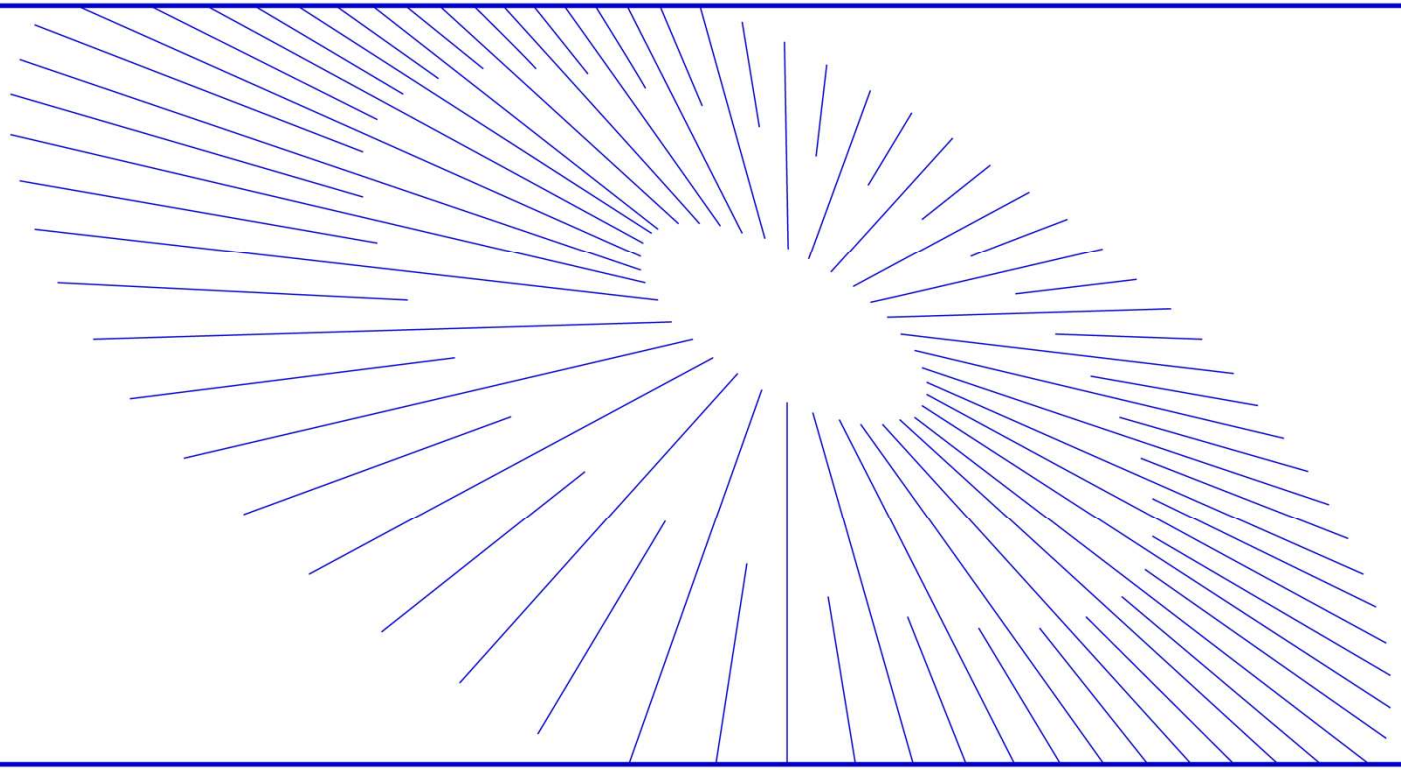
Smart Construction Simulation
2026.3.3(Schedule) About the Release Version



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, March 3 (Japan time)　7:00 p.m. - 12:00 p.m.

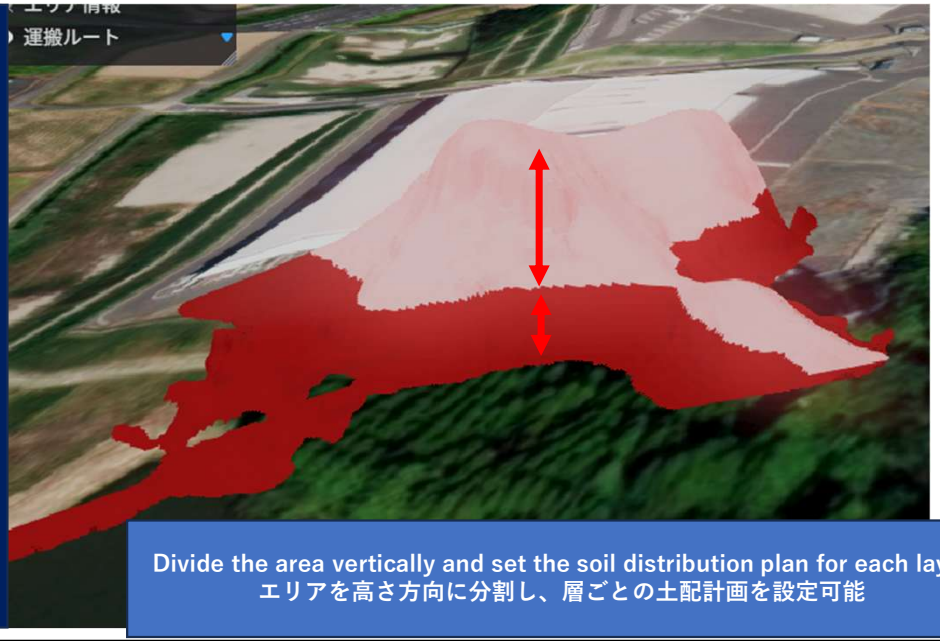
NO.	Target Functions	Overview	Details
1	Simulation (Function Improvement)	Implement area height segmentation functionality	You can now divide areas based on elevation. There are two main methods for division: ・Dividing vertically by specifying “height interval,” “number of layers,” or “elevation value” ・Dividing using the slope height of the relevant area This allows you to set earthwork plans for each divided layer. For details on each function, please refer to the following pages.
2	Simulation (Function Improvement)	Implemented plan comparison feature (table view format)	In the simulation comparison menu, you can now compare the calculation results of multiple selected plans in a table format, in addition to the conventional earthwork volume graph. Furthermore, the following items now display markers indicating the best/worst values for each plan: ・Total Cost ・Operating Days ・Fuel Consumption ・Average Construction Volume ・Work Volume Additionally, some changes have been made to the display items in the left panel.

Release Item List

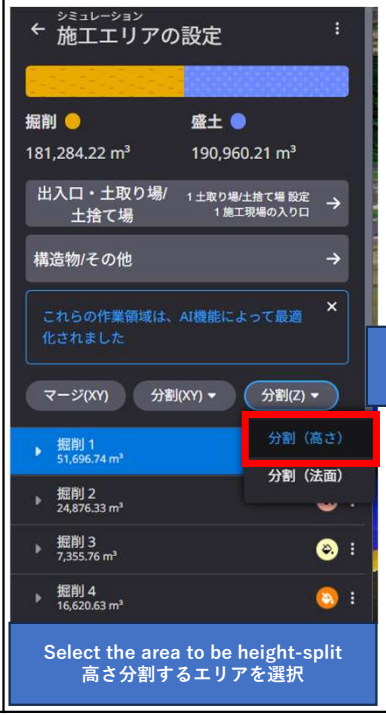
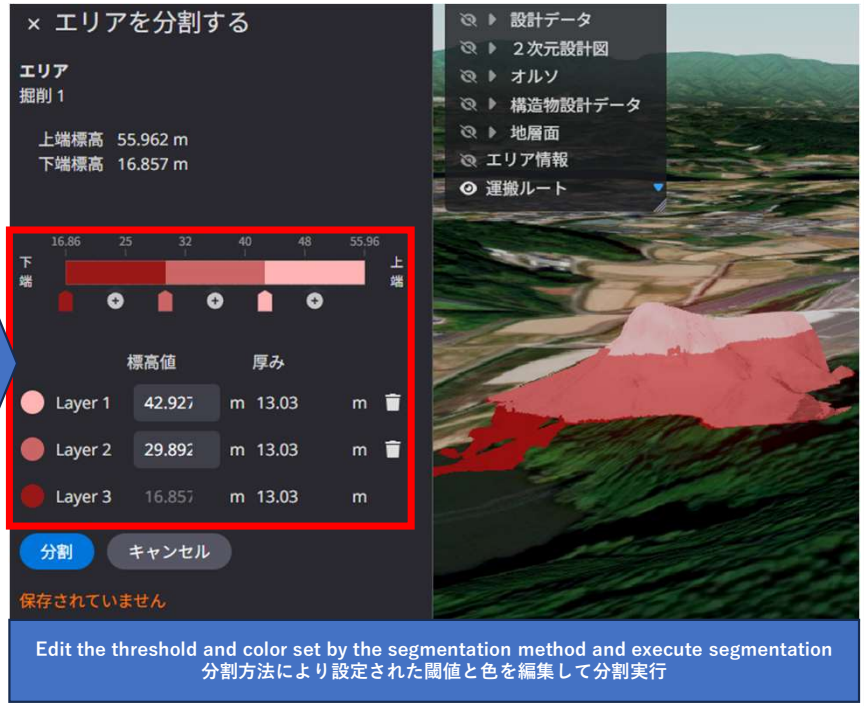
NO.	Target Functions	Overview	Details
3	Simulation (Function Improvement)	Support for Bulk Import of Custom Tasks	The schedule screen now supports batch importing custom tasks from Excel data. Download the template file from the custom task import dialog, fill it with the tasks you wish to create, and import the file to create them in bulk. Note that existing schedules remain unchanged after import. Also, modifying the template format may prevent successful import.
4	Simulation (Function Improvement)	Support for switching the Terms of Use page URL	We have changed the destination page for the Terms of Service. Depending on the user's language setting, they will be redirected to the following pages: ・Japanese: Japanese version of the Terms of Service ・Other languages: English version of the Terms of Service
5	Simulation (Bug Repair)	Fixed an issue where sending the Current Schedule failed after duplicating an optional task setting plan.	We have fixed an issue where sending data from the Current Schedule while optional tasks from the original plan remained after duplicating a plan containing optional tasks would cause a data transmission error. With this fix, data transmission will now succeed even when using optional tasks from the original plan.
6	Simulation (Bug Repair)	Fixed an issue where less than 1 cubic meter was not recognized as a soil shortage when setting a soil disposal site/soil collection site.	Fixed a bug where, when setting a soil disposal site/soil extraction site, if the shortage relative to the remaining soil volume was less than 1 m^3, it was not judged as a shortage and instead displayed as “Balance”. Going forward, even if the difference is less than 1 m^3 compared to the remaining soil volume, the system will automatically adjust the difference to match the remaining soil volume. Example: Remaining soil volume 1000 m^3, created soil volume 999.1 m^3 → Automatically adjusted to 1000 m^3 after saving

Release Item List

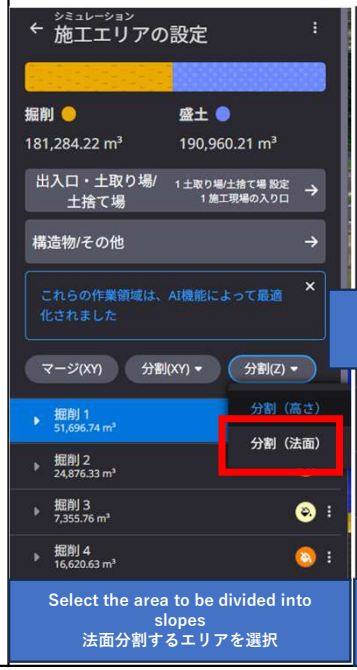
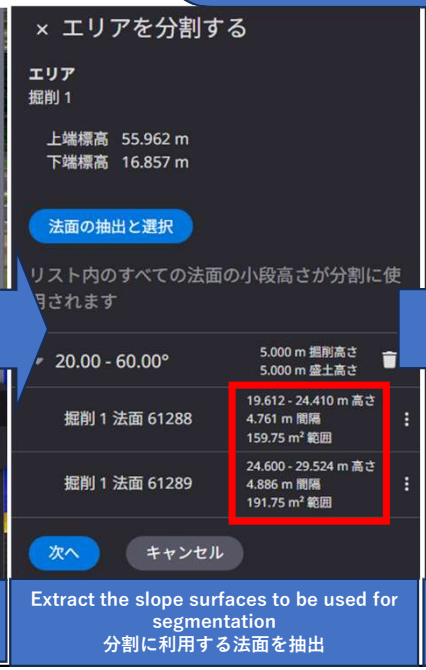
NO.	Target Functions	Overview	Details
7	Simulation (Bug Repair)	Fixed an issue where soil volume measurements could be saved without being entered at soil collection/disposal sites.	Fixed an issue where soil volume measurements could be saved without input at soil collection/disposal sites. With this fix, the check for missing input now functions correctly, and the save button becomes inactive.
8	Simulation (Bug Repair)	Fixed an issue where values were not updated after recalculating the schedule following editing the [Daily Construction Volume] of a task.	Fixed an issue where values edited for [Daily Construction Volume] on the schedule screen were not updated during schedule recalculation. This fix ensures values are correctly updated during schedule recalculation.
9	Machine Simulation (Bug Repair)	Fixed an issue where the value entered during editing remained displayed even after canceling the edit while editing the dump loading time.	Fixed an issue where, when re-running calculations in a pre-calculated plan, editing the base data for dump loading time and then canceling would leave the edited values displayed. With this fix, if you edit the base data and then cancel, the edits will not be applied, and the original values will be displayed correctly.

NO.	Target Functions	Overview
1	Simulation (Function Improvement)	• Overview：Implement area height segmentation functionality • Details：You can now divide areas based on elevation. There are two main methods for division: ・Dividing vertically by specifying “height interval,” “number of layers,” or “elevation value” ・Dividing using the slope height of the relevant area This allows you to set earthwork plans for each divided layer. For details on each function, please refer to the following pages. **【Area Division】** **① Area Height Division** **② Area Slope Division** **③ Area Height Division (Batch)** **【Layer Management】** **④ Layer Display/Edit/Delete** **【Soil Distribution Settings】** **⑤ Soil Distribution Settings Using Layers** **⑥ Optimal Soil Distribution Calculation Using Layers**  Divide the area vertically and set the soil distribution plan for each layer エリアを高さ方向に分割し、層ごとの土配計画を設定可能

リリース項目一覧

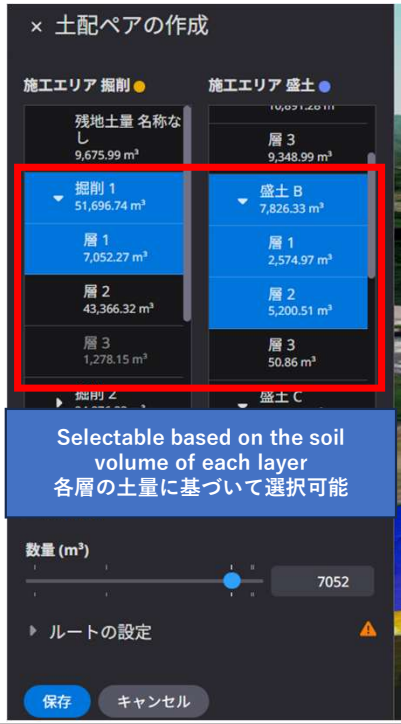
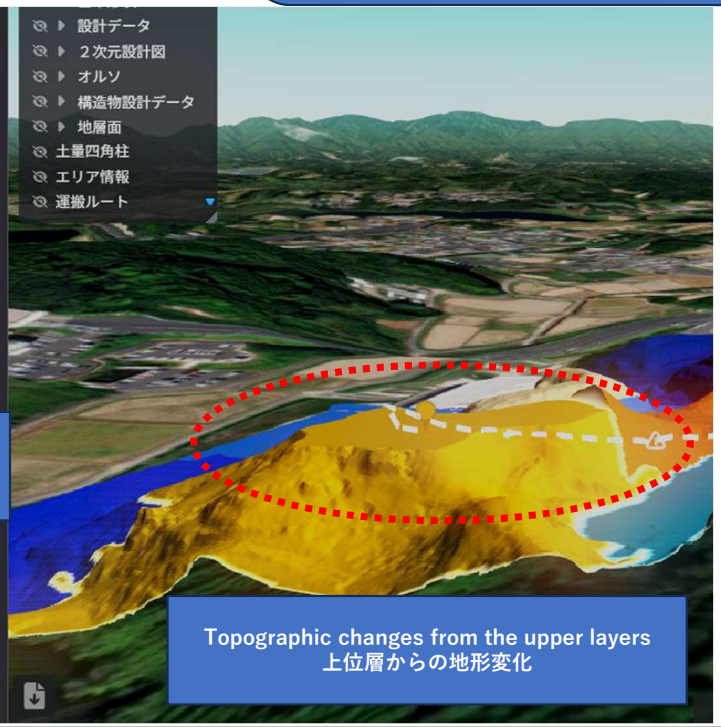
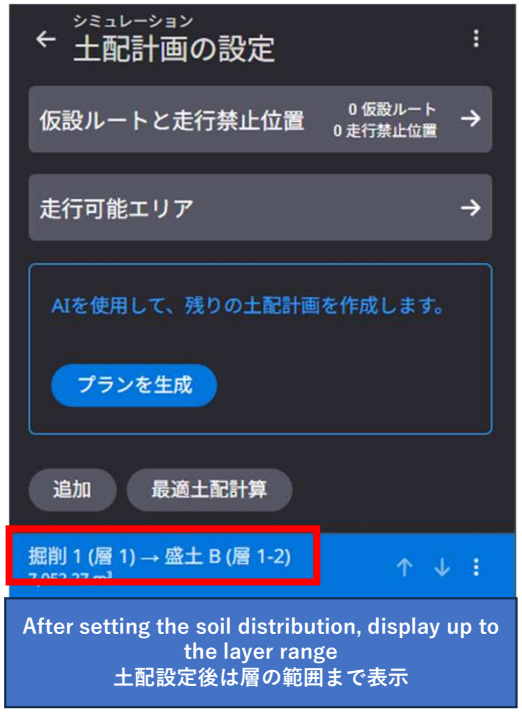
NO.	対象機能	概要
1	Simulation (機能改善)	【Area Division】 ① Area Height Division You can divide the selected area by height using the following methods: ① Height Interval: Divide the elevation range from top to bottom using specified height intervals ② Number of Layers: Divide the elevation range equally based on the specified number of layers ③ Elevation Values: Divide based on entered elevation values (multiple entries allowed)  Select the area to be height-split 高さ分割するエリアを選択  Select the payment method 分割方法を選択  Edit the threshold and color set by the segmentation method and execute segmentation 分割方法により設定された閾値と色を編集して分割実行

リリース項目一覧

NO.	対象機能	概要
1	Simulation (機能改善)	**【Area Division】 ② Area Slope Division** You can divide the selected area using the extracted slope height.Division is performed based on the slope height within the range from the upper elevation to the lower elevation. ・Upper elevation: 55.962m ⇕ Layer1 ・Slope 1: 24.600m ⇕ Layer2 ・Slope 2: 19.612m ⇕ Layer3 ・Lower elevation: 16.857m  Select the area to be divided into slopes 法面分割するエリアを選択  Extract the slope surfaces to be used for segmentation 分割に利用する法面を抽出  Edit the threshold and color set based on the extracted slope height and perform segmentation 抽出した法面の高さにより設定された閾値と色を編集して分割実行

NO.	対象機能	概要
1	Simulation (機能改善)	【Area Division】 ③ Area Height Division (Batch) You can perform bulk height segmentation using the specified height segmentation option for each excavation area or embankment area. For areas where layer data is already set, the new segmentation results will overwrite the existing data when the bulk segmentation is executed.Additionally, for areas where the specified height interval is insufficient or other conditions are not met, preventing segmentation from being applied, bulk processing will not apply height segmentation to these areas.  Execute height division (entire) 高さ分割（全体）を実行  Specify the area and select the division method エリアを指定し、分割方法を選択  Apply the split to the entire specified area at once 指定したエリア全体に一括で分割が適用

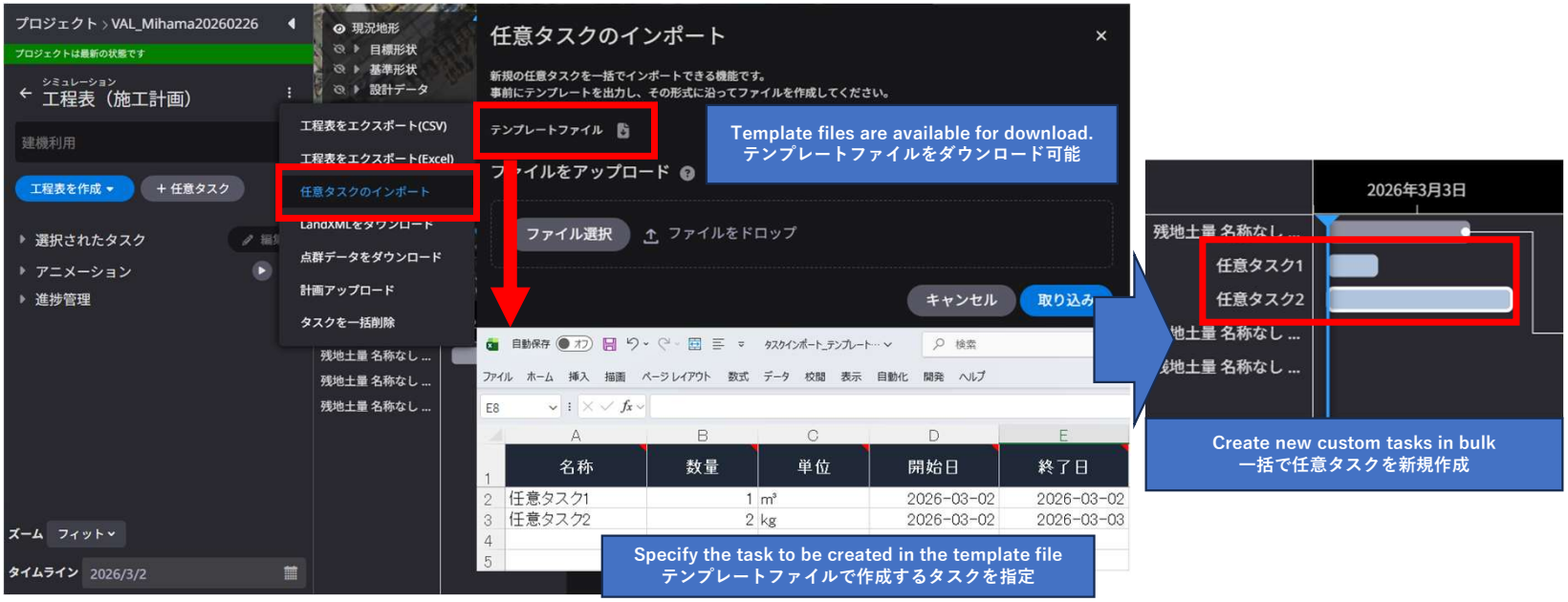
NO.	対象機能	概要
1	Simulation (機能改善)	【Layer Management】 ④ Layer Display/Edit/Delete In areas where layer data is registered, you can expand the “▼” to view layer information. While layer data is displayed, the layers will also appear on the map. Note that the current terrain cannot be displayed simultaneously while layer data is shown; therefore, displaying layers will automatically turn the current terrain OFF. Additionally, you can edit or delete layers using the vertical ellipsis. 

NO.	対象機能	概要
1	Simulation (機能改善)	【Soil Distribution Settings】 ⑤ Soil Distribution Settings Using Layers In the soil distribution settings, you can expand the layer data for an area and create pairs based on the soil volume of each layer. You can make selections across multiple layers; selecting a lower layer will automatically select the corresponding upper layers as well.Additionally, during soil distribution settings, layer data cannot be displayed independently. The current terrain is displayed, and you can sequentially check the terrain changes from the upper layers downward.  Selectable based on the soil volume of each layer 各層の土量に基づいて選択可能  Topographic changes from the upper layers 上位層からの地形変化  After setting the soil distribution, display up to the layer range 土配設定後は層の範囲まで表示

NO.	対象機能	概要
1	Simulation (機能改善)	【Soil Distribution Settings】 ⑥ Optimal Soil Distribution Calculation Using Layers When performing optimal soil distribution calculations, optimization is applied only to the topmost layer within each area's layer data. For areas lacking layer data, optimization will be performed on the entire area as before.Furthermore, since only the topmost layer is optimized, the operational concept involves iteratively repeating the optimization process in stages according to the layer depth. 

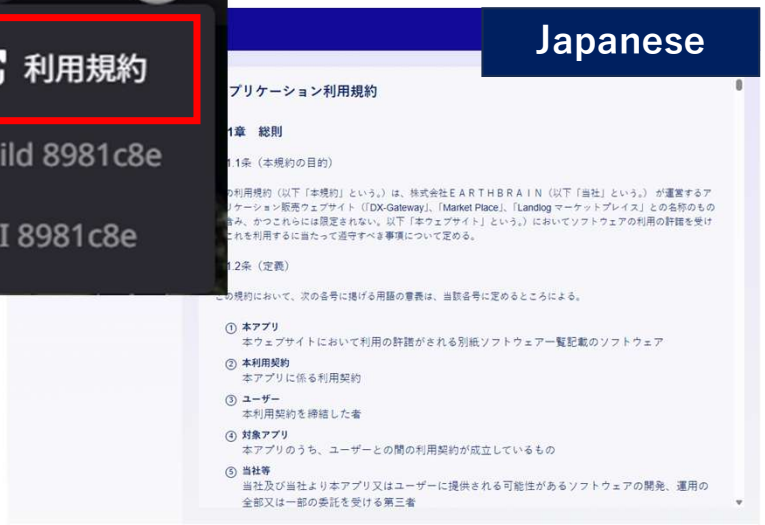
Release Item List

NO.	Target Functions	Overview
2	Simulation (Function Improvement)	• Overview：Implemented plan comparison feature (table view format) • Details：In the simulation comparison menu, you can now compare the calculation results of multiple selected plans in a table format, in addition to the conventional earthwork volume graph. Furthermore, the following items now display markers indicating the best/worst values for each plan: ・Total Cost ・Operating Days ・Fuel Consumption ・Average Construction Volume ・Work Volume Additionally, some changes have been made to the display items in the left panel. 

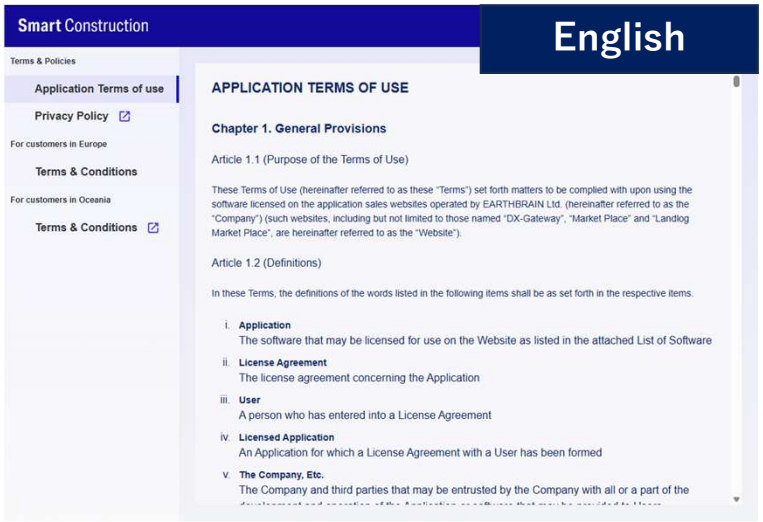
NO.	Target Functions	Overview
3	Simulation (Function Improvement)	• Overview：Support for Bulk Import of Custom Tasks • Details：The schedule screen now supports batch importing custom tasks from Excel data. Download the template file from the custom task import dialog, fill it with the tasks you wish to create, and import the file to create them in bulk. Note that existing schedules remain unchanged after import. Also, modifying the template format may prevent successful import. 

NO.	Target Functions	Overview
4	Simulation (Function Improvement)	• Overview：Support for switching the Terms of Use page URL • Details：We have changed the destination page for the Terms of Service. Depending on the user's language setting, they will be redirected to the following pages: ・Japanese: Japanese version of the Terms of Service ・Other languages: English version of the Terms of Service

Japanese

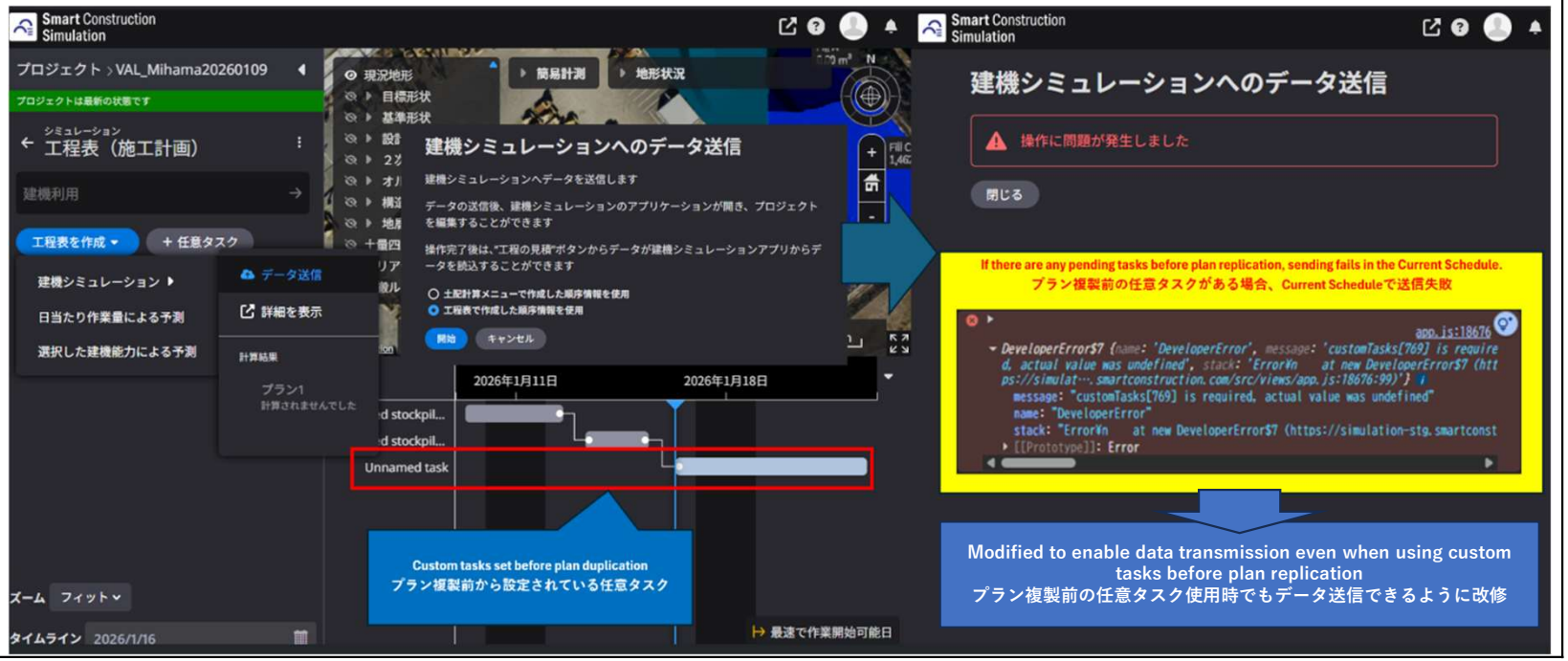


English



Release Item List

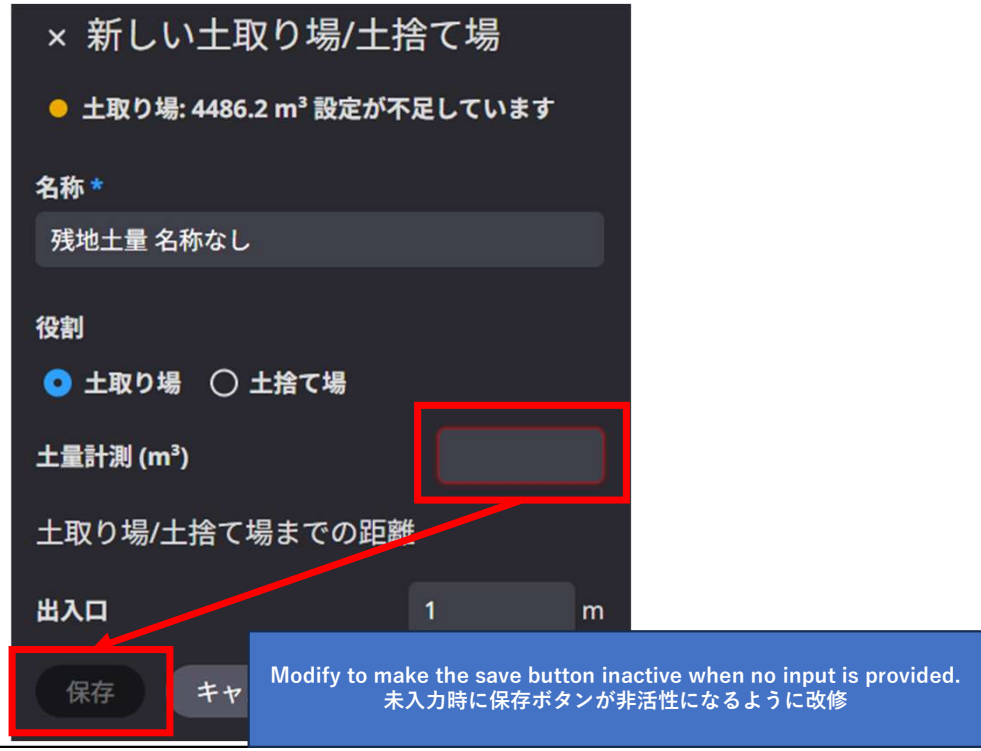
NO.	Target Functions	Overview
5	Simulation (Bug Repair)	• Overview：Fixed an issue where sending the Current Schedule failed after duplicating an optional task setting plan. • Details：We have fixed an issue where sending data from the Current Schedule while optional tasks from the original plan remained after duplicating a plan containing optional tasks would cause a data transmission error. With this fix, data transmission will now succeed even when using optional tasks from the original plan.



Release Item List

NO.	Target Functions	Overview
6	Simulation (Bug Repair)	• Overview：Fixed an issue where less than 1 cubic meter was not recognized as a soil shortage when setting a soil disposal site/soil collection site. • Details：Fixed a bug where, when setting a soil disposal site/soil extraction site, if the shortage relative to the remaining soil volume was less than 1 m^3, it was not judged as a shortage and instead displayed as “Balance”. Going forward, even if the difference is less than 1 m^3 compared to the remaining soil volume, the system will automatically adjust the difference to match the remaining soil volume. Example: Remaining soil volume 1000 m^3, created soil volume 999.1 m^3 → Automatically adjusted to 1000 m^3 after saving 

Release Item List

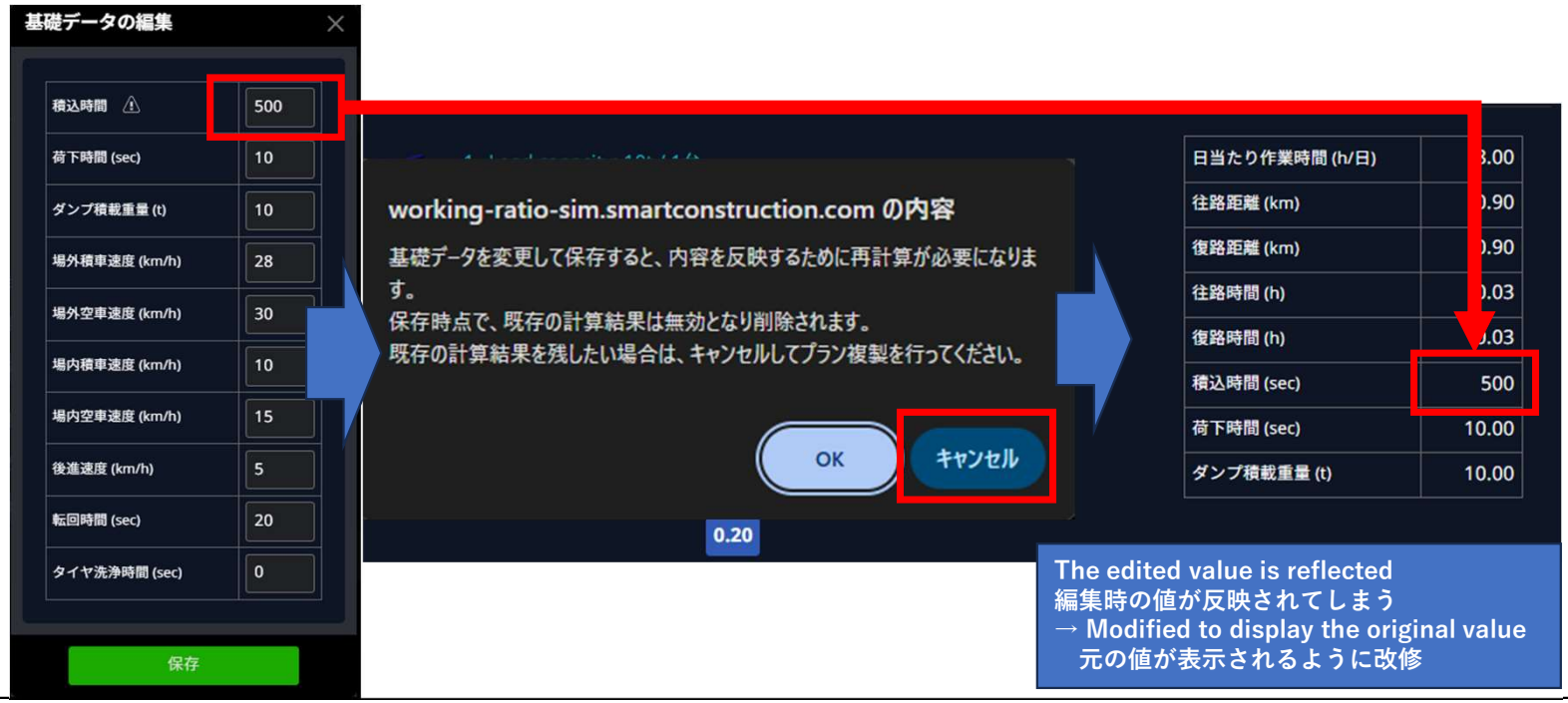
NO.	Target Functions	Overview
7	Simulation (Bug Repair)	• Overview：Fixed an issue where soil volume measurements could be saved without being entered at soil collection/disposal sites. • Details：Fixed an issue where soil volume measurements could be saved without input at soil collection/disposal sites. With this fix, the check for missing input now functions correctly, and the save button becomes inactive. 

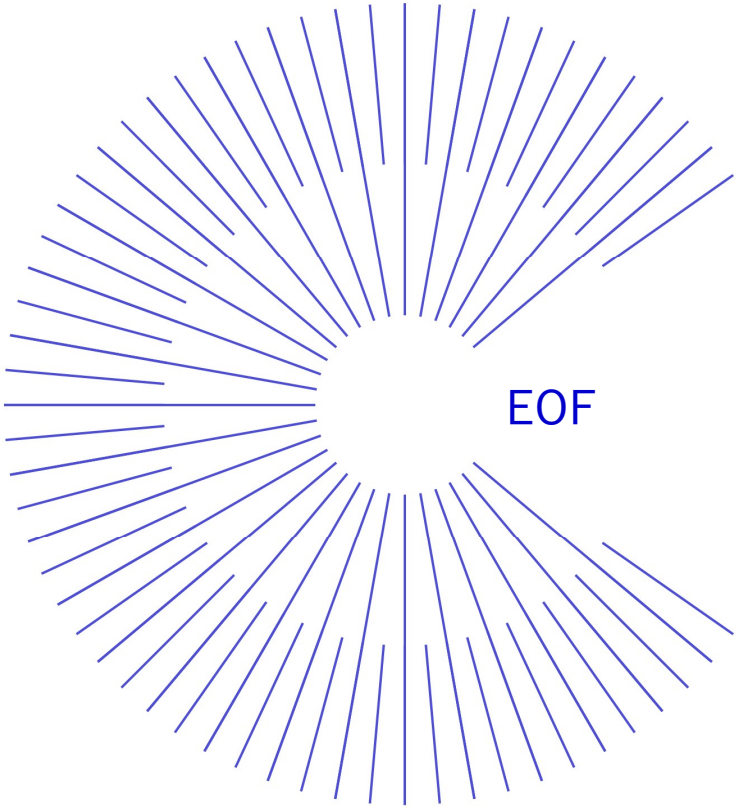
Release Item List

NO.	Target Functions	Overview
8	Simulation (Bug Repair)	• Overview：Fixed an issue where values were not updated after recalculating the schedule following editing the [Daily Construction Volume] of a task. • Details：Fixed an issue where values edited for [Daily Construction Volume] on the schedule screen were not updated during schedule recalculation. This fix ensures values are correctly updated during schedule recalculation.

Release Item List

NO.	Target Functions	Overview
9	Machine Simulation (Bug Repair)	• Overview：Fixed an issue where the value entered during editing remained displayed even after canceling the edit while editing the dump loading time. • Details：Fixed an issue where, when re-running calculations in a pre-calculated plan, editing the base data for dump loading time and then canceling would leave the edited values displayed. With this fix, if you edit the base data and then cancel, the edits will not be applied, and the original values will be displayed correctly.




EOF