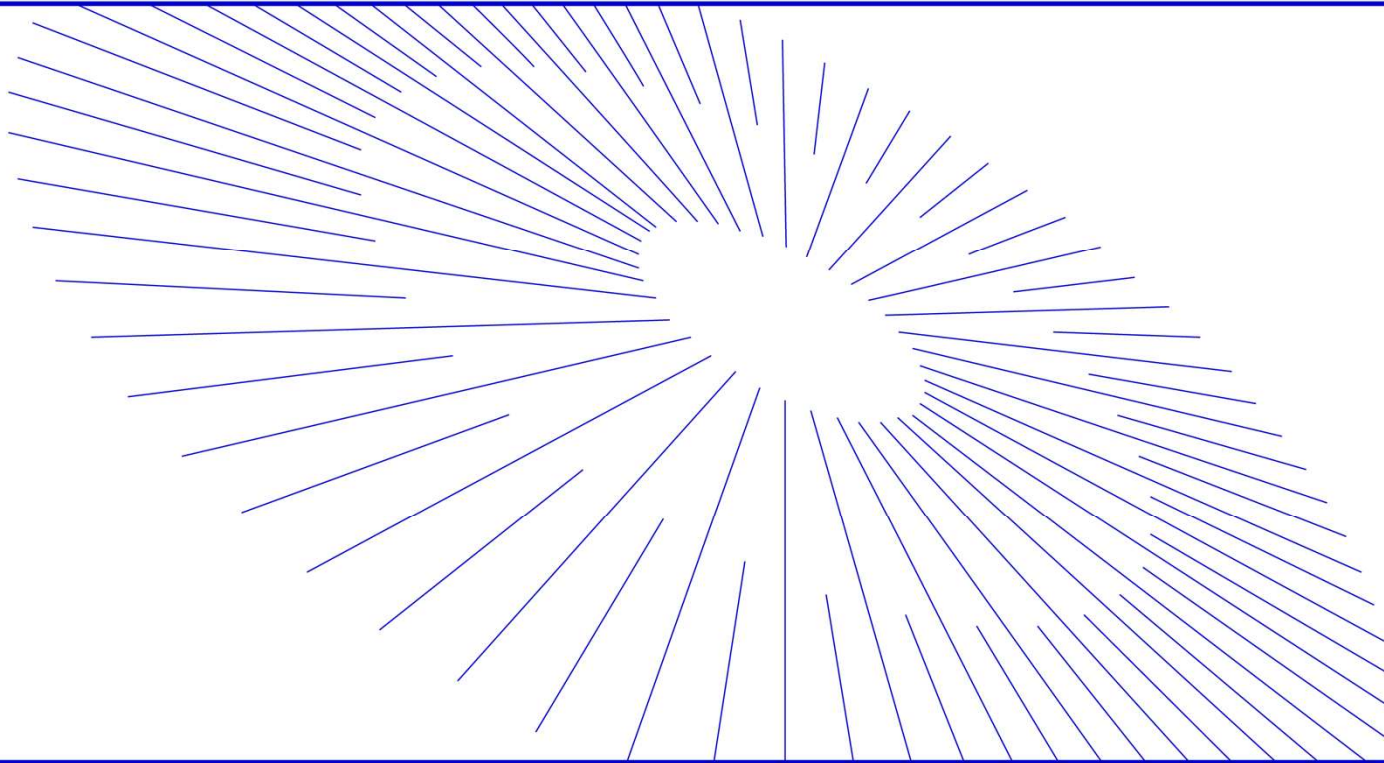


Smart Construction Simulation

2025.9.2(Schedule) About the Release Version





- 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 2 (Japan time) 7:00 p.m. - 12:00 p.m.

NO.	Target Functions	Overview	Details
1	Simulation (Function Improvement)	Upport for importing GeoJSON files	GeoJSON (.geojson, .json) files are now supported as vector overlay formats. Uploaded GeoJSON files are displayed with a linework icon and are automatically added to the "Design Data" list in the upper-left corner of the screen. Additionally, the "Project onto Ground Surface" option is now supported for these files.
2	Simulation (Function Improvement)	Support for importing DTM data	It is now possible to upload two TIFF files simultaneously and import them as DTM data. Each file can be designated as either "Image" or "Terrain," and will be uploaded with a point cloud icon to the Manage Surface list. Additionally, the imported data can be set as the Initial Surface.
3	Simulation (Bug Repair)	Fixed an issue where the point cloud format was not applied during import from groupware	Fixed an issue where the selected point cloud format was not correctly applied during import from groupware. Imports will now correctly reflect the chosen point cloud format.



NO.	Target Functions	Overview	Details
4	Simulation (Function Improvement)	Added support for importing 2D design drawing data	TIFF files can now be uploaded as 2D design drawings. When uploading TIFF files, you can select "Ortho/2D Design Drawing" as the asset type. Files uploaded as 2D design drawings will be displayed with the same icon as design data and automatically added to the "2D Design Drawing" list in the upper-left corner of the screen.
5	Simulation (Bug Repair)	Fixed an issue where the task end display setting changed during duplication	Fixed an issue where the display end task setting for custom tasks was reset during simulation duplication. The display end task setting is now correctly retained in the duplicated simulation.
6	Simulation (Bug Repair)	Resolved a bug that prevented unused design data from being deleted after removing custom tasks	Fixed an issue where design data linked to a custom task could not be deleted even when it was no longer in use. Design data can now be properly removed from the file list after deleting the associated task, as dependencies are correctly cleared.
7	Simulation (Function Improvement)	Implemented CSV point cloud download functionality for intermediate terrain	It is now possible to download terrain data from intermediate stages of the simulation as point cloud data in CSV format. Point cloud data can be exported from each menu in both the Earthwork Planning settings screen and the Schedule screen, similar to LandXML export.





NO.	Target Functions	Overview	Details
8	Simulation (Function Improvement)	Implemented vertical resizing via drag in the Gantt chart view	The vertical height of the Gantt chart view in the schedule menu can now be freely adjusted via drag operation. The collapse button for the Gantt chart view has been relocated to the right edge of the screen.
9	Machine Simulation (Bug Repair)	Fixed an issue where loaded vehicle start did not function correctly on the second and subsequent lanes	The issue where unloading operations did not occur from the off-site loaded vehicle during the first lap, even when the start condition was set to "loaded vehicle start" from the second route onward, has been fixed. Now, regardless of the start condition, unloading operations correctly occur during the first lap when starting with a loaded vehicle.
10	Machine Simulation (Bug Repair)	Resolved a bug where only the "Total" column in the cost summary table had an incorrect background color	The issue where only the "Total" column in the cost summary table had a different background color has been fixed. The background color has been adjusted to match the rest of the table for consistency.
11	Machine Simulation (Bug Repair)	Fixed a save failure issue when creating temporary storage in a synchronized Fleet-linked construction zone	The issue where the save process failed when creating a temporary storage area on a route linked to a Fleet with three or more routes has been fixed. As a result, saving under the above conditions now works correctly. Additionally, the following specification change has been made as part of this fix: It is now possible to save with only one of either the loading point information or the Fleet unloading point information set.





NO.	Target Functions	Overview	Details
12	Machine Simulation (Function Improvement)	Implemented automatic lane progress input when creating a re-planning plan	When a linkage table exists and a route is linked, the progress soil volume is now automatically entered into the rescheduling dialog based on the actual soil volume aggregation period. This allows users to create a rescheduling plan with the actual soil volume automatically populated.
13	Machine Simulation (Function Improvement)	Enhanced simplified calculation to consider parallel construction on multiple lanes	To more accurately estimate operations involving multiple parallel routes during simplified calculations, the system has been improved to also include the day following the completion of a route in the calculation. Previously, only the start and end dates of each route were considered, but now the day after the completion of other routes is also included in the calculation.
14	Machine Simulation (Bug Repair)	Fixed an issue where lane display switching failed after changing the date in the animation playback screen	The issue where route display switching did not work after changing the date on the transport animation screen has been fixed. Route display switching now functions correctly after the date is changed.
15	Machine Simulation (Function Improvement)	Improved progress graph prediction logic to support non-working days and cumulative averaging	The progress graph has been improved with the following specification changes: <ul style="list-style-type: none">• Goal (Earthwork Volume): Total transported volume across all lanes defined in the selected plan• Slope of the Progress Line: Average of the actual volumes recorded over the most recent 5 days• Handling of Non-Working Days: No volume is added on non-working days• Predicted Final Day Volume: Adjusted so that the total volume reaches the goal exactly on the goal date



NO.	Target Functions	Overview	Details
16	Machine Simulation (Bug Repair)	Fixed an issue where locations and routes did not update correctly after unlinking shared points between outbound and return paths	Fixed an issue where locations and routes did not update correctly after unlinking shared points between outbound and return paths. Map operations now function properly even after the shared link is removed.
17	Machine Simulation (Bug Repair)	Resolved a bug where empty working days were generated in standalone (slope) construction zones	Fixed an issue where empty working days were generated during calculations for standalone (slope) construction zones. Working days without actual progress are no longer displayed.
18	Machine Simulation (Function Improvement)	Improved the Fleet menu behavior so that it now closes automatically during other operations	Previously, the Fleet integration menu could only be closed by pressing the menu button again. This behavior has been improved so that the menu now closes automatically when other operations are performed.
19	Machine Simulation (Bug Repair)	Fixed incorrect display of daily operation rate volumes and units during standalone zone calculations	Fixed an issue where the volume and units were incorrectly displayed in the daily operation rate screen during calculations for standalone zones (slope and other work). The values shown in the chart and the progress graph are now consistent.



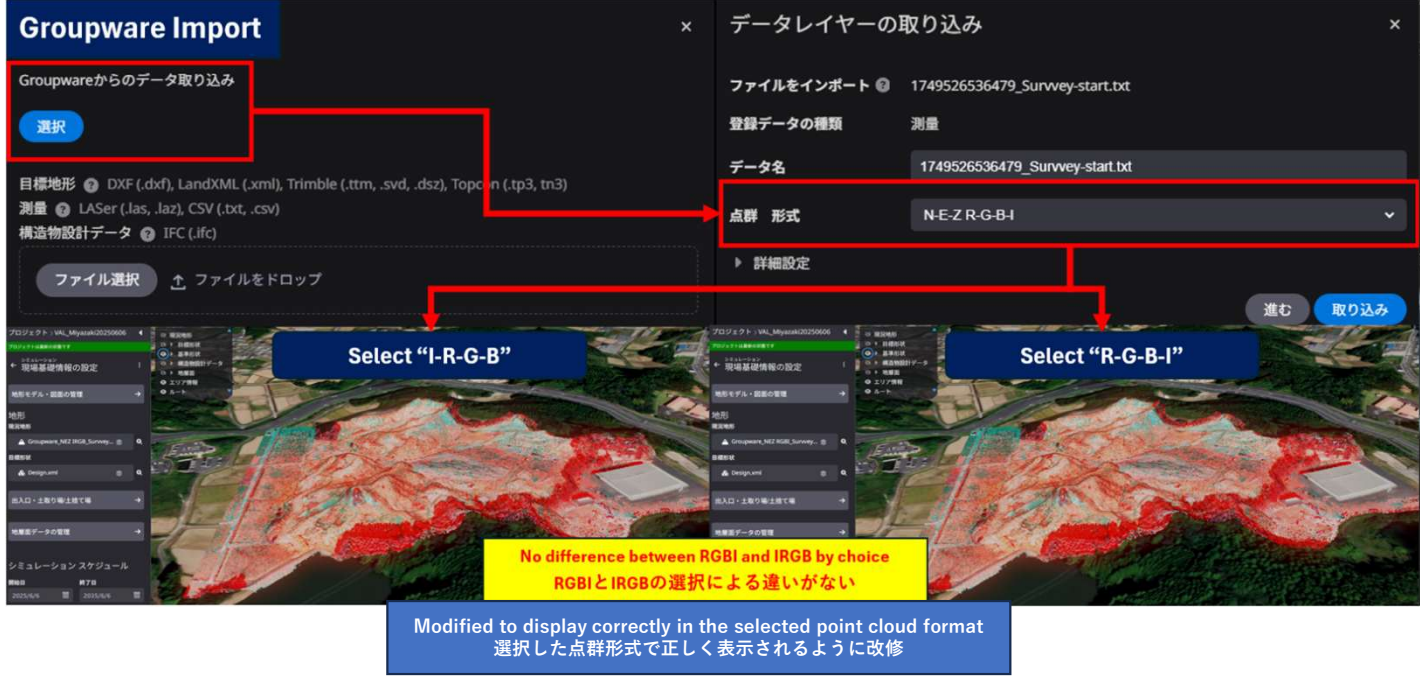


NO.	Target Functions	Overview
1	Simulation (Function Improvement)	<div><div><ul style="list-style-type: none">• Overview : Upport for importing GeoJSON files• Details : GeoJSON (.geojson, .json) files are now supported as vector overlay formats. Uploaded GeoJSON files are displayed with a linework icon and are automatically added to the “Design Data” list in the upper-left corner of the screen. Additionally, the “Project onto Ground Surface” option is now supported for these files.</div><div><div><div><div>File Upload</div><div>目標地形 ② DXF (.dxf), LandXML (.xml), Trimble (.tmm, .svd, .dsz), Topcon (.tp3, tn3) 2次元設計図 ② TIFF (.tif, .tiff) ラインワーク ② DXF (.dxf), Trimble (.svl) 測量 ② LASer (.las, .laz), CSV (.txt, .csv) オルソ ② TIFF (.tif, .tiff) オーバーレイデータ ② KML (.kml, .kmz) GeoJSON (.json, .geojson) 構造物設計データ ② IFC (.ifc) DTMデータ ② TIFF (.tif, .tiff) (2つ以上のファイルが必要です。)</div><div>データレイヤーの取り込み</div><div>ファイルをインポート ② polygons.geojson 登録データの種類 オーバーレイデータ データ名 polygons.geojson</div></div><div><div>Groupware</div><div>ホーム > Simulation > Input > Design > Overlay</div><div><div>転送ファイル名</div><div>作成者</div><div>1756692766438_lines.geojson 田中 祐輔</div><div>1756692767328_points.geojson 田中 祐輔</div></div></div></div><div><div><div>Map display</div><div>② 現況地形 ② 目録形状 ② 基準形状 ② 設計データ ② lines.geojson ② points.geojson <input checked="" type="checkbox"/> 地表面に投影 ② polygons.geojson</div><div>簡易計測</div></div></div></div></div>



NO.	Target Functions	Overview
2	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Support for importing DTM data• Details : It is now possible to upload two TIFF files simultaneously and import them as DTM data.Each file can be designated as either “Image” or “Terrain,” and will be uploaded with a point cloud icon to the Manage Surface list.Additionally, the imported data can be set as the Initial Surface. <div data-bbox="580 655 2157 1369"><p>The screenshots illustrate the new functionality for importing DTM data. The 'File Upload' window shows a 'Data Layer Import' dialog where two TIFF files, 'Ortho1A-20250630-102001.tif' and 'DEM1A-20250630-102001.tif', are selected. The 'Data Type' is set to 'DTM Data'. The 'Terrain Settings' window shows the 'Initial Terrain' dropdown menu, where the imported DTM data is selected as the initial terrain.</p></div>

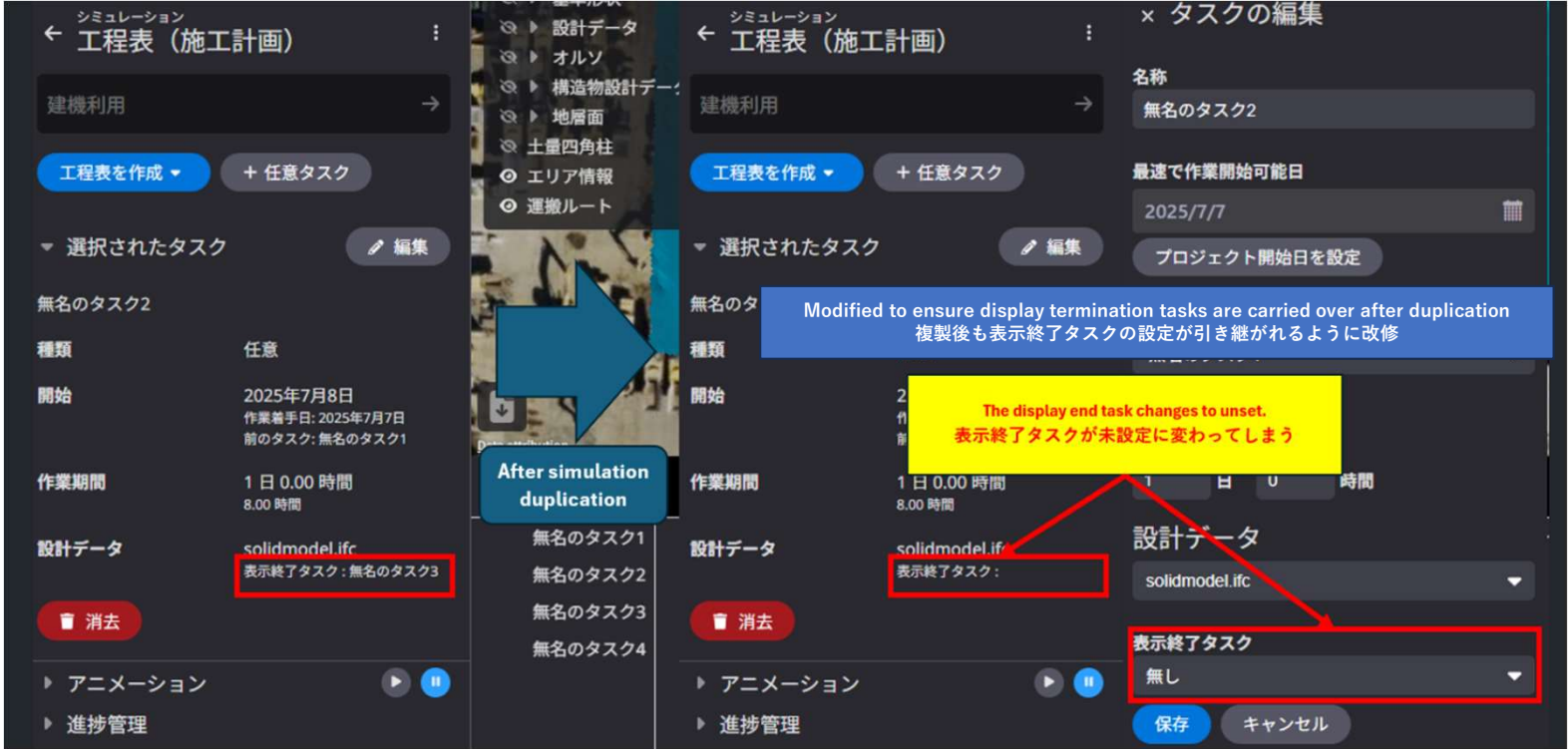


NO.	Target Functions	Overview
3	Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed an issue where the point cloud format was not applied during import from groupware <p>Details : Fixed an issue where the selected point cloud format was not correctly applied during import from groupware.Imports will now correctly reflect the chosen point cloud format.</p> 



NO.	Target Functions	Overview
4	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Added support for importing 2D design drawing data• Details : TIFF files can now be uploaded as 2D design drawings. When uploading TIFF files, you can select “Ortho/2D Design Drawing” as the asset type. Files uploaded as 2D design drawings will be displayed with the same icon as design data and automatically added to the “2D Design Drawing” list in the upper-left corner of the screen. <div><div><div>File Upload</div><div>データレイヤーの取り込み × ファイルをインポート orthophoto.tif 登録データの種類 オルソ 2次元設計図 データ名 orthophoto.tif 詳細設定 アップロード 1_mie_Design.dxf 2_mie_Linework.dxf 20200617.txt orthophoto.tif 2次元設計図</div></div><div><div>Groupware</div><div>データレイヤーの取り込み ホーム > Simulation > Input > Ortho Image 転送ファイル名 作成者 1755582515863_namiita_DT... 田中 祐輔 1756384789315_orthophoto.tif 田中 祐輔</div></div><div><div>Map display</div><div>現況地形 目標形状 基準形状 設計データ 2次元設計図 orthophoto.tif 透明度 オルソ 構造物設計データ 地層面 エリア情報 運搬ルート</div><div></div></div></div>

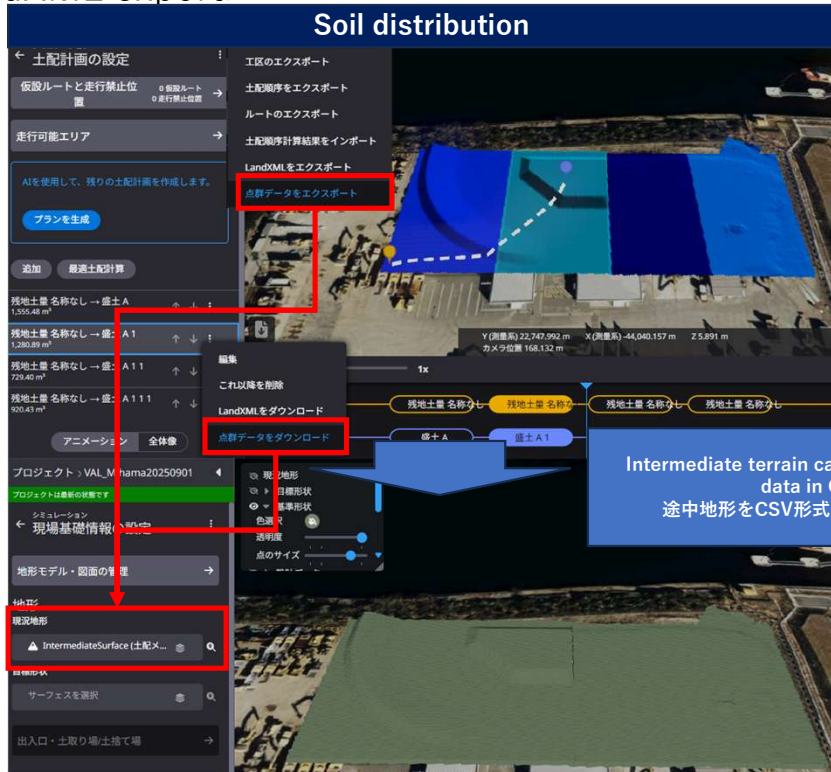


NO.	Target Functions	Overview
5	Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed an issue where the task end display setting changed during duplication• Details : Fixed an issue where the display end task setting for custom tasks was reset during simulation duplication. The display end task setting is now correctly retained in the duplicated simulation. 

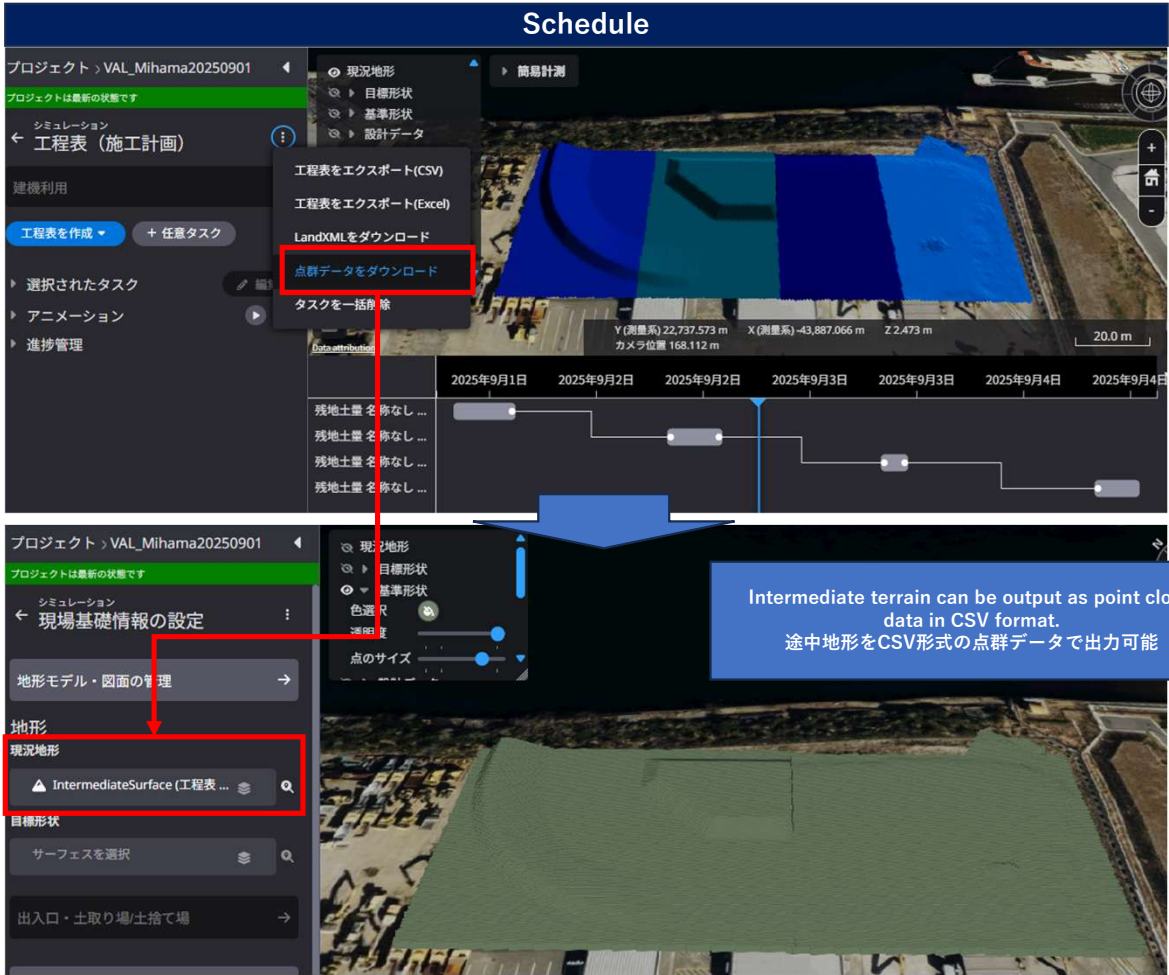


NO.	Target Functions	Overview
6	Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Resolved a bug that prevented unused design data from being deleted after removing custom tasks• Details : Fixed an issue where design data linked to a custom task could not be deleted even when it was no longer in use. Design data can now be properly removed from the file list after deleting the associated task, as dependencies are correctly cleared.




NO.	Target Functions	Overview
7	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Implemented CSV point cloud download functionality for intermediate terrain.• Details : It is now possible to download terrain data from intermediate stages of the simulation as point cloud data in CSV format. Point cloud data can be exported from each menu in both the Earthwork Planning settings screen and the Schedule screen, similar to LandXML export. 




NO.	Target Functions	Overview
7	Simulation (Function Improvement)	 <p>Intermediate terrain can be output as point cloud data in CSV format. 途中地形をCSV形式の点群データで出力可能</p>



NO.	Target Functions	Overview
8	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Implemented vertical resizing via drag in the Gantt chart view• Details : The vertical height of the Gantt chart view in the schedule menu can now be freely adjusted via drag operation. The collapse button for the Gantt chart view has been relocated to the right edge of the screen. 



NO.	Target Functions	Overview
9	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">Overview : Fixed an issue where loaded vehicle start did not function correctly on the second and subsequent lanesDetails : The issue where unloading operations did not occur from the off-site loaded vehicle during the first lap, even when the start condition was set to “loaded vehicle start” from the second route onward, has been fixed. Now, regardless of the start condition, unloading operations correctly occur during the first lap when starting with a loaded vehicle. 



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11

Machine
Simulation
(Bug Repair)

- Overview : Fixed a save failure issue when creating temporary storage in a synchronized Fleet-linked construction zone
- Details : The issue where the save process failed when creating a temporary storage area on a route linked to a Fleet with three or more routes has been fixed. As a result, saving under the above conditions now works correctly. Additionally, the following specification change has been made as part of this fix. It is now possible to save with only one of either the loading point information or the Fleet unloading point information set.



SimulationとFleet情報の紐づけ

Simulationの走路とFleetの作業地点の紐づけ登録を行う機能です。

Simulation	Fleet		
走路	積込地点*	荷降地点*	ルート
走路1	積込地点2	荷降地点1	ルート1
走路2	積込地点2	荷降地点2	ルート2
走路3	忠節河川敷	安八SIC残土置場	なし



Modified to allow saving after creating a temporary storage location
仮置場作成後に保存できるように改修
Can be saved with only one loading/unloading point set
積込/荷降地点のどちらか一方だけ設定した状態で保存可能

Simulation	Fleet		
走路	積込地点*	荷降地点*	ルート
走路1	積込地点2	荷降地点1	ルート1
走路2	なし	荷降地点2	ルート2
走路3	忠節河川敷	安八SIC残土置場	なし



12

Machine
Simulation
(Function
Improvement)

- Overview : Implemented automatic lane progress input when creating a re-planning plan
- Details : When a linkage table exists and a route is linked, the progress soil volume is now automatically entered into the rescheduling dialog based on the actual soil volume aggregation period. This allows users to create a rescheduling plan with the actual soil volume automatically populated.



再計画 (実績土量を反映したプラン作成)

各走路に実績土量を反映し、残りの運搬土量に対してプランの再計画を行うための機能です

再計画プラン名

実績土量の集計期間 ~

各走路の進捗土量
入力した進捗土量合計 : 4,879m³ / 実績土量合計 : 4,879m³

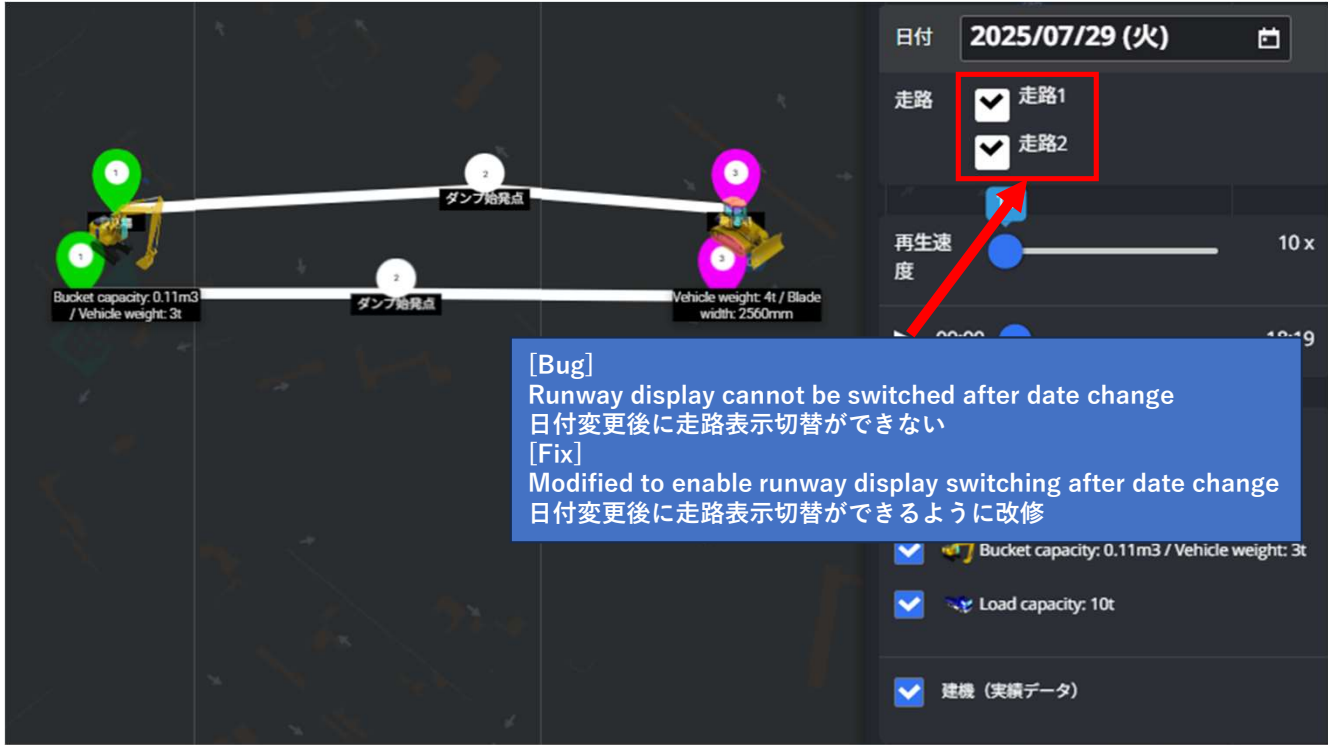
	走路名	進捗土量	残運搬土量
<input checked="" type="checkbox"/>	切土 1 → 安八SIC残土置場	<input type="text" value="4,879 / 18,200m<sup>3</sup>"/>	13,321m ³

再計画の開始日

The progress volume for the performance calculation period is automatically entered.
実績の集計期間の進捗土量が自動で入力される

NO.	Target Functions	Overview
13	Machine Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : Enhanced simplified calculation to consider parallel construction on multiple lanes Details : To more accurately estimate operations involving multiple parallel routes during simplified calculations, the system has been improved to also include the day following the completion of a route in the calculation. Previously, only the start and end dates of each route were considered, but now the day after the completion of other routes is also included in the calculation. <div> <div>Before</div> </div> <div> <div>After</div> </div>

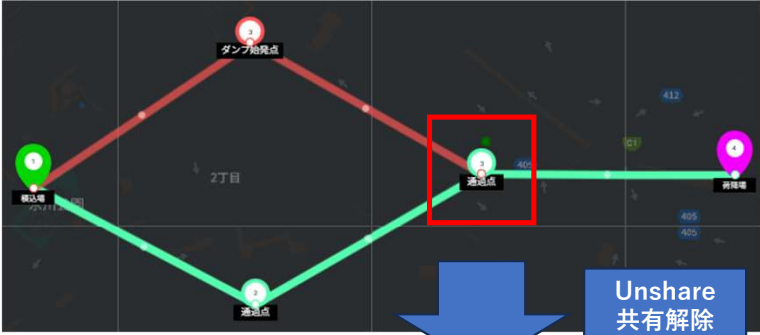



NO.	Target Functions	Overview
14	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">Overview : Fixed an issue where lane display switching failed after changing the date in the animation playback screen <p>Details : The issue where route display switching did not work after changing the date on the transport animation screen has been fixed.Route display switching now functions correctly after the date is changed.</p> 



NO.	Target Functions	Overview
15	Machine Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Improved progress graph prediction logic to support non-working days and cumulative averaging• Details : The progress graph has been improved with the following specification changes:<ul style="list-style-type: none">• Goal (Earthwork Volume): Total transported volume across all lanes defined in the selected plan• Slope of the Progress Line: Average of the actual volumes recorded over the most recent 5 days• Handling of Non-Working Days: No volume is added on non-working days• Predicted Final Day Volume: Adjusted so that the total volume reaches the goal exactly on the goal date <div data-bbox="618 762 1037 1390"><p>▼ 切土 1 → 安八SIC残土置場</p><p>✓ 同じ機械を用いる全ての走路に対して一括設定を行う</p><p>往路色 ● ● ● ● ● ● ● ● ●</p><p>開始条件 指定日 ▼</p><p>開始日 2024/05/22 (水) 📅</p><p>作業開始 時 分 08 : 00</p><p>積込終了 17 : 00</p><p>総運搬土量 18,200 m3</p></div> <div data-bbox="1137 708 2213 1390"><p>運搬済土量(全体)</p><p>20,000 10,000 0</p><p>計画 実績 成行</p><p>2024/07 2025/0</p><p>Final soil volume is the total soil volume of the runway. 最終土量は走路の合計土量</p><p>2025/10/29(水) ● 成行: 18 200[m3]</p><p>Trending at the average value of the past five days' actual results 直近5日分の実績の平均値で推移</p></div>




NO.	Target Functions	Overview
16	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed an issue where locations and routes did not update correctly after unlinking shared points between outbound and return paths• Details : Fixed an issue where locations and routes did not update correctly after unlinking shared points between outbound and return paths. Map operations now function properly even after the shared link is removed. <div data-bbox="913 667 1671 1002"><p>Unshare 共有解除</p></div> <div data-bbox="913 1026 1671 1361"><p>[Bug] The location and route stop following. 地点とルートが追従しなくなってしまう [Fix] Modified to ensure proper map operation マップ操作が正しく行えるように改修</p></div>



NO.	Target Functions	Overview
17	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Resolved a bug where empty working days were generated in standalone (slope) construction zones• Details : Fixed an issue where empty working days were generated during calculations for standalone (slope) construction zones. Working days without actual progress are no longer displayed. <div data-bbox="595 697 2152 1279"></div>



NO.	Target Functions	Overview
18	Machine Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Improved the Fleet menu behavior so that it now closes automatically during other operations• Details : Previously, the Fleet integration menu could only be closed by pressing the menu button again. This behavior has been improved so that the menu now closes automatically when other operations are performed.  <p>The screenshot shows the EARTHRAIN software interface. At the top, there's a toolbar with icons for '計算実行' (Execute Calculation), download, share, and others. Below the toolbar, a status bar displays 'ステータス 完了' (Status: Completed), '総コスト 0.4 百万円' (Total Cost: 0.4 million yen), and '終了年月日 2025 年 8 月 24 日' (End Date: August 24, 2025). The main area is a map with various markers. A blue callout box with white text says: 'Improved so that the Fleet integration menu closes when other operations are performed' and '他の操作でFleet連携メニューが閉じるように改善' (Improved so that the Fleet integration menu closes when other operations are performed). A red rectangle highlights the 'Fleet連携' (Fleet Integration) menu, which includes options like 'Fleetから走路連携' (Fleet to Route Integration), '紐づけ情報の登録' (Registration of linkage information), and 'Smart Construction Fleet'.</p>



NO.	Target Functions	Overview
19	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed incorrect display of daily operation rate volumes and units during standalone zone calculations• Details : Fixed an issue where the volume and units were incorrectly displayed in the daily operation rate screen during calculations for standalone zones (slope and other work).The values shown in the chart and the progress graph are now consistent. <div data-bbox="584 689 2159 1295"><p>Modify to ensure soil volume and units match during individual work zone calculations 工区単独計算時に土量と単位が一致するように改修</p></div>

