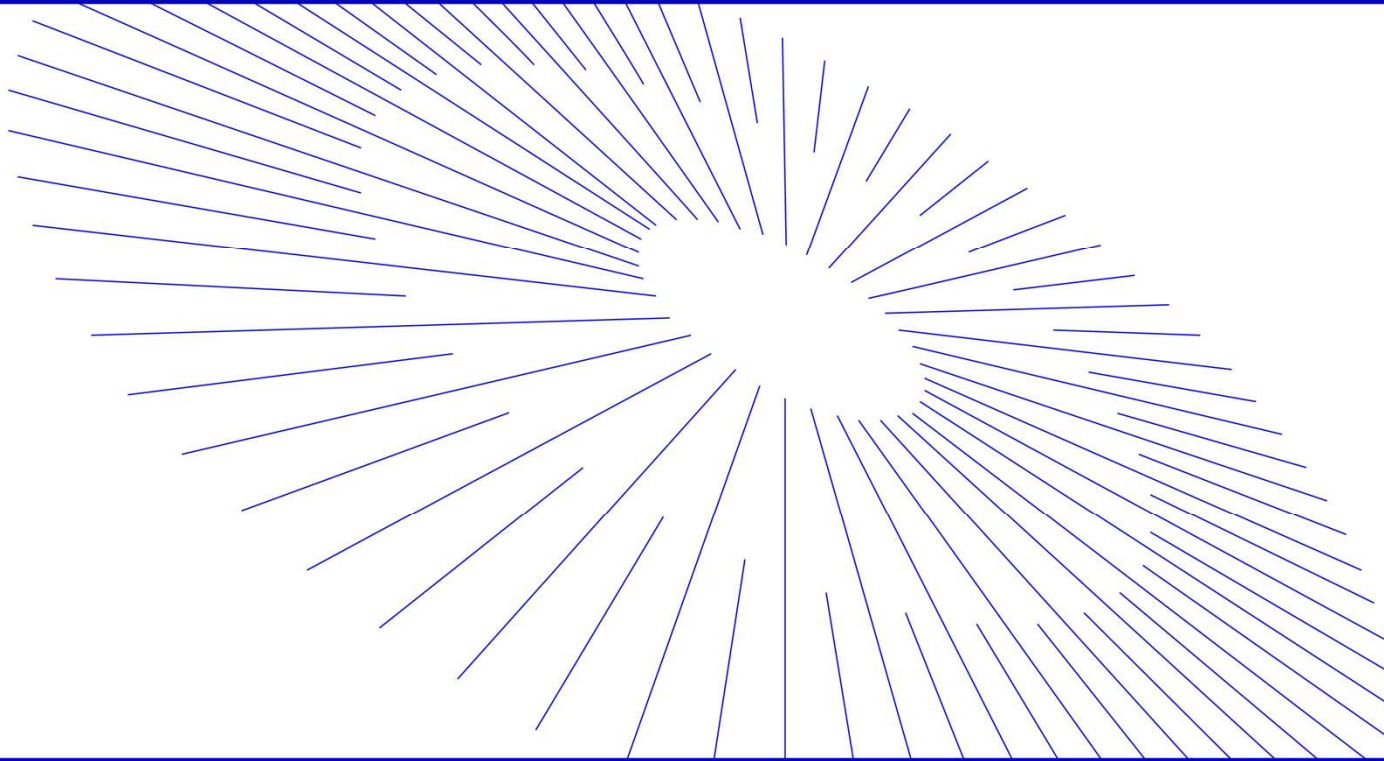


Smart Construction Simulation


2025.6.24(Schedule) About the Release Version



EARTHBRAIN

- 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.)

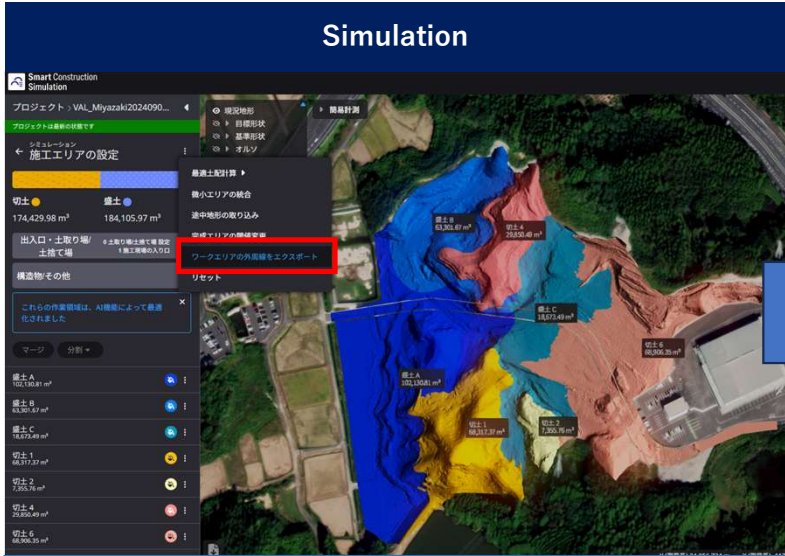
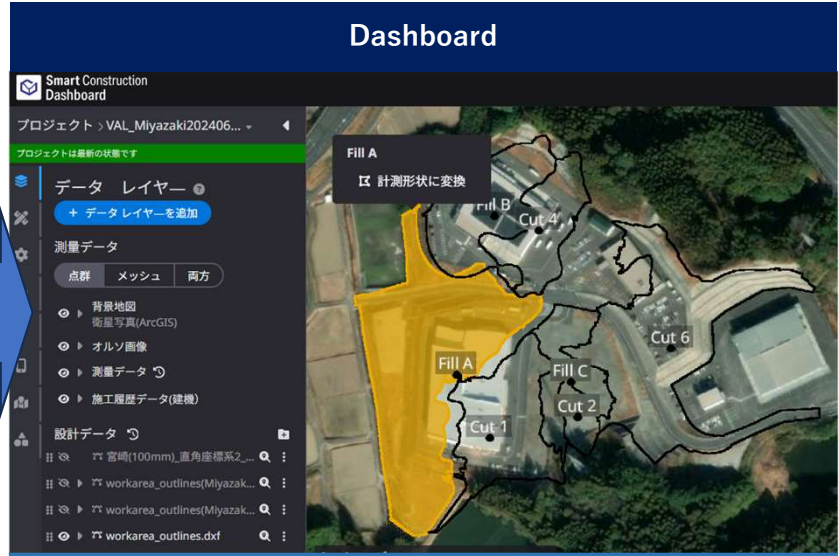
Schedule : Tuesday, Jun 24 (Japan time) 7:00 p.m. - 12:00 p.m.

NO.	Target Functions	Overview
1	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Change the role name of the shovel • Details : The role name of the excavator in Soil Simulation has been changed from “Spreading, Spreading and Compaction (Embankment)” to “Spreading, Spreading and Compaction (Embankment)” to make it consistent with that of the Construction Equipment Simulation side. 

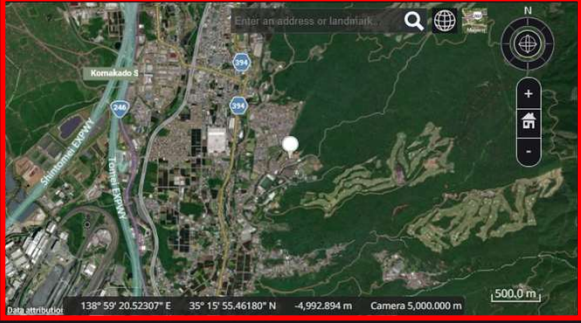



NO.	Target Functions	Overview
2	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Implemented import of TIFF files as ortho images• Details : TIFF format has been added to the Upload target files, allowing them to be imported as ortho images.Uploaded TIFF files are automatically added to the list of “Ortho” items in the map display to switch the display. <div data-bbox="555 632 1095 930"><p>データレイヤーの取り込み</p><p>Groupwareからのデータ取り込み</p><p>選択</p><p>目標地形 DXF (.dxf), LandXML (.xml), Trimble (.tmm, .sld, .dsz), Topcon (.tp3, .tn3)</p><p>オルソ TIFF (.tif, .tiff)</p><p>ファイル選択</p><p>230831_orthophoto_wgs84.tif</p></div> <div data-bbox="555 954 1095 1177"><p>データレイヤーの取り込み</p><p>ファイルをインポート 230831_orthophoto_wgs84.tif</p><p>登録データの種類 オルソ</p><p>データ名 230831_orthophoto_wgs84.tif</p><p>詳細設定</p><p>進む 取り込み</p></div> <div data-bbox="629 1193 1070 1273">TIFF format can be uploaded as ortho image TIFF形式をオルソ画像としてUpload可能</div> <div data-bbox="1106 632 2190 1281"><p>Smart Construction Simulation</p><p>プロジェクト VAL_下地20240906(Wa...</p><p>プロジェクトは最新の状態で</p><p>シミュレーション 20250328</p><p>現場基礎情報の設定</p><p>施工エリアの設定</p><p>透明度</p><p>230831_orthophoto_wgs84.tif</p><p>表示切替のリストで透明度を調整して表示可能</p><p>土配計画の設定 0% →</p><p>建機の設定 →</p><p>工程表 (施工計画) →</p><p>レポート →</p><p>雨水流予測 (試用版) →</p><p>建機シミュレーション</p></div>

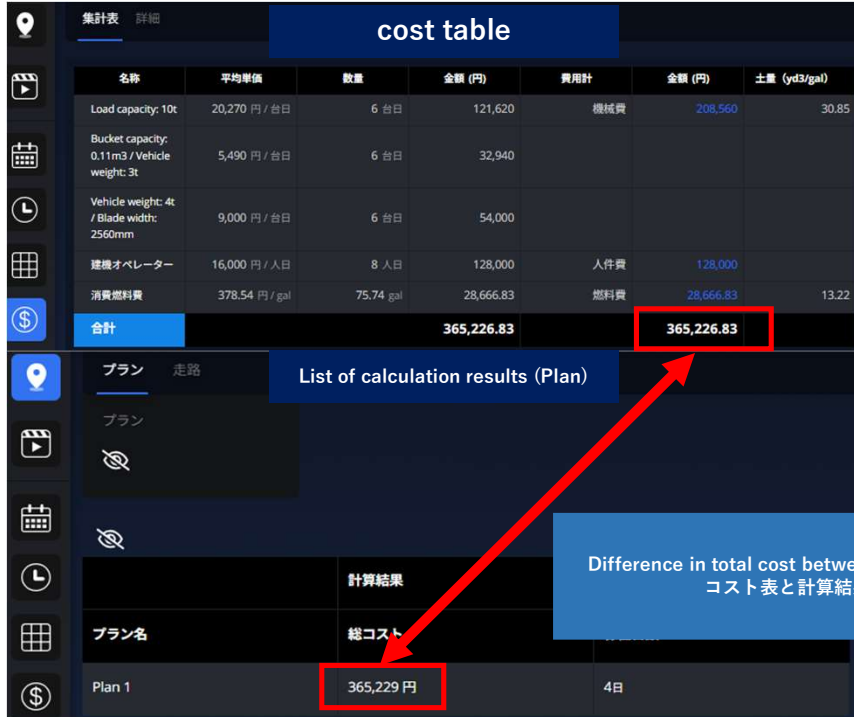


NO.	Target Functions	Overview
3	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Implementation of DXF file output function for each area perimeter line• Details : The work area perimeter lines can now be output as a DXF file from the construction area settings screen. Information on the perimeter lines of each area is output and can be imported into other applications such as Dashboard for use. <div data-bbox="568 646 1350 1297"><p>Simulation</p><p>Perimeter lines for each area can be output as DXF files 各エリアの外周線をDXFファイルで出力可能</p></div> <div data-bbox="1361 646 2197 1297"><p>Dashboard</p><p>Output files of outer perimeter lines can be displayed in other applications 外周線の出カファイルを他アプリで表示可能</p></div>

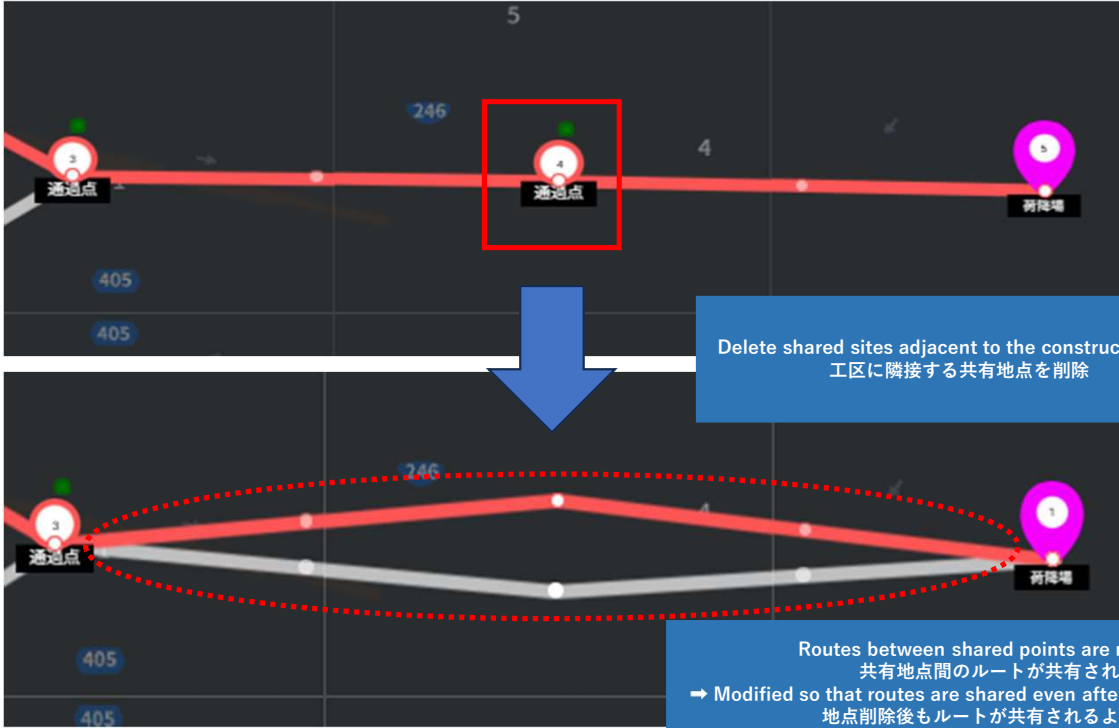


NO.	Target Functions	Overview
4	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Additional support for reflecting the initial location of Location• Details : When creating a new project or changing the coordinate system, a process to reflect the PF registration information as the initial position of the site location has been added. The following screen will reflect the PF registration information as the initial position. <div data-bbox="689 643 1440 1385"><p>New Project - Synchronize coordinate systems</p><p>新規プロジェクト</p><p><input checked="" type="radio"/> 座標系 <input type="radio"/> 単位</p><p>座標系を同期する ファイルをアップロードする 座標系を選択</p><p>現場位置</p><p>施工現場は次の位置にあります (138.92787° E, 35.23873° N).</p><ul style="list-style-type: none">• 地図をクリックして位置を選択します。• 検索ボックスに住所または経度/緯度(DMSまたはDD形式)を入力します。</div> <div data-bbox="1498 643 2083 1385"><p>Change coordinate system - Select coordinate system</p><p>座標系を変更します</p><p>座標系を同期する ファイルをアップロードする 座標系を選択</p><p>現場位置</p><p>施工現場は次の位置にあります (138.92787° E, 35.23873° N).</p><ul style="list-style-type: none">• 地図をクリックして位置を選択します。• 検索ボックスに住所または経度/緯度(DMSまたはDD形式)を入力します。</div>



NO.	Target Functions	Overview																																																							
5	Machine Simulation (Bug Repair)	<div><div><ul style="list-style-type: none">Overview : Fixed a problem that caused a slight difference between the total cost on the List of Calculation Results (Plan Comparison) screen and the total amount on the Cost Table screen at a site using the yard-pound method.Details : A problem that caused a difference in total cost between the cost table screen and the list of calculation results (plans) screen at sites using the yard-pound method has been corrected.</div><div><table><caption>cost table</caption><tr><th>名称</th><th>平均単価</th><th>数量</th><th>金額 (円)</th><th>費用計</th><th>金額 (円)</th><th>土量 (yd3/gal)</th></tr><tr><td>Load capacity: 10t</td><td>20,270 円 / 台日</td><td>6 台日</td><td>121,620</td><td>機械費</td><td>208,560</td><td>30.85</td></tr><tr><td>Bucket capacity: 0.11m3 / Vehicle weight: 3t</td><td>5,490 円 / 台日</td><td>6 台日</td><td>32,940</td><td></td><td></td><td></td></tr><tr><td>Vehicle weight: 4t / Blade width: 2560mm</td><td>9,000 円 / 台日</td><td>6 台日</td><td>54,000</td><td></td><td></td><td></td></tr><tr><td>建機オペレーター</td><td>16,000 円 / 人日</td><td>8 人日</td><td>128,000</td><td>人件費</td><td>128,000</td><td></td></tr><tr><td>消費燃料費</td><td>378.54 円 / gal</td><td>75.74 gal</td><td>28,666.83</td><td>燃料費</td><td>28,666.83</td><td>13.22</td></tr><tr><td>合計</td><td></td><td></td><td>365,226.83</td><td></td><td>365,226.83</td><td></td></tr></table><table><caption>List of calculation results (Plan)</caption><tr><th>プラン名</th><th>総コスト</th><th></th></tr><tr><td>Plan 1</td><td>365,229 円</td><td>4日</td></tr></table></div></div>	名称	平均単価	数量	金額 (円)	費用計	金額 (円)	土量 (yd3/gal)	Load capacity: 10t	20,270 円 / 台日	6 台日	121,620	機械費	208,560	30.85	Bucket capacity: 0.11m3 / Vehicle weight: 3t	5,490 円 / 台日	6 台日	32,940				Vehicle weight: 4t / Blade width: 2560mm	9,000 円 / 台日	6 台日	54,000				建機オペレーター	16,000 円 / 人日	8 人日	128,000	人件費	128,000		消費燃料費	378.54 円 / gal	75.74 gal	28,666.83	燃料費	28,666.83	13.22	合計			365,226.83		365,226.83		プラン名	総コスト		Plan 1	365,229 円	4日
名称	平均単価	数量	金額 (円)	費用計	金額 (円)	土量 (yd3/gal)																																																			
Load capacity: 10t	20,270 円 / 台日	6 台日	121,620	機械費	208,560	30.85																																																			
Bucket capacity: 0.11m3 / Vehicle weight: 3t	5,490 円 / 台日	6 台日	32,940																																																						
Vehicle weight: 4t / Blade width: 2560mm	9,000 円 / 台日	6 台日	54,000																																																						
建機オペレーター	16,000 円 / 人日	8 人日	128,000	人件費	128,000																																																				
消費燃料費	378.54 円 / gal	75.74 gal	28,666.83	燃料費	28,666.83	13.22																																																			
合計			365,226.83		365,226.83																																																				
プラン名	総コスト																																																								
Plan 1	365,229 円	4日																																																							



NO.	Target Functions	Overview
6	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed an issue where deleting a shared point adjacent to a construction zone would remove the shared route even if the next adjacent point was in a shared state.• Details : A problem has been corrected in which deleting a shared point adjacent to a construction zone would cause the route to no longer be shared, even if the next adjacent point was in a shared state.  <p>Delete shared sites adjacent to the construction area 工区に隣接する共有地点を削除</p> <p>Routes between shared points are not shared. 共有地点間のルートが共有されない → Modified so that routes are shared even after deletion of a location. 地点削除後もルートが共有されるように改修</p>



NO.	Target Functions	Overview
7	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed a problem in which loading/unloading areas were not connected by an internal runway when a route is specified in the Fleet runway linkage.• Details : A problem has been corrected in which the loading and unloading areas were not connected to the nearest point as an in-place runway when a route was specified when creating a runway from Fleet. <div data-bbox="656 660 1359 1369"><p>走路の追加</p><p>Fleetで作成されたルートが始点、終点を荷降地点として紐づけ、走路を作成します。 ルートが設定されていない場合は、積込地点と荷降地点を直線で結んだ走路を自動作成します。</p><p>積込地点 * 積込地点01</p><p>荷降地点 * 荷降地点01</p><p>ルート ルート1</p><p>次へ</p><p>Route with runway linkage from Fleet Fleetからの走路連携でルートを指定</p></div> <div data-bbox="1458 660 2098 1369"><p>Modified to connect to the nearest point of loading/unloading area by an in-ground runway. 積込場/荷降場の最寄り地点と場内走路で繋がるように改修</p></div>



NO.	Target Functions	Overview
8	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">Overview : Fixed a problem that prevented data linkage without non-working days in the soil distribution Sim linkage.Details : The problem that the non-working day was not reflected when data was sent to Construction Equipment Simulation with no non-working day in Soil Distribution Simulation has been corrected.It is now possible to link “Soil Distribution Simulation” to “Construction Equipment Simulation” with no non-working days. <div><div><h3>Simulation</h3><p>プロジェクト > VAL_Mihama20250623</p><p>プロジェクトは最新の状態です</p><p>地形モデル・図面の管理</p><p>地形 現況地形</p><p>mihama_initial_sample(NEZ,...)</p><p>目標形状</p><p>MIHAMA2nd_20161111.xml</p><p>出入口・土取り場/土捨て場</p><p>地層面データの管理</p><p>シミュレーション スケジュール</p><p>開始日 終了日</p><p>2025/6/23 2035/6/23</p><p>施工時間 月、火、水、木、金 08:00 - 17:00</p></div><div><h3>Machine Simulation</h3><p>VAL_Mihama20250623</p><p>2025/06/23 ~ 2035/06/23</p><p>Plan 1</p><p>2025/06/24 14:54:47</p><p>ステータス 総コスト 終了年月日</p><p>シヨベル ブルドーザー ダンプトラック ホイールローダー ローラー 土質 作業者 路面 費用他 非稼働日</p><p>一覧 追加/削除</p><p>2025/06/24 (火)</p><p>日付</p></div></div> <p>Send data to Construction Equipment Simulation without non-operating days 非稼働日なしで建機Simulationへデータ送信</p> <p>Modified to be able to link to Construction Equipment Simulation without non-operating days 建機Simulationへ非稼働日なしで連携できるように改修</p>

