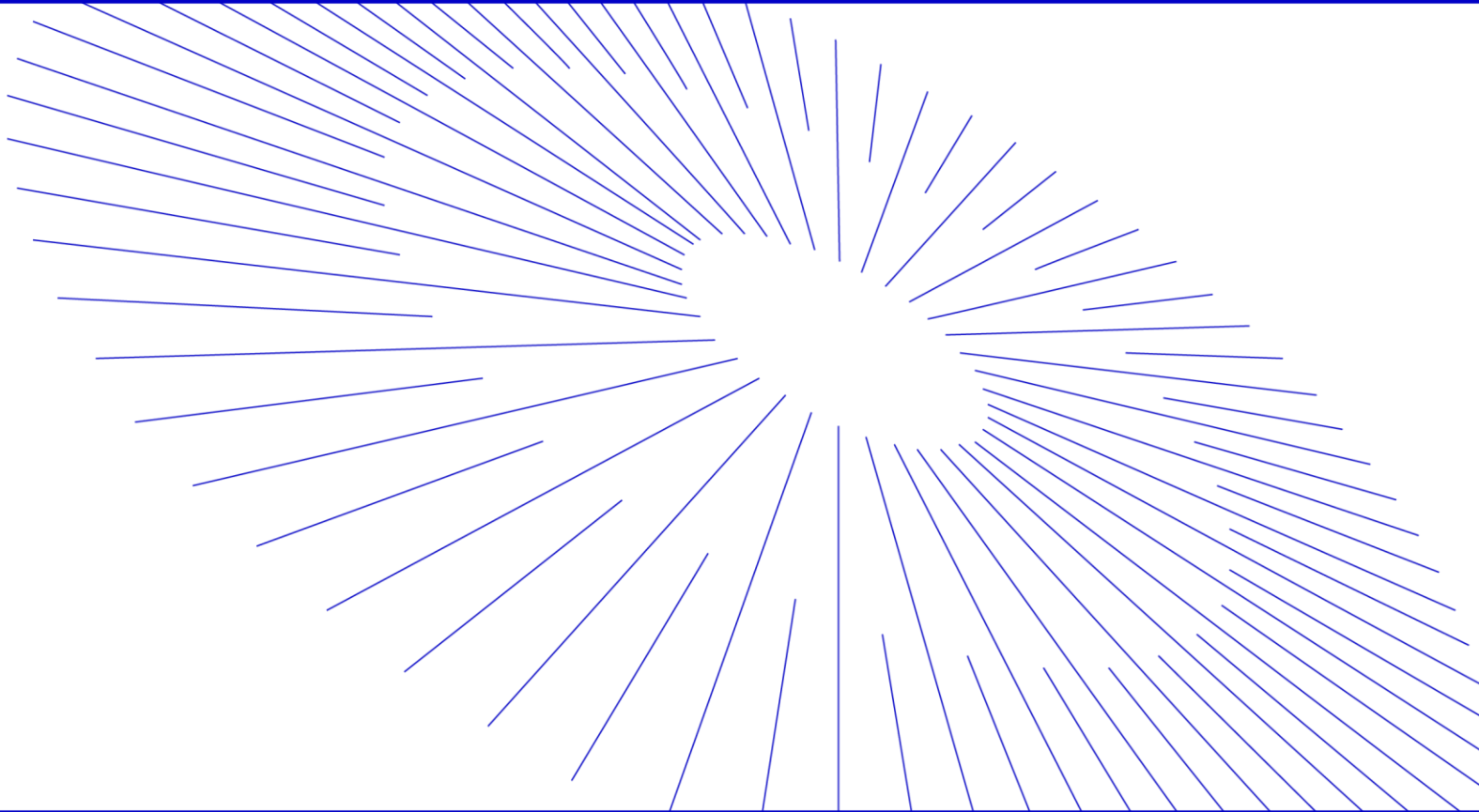


Smart Construction Groupware

Release Version for September 24, 2025 (Planned)



EARTHBRAIN

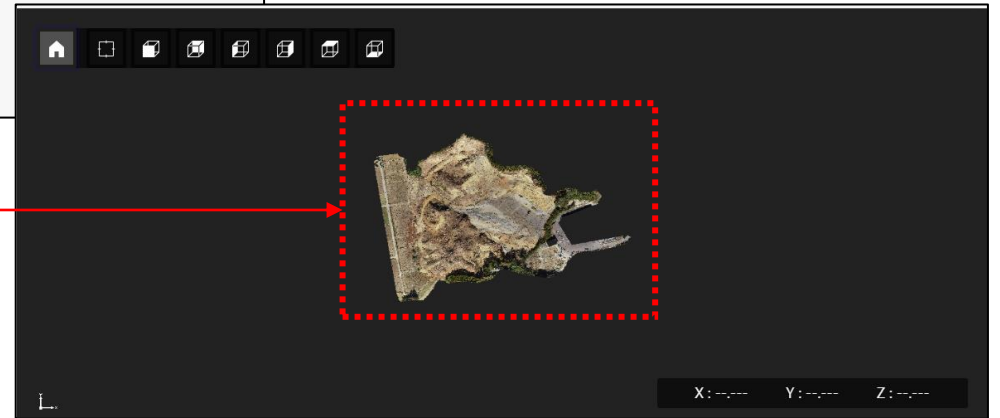
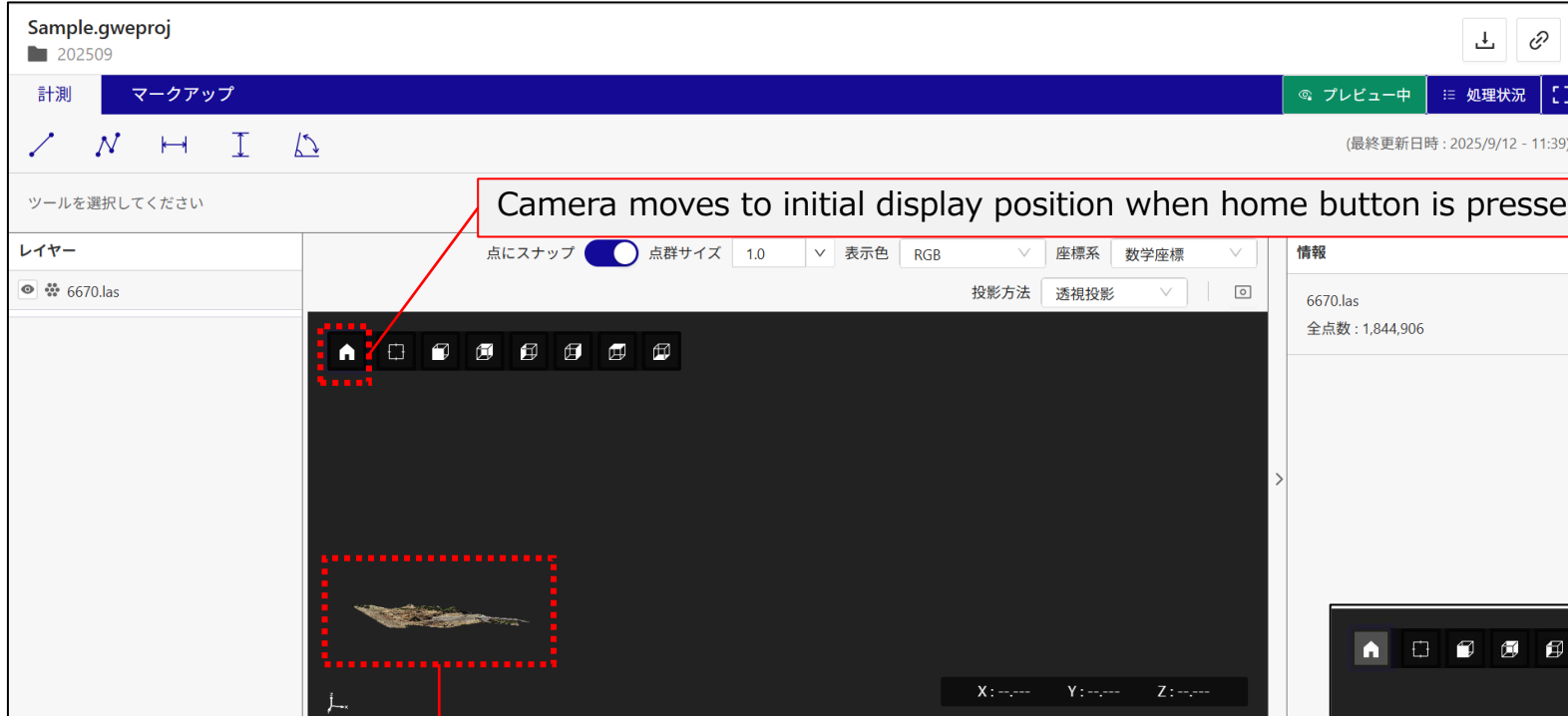
- The Smart Construction Groupware update will be released on the following schedule and content.

Release schedule: September 24 (Wed) Japan time (scheduled) 19:00~22:00

NO.	Function	Overview	Details
1	Point Cloud Viewer	New feature addition. Home button has been implemented. The camera moves to the initial display position when the button is pressed.	Please refer to the explanations on the following pages.
2	Point Cloud Data Import	Function improvement. 2GBpoint cloud files exceeding the display range capacity (2GB) are imported, an alert will now be displayed.	Please refer to the explanations on the following pages.
3	Area and volume measurement	Function improvement. An alert will now be displayed if the number of grids in the selection exceeds the upper limit (250,000 grids) when measuring area and volume.	Please refer to the explanations on the following pages.
4	Earthwork Measurement	Function improvement. An alert is now displayed when the number of grids in a selection exceeds the upper limit (1,000,000 grids) when Earthwork Measurement.	Please refer to the explanations on the following pages.

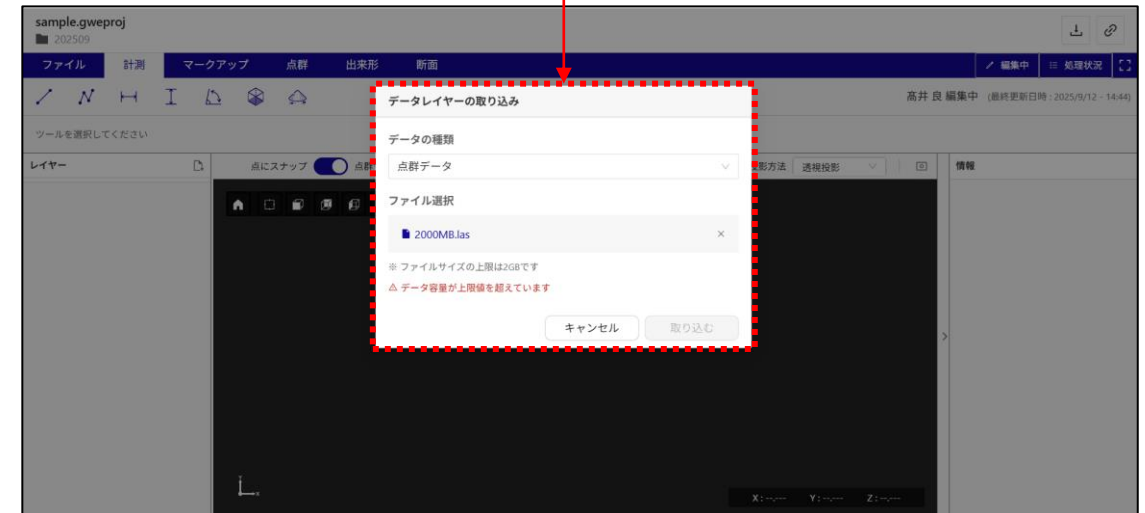
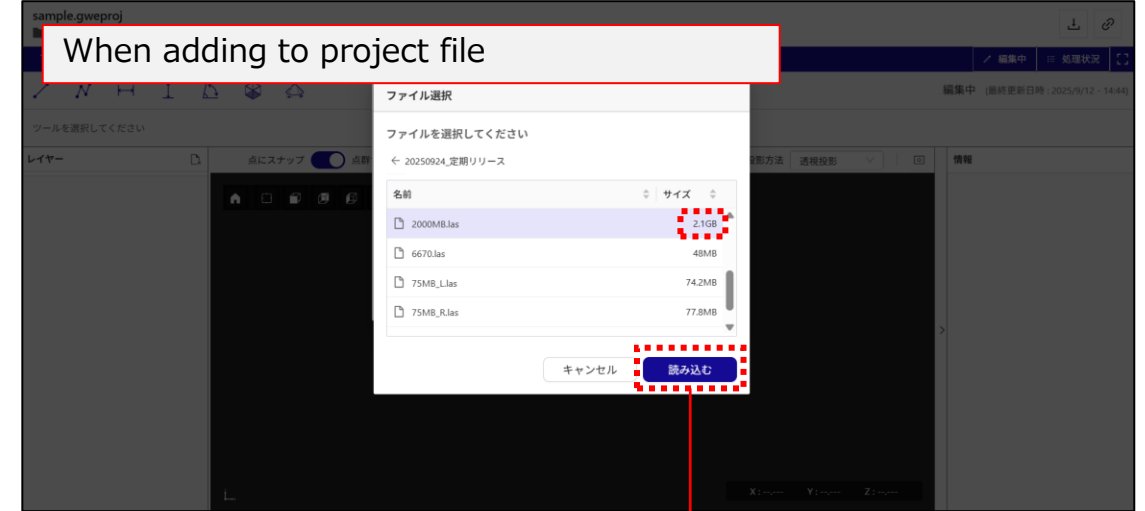
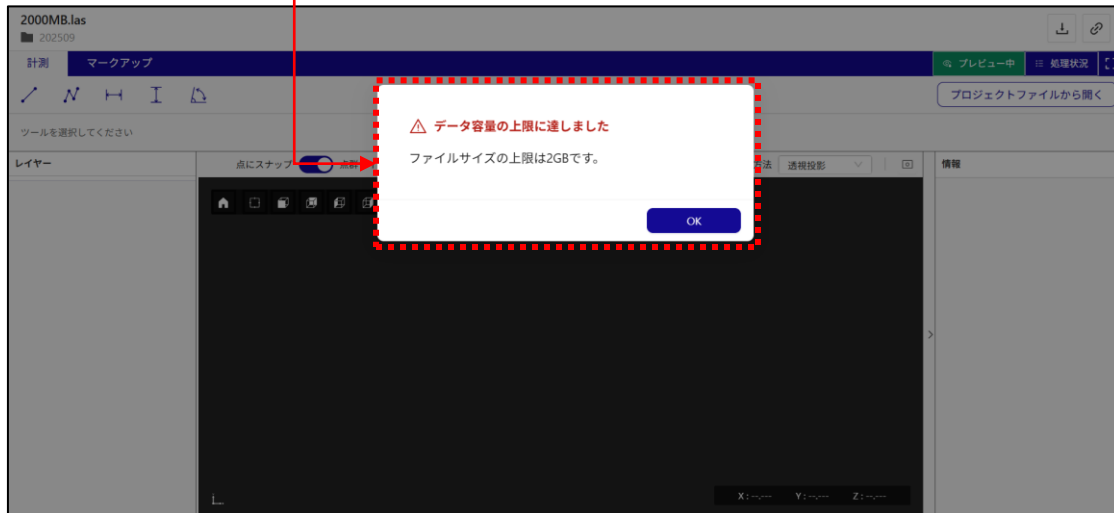
No.1

- Home button has been implemented. The camera moves to the initial display position when the button is pressed.



No.2

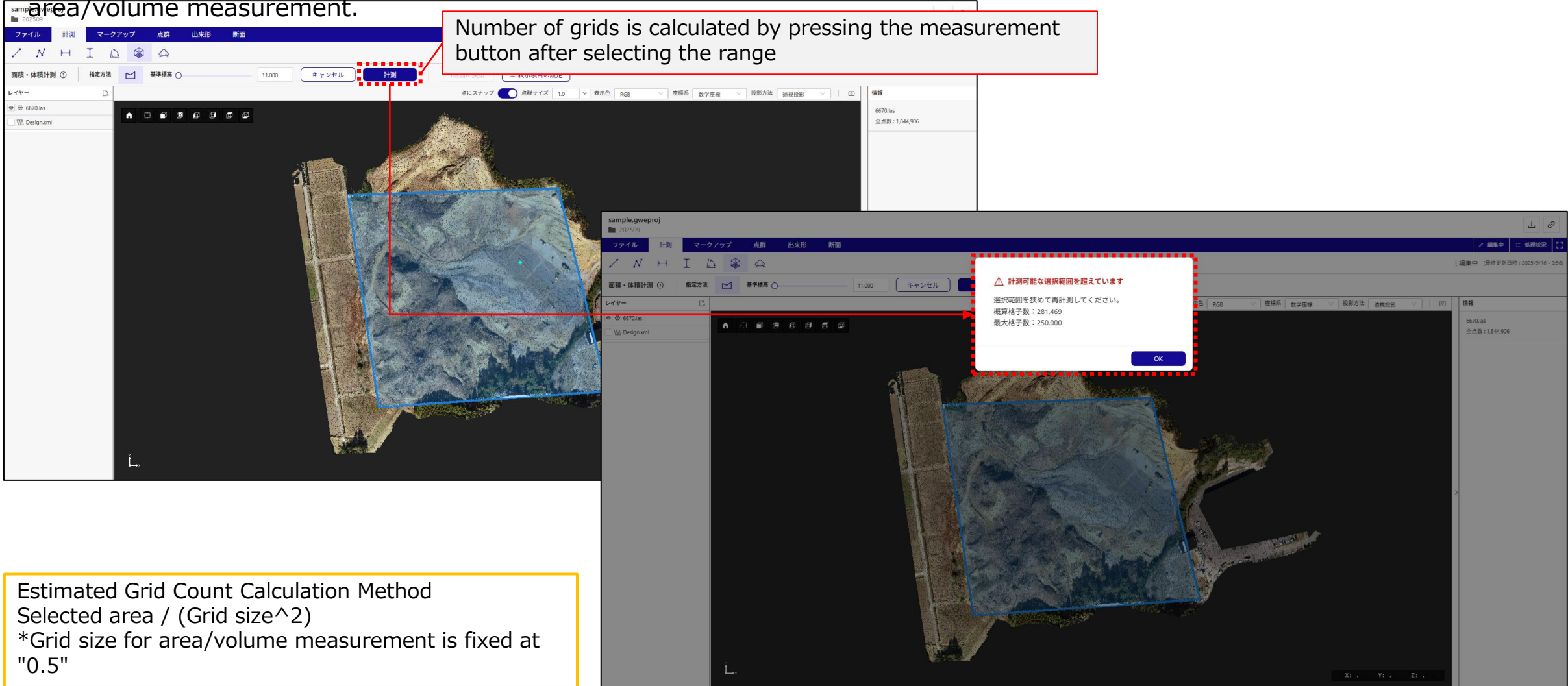
- An alert will now be displayed when attempting to import point cloud files that exceed the display range capacity (2GB).



No.3

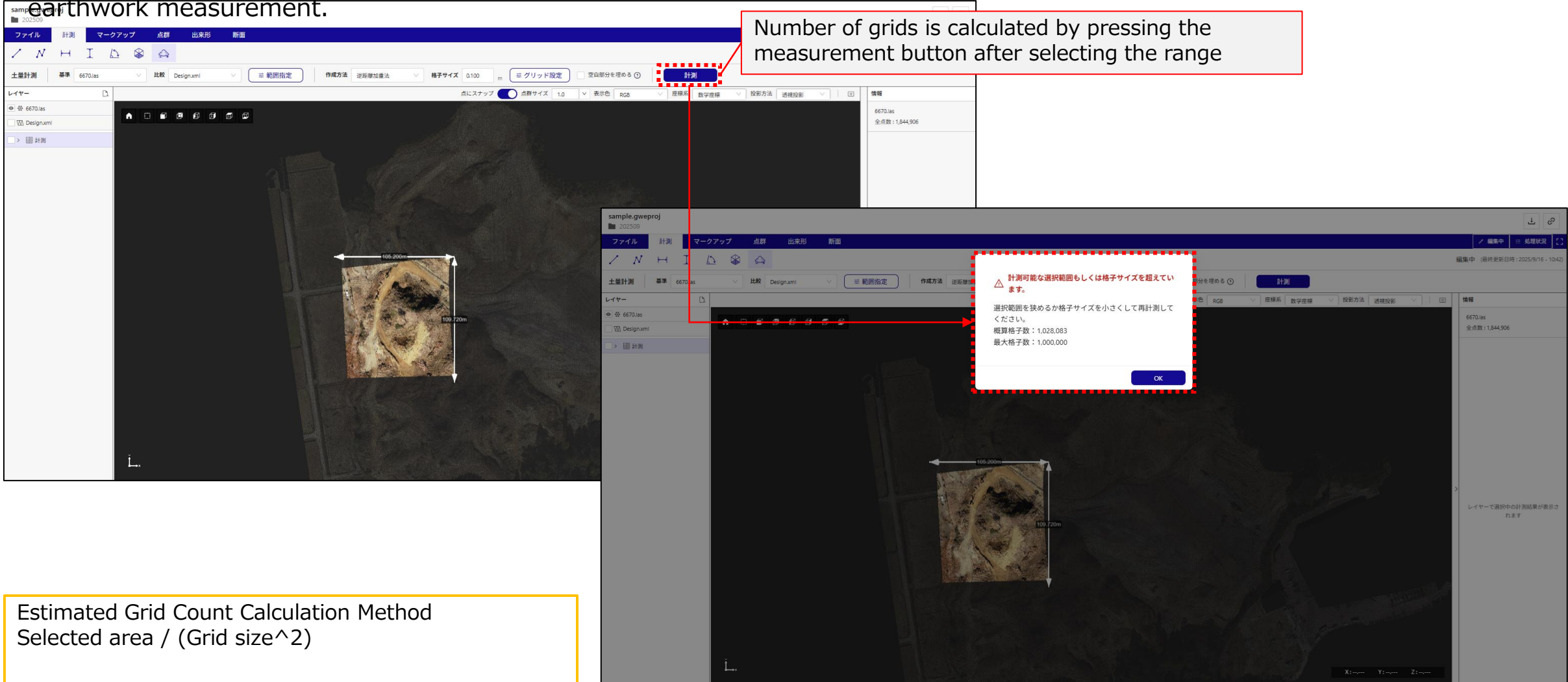
- An alert will now be displayed when the number of grids in the selected range exceeds the upper limit (250,000 grids) during area/volume measurement.

Number of grids is calculated by pressing the measurement button after selecting the range



No.4

- An alert will now be displayed when the number of grids in the selected range exceeds the upper limit (1,000,000 grids) during earthwork measurement.



The screenshot shows the EARTH BRAIN software interface. The top menu bar includes 'ファイル' (File), '計測' (Measurement), 'マークアップ' (Markup), '点群' (Point Cloud), '出来形' (Output Shape), and '断面' (Cross-section). The '計測' (Measurement) menu is active, showing options like '土量計測' (Earthwork Measurement), '基準' (Reference), '比較' (Comparison), 'Design.xml', '範囲指定' (Range Specification), '作成方法' (Creation Method), '逆距離加重法' (Inverse Distance Weighting), '格子サイズ' (Grid Size), 'グリッド設定' (Grid Setting), and '空画部分を埋める' (Fill Empty Areas). The '格子サイズ' (Grid Size) is set to 0.100 m. The '範囲指定' (Range Specification) button is highlighted with a red dashed box. A red arrow points from this button to a text box that says 'Number of grids is calculated by pressing the measurement button after selecting the range'. Below the main interface, a smaller screenshot shows the same interface with a red dashed box around the '計測' (Measurement) button. A red arrow points from this button to a dialog box that displays an alert: '計測可能な選択範囲もしくは格子サイズを超えています。' (The selected range or grid size exceeds the measurable range). The dialog also shows '選択範囲を狭めるか格子サイズを小さくして再計測してください。' (Please narrow the selection range or reduce the grid size and re-measure.) and '概算格子数: 1,028,083' (Estimated grid count: 1,028,083) and '最大格子数: 1,000,000' (Maximum grid count: 1,000,000). The 'OK' button is at the bottom of the dialog.

Number of grids is calculated by pressing the measurement button after selecting the range

Estimated Grid Count Calculation Method

$$\text{Selected area} / (\text{Grid size}^2)$$

