



Android APP Redesign process

UX problems, Resolve ways, main goals.

Content

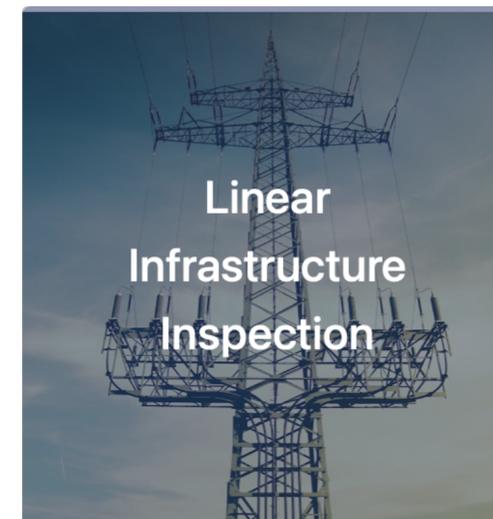
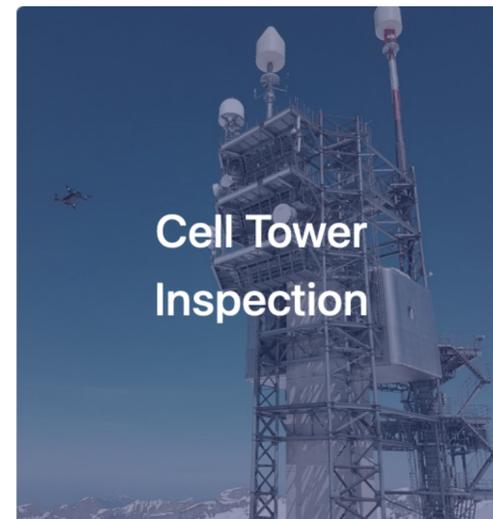
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About company

Drone Harmony is the b2b software Swiss company that gives solutions that automates mission planning in the most challenging vertical inspection scenarios, guaranteeing high quality, reproducible data collection by pilots with minimal training.

DH software offer solutions for such industries:

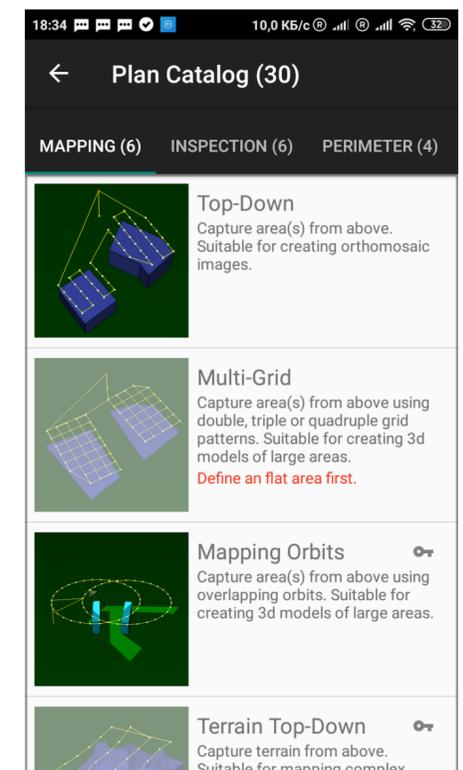
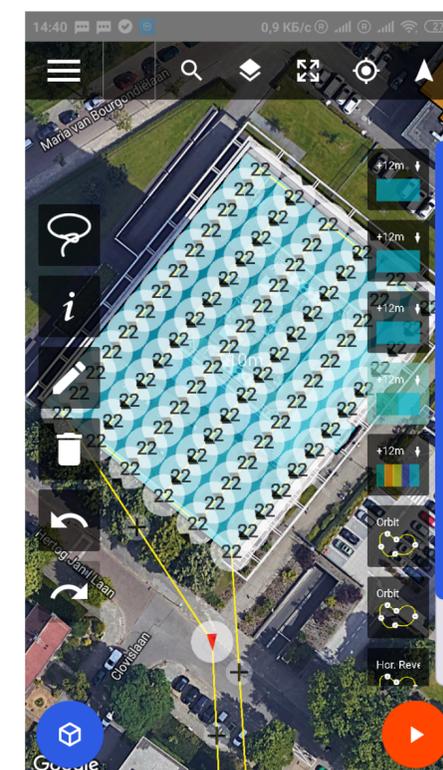
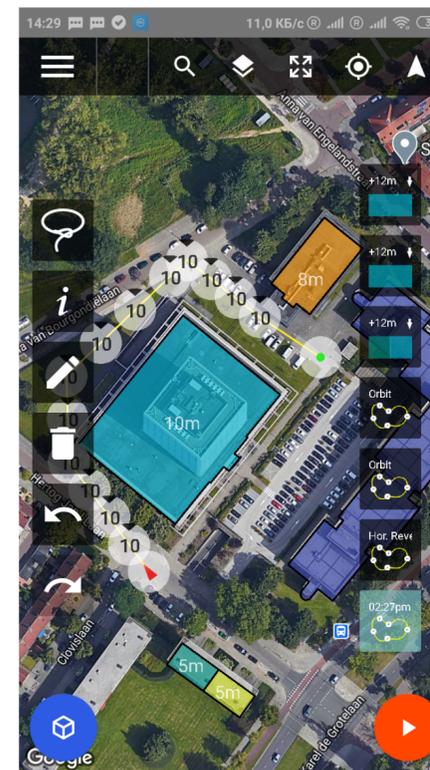
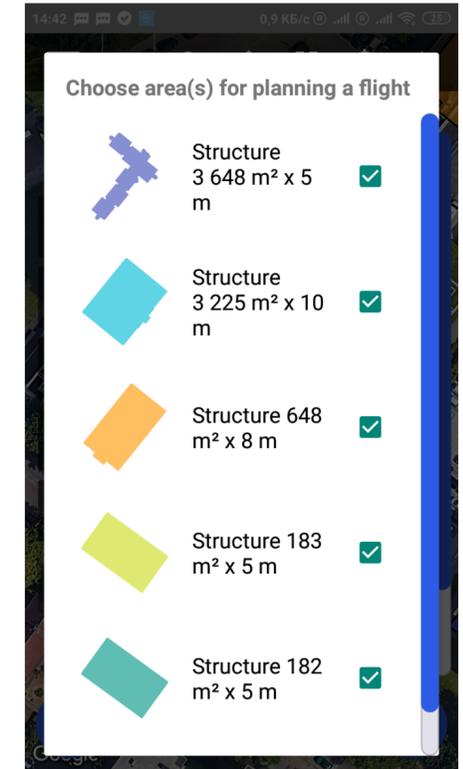
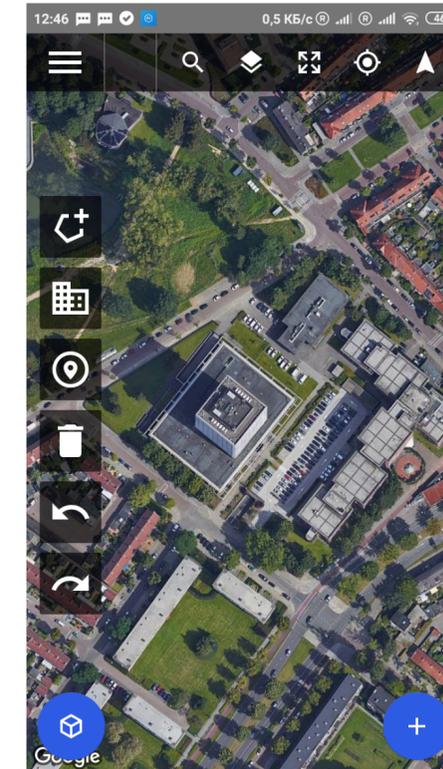
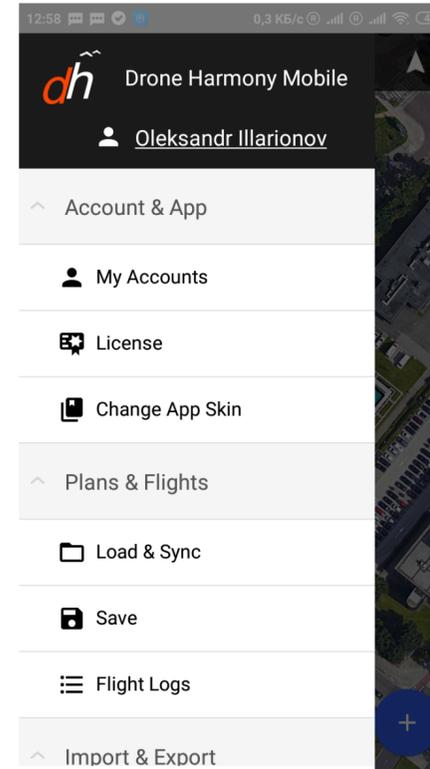
- Industrial inspection
- Terrain mapping
- Cell tower and linear infrastructure inspection



Problem Identification

The application UI is demonstrated on the right side. Based on the provided screenshots, we can identify the core UX problems.

1. Inconsistent UI Elements
2. Information Overload
3. Clarity and Readability
4. Contrast and Legibility
5. Complexity in Navigation
6. Overlapping Elements
7. Discoverability of Features
8. Visual Hierarchy



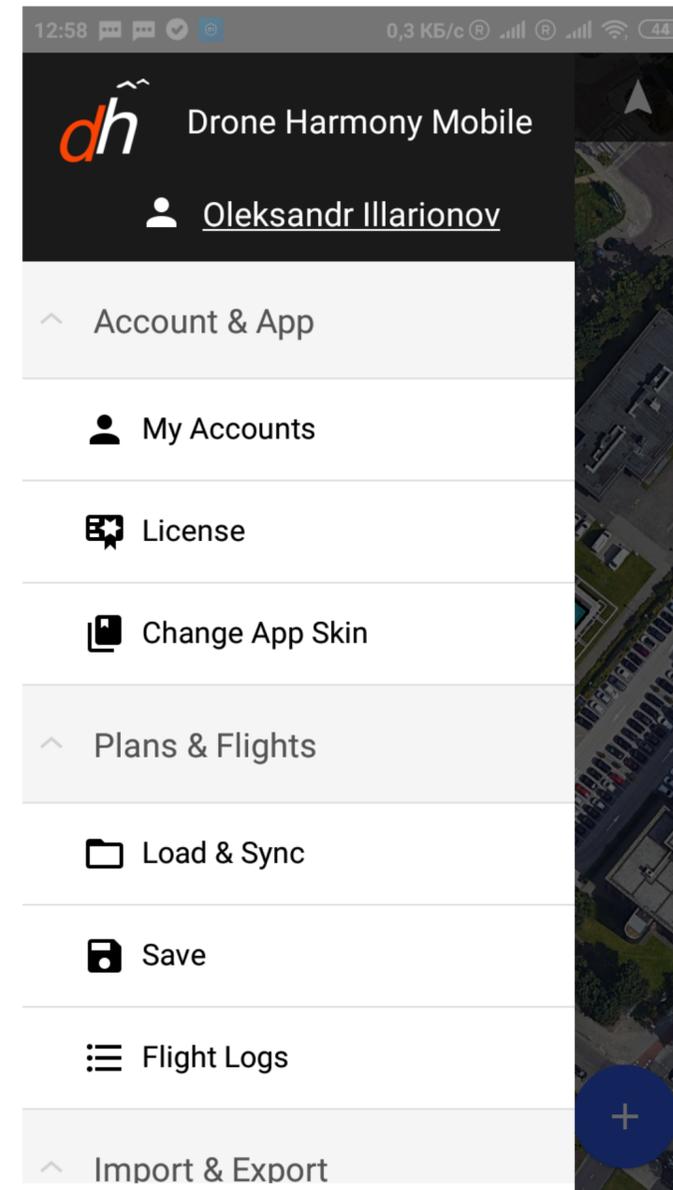
Redesign Process

The redesign process focuses on enhancing the user interface and experience through the introduction of several changes:

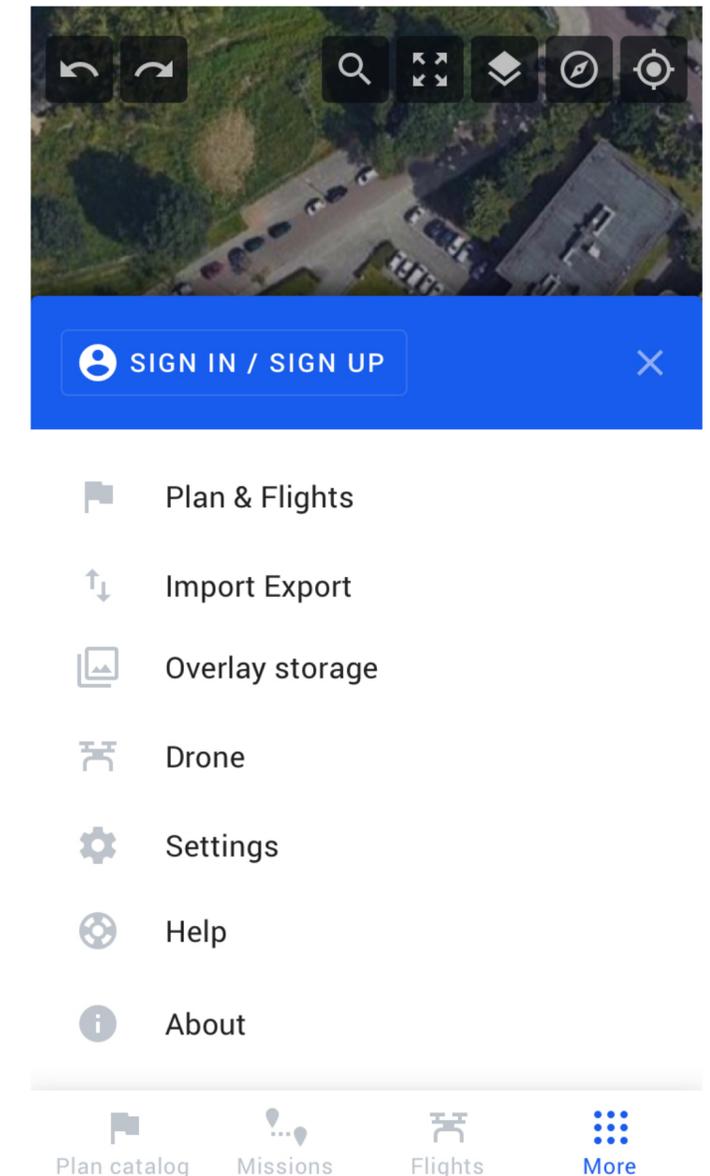
1. **Enhanced Visual Clarity:** Ensuring all elements on the screen are easy to interpret at a glance.
2. **Improved Legibility:** Larger fonts and clearer text enhance readability.
3. **Consistent Iconography:** Unified icons contribute to a more intuitive interface.
4. **Optimized Layout:** Efficient use of space provides a cleaner user experience.
5. **Simplified User Actions:** Reduction in the number of steps needed for common actions.
6. **Consistent Design Language:** A cohesive look and feel across all screens.
7. **Screen Utilization:** Effective display of information without overcrowding the screen.
8. **Menu Structure:** Streamlined for easier navigation.
9. **Color Scheme:** A harmonious palette that enhances usability.
10. **Typography:** Consistent and accessible typeface choices.
11. **Visual Balance:** Even distribution of elements for a harmonious interface.

Navigation

The redesign shown in the "After" screenshot focuses on simplifying and modernizing the user interface. A clear bottom navigation bar has been added, displaying the main application sections. This makes it easy for new users to understand where the main features are in the UI.



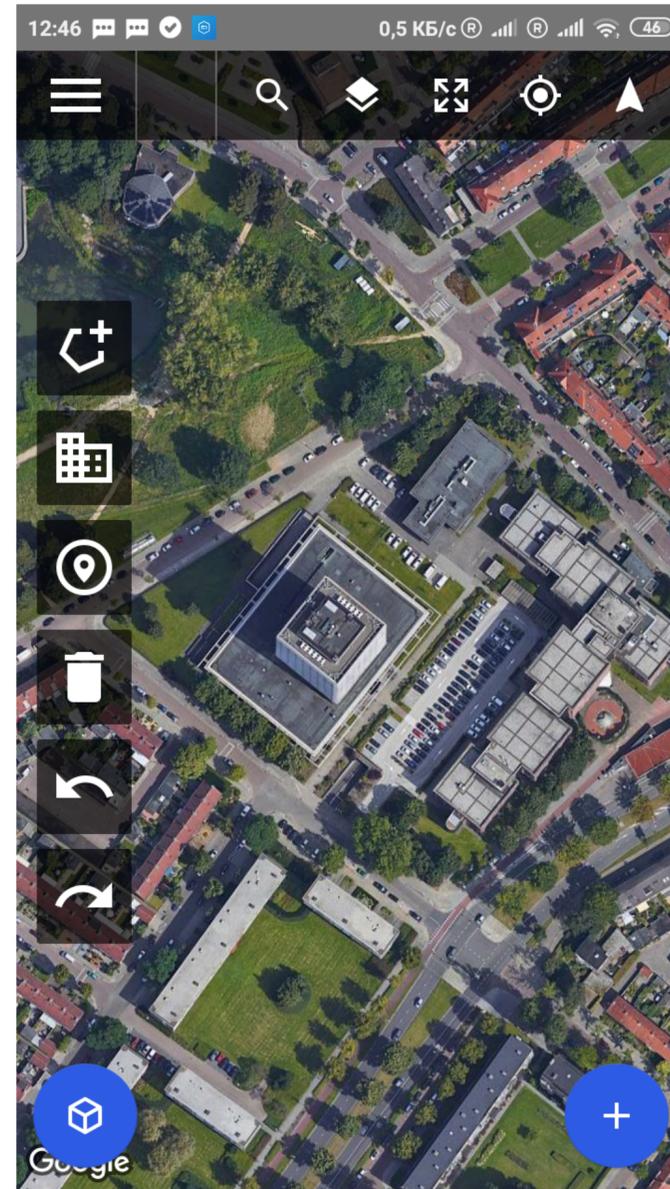
Before



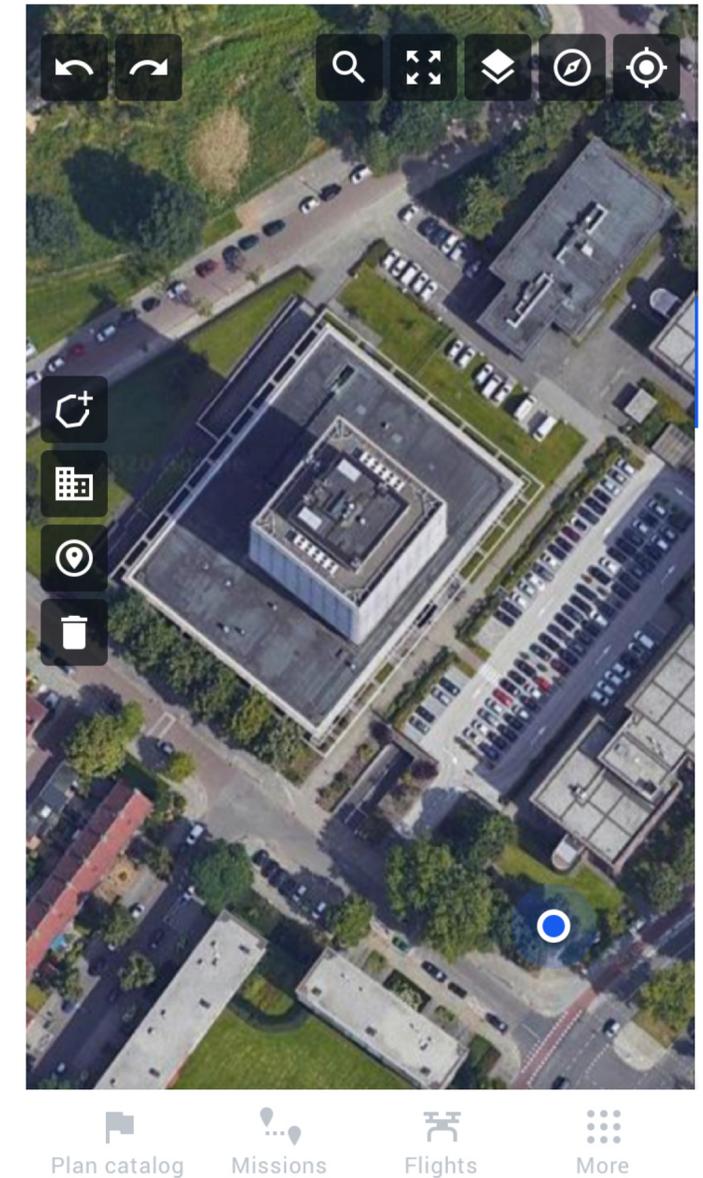
After

Home Screen

The redesign focuses on a more minimalist aesthetic, with attention to navigation ease, visual clarity, and adherence to modern UI design trends. Notable changes include: Simplified Toolbar, Consistent Design Language, Improved Legibility, Brand Consistency



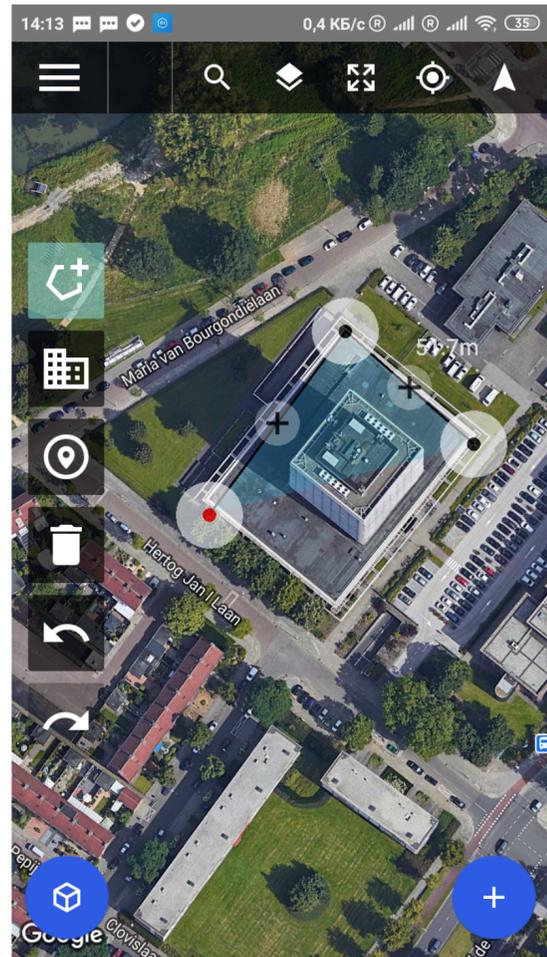
Before



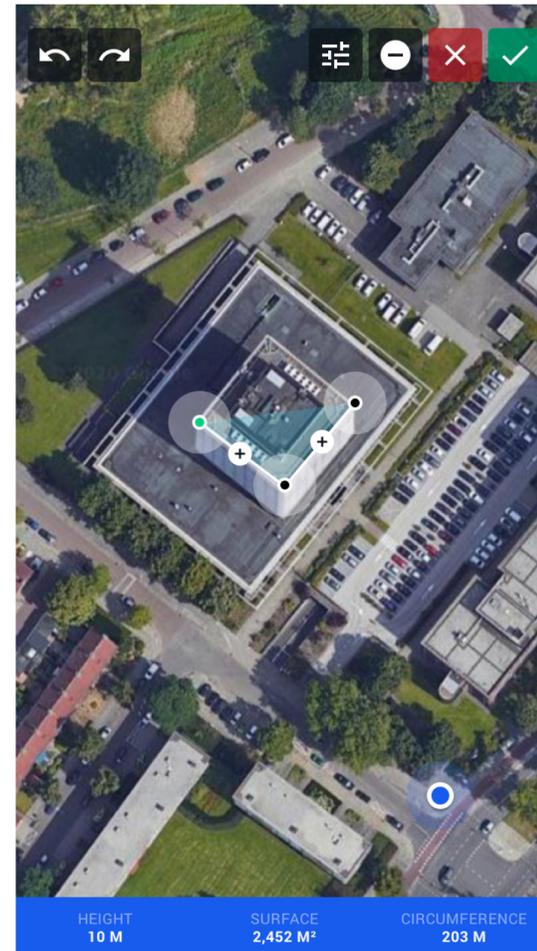
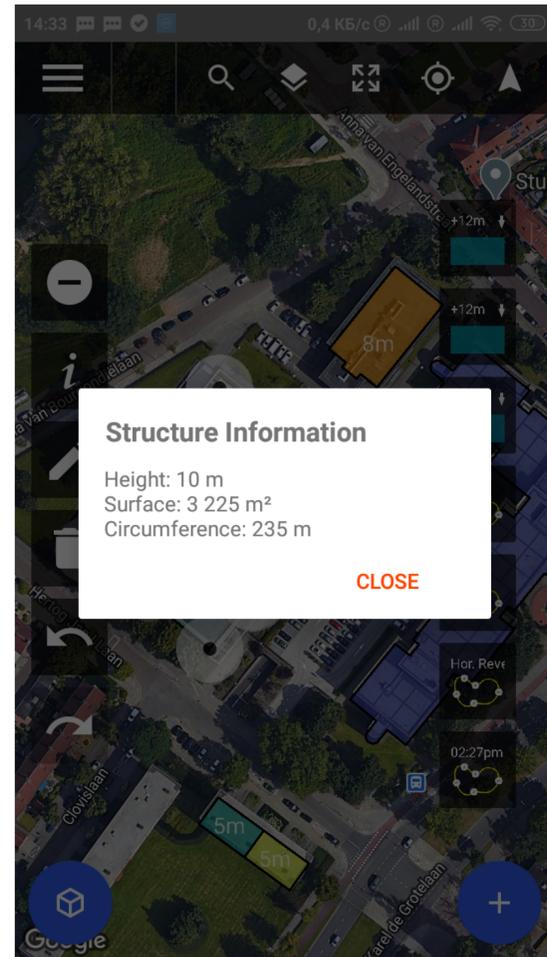
After

Draw area

To improve the drawing mode, I decided to hide all icons that are not needed in this mode, such as 3D mode, map icons, toolbar actions, and app navigations. This approach provides more space for easier interaction with the map. These improvements reflect a thoughtful consideration of information hierarchy, visual design, and user interaction flow, with the aim of delivering a more efficient and aesthetically pleasing user experience.



Before

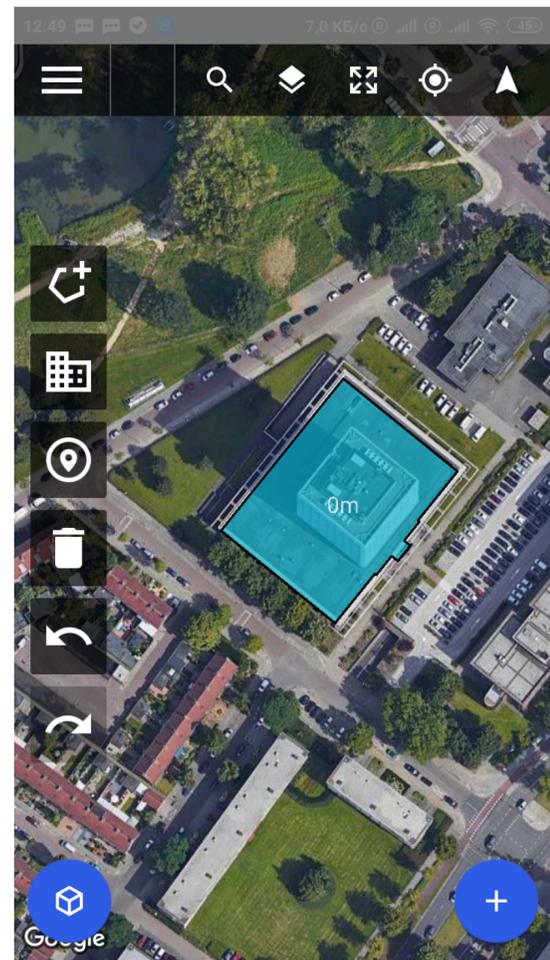


After

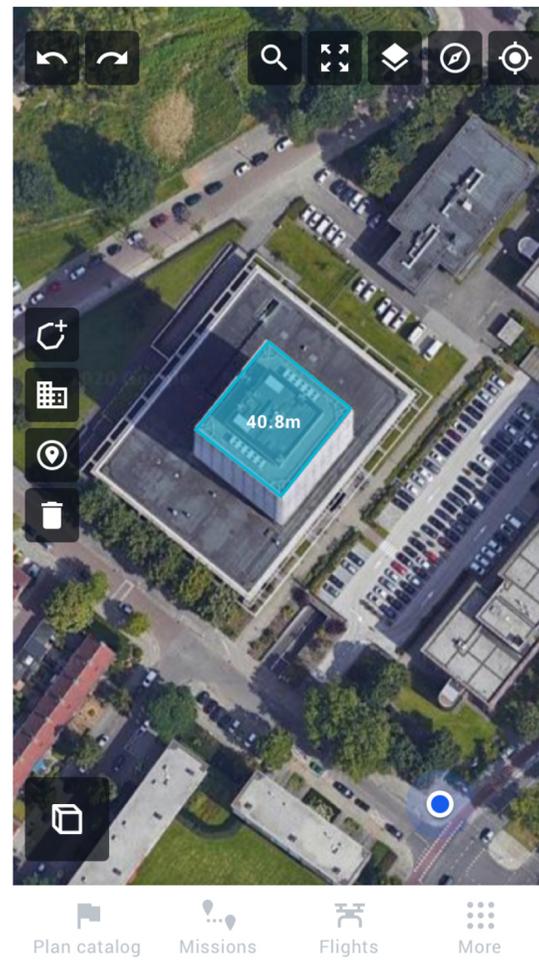
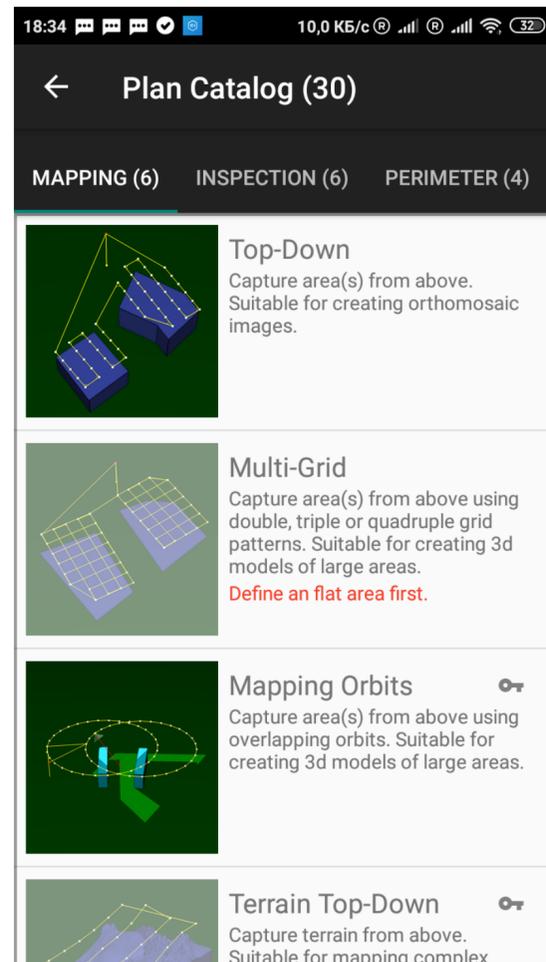


Plan catalog

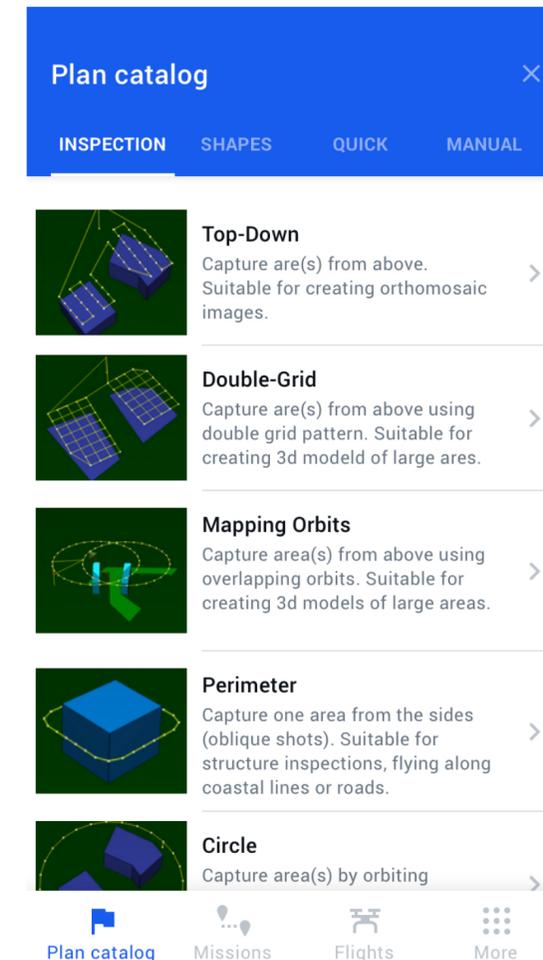
The 'After' screenshots presents a more user-friendly and modern interface for the app, featuring a bottom navigation bar for improved ease of use, a cleaner layout with well-defined visual hierarchy, and modern UI components that conform to current design standards. Readability is enhanced through larger fonts and less clutter, with color coding and distinct icons quickly conveying different flight plan options.



Before



After

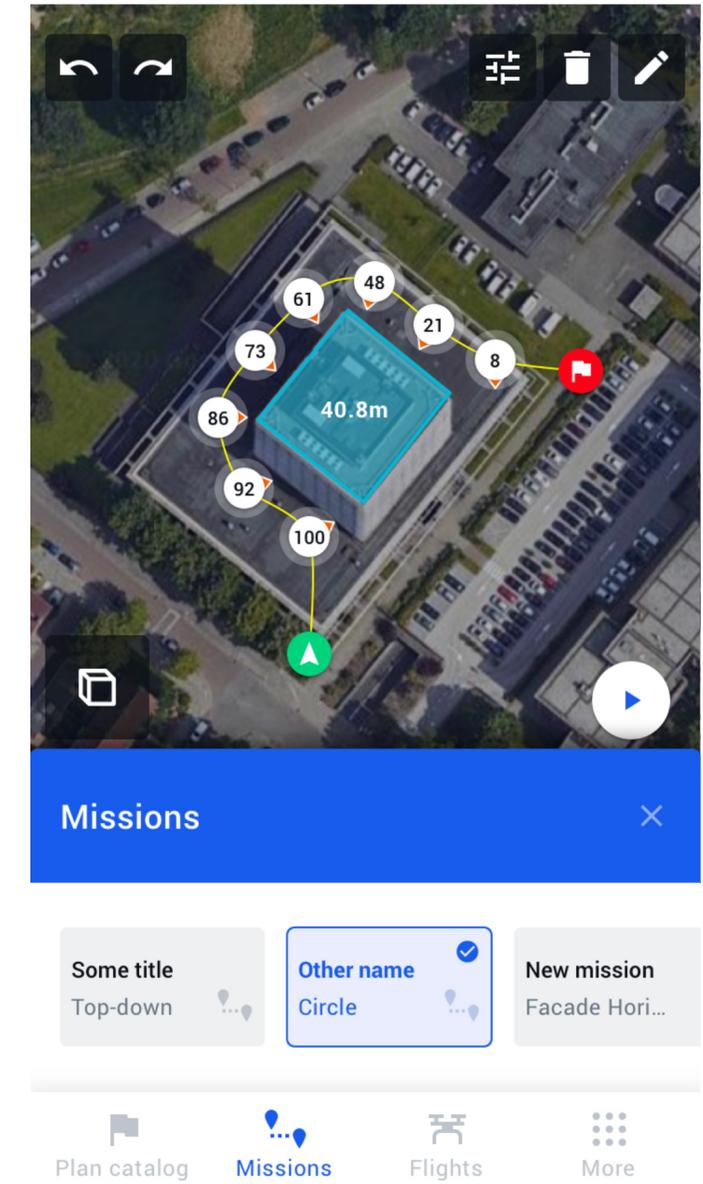


Missions

The visual complexity has been reduced with the elimination of multiple floating action buttons and varying color overlays on the map, replaced by a more subtle and unified color palette. The mission setup appears more intuitive, with each mission stage or waypoint presented in a simplified manner, enhancing readability and the ease of understanding the drone's path and tasks.



Before



After

Summary

The redesigns demonstrate a significant evolution of the app's user interface, with a shift towards a cleaner, more contemporary aesthetic that emphasizes ease of use and functionality.

Key improvements include the introduction of a bottom navigation bar, which streamlines in-app movement and simplifies access to different sections like 'Plan catalog', 'Missions', and 'Flights'. The clutter of overlaid information and multiple action buttons on the map view has been minimized, resulting in a more legible and less distracting user experience. The use of a consistent and restrained color palette, along with the integration of modern UI components such as card-based selection and flat icons, contributes to an intuitive interface that aligns with current mobile design trends.

These changes collectively reflect a thoughtful approach to enhancing user engagement and operational efficiency within the app.