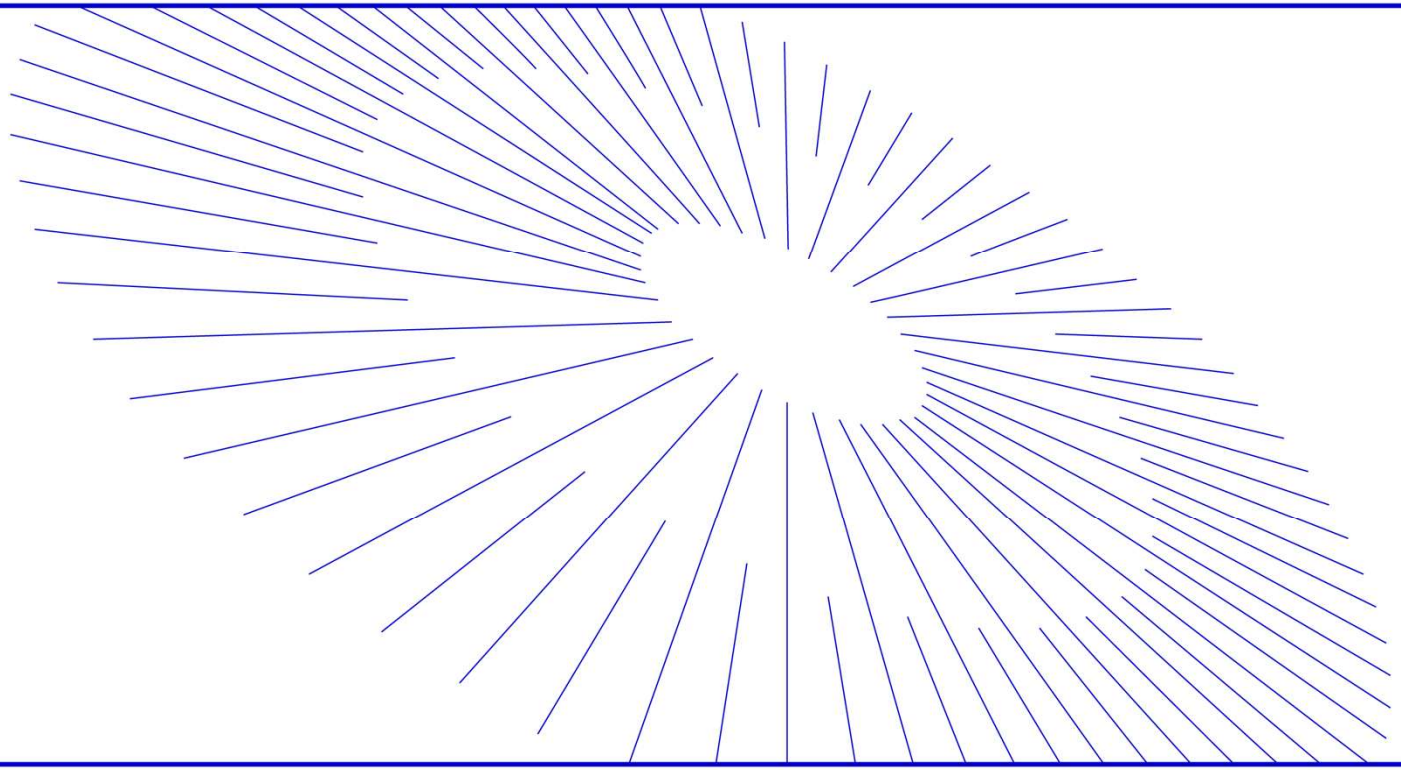
Smart Construction Simulation
2025.7.22(Schedule) About the Release Version



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, July 23 (Japan time)　7:00 p.m. - 12:00 p.m.

NO.	Target Functions	Overview	Details
1	Simulation (Function Improvement)	Addition of automatic area division function using line work	A function has been added to automatically divide an area using linework. Lines to be used for division can be selected from the linework displayed on the screen by clicking, and the selected lines will be highlighted and reflected as the division target.
2	Simulation (Function Improvement)	Specification change of on-site image generation for construction equipment Simulation linkage	The site image sent when linking with Construction Equipment Simulation has been improved so that the image is always generated at a position and zoom that includes the entire site. This eliminates the problem of missing parts of the image that prevent the entire site from being shared.
3	Machine Simulation (Function Improvement)	Support for out of scope of Google Translate	All pages are now exempt from Google Translate. This prevents display corruption and malfunctions caused by automatic translation. If you need to switch languages, please use the language switch menu in the header section.

リリース項目一覧

NO.	Target Functions	Overview	Details
4	Machine Simulation (Function Improvement)	Implementation of logic to unify the number of dump laps	The control logic has been improved to allow multiple dumpsters used on site to make the same number of laps per day. A “Loading End Time” condition setting option has been added to the confirmation dialog before calculation execution and can be toggled for each calculation. The stop timing of all vehicles is adjusted based on the arrival timing of the first and last dump trucks.Note that the system does not support cases in which the dump trucks are thrown in at a late interval, causing a “lap delay” in which the first dump truck makes one lap.
5	Machine Simulation (Function Improvement)	Added the ability to link Simulation Runway and Fleet location information.	Added the ability to manually link Simulation runways to Fleet location information. The “Fleet linkage” button allows you to edit the linkage information and set the loading and unloading points. If the points are shared, the set points are automatically reflected on the shared runway.In addition, for a runway that includes a temporary storage area, the bringer side must set the temporary storage area as the unloading point and the take-out side as the loading point.
6	Machine Simulation (Function Improvement)	Added automatic updating function of tying information when creating a runway using fleet information.	When creating a runway using fleet information, a new function has been added to automatically update loading/unloading points and route linkage information. This eliminates the need for manual registration on the Simulation side and is reflected when adding a new runway.
7	Machine Simulation (Function Improvement)	Changed Fleet stringing process on the daily utilization screen.	The system has been modified to utilize the tie-in information between Simulation's runways and Fleet's loading points to tie in the construction equipment results on the Daily Availability screen. If the tie-in information exists, it is given priority; otherwise, latitude/longitude and other information is used in the existing automatic logic.

リリース項目一覧

NO.	Target Functions	Overview	Details
8	Machine Simulation (Function Improvement)	Fleet performance graphs for each loading and unloading area	A new function has been added to reflect Fleet's performance data not only in the overall transported volume, but also in the progress graphs for each loading and unloading area. By utilizing the tied-in information, daily transported soil volume for each location can be accurately totaled and visualized, enabling more detailed forecasting and actual management.Note that the progress graphs for each loading station and unloading station do not show a market graph.

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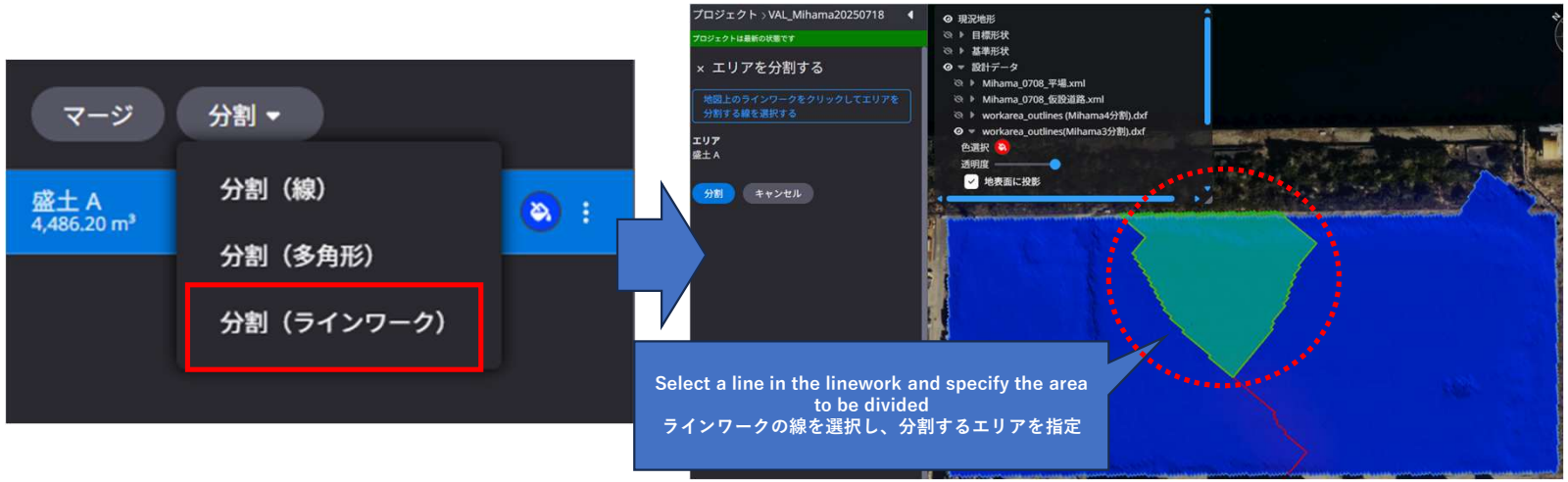
NO.	Target Functions	Overview
1	Simulation (Function Improvement)	• Overview：Addition of automatic area division function using line work • Details：A function has been added to automatically divide an area using linework. Lines to be used for division can be selected from the linework displayed on the screen by clicking, and the selected lines will be highlighted and reflected as the division target. 

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NO.	Target Functions	Overview
2	Simulation (Function Improvement)	• Overview：Specification change of on-site image generation for construction equipment Simulation linkage • Details：The site image sent when linking with Construction Equipment Simulation has been improved so that the image is always generated at a position and zoom that includes the entire site. This eliminates the problem of missing parts of the image that prevent the entire site from being shared.

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NO.	Target Functions	Overview
3	Machine Simulation (Function Improvement)	• Overview：Support for out of scope of Google Translate • Details：All pages are now exempt from Google Translate. This prevents display corruption and malfunctions caused by automatic translation. If you need to switch languages, please use the language switch menu in the header section. 

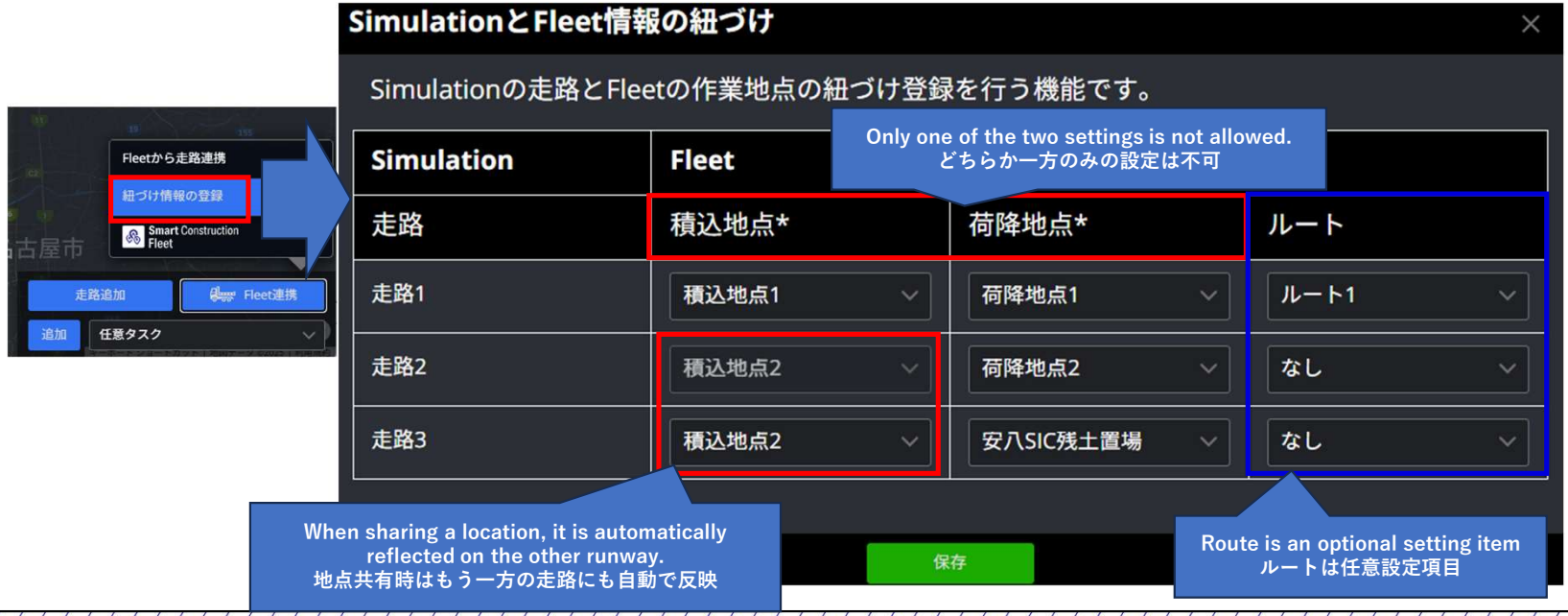
NO.	Target Functions	Overview
4	Machine Simulation (Function Improvement) [1/2]	• Overview：Implementation of logic to unify the number of dump laps • Details：The control logic has been improved to allow multiple dumpsters used on site to make the same number of laps per day. A “Loading End Time” condition setting option has been added to the confirmation dialog before calculation execution and can be toggled for each calculation. The stop timing of all vehicles is adjusted based on the arrival timing of the first and last dump trucks.Note that the system does not support cases in which the dump trucks are thrown in at a late interval, causing a “lap delay” in which the first dump truck makes one lap.

Release Item List

NO.	Target Functions	Overview
4	Machine Simulation (Function Improvement) [2/2]	

Release Item List

NO.	Target Functions	Overview
5	Machine Simulation (Function Improvement)	• Overview：Added the ability to link Simulation Runway and Fleet location information. • Details：Added the ability to manually link Simulation runways to Fleet location information. The “Fleet linkage” button allows you to edit the linkage information and set the loading and unloading points. If the points are shared, the set points are automatically reflected on the shared runway.In addition, for a runway that includes a temporary storage area, the bringer side must set the temporary storage area as the unloading point and the take-out side as the loading point.



Release Item List

NO.	Target Functions	Overview
6	Machine Simulation (Function Improvement) [1/2]	• Overview：Added automatic updating function of tying information when creating a runway using fleet information. • Details：When creating a runway using fleet information, a new function has been added to automatically update loading/unloading points and route linkage information. This eliminates the need for manual registration on the Simulation side and is reflected when adding a new runway.

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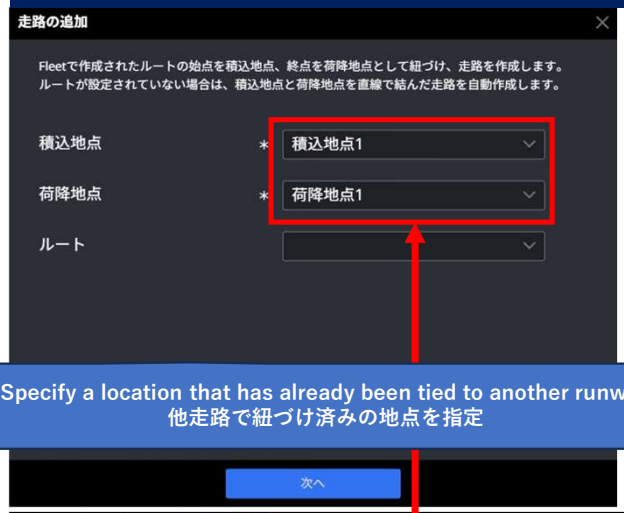
NO.	Target Functions	Overview
6	Machine Simulation (Function Improvement) [2/2]	When a point that has already been linked to another runway is specified when linking a runway from Fleet Fleetから走路連携時にすでに他走路と紐づけ済みの地点を指定した場合



Specify a location that has already been tied to another runway
他走路で紐づけ済みの地点を指定

Only “specified date” can be selected as the start condition.
開始条件は「指定日」のみ選択可能

【Notes】
Existing identical points are shared when creating a runway, and the number of construction machines at the shared point is also combined.
走路作成時に既存の同一点を共有し、共有地点の建機台数も合算される

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7	Machine Simulation (Function Improvement)	• Overview：Changed Fleet stringing process on the daily utilization screen. • Details：The system has been modified to utilize the tie-in information between Simulation's runways and Fleet's loading points to tie in the construction equipment results on the Daily Availability screen. If the tie-in information exists, it is given priority; otherwise, latitude/longitude and other information is used in the existing automatic logic.

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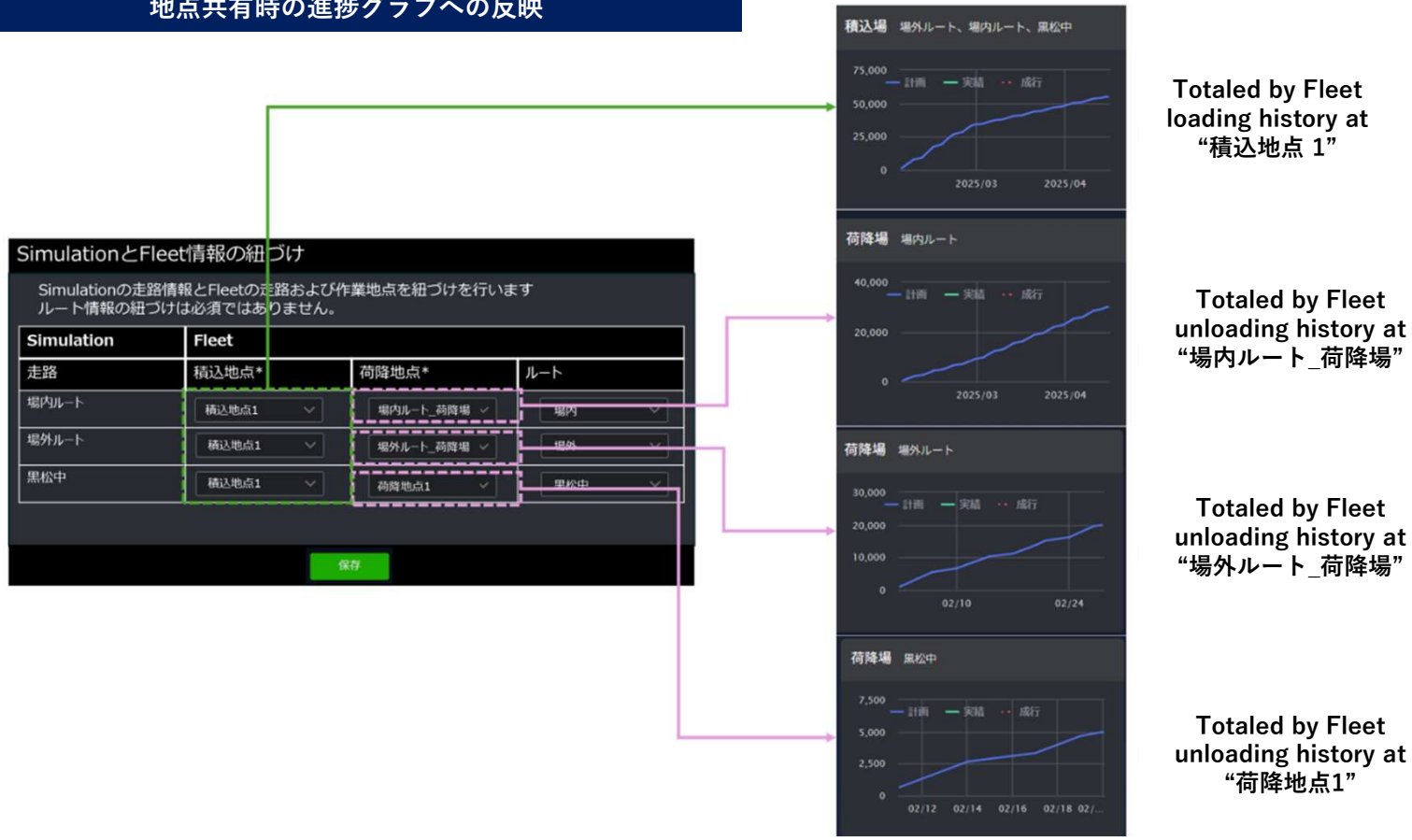
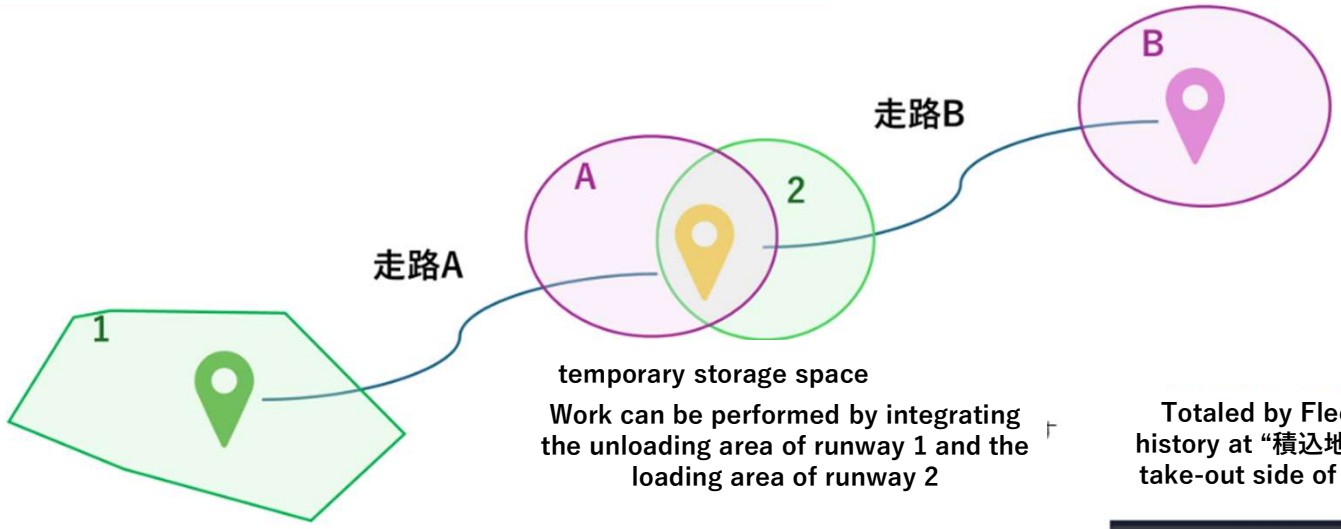
NO.	Target Functions	Overview
8	Machine Simulation (Function Improvement) [1/3]	• Overview：Fleet performance graphs for each loading and unloading area • Details：A new function has been added to reflect Fleet's performance data not only in the overall transported volume, but also in the progress graphs for each loading and unloading area. By utilizing the tied-in information, daily transported soil volume for each location can be accurately totaled and visualized, enabling more detailed forecasting and actual management.Note that the progress graphs for each loading station and unloading station do not show a market graph.

Release Item List

NO.	Target Functions	Overview
8	Machine Simulation (Function Improvement) [2/3]	**Reflection on the progress graph when sharing locations** **地点共有時の進捗グラフへの反映**  **Totaled by Fleet loading history at “積込地点 1”** **Totaled by Fleet unloading history at “場内ルート_荷降場”** **Totaled by Fleet unloading history at “場外ルート_荷降場”** **Totaled by Fleet unloading history at “荷降地点1”**

Release Item List

NO.	Target Functions	Overview
8	Machine Simulation (Function Improvement) [3/3]	**Reflection on progress graph when temporary storage is set** **仮置場設定時の進捗グラフへの反映**

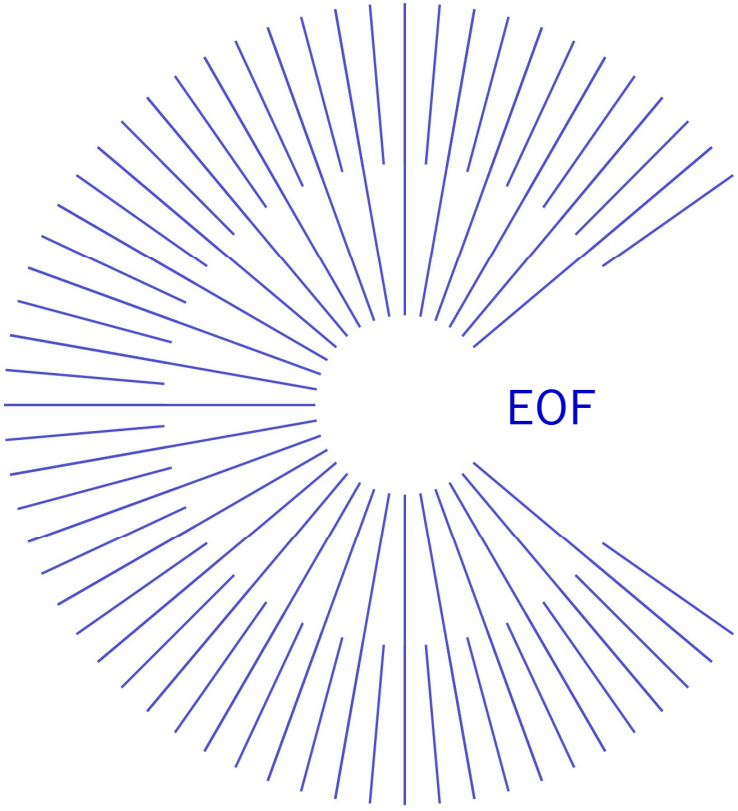


temporary storage space

Work can be performed by integrating the unloading area of runway 1 and the loading area of runway 2

Totaled by Fleet loading history at “積込地点2” on the take-out side of the runway

Simulation	Fleet		
走路	積込地点*	荷降地点*	ルート
走路A	積込地点1	荷降地点A	なし
走路B	積込地点2	荷降地点B	なし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