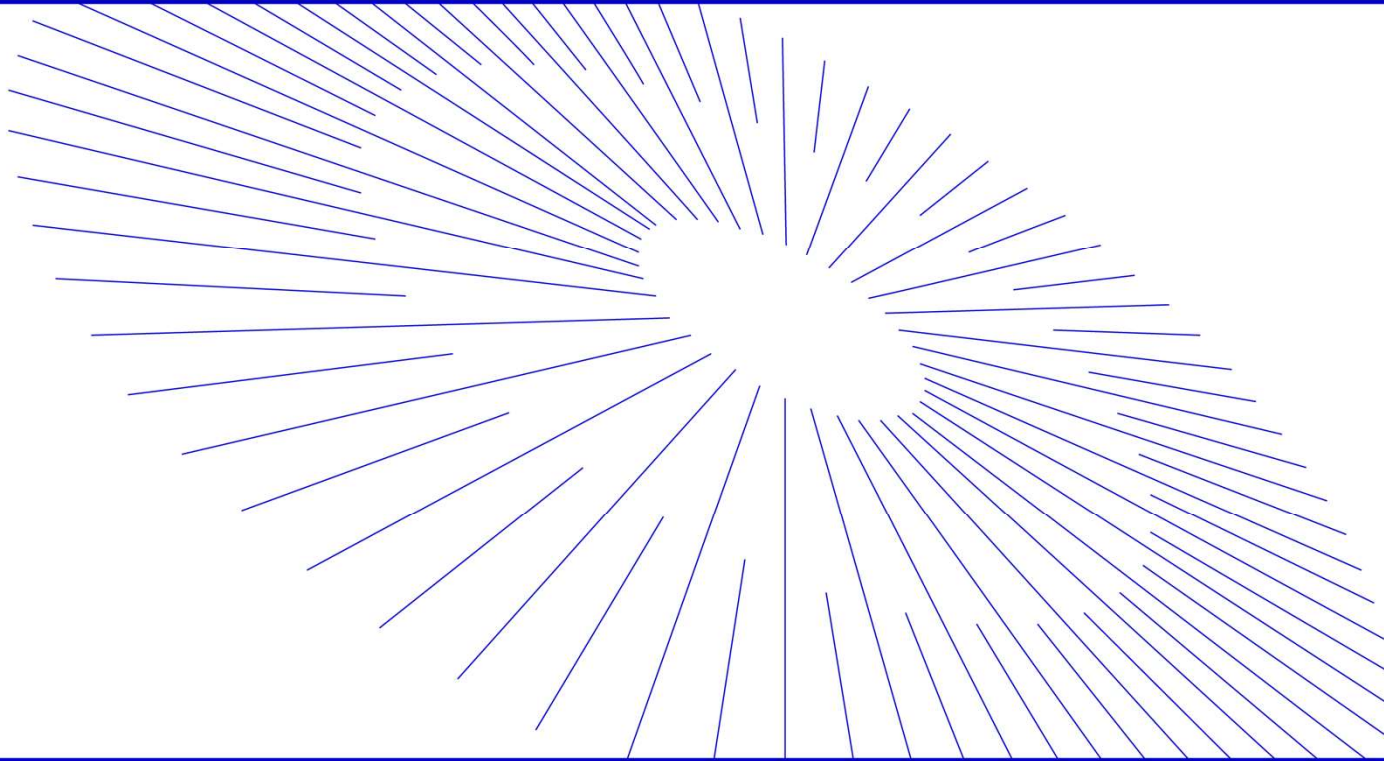


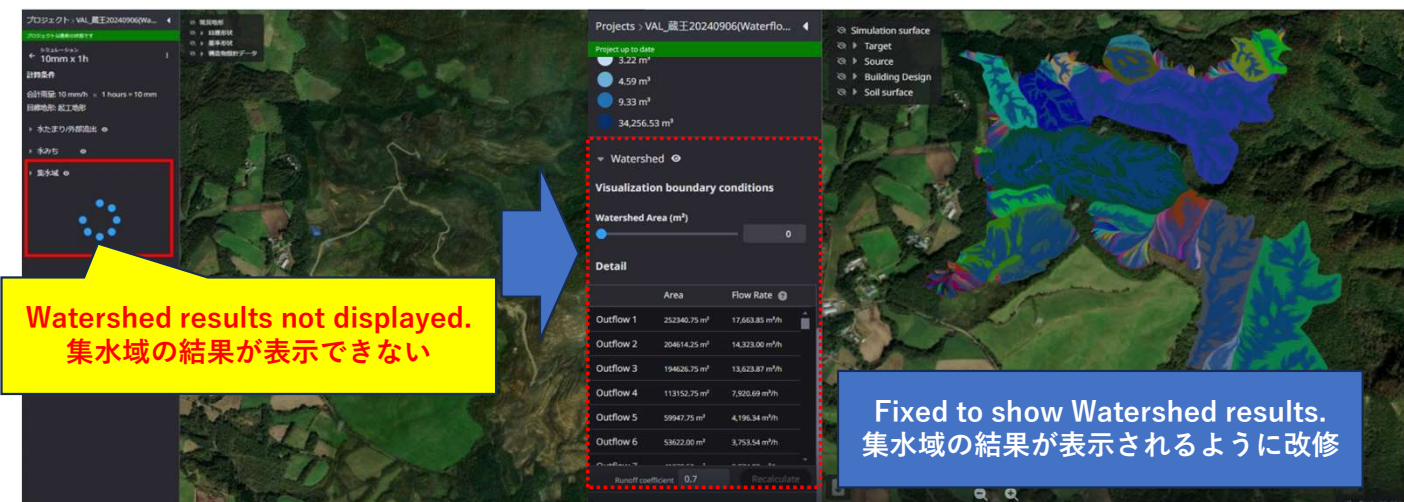
Smart Construction Simulation

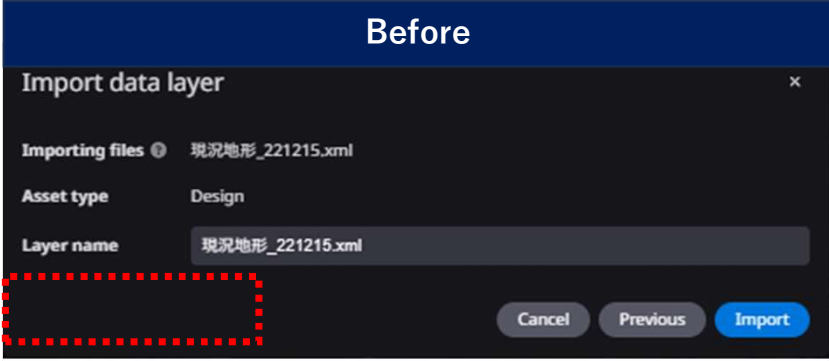
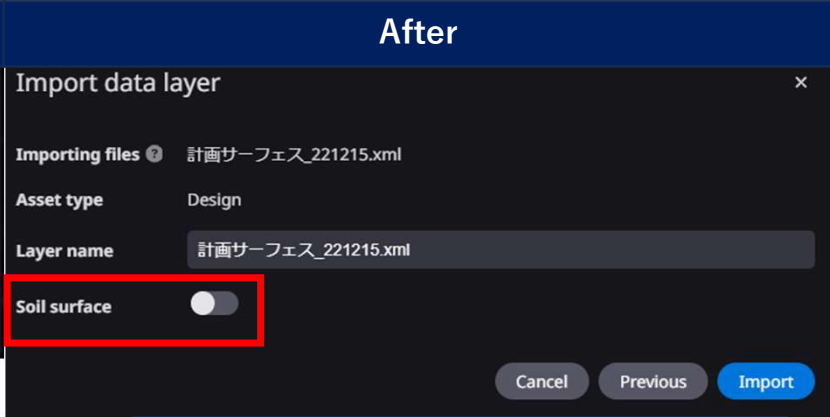
2024.12.10(Schedule) About the Release Version

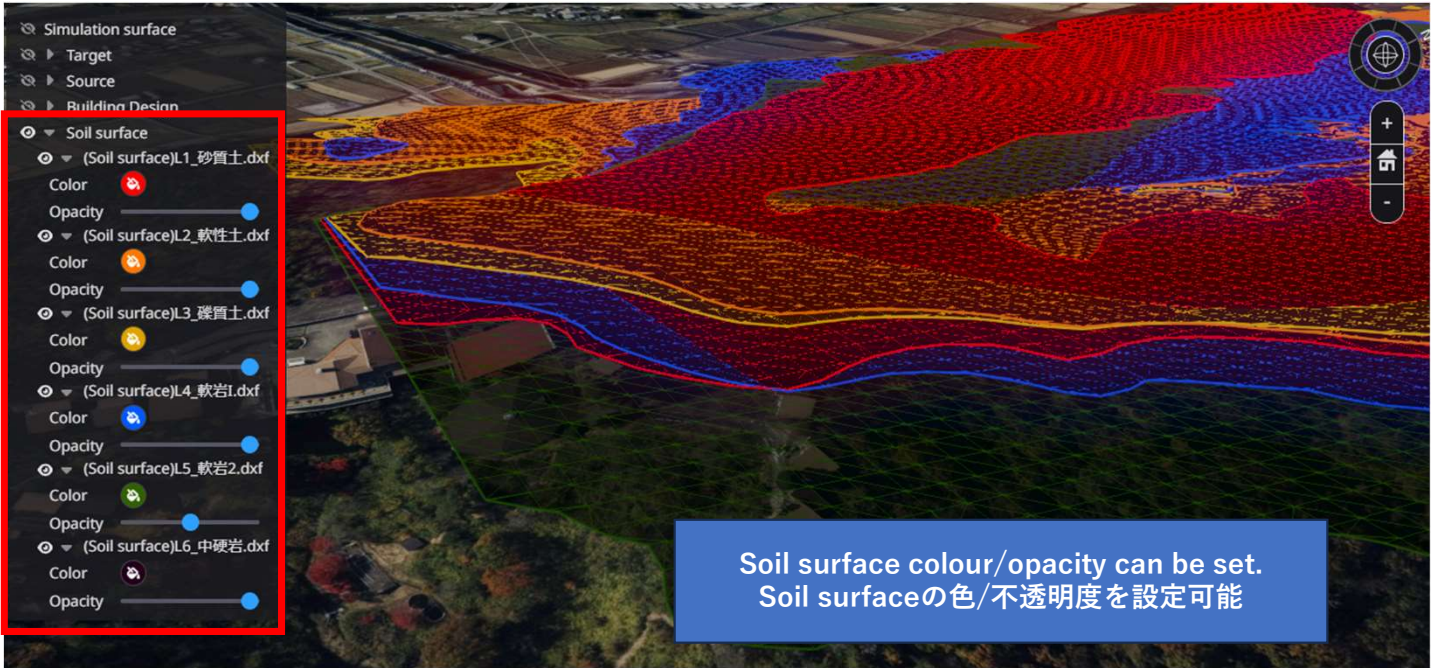


- We are pleased to announce the release of updates to "Smart Construction Simulation" with the following schedule and content.
- Due to system maintenance, the relevant services will not be available during the following dates.
(*The release schedule, time, and contents are subject to change depending on the situation. Please understand this in advance.)

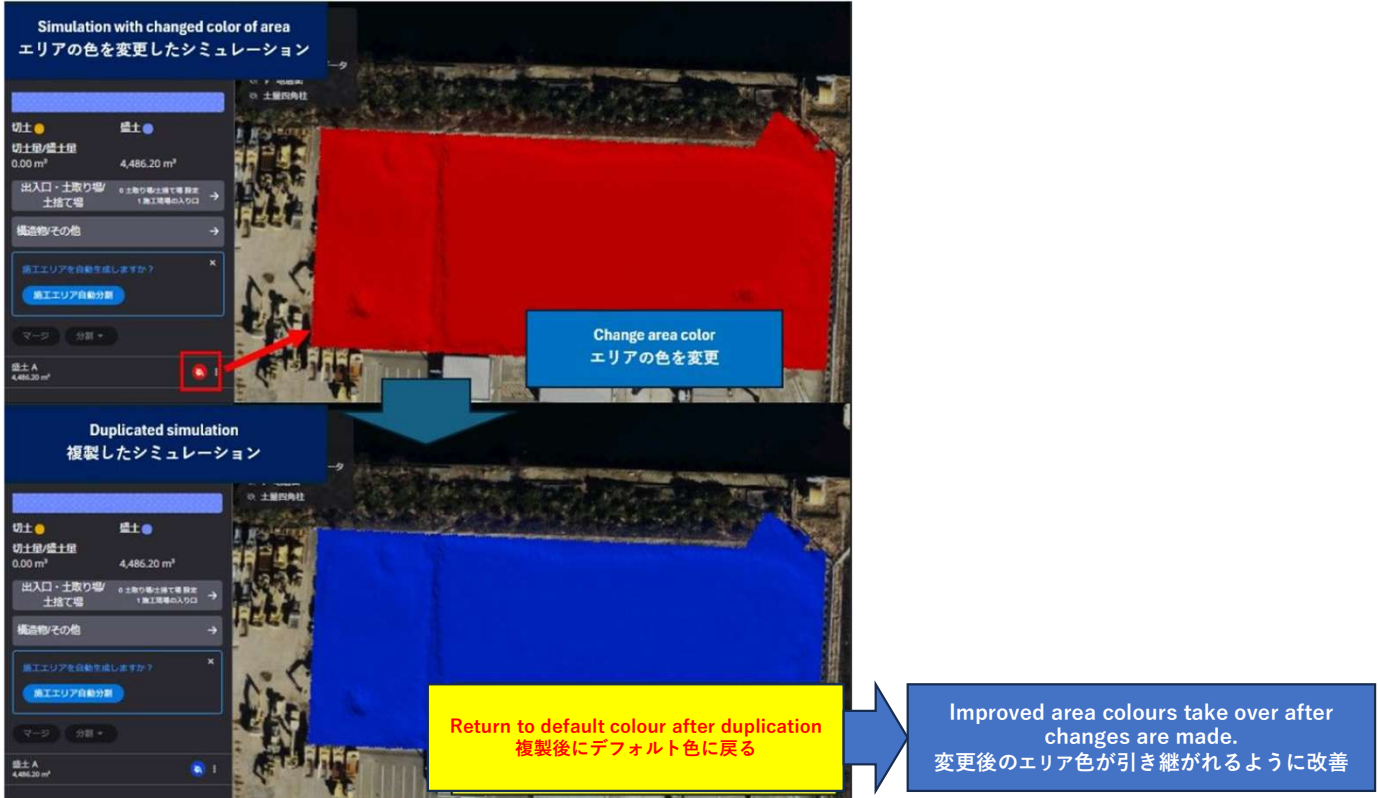
Schedule : Tuesday, December 10 (Japan time) 7:00 p.m. - 12:00 p.m.

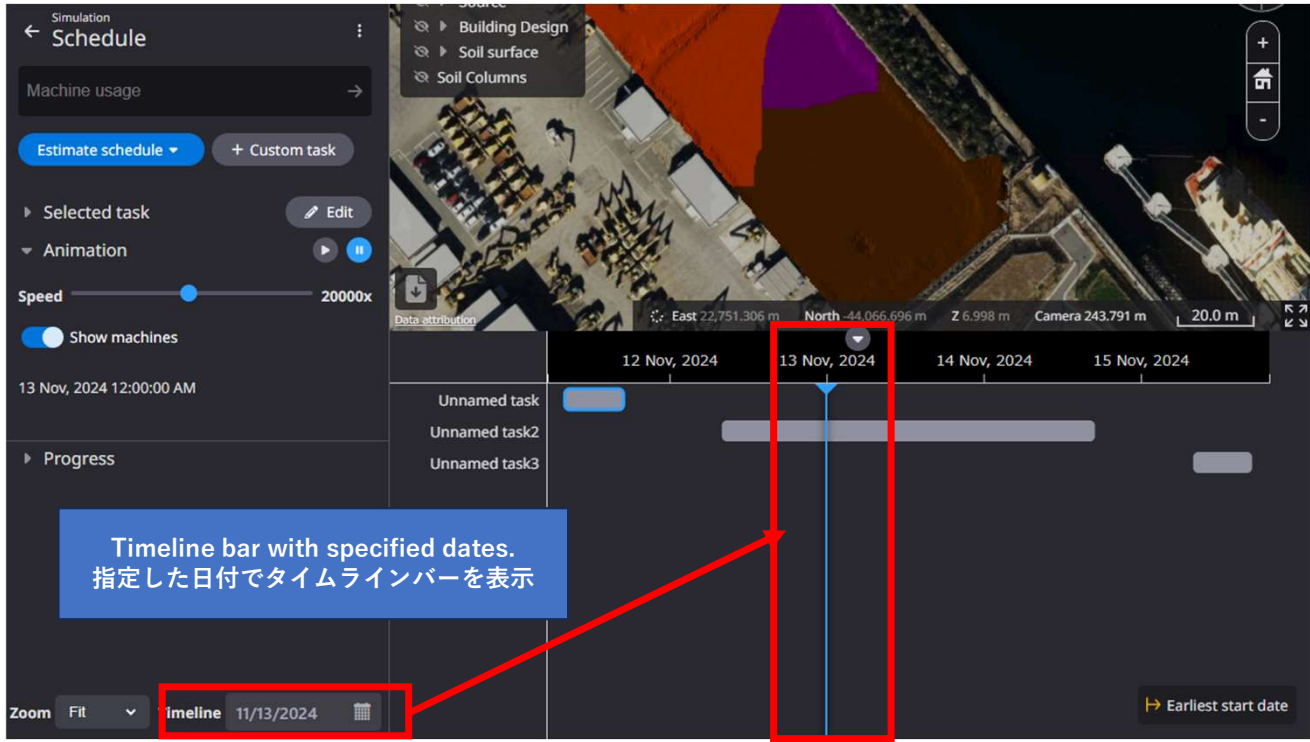
NO.	Target Functions	Overview
1	Simulation (Bug Repair)	<ul style="list-style-type: none"> • Overview : Fixed an issue where calculation results for [catchment area] could not be displayed at large sites. • Details : An issue has been rectified where the results of the [Watershed] calculation for the Water flow prediction function could not be displayed for certain large sites. 

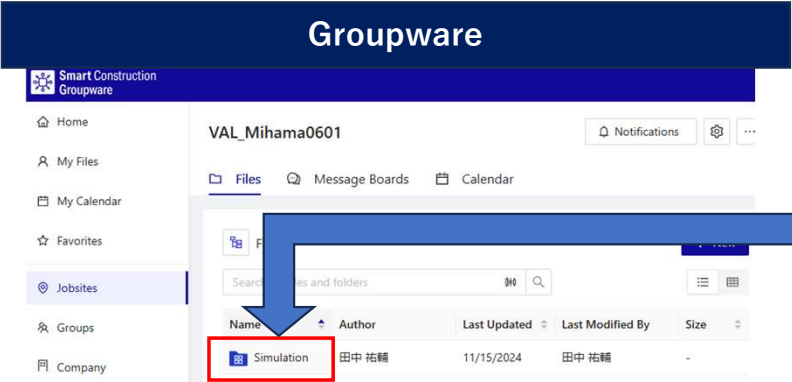
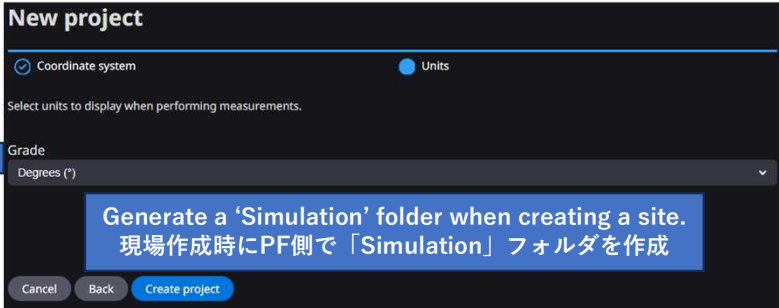
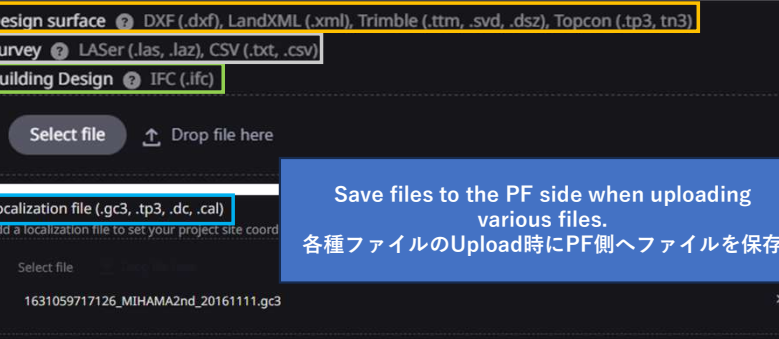
NO.	Target Functions	Overview
2	Simulation (Bug Repair)	<ul style="list-style-type: none"> • Overview : Fixed an issue where XML files could not be uploaded as Soil surface at a site with a specified coordinate system. • Details : For sites with a specified coordinate system, it was not possible to Upload as Soil surface because the 'Soil surface' setting item was not displayed when Uploading the XML file. This has been corrected so that XML files can also be Uploaded as Soil surface. <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>Before</p>  </div> <div style="text-align: center;"> <p>After</p>  </div> </div> <div style="text-align: center; margin-top: 10px; background-color: #4a7ebb; color: white; padding: 5px; border-radius: 5px;"> Add Soil surface option in XML file. XMLファイルでSoil surfaceのオプションを追加 </div>

NO.	Target Functions	Overview
3	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Implemented colour change function for Soil surface. • Details : The colour and opacity of the Soil surface can now be changed when switching between map views. The display settings can be set on a simulation-by-simulation basis, but will revert to the default display settings after a browser restart, for example. <div data-bbox="674 667 2101 1337" style="text-align: center;">  </div>





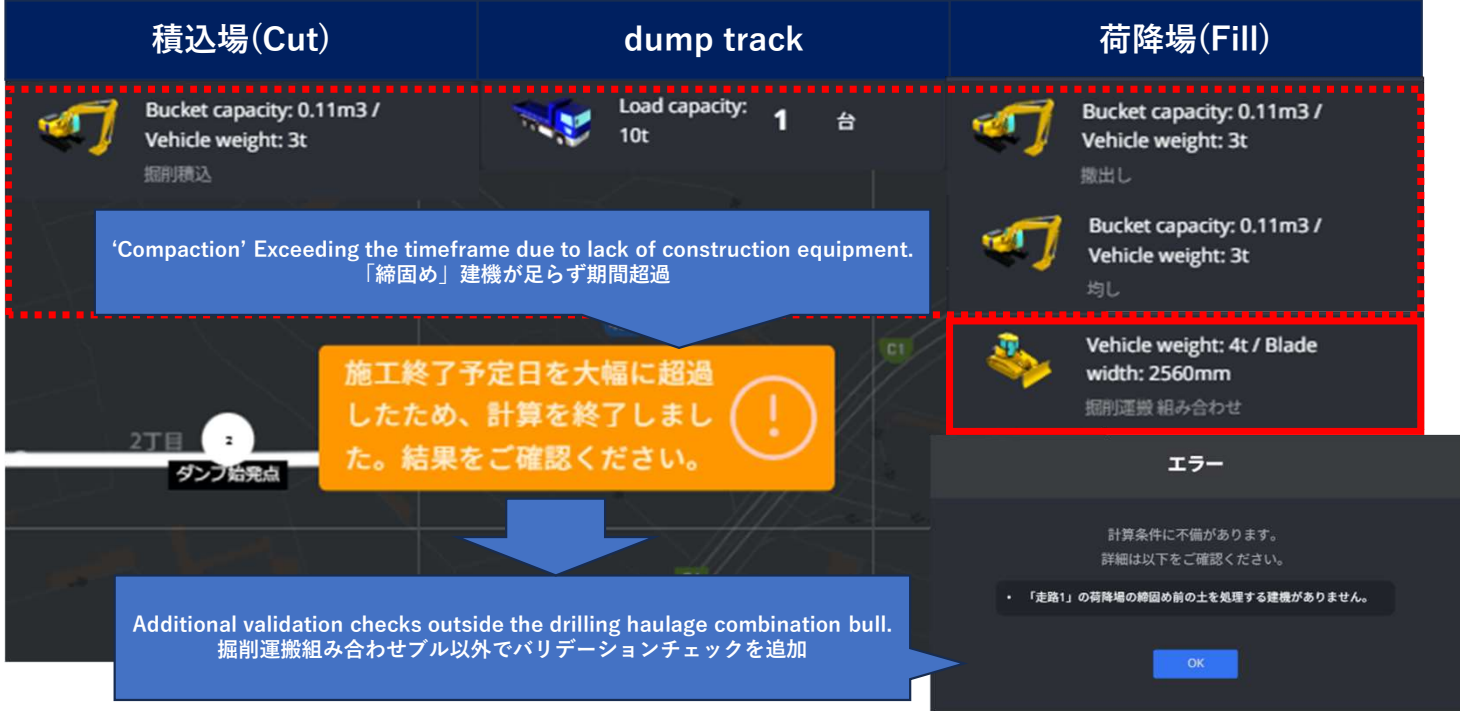
NO.	Target Functions	Overview
4	Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : Improved inheritance of area colour changes when duplicating a simulation. Details : If a simulation was duplicated after changing the area colour, the area colour reverted to default and did not carry over. This has been improved so that the area colour is retained after duplication. 

NO.	Target Functions	Overview
5	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : [Specify date for process chart timeline] functionality implemented. • Details : The position of the timeline bar can now be specified by date in the process chart screen.As a current limitation, the position of the timeline bar cannot be specified normally when specifying a date outside the range displayed in the screen. (To be fixed) 

NO.	Target Functions	Overview
6	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Implementation of Upload File saving to PF. • Details : Files uploaded in Simulation are now saved to Groupware in PF. When a site is created, a 'Simulation' folder is created in PF and the files are saved in the respective folders for each file type. Note that the 'Simulation' folder is not created for sites created before implementation, so the files are not saved on the PF side.    <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="577 1093 952 1244"> <p>directory structure</p> <ul style="list-style-type: none"> Simulation Input </div> <div data-bbox="974 1045 1243 1380"> <ul style="list-style-type: none"> Building Design Design Localization Ortho Image Survey </div> </div>

NO.	Target Functions	Overview
7	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a problem with exceeding the time period when setting up excavation and haulage combination bulls and other construction equipment. Details : A problem has been corrected where the period exceeded in the 'standard calculation' when an excavation and haulage combination bull was set for a construction equipment Group using dump trucks. 

NO.	Target Functions	Overview
8	Machine Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : 'Dumping efficiency' section deleted. Details : Changing the value of 'Dump work efficiency' for the loading area has no effect on the dump workload during the calculation, so it has been deleted as an unnecessary item. <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
9	Machine Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : Added validation checks when setting up drilling haulage combination bulls. Details : When setting up an excavation-transport combination bull, there was a problem with the calculation not working correctly if other construction equipment was set up at the same time. The system has been changed to check whether the other construction equipment meets the requirements for the calculation when a construction equipment other than the excavation-transport combination bull is set.  <p>'Compaction' Exceeding the timeframe due to lack of construction equipment. 「締固め」建機が不足し期間超過</p> <p>施工終了予定日を大幅に超過したため、計算を終了しました。結果をご確認ください。</p> <p>Vehicle weight: 4t / Blade width: 2560mm 掘削運搬 組み合わせ</p> <p>エラー</p> <p>計算条件に不備があります。詳細は以下をご確認ください。</p> <ul style="list-style-type: none"> 「走路1」の荷降場の締固め前の土を処理する建機がありません。 <p>Additional validation checks outside the drilling haulage combination bull. 掘削運搬組み合わせ以外でバリデーションチェックを追加</p>

NO.	Target Functions	Overview																																												
10	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed display of utilisation rates in the cost table detail tab. Details : A problem has been corrected where the average operating rate of construction equipment was not displayed in the details of the cost table when multiple construction equipment of the same model number are used. <div style="text-align: center;"> </div> <p>Use different model numbers 異なる型番を使用</p> <p>Average occupancy rates are not displayed. 平均の稼働率が表示されない</p> <p>modified to display average occupancy rates even when multiple units of the same model number are used. 同じ型番を複数台使用しても平均の稼働率が表示されるように改修</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <caption>Operating ratio</caption> <thead> <tr> <th>shovel (4台)</th> <th>掘削積込</th> <th>建機オペレーター</th> <th>稼働率</th> </tr> </thead> <tbody> <tr> <td>Bucket capacity: 1.9m3 / Vehicle weight: 45t</td> <td>掘削積込</td> <td>建機オペレーター</td> <td>46.3</td> </tr> <tr> <td>Bucket capacity: 1.9m3 / Vehicle weight: 45t</td> <td>掘削積込</td> <td>建機オペレーター</td> <td>56.3</td> </tr> <tr> <td>Bucket capacity: 0.8m3 / Vehicle weight: 20t</td> <td>掘削積込</td> <td>建機オペレーター</td> <td>36.8</td> </tr> <tr> <td>Bucket capacity: 0.8m3 / Vehicle weight: 20t</td> <td>掘削積込</td> <td>建機オペレーター</td> <td>36.2</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <caption>Cost Table</caption> <thead> <tr> <th>名称</th> <th>単位</th> <th>台数</th> <th>期間</th> <th>単価 (円)</th> <th>金額 (円)</th> <th>適用</th> <th>稼働率</th> </tr> </thead> <tbody> <tr> <td>Bucket capacity: 0.8m3 / Vehicle weight: 20t</td> <td>台日</td> <td>2</td> <td>3</td> <td>17,400</td> <td>104,400</td> <td>2台x3日+初期導入費(0円)</td> <td>36.17 (%)</td> </tr> <tr> <td>Bucket capacity: 1.9m3 / Vehicle weight: 45t</td> <td>台日</td> <td>2</td> <td>3</td> <td>40,300</td> <td>241,800</td> <td>2台x3日+初期導入費(0円)</td> <td>46.33 (%)</td> </tr> </tbody> </table>	shovel (4台)	掘削積込	建機オペレーター	稼働率	Bucket capacity: 1.9m3 / Vehicle weight: 45t	掘削積込	建機オペレーター	46.3	Bucket capacity: 1.9m3 / Vehicle weight: 45t	掘削積込	建機オペレーター	56.3	Bucket capacity: 0.8m3 / Vehicle weight: 20t	掘削積込	建機オペレーター	36.8	Bucket capacity: 0.8m3 / Vehicle weight: 20t	掘削積込	建機オペレーター	36.2	名称	単位	台数	期間	単価 (円)	金額 (円)	適用	稼働率	Bucket capacity: 0.8m3 / Vehicle weight: 20t	台日	2	3	17,400	104,400	2台x3日+初期導入費(0円)	36.17 (%)	Bucket capacity: 1.9m3 / Vehicle weight: 45t	台日	2	3	40,300	241,800	2台x3日+初期導入費(0円)	46.33 (%)
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