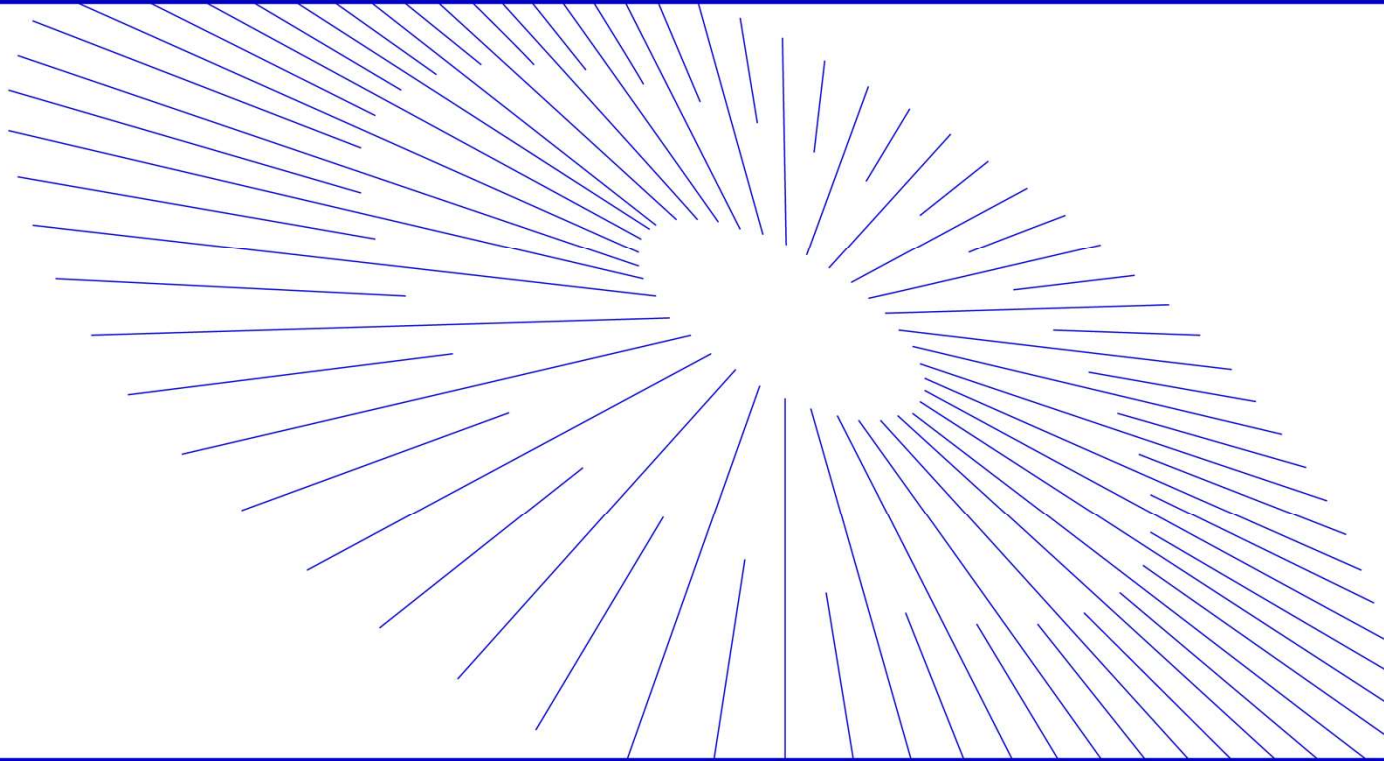
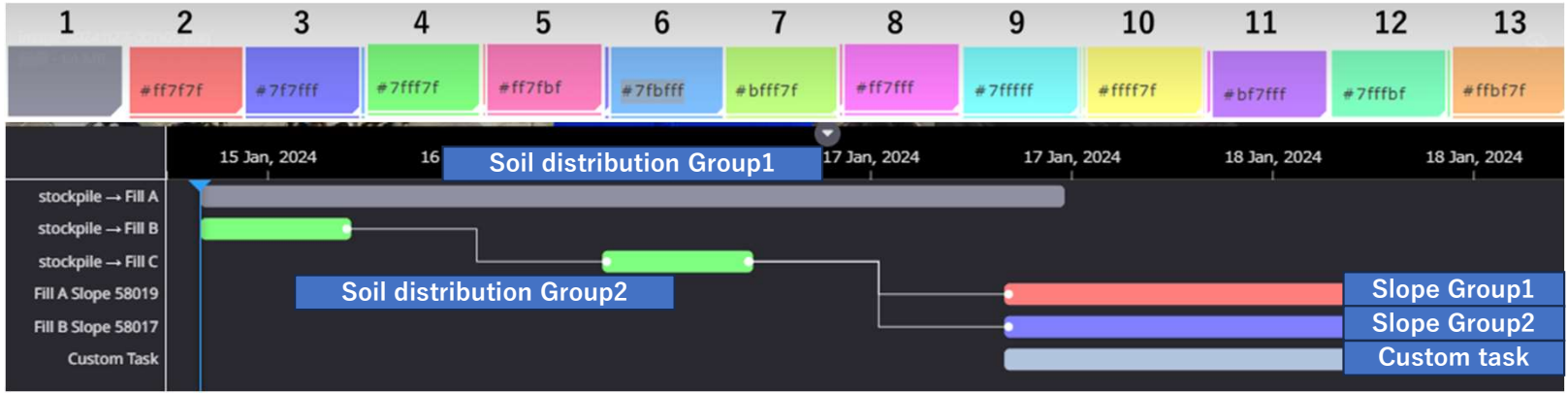


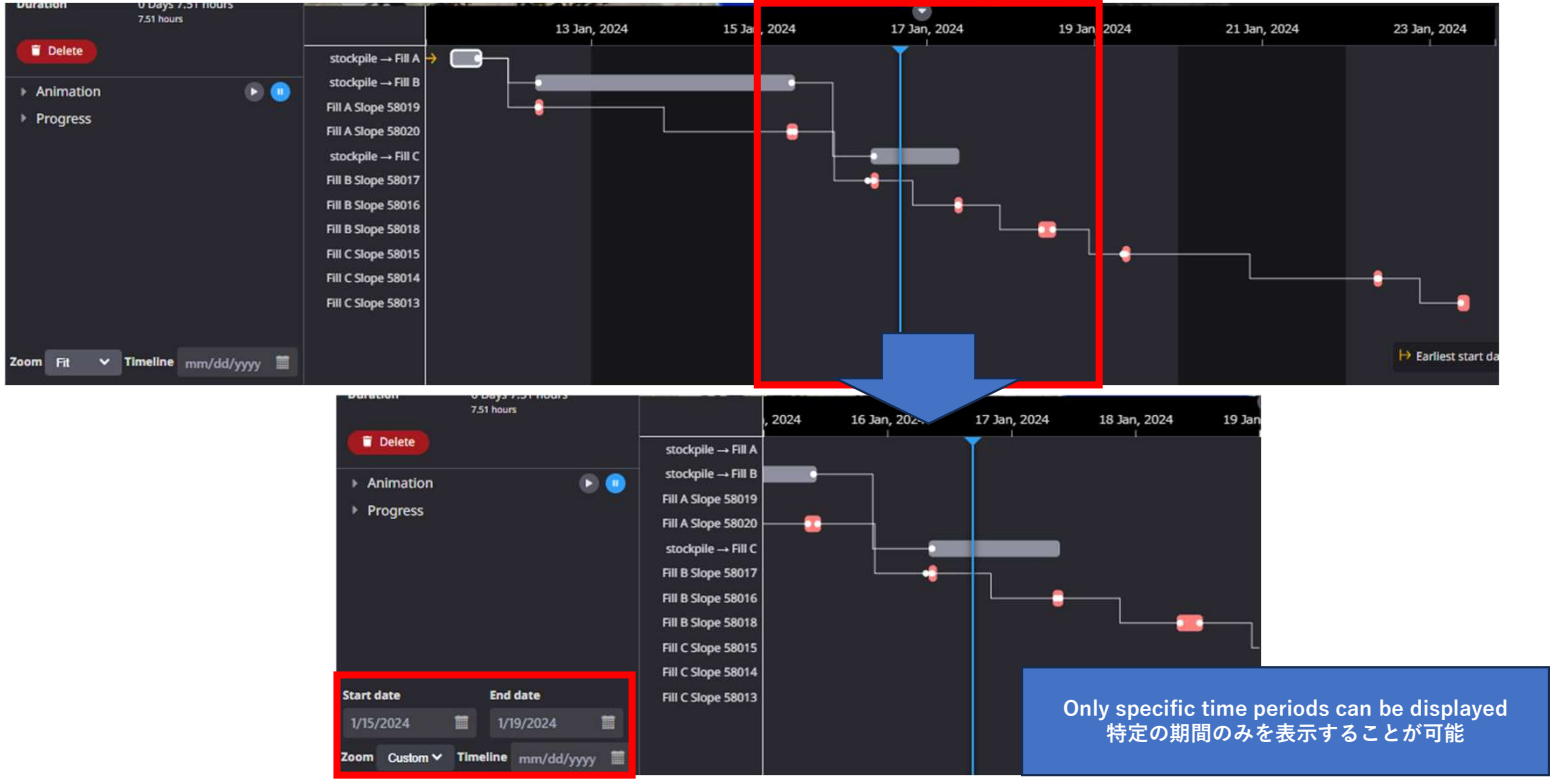
Smart Construction Simulation 2024.12.24(Schedule) About the Release Version

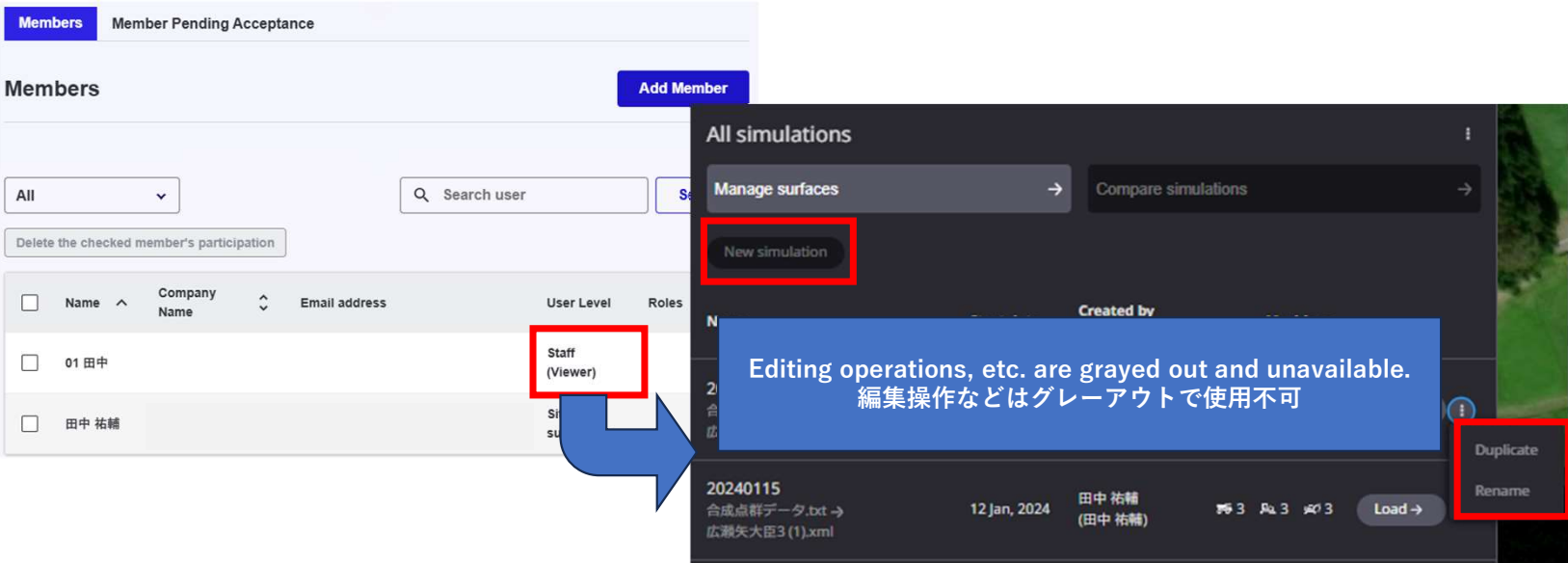


- We are pleased to announce the release of updates to "Smart Construction Simulation" with the following schedule and content.
- Due to system maintenance, the relevant services will not be available during the following dates.
 (*The release schedule, time, and contents are subject to change depending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

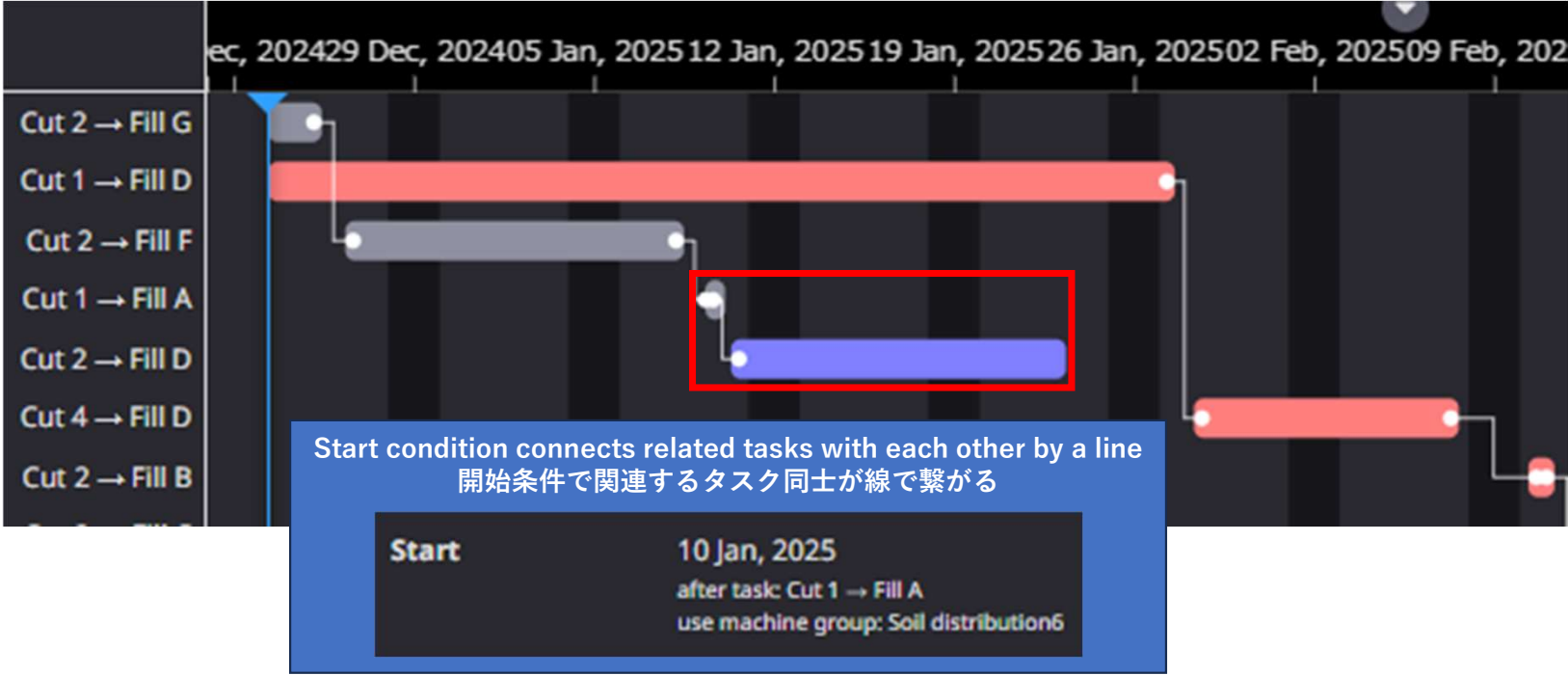
Schedule : Tuesday, December 24 (Japan time) 7:00 p.m. - 12:00 p.m.

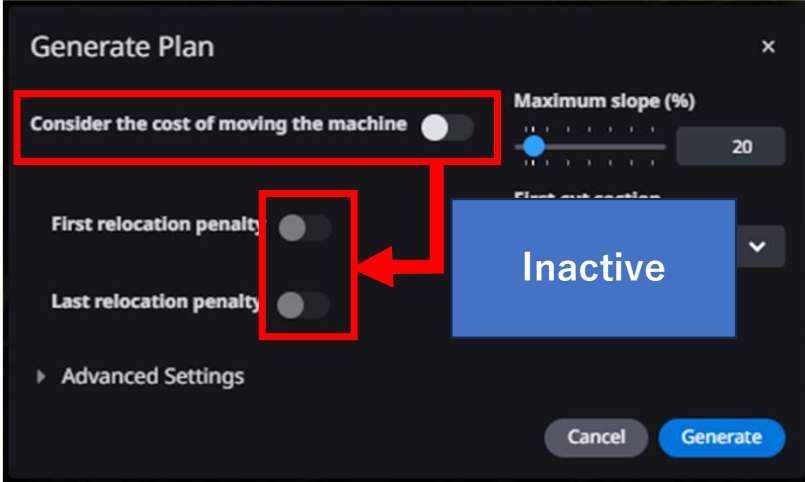
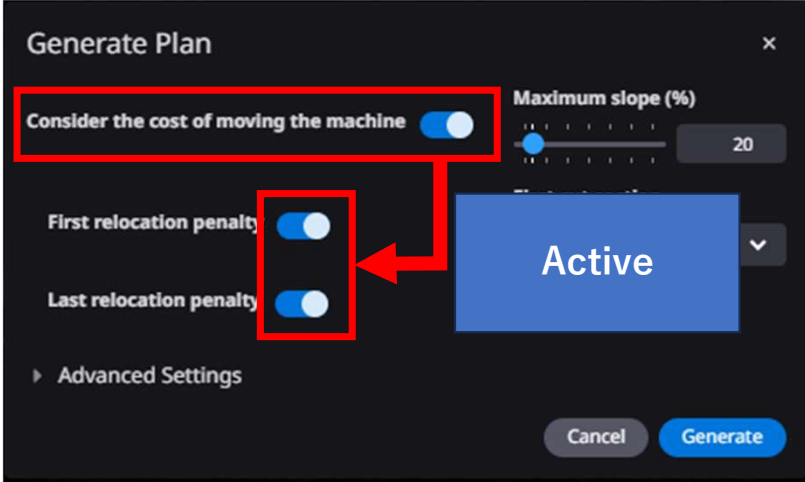
NO.	Target Functions	Overview
1	Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : Implemented color-coded display for each construction equipment group in the process chart task Details : Tasks are now color-coded for each construction equipment group in the process chart display. Soil and slope tasks are displayed in different colors, while optional tasks are displayed in a fixed color. The 13 prepared colors are applied in order. 

NO.	Target Functions	Overview
2	Simulation (Function Improvement)	<ul style="list-style-type: none"> Overview : Implemented specification of the display period of the process chart Details : It is now possible to specify the period of time to be displayed in the process chart. By specifying "Custom" in the Zoom settings, you can set the start/end date and display only a specific period of time. 


NO.	Target Functions	Overview				
3	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Implement read-only restrictions for Staff privileged users • Details : Users with the User Level of “Staff (Viewer)” on site are no longer allowed to edit the simulation, but can only view it as read-only.  <div data-bbox="792 1182 1953 1385" style="border: 1px solid black; padding: 5px;"> <table border="1"> <tr> <td style="text-align: center;">Admin Type</td> <td style="text-align: center;">^</td> </tr> <tr> <td style="text-align: center;">Admin</td> <td></td> </tr> </table> <p>Note that the following functions are not restricted when the organization's authority is “Admin” or higher なお、組織の権限が「Admin」以上の場合は以下の機能は制限されません</p> <ul style="list-style-type: none"> • Create a new site • Change site settings • Delete a site </div>	Admin Type	^	Admin	
Admin Type	^					
Admin						



NO.	Target Functions	Overview
4	Simulation (Function Improvement)	<ul style="list-style-type: none">• Overview : Implement visualization of related tasks in the process chart• Details : In the chart view of the process chart, tasks that are related to each other in the pre-start tasks are now connected by lines to visualize the related tasks. Note that tasks are not connected by lines if they are only related as reusable construction equipment, but only if they are related as pre-start tasks.  <p>Start condition connects related tasks with each other by a line 開始条件で関連するタスク同士が線で繋がる</p> <p>Start 10 Jan, 2025 after task: Cut 1 → Fill A use machine group: Soil distribution6</p>

NO.	Target Functions	Overview
5	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Generate Plan UI improvements • Details : To make it easier to understand the “relocation penalty” and related parameters in Generate Plan, it has been improved so that the “relocation penalty” parameter is only active when “Consider the cost of moving the machine” is ON. state only when “Consider the cost of moving the machine” is ON. <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div>

NO.	Target Functions	Overview
6	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Improved display of timeline position when changing Zoom settings • Details : In some cases, the position of the timeline bar was not displayed when the Zoom setting was changed in the process chart, This has been improved so that the position of the timeline bar is always displayed even when Zoom settings are changed.

NO.	Target Functions	Overview
7	Simulation (Function Improvement)	<ul style="list-style-type: none"> • Overview : Improved display of timeline position when specifying timeline date • Details : When specifying a timeline date in a process chart, the timeline position was not displayed if it was outside the range displayed on the screen. This has been improved so that the timeline position is always displayed even if it is outside the displayed range. 

NO.	Target Functions	Overview																																																																																										
8	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> • Overview : Correction of analysis logic for performance time charts • Details : There was a problem in which some data that should have been displayed as stopped in Fleet Performance was displayed as being in operation. To resolve this issue, the analysis logic has been modified and improved to correctly display “Stopped” on the time chart. <p><Before> Merge only “Stop” of the (old) travel history batch as “On the move” except for loading/unloading operations in the work history.</p> <table border="1" data-bbox="734 798 2132 965"> <tr> <td>ダンプ</td> <td>作業履歴(新)</td> <td>移動中</td> <td>積込</td> <td>積込</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>荷降ろし</td> <td>移動中</td> <td>移動中</td> </tr> <tr> <td></td> <td>走行履歴(旧)</td> <td>停止</td> <td>移動中</td> <td>積込</td> <td>積込</td> <td>停止</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>停止</td> <td>移動中</td> <td>荷降ろし</td> <td>移動中</td> <td></td> </tr> <tr> <td></td> <td>修正結果</td> <td>停止</td> <td>積込</td> <td>積込</td> <td>移動中</td> <td>停止</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>停止</td> <td>荷降ろし</td> <td>移動中</td> <td>移動中</td> <td></td> </tr> </table> <p><After> Except for loading/unloading operations in the work history, all other operations are assumed to be “Stopped”, and only “Moving” of the travel history batch (old) is merged.</p> <table border="1" data-bbox="734 1133 2132 1300"> <tr> <td>ダンプ</td> <td>作業履歴(新)</td> <td>停止</td> <td>積込</td> <td>積込</td> <td>停止</td> <td>停止</td> <td>停止</td> <td>停止</td> <td>停止</td> <td>停止</td> <td>停止</td> <td>荷降ろし</td> <td>停止</td> <td>停止</td> </tr> <tr> <td></td> <td>走行履歴(旧)</td> <td>停止</td> <td>移動中</td> <td>積込</td> <td>積込</td> <td>停止</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>停止</td> <td>移動中</td> <td>荷降ろし</td> <td>移動中</td> <td></td> </tr> <tr> <td></td> <td>修正結果</td> <td>停止</td> <td>積込</td> <td>積込</td> <td>停止</td> <td>停止</td> <td>移動中</td> <td>移動中</td> <td>移動中</td> <td>停止</td> <td>荷降ろし</td> <td>停止</td> <td>移動中</td> <td></td> </tr> </table>	ダンプ	作業履歴(新)	移動中	積込	積込	移動中	移動中	移動中	移動中	移動中	移動中	移動中	荷降ろし	移動中	移動中		走行履歴(旧)	停止	移動中	積込	積込	停止	移動中	移動中	移動中	停止	移動中	荷降ろし	移動中			修正結果	停止	積込	積込	移動中	停止	移動中	移動中	移動中	停止	荷降ろし	移動中	移動中		ダンプ	作業履歴(新)	停止	積込	積込	停止	停止	停止	停止	停止	停止	停止	荷降ろし	停止	停止		走行履歴(旧)	停止	移動中	積込	積込	停止	移動中	移動中	移動中	停止	移動中	荷降ろし	移動中			修正結果	停止	積込	積込	停止	停止	移動中	移動中	移動中	停止	荷降ろし	停止	移動中	
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9	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a bug in which the start date of a child runway differed depending on the calculation method when the start condition was [Use the same machine configuration]. Details : When a shared runway in a construction zone was specified with [Use same machine configuration], the start date of the child runway was different between the simple calculation and the standard calculation. This has been corrected so that the start date for the simple calculation is the same as the start date for the standard calculation. <div data-bbox="580 715 1713 989"> </div> <div data-bbox="580 997 1400 1380"> <table border="1"> <thead> <tr> <th colspan="2">Simplified Calculation</th> <th colspan="4">2024年12月</th> </tr> <tr> <th></th> <th></th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> </tr> <tr> <th></th> <th></th> <th>火</th> <th>水</th> <th>木</th> <th>金</th> </tr> </thead> <tbody> <tr> <td>走路1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>走路2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>走路3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Standard calculation</th> <th colspan="4">2024年12月</th> </tr> <tr> <th></th> <th></th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> </tr> <tr> <th></th> <th></th> <th>火</th> <th>水</th> <th>木</th> <th>金</th> </tr> </thead> <tbody> <tr> <td>走路1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>走路2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>走路3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div data-bbox="1489 1077 2190 1284"> <p>Modified to have the same start date as the standard calculation 標準計算と同様の開始日となるように改修</p> </div>	Simplified Calculation		2024年12月						10	11	12	13			火	水	木	金	走路1						走路2						走路3						Standard calculation		2024年12月						10	11	12	13			火	水	木	金	走路1						走路2						走路3					
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10	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a bug that decimals were rounded to integers when importing road surface information for foundation data. Details : When importing road surface information for foundation data, there was a problem where if the coefficient values for additions included integers, the other decimals were rounded to integers. This has been corrected so that both integers and decimals can be imported correctly.  <table border="1" data-bbox="1142 758 2094 1380"> <thead> <tr> <th>区分</th> <th>係数</th> </tr> </thead> <tbody> <tr><td>舗装道路</td><td>1</td></tr> <tr><td>路面状況の悪い道</td><td>0.9</td></tr> <tr><td>舗装道路：5%以上の急坂の連続した道</td><td>0.9</td></tr> <tr><td>比較的良好な砂利道：5%以上の急坂の連続した道</td><td>0.85</td></tr> <tr><td>路面状況の悪い道：5%以上の急坂の連続した道</td><td>0.8</td></tr> <tr><td>辛うじてすれちがいが可能な道</td><td>0.8</td></tr> <tr><td>砂利道</td><td>0.95</td></tr> <tr><td>一般工事</td><td>0</td></tr> <tr><td>舗装面・上部路床面</td><td>0</td></tr> </tbody> </table>	区分	係数	舗装道路	1	路面状況の悪い道	0.9	舗装道路：5%以上の急坂の連続した道	0.9	比較的良好な砂利道：5%以上の急坂の連続した道	0.85	路面状況の悪い道：5%以上の急坂の連続した道	0.8	辛うじてすれちがいが可能な道	0.8	砂利道	0.95	一般工事	0	舗装面・上部路床面	0
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11	Machine Simulation (Bug Repair)	<ul style="list-style-type: none"> Overview : Fixed a problem in which the interval is not calculated on the day of the interval when the runway before the start is a construction zone alone (embankment). Details : There was a problem that the standard calculation was not calculated on the day of the interval when the pre-start runway was the only construction area (embankment).The problem has been corrected so that calculations are made on the day of the interval. 