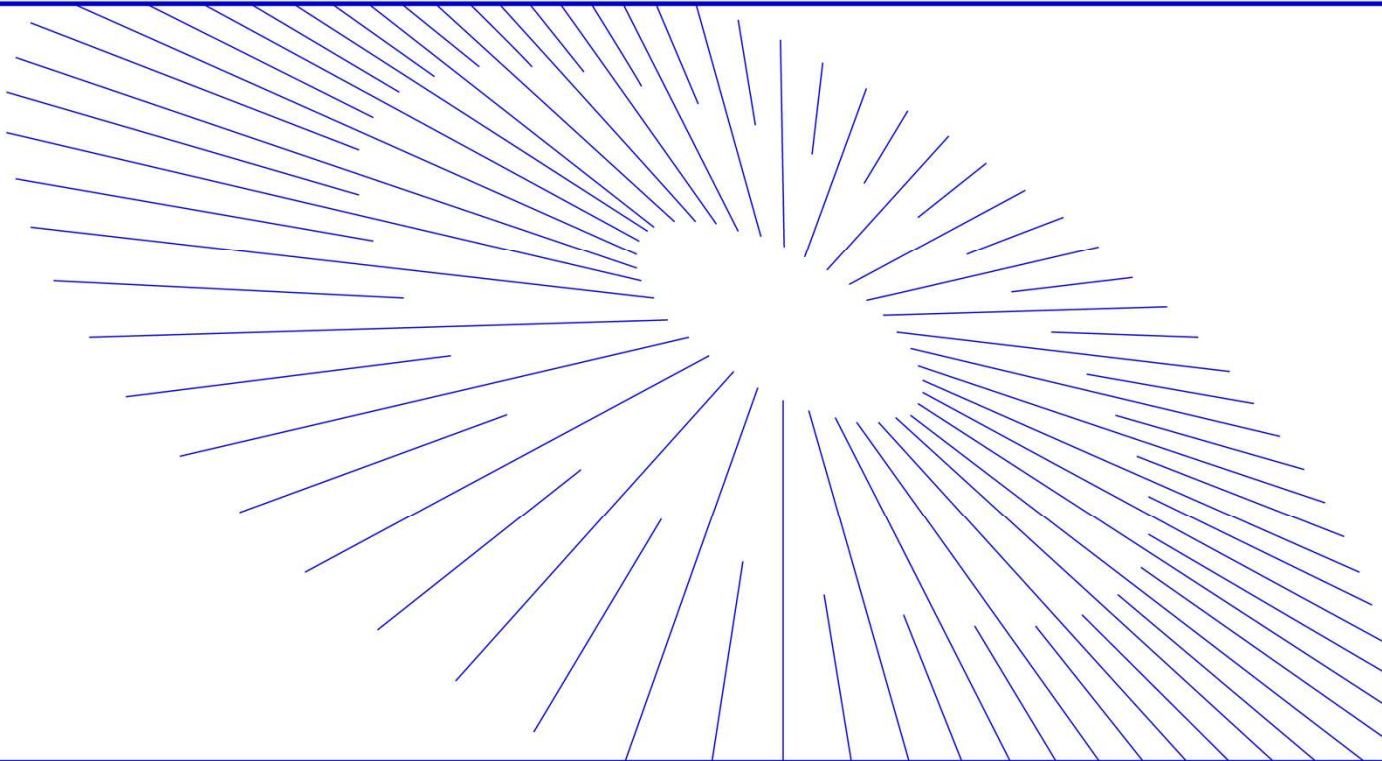
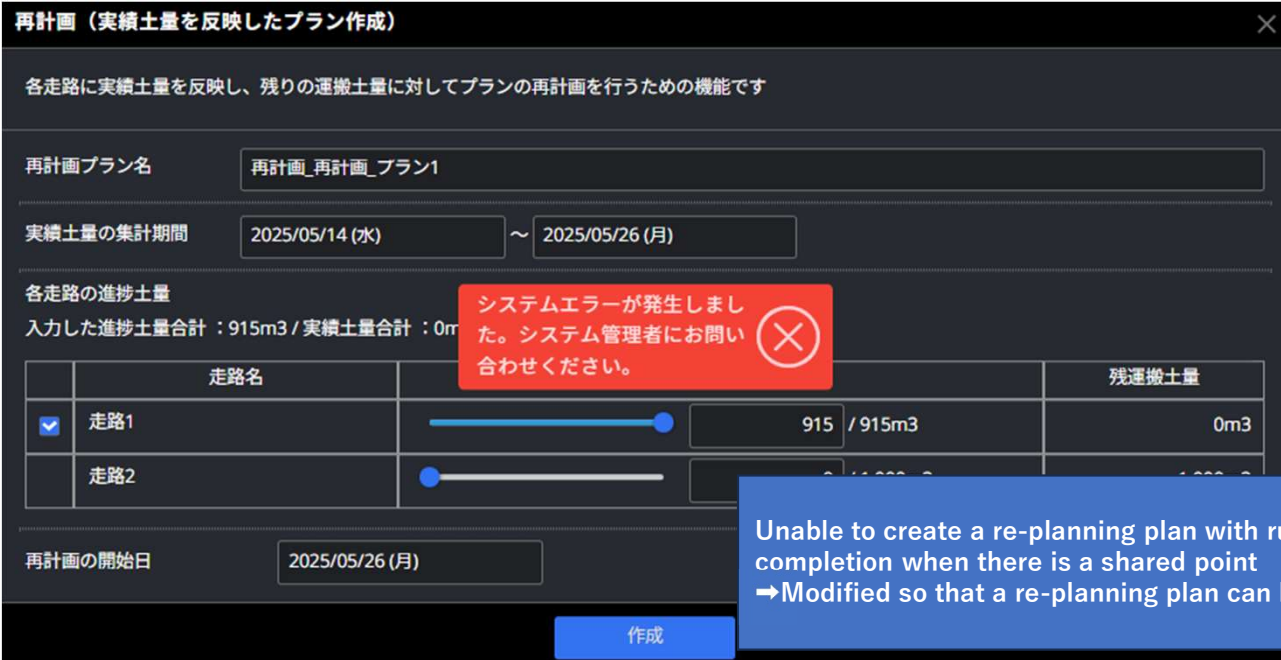


Smart Construction Simulation 2025.5.27(Schedule) About the Release Version





EARTHBRAIN

NO.	Target Functions	Overview
1	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a problem that prevented re-planning plans at the completion of a runway when there is a shared point. Details : There was a problem that a system error would occur if a runway was marked as complete when creating a re-planning plan when there were shared points. This problem has been corrected so that the re-planning plan can be created correctly even when there are shared points. (*Only the case of shared unloading points will be addressed in the next release or later.  <p>The screenshot shows a '再計画 (実績土量を反映したプラン作成)' window. It contains a table for '各走路の進捗土量' (Progress of earth volume for each runway). The table has columns for '走路名' (Runway Name), '進捗土量' (Progress Earth Volume), and '残運搬土量' (Remaining Earth Volume). Runway 1 is selected and shows 915 / 915m3 progress and 0m3 remaining. Runway 2 shows 0 / 1000m3 progress and 1000m3 remaining. A red error message box is overlaid on the table, stating: 'システムエラーが発生しました。システム管理者にお問い合わせください。' (A system error occurred. Please contact the system administrator.)</p> <p>Unable to create a re-planning plan with runway completion when there is a shared point → Modified so that a re-planning plan can be created.</p>

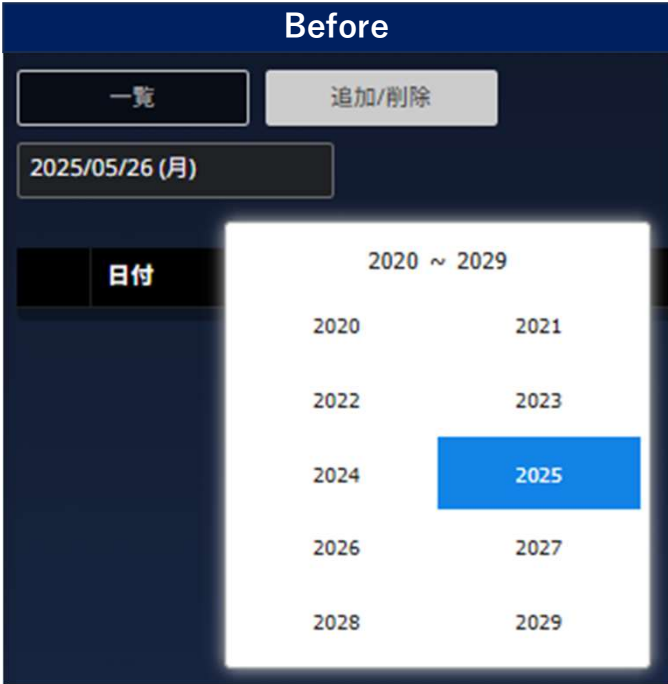
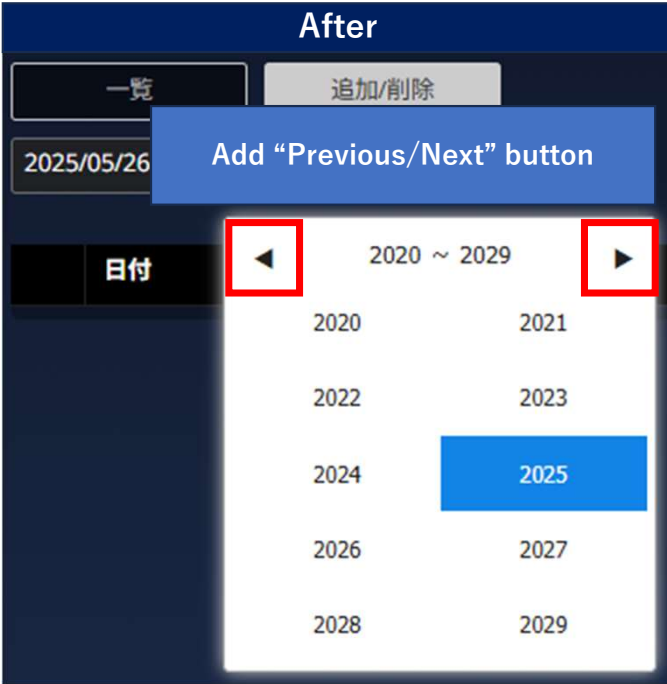
NO.	Target Functions	Overview
2	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Corrected a problem in which the amount of soil transported (total) includes the amount of soil transported by a single construction section when the section includes a single construction section. Details : In the “Total Soil Volume (Total)” graph on the “Daily Availability” screen, there was a problem in which the soil volume for a single construction section was included in the graph when a single construction section was included between the normal runways. This problem has been corrected so that the graph does not include the soil volume of a single construction section. <p>The screenshot shows a software interface for machine simulation. At the top, there is a calendar for March 2025. Below it, a graph displays soil volume over time. A blue callout box explains the bug: '<When construction area alone is included in between runway 1 -> Construction area alone -> runway 2'. A yellow callout box points to a data point on the graph, stating 'The overall soil volume would include the construction zone alone.' A blue callout box at the bottom states 'Modified so that the overall soil volume does not include the construction zone alone.' The interface also shows various settings and data for different construction sections, with some values highlighted in red boxes.</p>



NO.	Target Functions	Overview
3	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a problem in which the set value of dump unloading time did not match the actual work capacity Details : There was a problem in which the unloading time in the actual calculation results differed from the “Unloading Time (sec)” setting for dump trucks. This has been corrected so that the set unloading time work capacity and the calculated result time will match. 

NO.	Target Functions	Overview																																																								
4	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a problem in the Basic Data screen where only the name changes background color when data is added. Details : On the Basic Data screen, there was a problem where only the name changed background color when adding a master. This has been corrected so that the background color of the entire added row changes to blue.  <table border="1" data-bbox="680 635 2047 1394"> <thead> <tr> <th>名称</th> <th>日極め レンタル料金</th> <th>月極め レンタル料金</th> <th>燃費</th> <th>初期導入費</th> <th>ICT装備</th> <th>パケッ</th> </tr> </thead> <tbody> <tr> <td>× PC230</td> <td>18,300 円</td> <td>402,600 円</td> <td>21.9 L/h</td> <td>0 円</td> <td>なし</td> <td>1</td> </tr> <tr> <td>× PC300</td> <td>26,700 円</td> <td>587,400 円</td> <td>32.2 L/h</td> <td>0 円</td> <td>なし</td> <td>1.4</td> </tr> <tr> <td>× PC300i</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.4</td> </tr> <tr> <td>× PC350</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.4</td> </tr> <tr> <td>× PC400</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.9</td> </tr> <tr> <td>× PC450</td> <td>40,300 円</td> <td></td> <td>47.3 L/h</td> <td>0 円</td> <td>なし</td> <td>1.9</td> </tr> <tr style="border: 2px solid red;"> <td>× Bucket capacity: 0.11m³ / Veh</td> <td>5,490 円</td> <td>120,780 円</td> <td>3.7 L/h</td> <td>0 円</td> <td>なし</td> <td>0.11</td> </tr> </tbody> </table>	名称	日極め レンタル料金	月極め レンタル料金	燃費	初期導入費	ICT装備	パケッ	× PC230	18,300 円	402,600 円	21.9 L/h	0 円	なし	1	× PC300	26,700 円	587,400 円	32.2 L/h	0 円	なし	1.4	× PC300i						1.4	× PC350						1.4	× PC400						1.9	× PC450	40,300 円		47.3 L/h	0 円	なし	1.9	× Bucket capacity: 0.11m ³ / Veh	5,490 円	120,780 円	3.7 L/h	0 円	なし	0.11
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NO.	Target Functions	Overview
5	Machine Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Addition of simple access functionality to Fleet sites • Details : A “Fleet to Runway Linkage” menu item has been added when linking to the Fleet app. In addition to the existing “Fleet to Runway Linkage” menu, an external link to the Fleet app has been added. <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="622 692 1361 1190"> </div> <div data-bbox="1366 667 1550 766"> <p>Not created on site</p> </div> <div data-bbox="1550 560 2101 986"> </div> <div data-bbox="1366 1216 1550 1315"> <p>Fleet On-site Created</p> </div> <div data-bbox="1550 992 2101 1396"> </div> </div>

NO.	Target Functions	Overview
6	Machine Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : Improved calendar when adding non-working days (when selecting year) Details : When selecting a year in the calendar when adding non-working days, the year was displayed in decadal units, but could not be changed from the currently displayed range. The “Previous/Next” button has been added when selecting a year, and the year list has been improved so that the displayed range can be changed. <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Before</p>  </div> <div style="text-align: center;"> <p>After</p>  </div> </div>

NO.	Target Functions	Overview									
7	<p>Machine Simulation (Function Improvement)</p>	<ul style="list-style-type: none"> • Overview : Extension of runway creation function linking fleet route information with loading and unloading points • Details : In addition to Fleet route information, loading/unloading points can now be linked to routes. The loading/unloading point is a required field, and the route is an optional field. <div data-bbox="577 627 1272 1396" style="border: 1px solid black; padding: 10px;"> </div> <table border="1" data-bbox="1301 611 2190 1396"> <caption>Image when adding a runway through Fleet linkage</caption> <thead> <tr> <th>No</th> <th>Fleet</th> <th>Simulation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Only the work point is registered. </td> <td>Routes are created using straight lines connecting work points. </td> </tr> <tr> <td>2</td> <td>Work point and route are registered. </td> <td>Create a straight line connecting the start and end points of the Fleet's route with the respective work points. </td> </tr> </tbody> </table>	No	Fleet	Simulation	1	Only the work point is registered. 	Routes are created using straight lines connecting work points. 	2	Work point and route are registered. 	Create a straight line connecting the start and end points of the Fleet's route with the respective work points.
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NO.	Target Functions	Overview
8	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a problem in which the display position of machines changes depending on the display magnification in the transport animation screen. Details : There was a problem with the display position of machines changing when the date was changed after the display magnification was changed on the transport animation screen. Since the position of the machines would be adjusted based on different display magnifications, which could cause a large shift, this problem has been corrected so that the machines are always displayed in the same position. <div style="text-align: center;"> <p>Before</p> <p>Machine position is adjusted according to the display magnification → Machine position changes.</p> <p>After</p> <p>Always display machine at the same position → Machine position does not change</p> </div>



NO.	Target Functions	Overview														
9	Machine Simulation (Bug Repair)	<ul style="list-style-type: none">• Overview : Fixed a problem in the “Check the work capacity of the selected machine” dialog that it was not grayed out when inactive.• Details : There was a problem with the “Check Work Capacity of Selected Machine” dialog in Calculated Plans where the Edit Foundation Data button was inactive but not grayed out. This has been corrected so that the button is now grayed out when inactive.  <table border="1" data-bbox="1599 890 1868 1110"><tr><td>工区作業効率</td><td>1.00</td></tr><tr><td>対象土密度(t/m3)</td><td>1.80</td></tr><tr><td>バケット係数</td><td>0.85</td></tr><tr><td>掘削難易度係数</td><td>1.00</td></tr><tr><td>土量換算率L</td><td>1.15</td></tr><tr><td>土量換算率C</td><td>0.90</td></tr></table> <table border="1" data-bbox="1599 1222 1868 1267"><tr><td>日当たり作業時間 (h/日)</td><td>8.00</td></tr></table>	工区作業効率	1.00	対象土密度(t/m3)	1.80	バケット係数	0.85	掘削難易度係数	1.00	土量換算率L	1.15	土量換算率C	0.90	日当たり作業時間 (h/日)	8.00
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