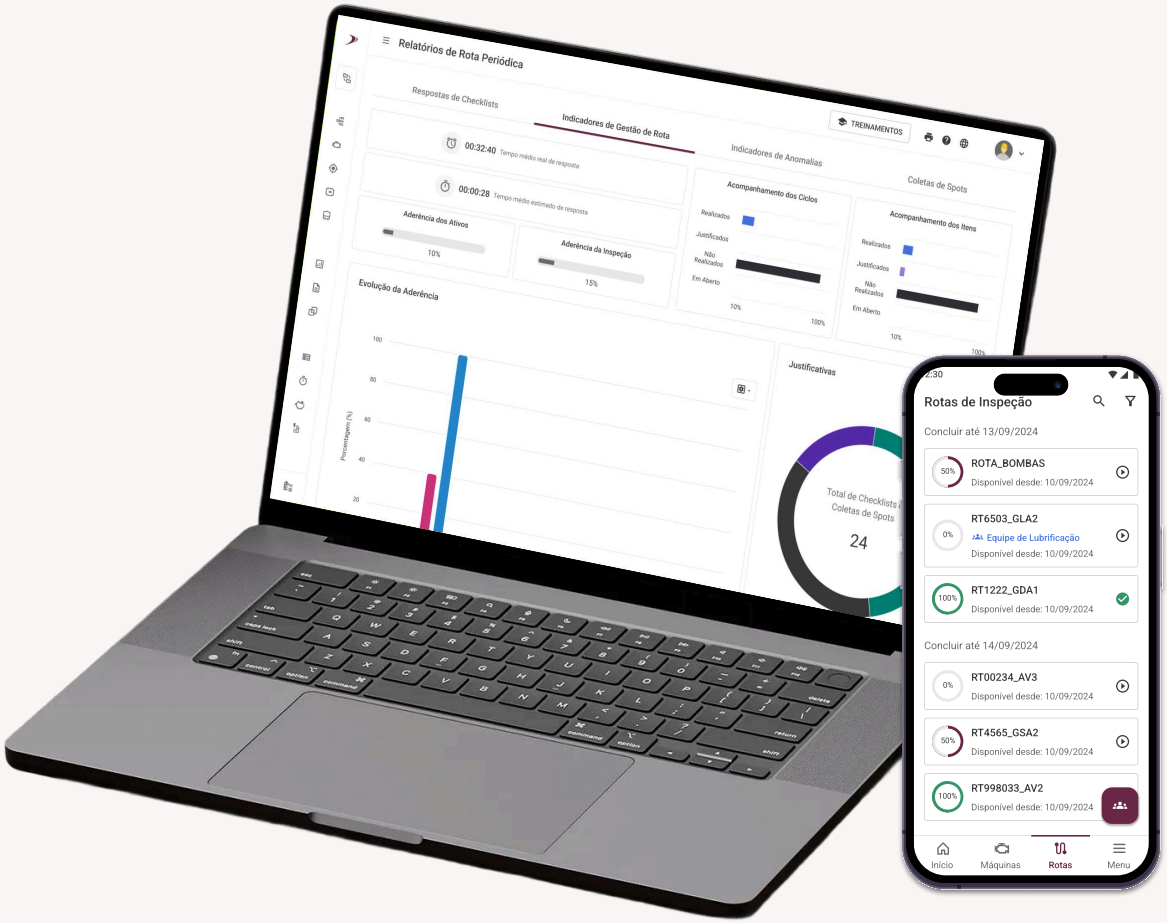
USER MANUAL

DynaSens



Dynamox_s.a | Dynamox | Dynamox.net

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1 Getting started

The Sensitive Inspection solution is a module of the Dynamox Platform focused on managing inspection routes and collecting sensitive data in the field.

The **DynaSens** module (Sensitive Inspection) divides the process into two fronts:

- **Dynamox Platform:** where all **configuration and management** steps are performed, including creating and managing Checklists (Chapter 2), Routes (Chapter 3), and Teams (Chapter 4).
- **Dynamox App:** where the inspector **executes** tasks in the field, filling out checklists and collecting data defined in the routes (Chapter 6).

The following sections describe in detail the screens and functionalities of the Sensitive module within the Dynamox Platform. The information is organized in the side menu under the **Inspection** module.

2 Checklists

Checklists are inspection forms used to record field data in a structured way. On the platform, they help ensure standardized maintenance routines, enabling data collection, alert generation, and supporting decision-making. They can be customized or based on recommended templates and are easily associated with assets.

2.1 Create checklist

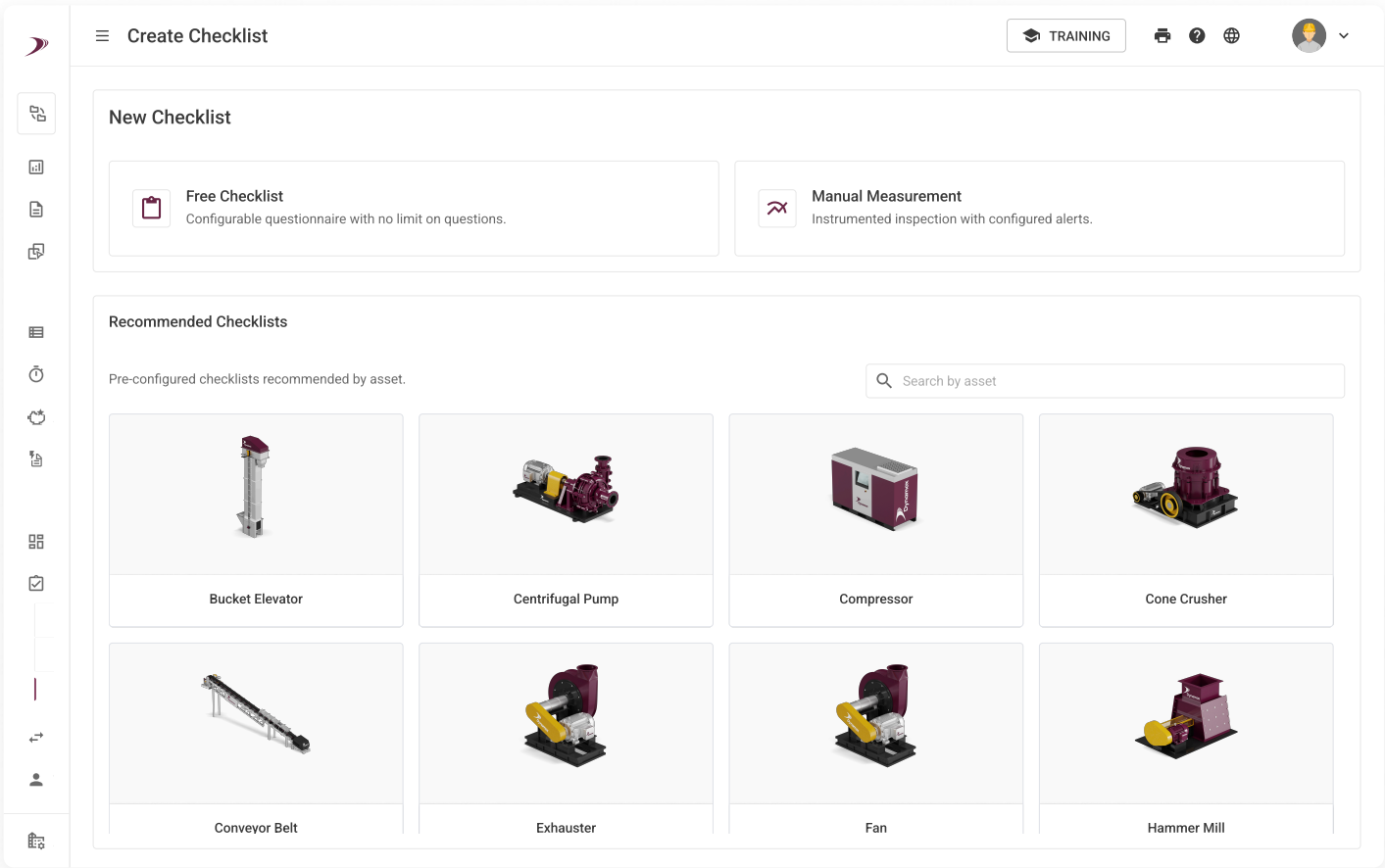
The **Create Checklist** page is dedicated to configuring and managing inspection and maintenance checklists. It offers three main types of checklists, each with specific features to meet different operational needs:

2.1.1 Free checklist

A fully configurable questionnaire with no question limit. Ideal for customized inspections, allowing the user to freely define the items to be checked.

2.1.2 Manual measurement

Designed for instrumented inspections, this type allows configuring alerts based on manually recorded measurements, such as temperature, vibration, or pressure.



2.1.3 Checklist templates

Pre-configured templates based on best practices for each asset type. They facilitate inspection standardization and ensure greater accuracy in data collection.

2.1.4 Creating free checklists or templates

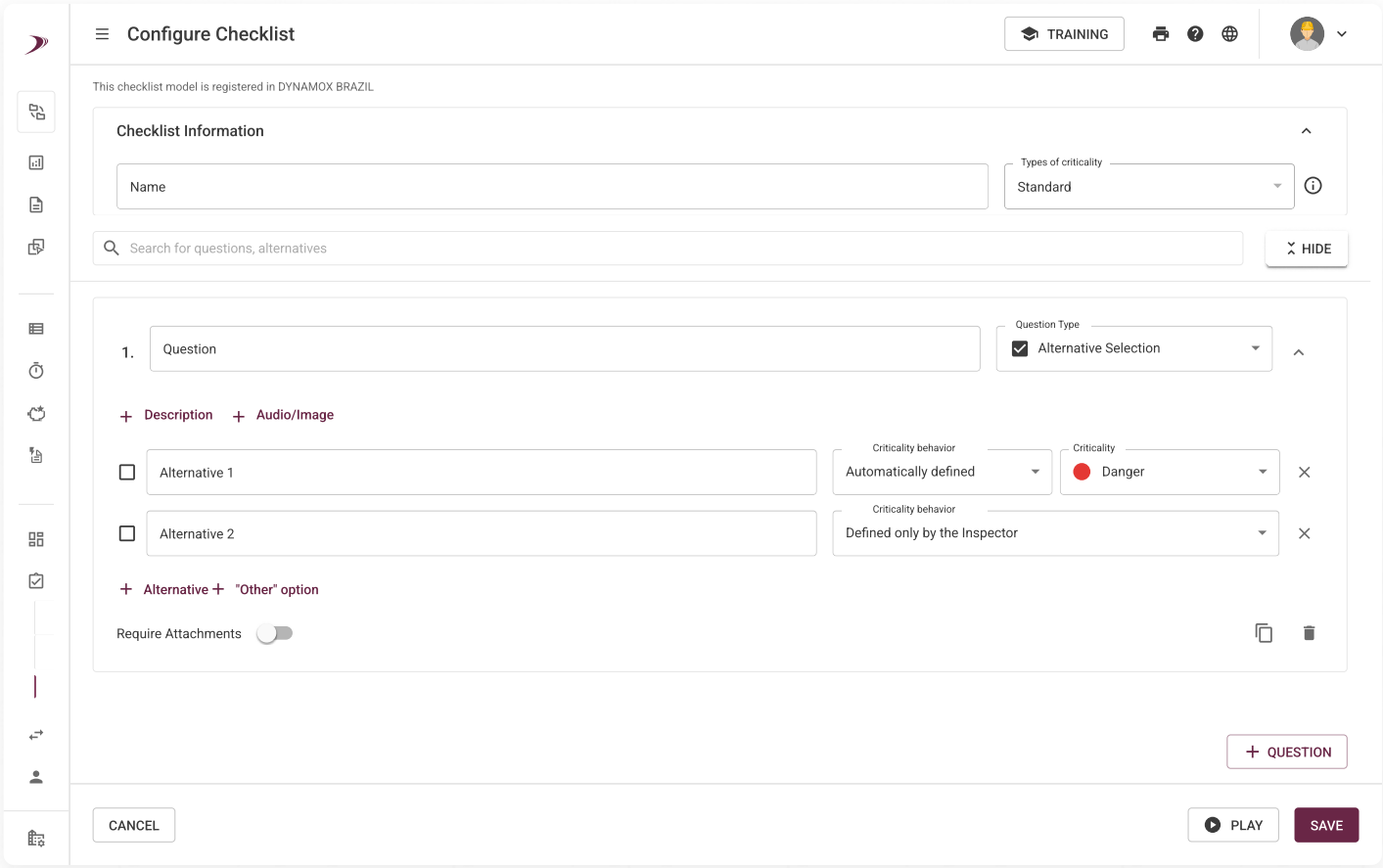
When selecting the type of checklist to be created, the first step is to fill in the main information at the top of the screen:

- **Name:** The title that will identify the checklist
- **Criticality Type:** Defines how criticalities will be handled, which can be **Standard** or **Expert**
- **Description:** An optional field to detail the checklist's purpose

Below, a search bar allows the user to locate specific questions, useful for long checklists. Next to it, the HIDE button collapses all questions to make navigation easier.

To build the form, the user fills in the following fields for each item:

- **Question:** The text of the question to be answered.
- **Question Type:** Defines the response format, which can be **Single Choice, Multiple Choice, or Manual Measurement.**
- **Description and Audio/Image (Optional):** Support fields that provide additional context to the inspector in the field.



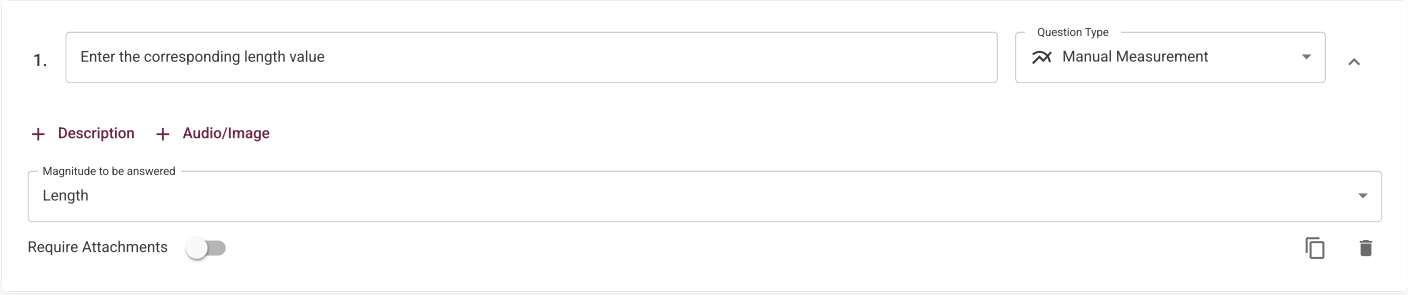
Depending on the selected “Question type”, fields will change:

- **For Single Choice and Multiple Choice:**

– The user must register the **Alternatives** (answers);
– For each alternative, define the **Criticality Behavior** (choosing between “Automatically defined,” “As suggestion,” “Defined only by Inspector,” or “Alternative without criticality”), associating it with **Danger**, **Alert**, or **Normal** levels;
– Additional answers can be added by clicking **+ Alternative** or a fixed free-text option with **+ Option “Other”**.

- **For Manual Measurement:**

– The user must define the **Metric to be answered**, choosing from a list of units (such as acceleration, length, thickness, among many others).



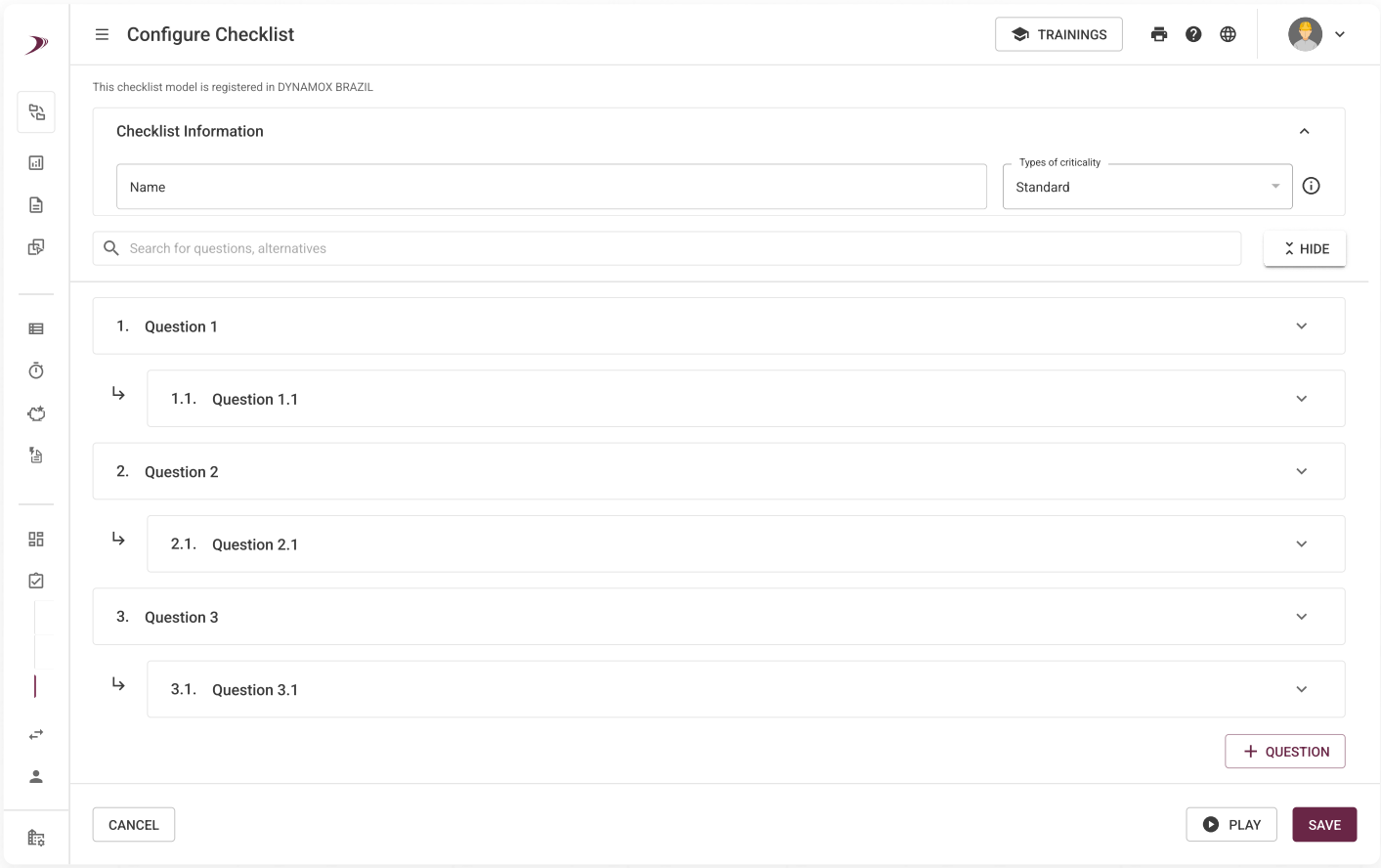
At the end of the question configuration, the user can enable Require attachments to make it mandatory to upload an image, audio, or observation when answering.

To add more questions, click the + QUESTION button and repeat the process as many times as needed.

To make navigation easier across multiple questions, they can be collapsed individually or all at once using the HIDE button.

At any time, the user can click PLAY to preview how the checklist will be displayed.

Once configuration is complete, click SAVE in the bottom-right corner.



2.1.5 Creating a manual measurement checklist

To create a manual measurement checklist, the user must first fill in the **Manual Measurement Checklist Information** at the top of the page. A **Name** is mandatory, and a **Description** is optional.

Unlike the free checklist, this type does not contain questions but rather the configuration of a single measurement. In the **Measure according to** section, the user selects the **Metric** to be measured (such as Length, Thickness, Acceleration, etc.) and the corresponding **Unit** of measurement (such as mm, °C, etc.).

The next step is **Configure alerts**, where the user defines the criticality ranges for the value that will be entered by the inspector. The four limit fields must be filled in:

- **A2 Minimum (Danger)**
- **A1 Minimum (Alert)**
- **A1 Maximum (Alert)**
- **A2 Maximum (Danger)**

It is essential that the values entered follow this progression rule: **A2 Minimum < A1 Minimum < A1 Maximum < A2 Maximum**

As with other checklist types, the user can click PLAY to preview the measurement and must click SAVE in the bottom-right corner to complete creation.

2.2 Manage checklists

The **Manage Checklist** page allows viewing, filtering, editing, and organizing all checklists created on the platform. This area is essential for controlling and maintaining inspection processes, offering features that make searching and managing records easier.

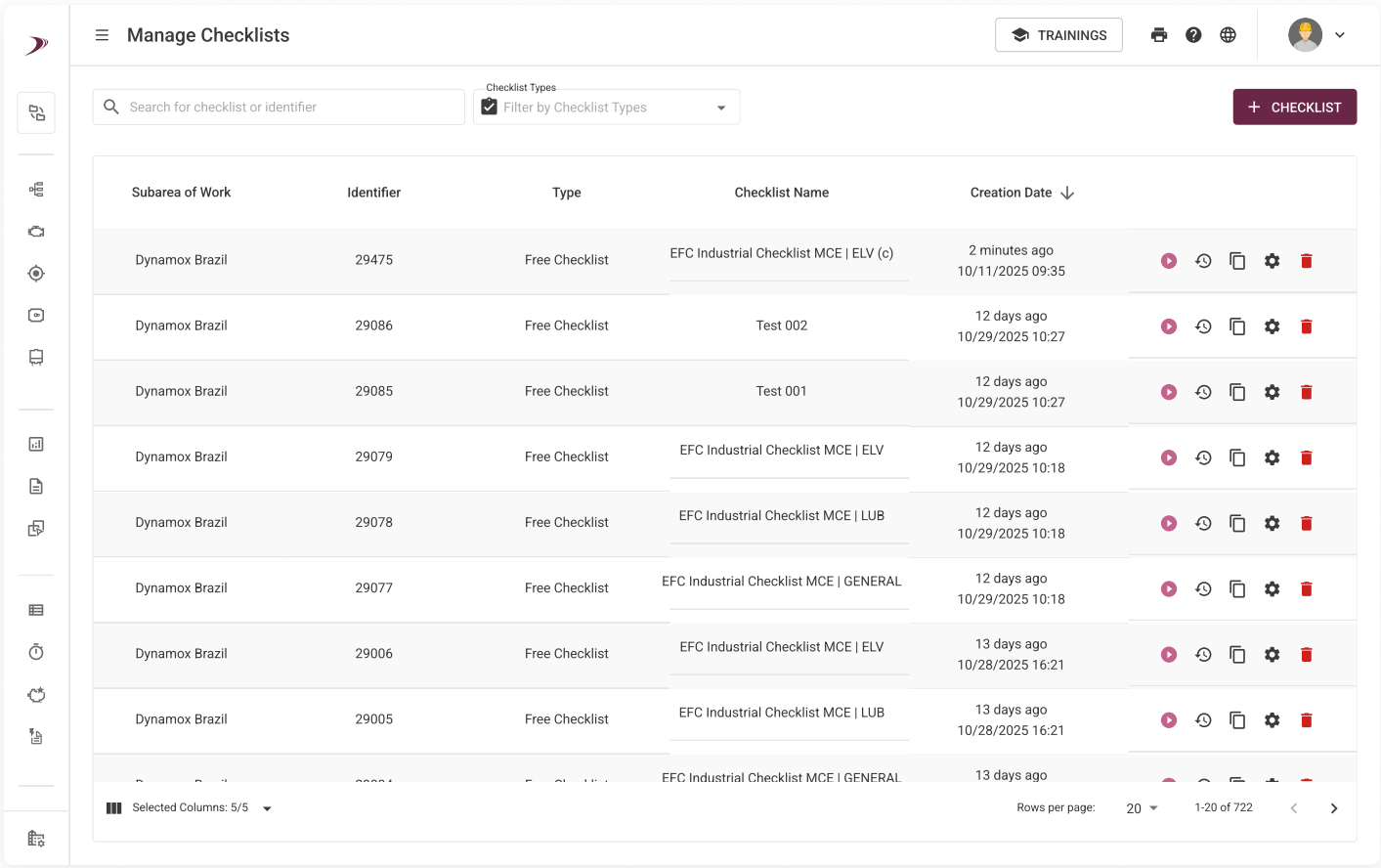
2.2.1 Checklist list

At the top of the page, the user finds actions that help navigate and interact with checklists:

- **Period**:Filter by checklist creation date, useful for locating recent or historical records
- **Search**: Field to search the list by name, identifier, or checklist type
- **Filter by Type**: Allows filtering the list among available types (Free Checklist, Manual Measurement, Recommended)
- **Add Checklist**: Button to start creating a new checklist, redirecting to the configuration page

The list displays checklists in a table format with the following columns:

- **Work Subarea**: Location where the checklist was created
- **Identifier**: Number defined when creating the checklist
- **Type**: Free Checklist, Manual Measurement, Recommended
- **Checklist Name**: Added during checklist creation
- **Creation Date**: Date the checklist was created
- **Actions**: Play, Change History, Duplicate, Edit, and Delete



2.2.2 Edit checklist

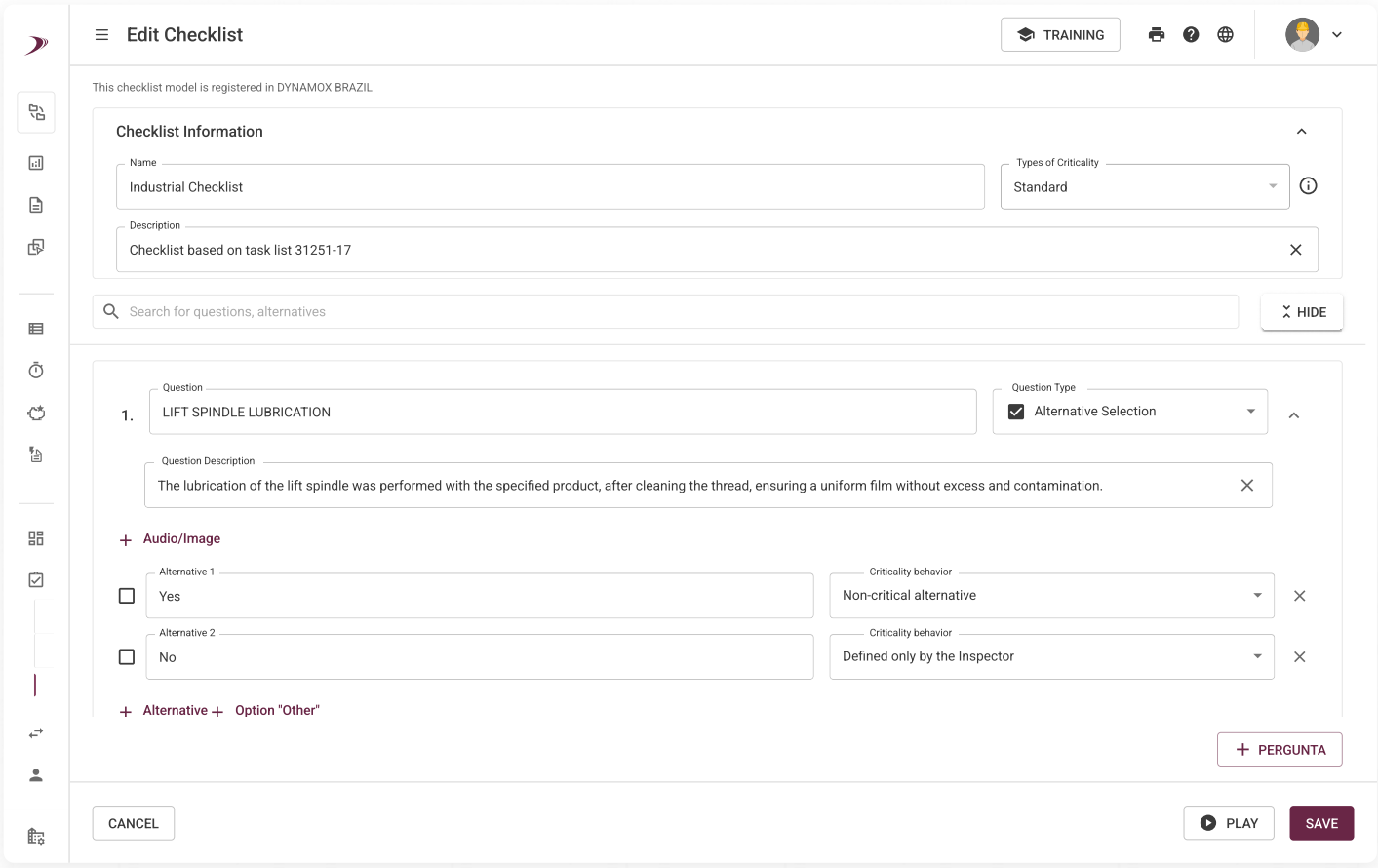
The Edit functionality allows modifying the structure, questions, and parameters of an existing checklist. This feature is essential to keep checklists updated and aligned with operational needs.

The editing flow works as follows:

- **Access the checklist list:** Navigate to the **Manage Checklist** page, where the “Checklist List” is located.
- **Access the edit screen:** In the list, locate and click the checklist row you want to modify or click the ⚙ button in actions.
- **Modify parameters:** Clicking opens the “Edit Checklist” screen (the same interface used in “Configure Checklist” during creation). Here, you can:

– Change questions and answers
– Modify checklist type
– Update alerts and measurement parameters

- After making the desired changes, click SAVE .



2.3 Associate Checklist

The **Associate Checklist** feature allows linking previously created checklists to specific assets within the platform's Asset Tree. This process ensures that inspection procedures are correctly assigned to the right equipment, making execution and tracking easier.

2.3.1 Asset tree

The association flow works as follows:

- **Access Asset Tree:** Navigate to the **Asset Tree** section to view the hierarchical structure of registered assets, organized by work area, subarea, and machines.
- **Select Asset:** Locate the desired asset and click it to open management options, including **Associate Checklist**.
- **Association Screen:** Displays details of the selected checklist, such as:

- Identifier
- Type (Free Checklist, Manual Measurement, Recommended)
- Name
- Description

After clicking Associate, the checklist becomes linked to the asset and can be used in inspection and monitoring routines.

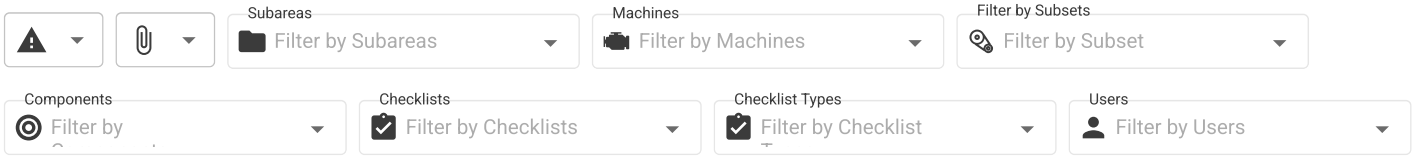
2.4 Checklist reports

The **Checklist Reports** page gathers records generated from inspections performed with checklists associated with assets. This area allows tracking collection results, viewing reports, and exporting information for analysis and decision-making.

2.4.1 Report list

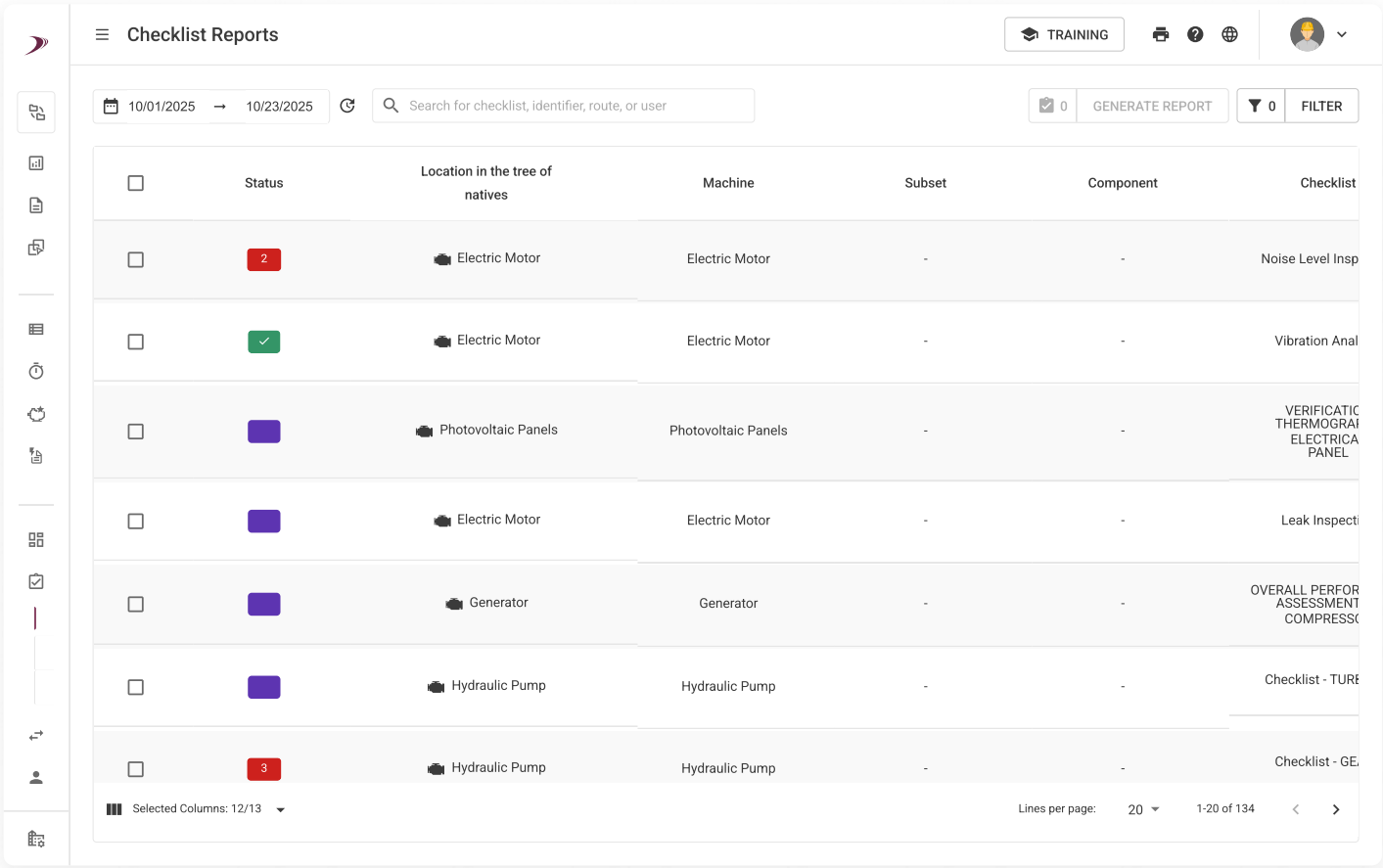
At the top of the page, tools help navigate and locate reports:

- **Search:** Field to search reports by checklist name, asset, or responsible person.
- **Filters:** Refine results by alerts, attachments, subareas, machines, subassemblies, components, checklists, checklist types, and users. The 3 FILTRO button includes a counter showing how many filters are active. Clicking the button displays filter fields.



Reports are displayed in a table format with columns including:

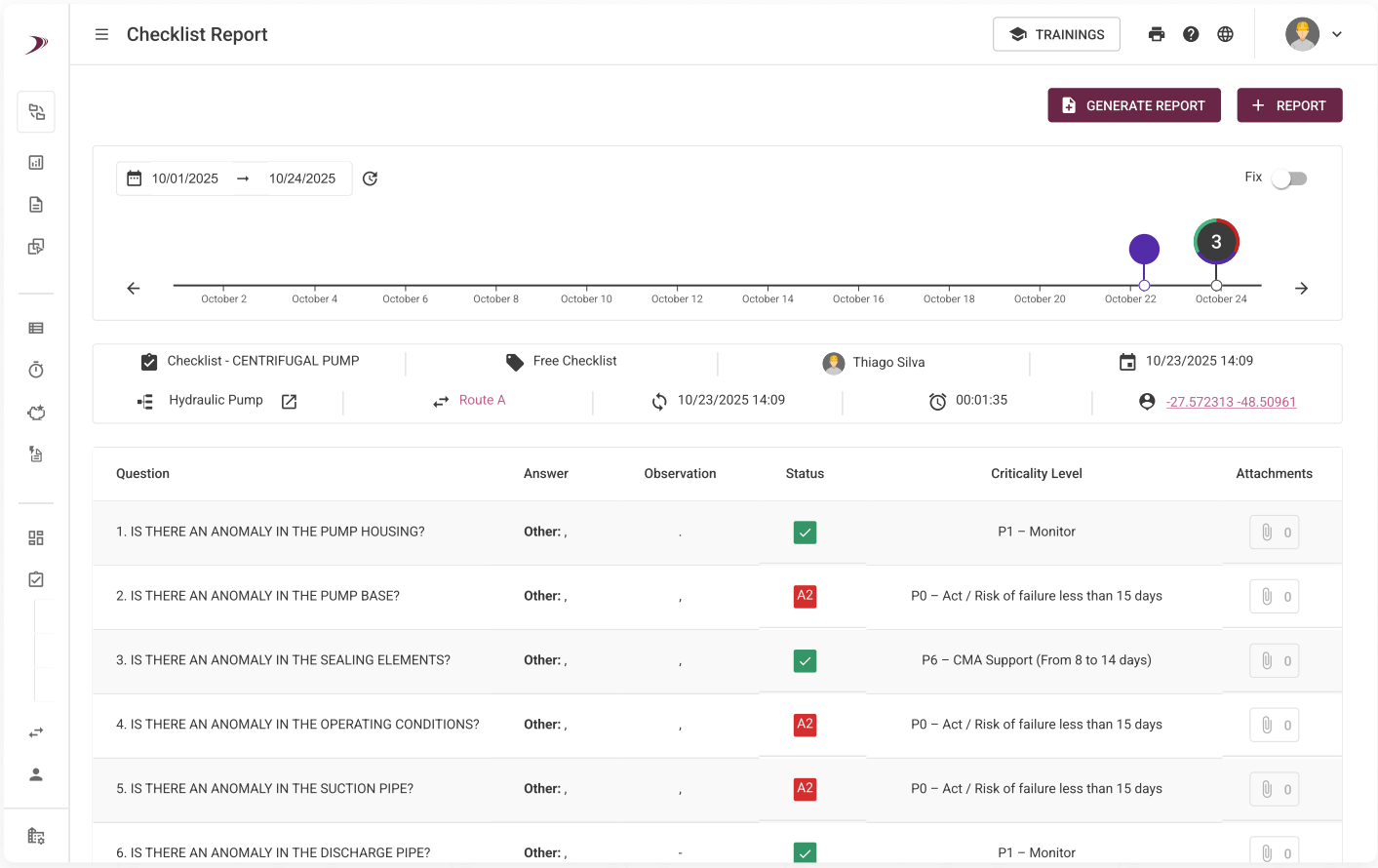
- **Status ;**
- **Location in asset tree ;**
- **Machine, subset, and component;**
- **Checklist name;**
- **Identifier;**
- **Type;**
- **Route where answered;**
- **User;**
- **Response date;**
- **Attachments.**



2.4.2 Checklist report

Clicking an item in the list opens the full inspection report, which includes:

- **Recorded checklist responses;**
- **Measurements performed (if applicable);**
- **Generated alerts;**
- **Inspector observations.**



2.4.2.1 Inspection reports

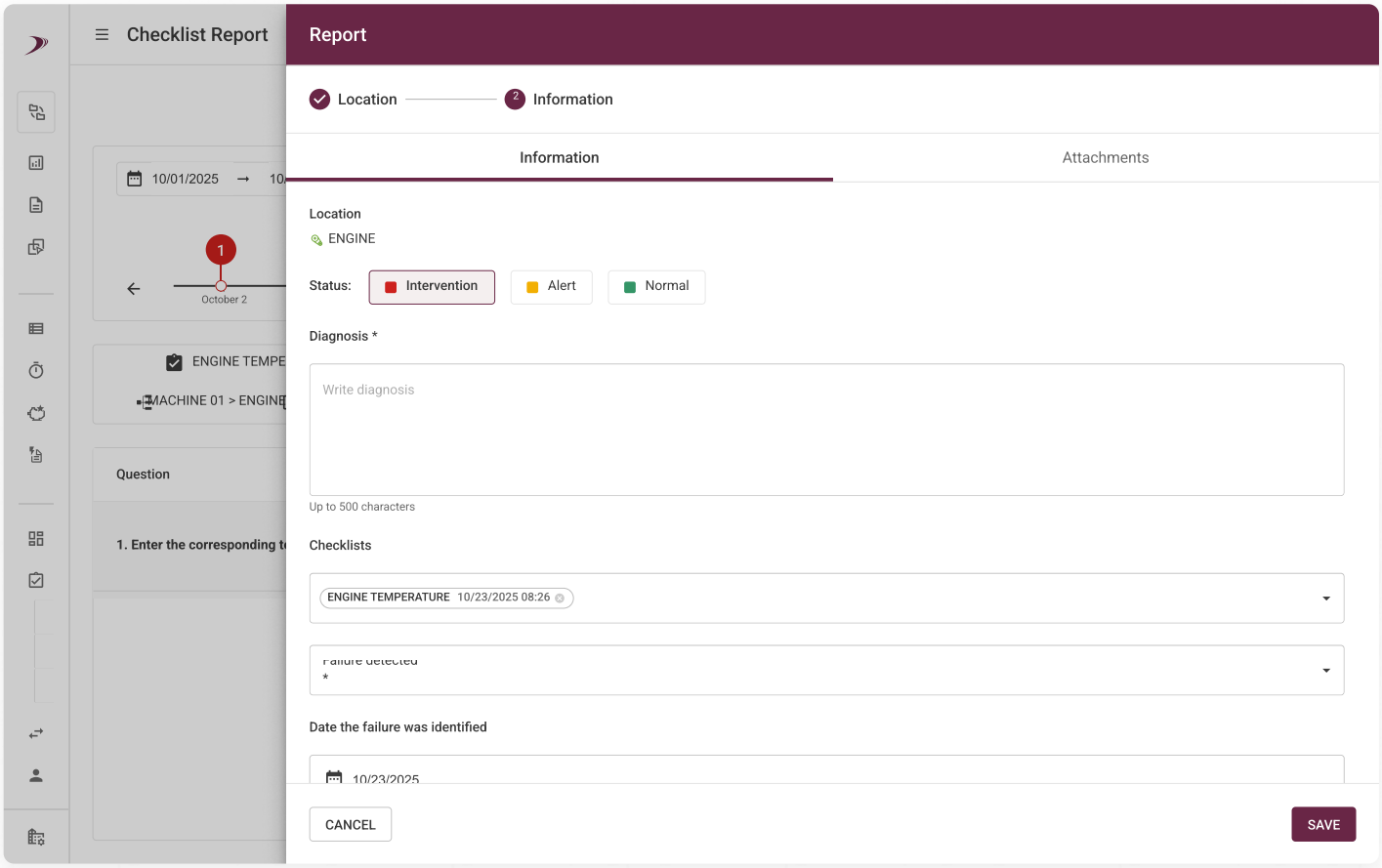
On the Checklist Report screen, in the top-right corner, the user finds the + REPORT button to generate reports for that checklist. Clicking opens a side panel with two tabs: **Information** (to fill in report details) and **Attachments** (to add images or audio, in addition to those already added by the inspector).

In the Information tab, the fields to be filled in are:

- **Status:** Choose between Intervention, Alert, and Normal
- **Diagnosis:** Detail the sensitive diagnosis
- **Checklists (optional):** Pre-filled based on the checklist from which the report was initiated
- Detected Failure: Choose from predefined failures on the platform
- **Failure detection date:** Date field, accompanied by Recommended Action field for a brief description of suggested action
- **Deadline for Recommended Action:** Expected completion date, accompanied by Note Number (optional)
- **Observation:** Field for additional relevant information not covered in other fields

In the Attachments tab, the user can:

- **Add attachments** (valid formats: JPEG, JPG, PNG, M4A, MP4)
- **Remove attachments:** in addition to those added when generating the report, attachments added to the checklist during the inspection can also be removed.
- **Add comments:** include attachments with comments.



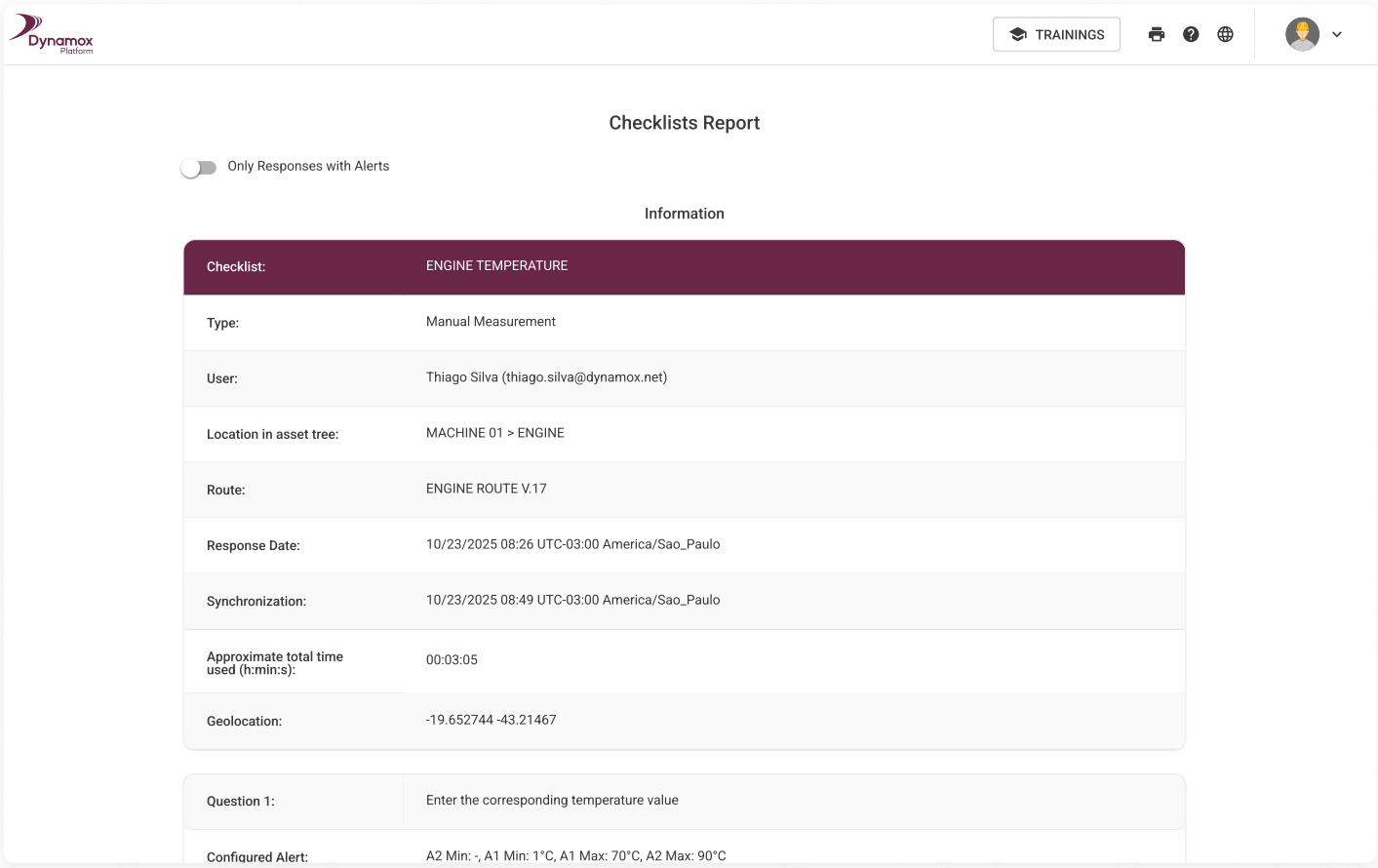
In addition to creating reports from a checklist report on the platform, the inspector can also generate reports directly in the field using the Dynamox App. This feature is typically used to record anomalies or issues found outside a scheduled inspection.

The detailed process for creating reports in the app is described in section **6.2.2.2 Checklists and Reports** of this manual.

2.4.3 Generate report

Clicking the GENERATE REPORT button (located in the top-right corner of the Checklist Report page), generates a new page formatted for printing.

This page consolidates all checklist data into a continuous view, allowing the user to use the in the header's right corner to save a PDF or print the full report.



3 Routes

Routes are the mechanism for planning and executing sensitive inspections. They:

- Group a set of assets and their respective checklists
- **Define the frequency (cycles)** for inspections
- **Assign responsible users or teams** for execution

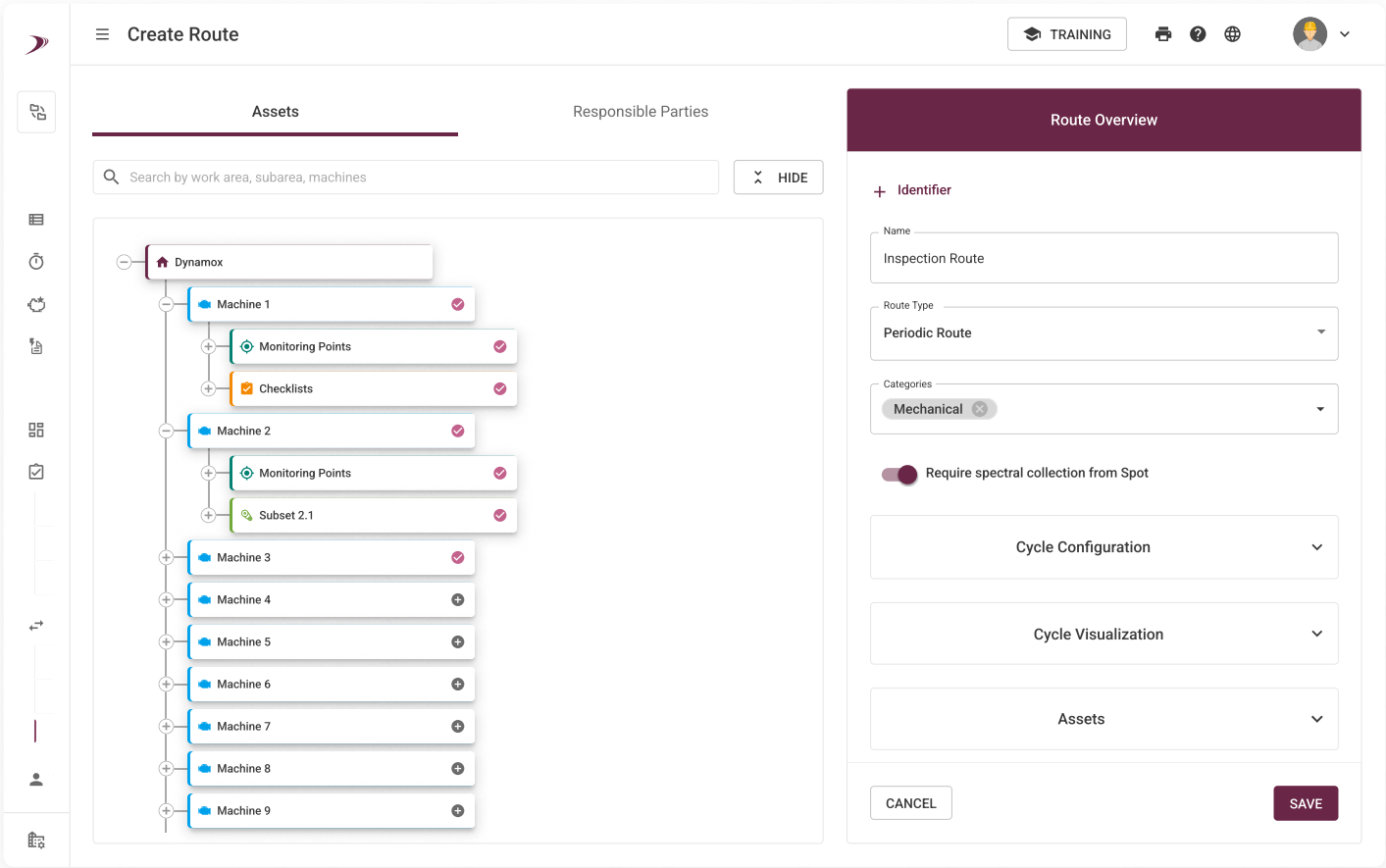
Managing routes is essential to organize maintenance routines and ensure planned inspection coverage.

3.1 Create route

To create a new route, navigate through the side menu to **Routes** in the Inspection module and select the **Create** subpage.

The creation screen is divided into two main sections:

1. **Assets and Responsible Tabs (left):** navigate the Asset Tree to select what will be inspected and search for users or teams to define who will perform the inspection;



2. **Route overview (right):** contains the following route configuration fields:

- **Identificador (opcional):** a code used for internal route control. Its use varies according to each organization's needs.
- **Name:** Main title identifying the route (e.g., "South Wing Pump Inspection")
- **Route Type:** defines how the route will be triggered.
  - **Periodic:** automatic, based on a pre-configured calendar.
  - **Trigger-Based:** manually triggered by the user based on an event.
- **Categories:** tags used to classify, organize, and filter routes (e.g., "Mechanical," "Electrical")
- **Cycle Configuration:** defines route frequency
  - For **Periodic Routes:** set **periodicity (hours, days, months, years), tolerance (time margin for execution),** and **start date.**
  - For **Trigger-Based Routes:** define **trigger type (date, mileage, hour meter, etc.)**
- **Route Cycles ("Cycle Preview"):** a preview area that displays the scheduled dates for upcoming cycles (start date, ideal timing, and end date), based on the rules defined in "Cycle Configuration."
- **Assets:** the list of machines, subassemblies, and checklists to be inspected on this route, selected from the Asset Tree.
- **Responsible parties:** the users or teams assigned to carry out the inspection for this route.

3.1.1 Periodic or trigger-based route

After filling in the basic fields, the next step is to define the **Route Type**, which determines how inspection cycles will be triggered. There are two main types:

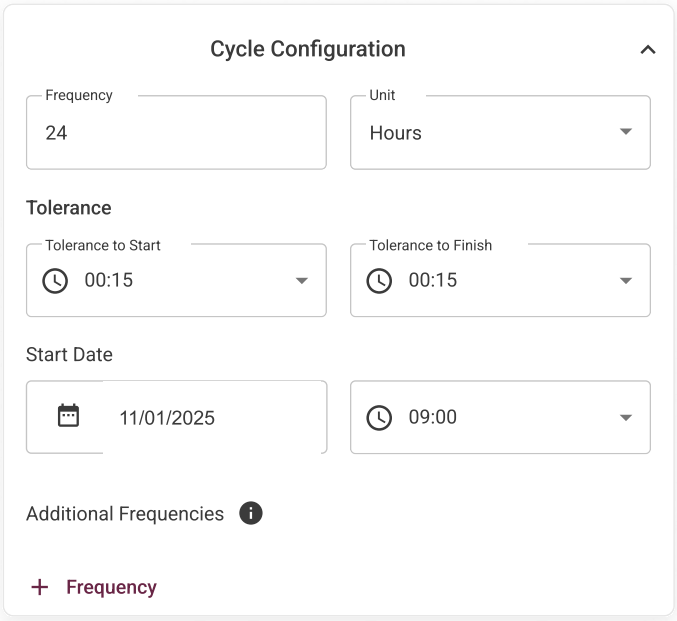
- **Periodic Route:** it has a cycle that repeats automatically based on a desired period (e.g., every 7 days). It is not necessary to manually activate each new cycle.
- **Trigger-Based Route:** each cycle is manually triggered by the user directly on the platform. This type is used for inspections that do not depend on a fixed calendar but on specific events (e.g., a maintenance review or an hour-meter reading).

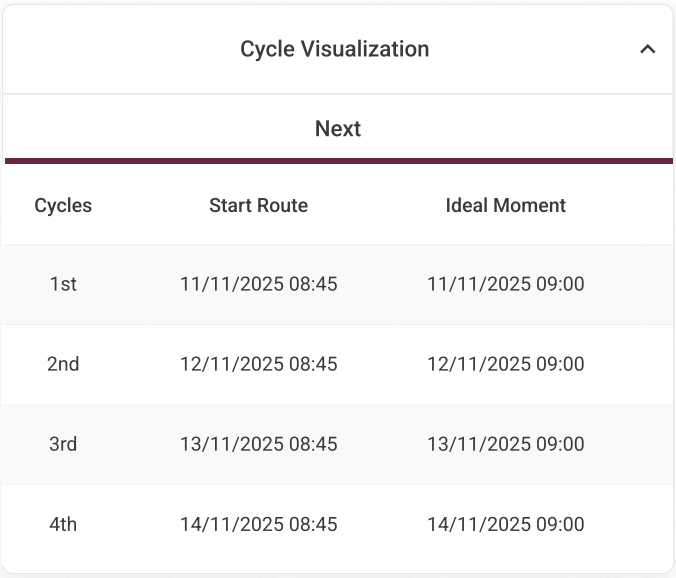
3.1.2 Cycles

After defining the route type, the user must configure the inspection cycles.

1. **For Periodic Routes:** cycle configuration is calendar-based and requires the following parameters:

- **Unit and Frequency:** defines the base frequency of the cycle (e.g., 3 days, 1 month, 6 hours).
- **Tolerance:** defines a time margin (in **percentage %** or in a **fixed unit** such as "days"). This margin determines how early the user can start the route before the ideal moment and how late they can finish it afterward.
- **Start date:** the date when the first cycle of the route will begin.
- **Additional frequencies (optional):** allows adding extra inspection frequencies within the same route. The additional frequency must be a multiple of the base frequency (e.g., a base route of 3 days can have an additional frequency of 6 or 9 days).





2. **For Trigger-Based Routes:** configuration is based on manual triggers. The user must select the **Trigger Type**:

- **Date**: defines a period (days, months, years) and the exact start and end dates of the cycle.
- **Mileage**: the cycle is triggered based on a defined number of kilometers.
- **Hour Meter**: the cycle is triggered based on a defined number of operating hours.
- **Review / Other**: allows adding a free-text description field to detail the reason for the trigger for the inspector.

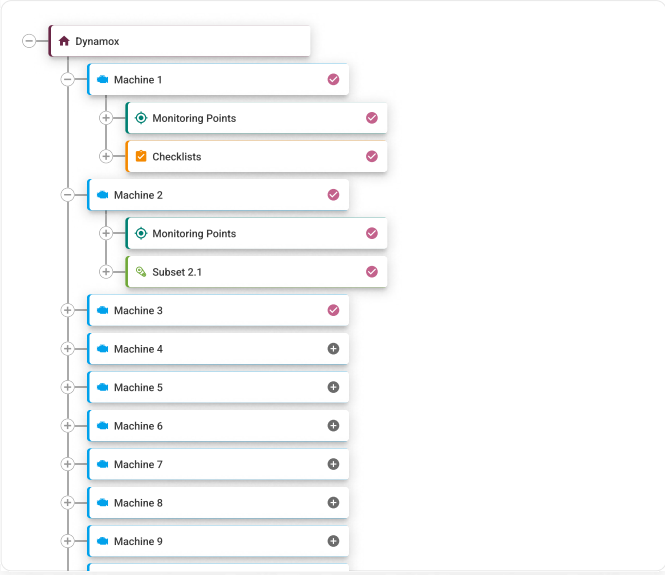
3. **Cycle Preview:** in this section, the platform displays a preview of how cycles will be scheduled:

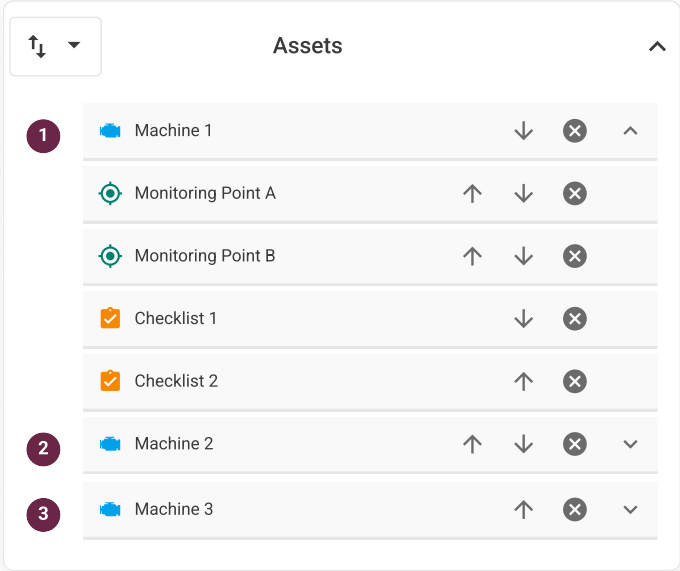
- For **Periodic Routes**, upcoming cycles are shown with columns: **Start Route (start of tolerance)**, **Ideal Moment (base date)**, and **End Route (end of tolerance)**.
- For **Trigger-Based Routes**, only the single cycle being configured is displayed, with start and end dates.

3.1.3 Asset and assignee association

1. **Asset Association:** in the **Assets** tab (on the left), the user navigates through the Asset Tree to select what will be inspected.

- Association is made at the **Machine** level. If the user selects a child item (such as a subset, spot, or checklist), the platform automatically associates the entire parent machine to the route.
- After association, assets appear in the "Associated Assets" section. The user can change the inspection order of machines using the arrows.
- It is possible to expand the machine in the list to view its internal checklists. In this view, the user can reorder checklists or remove specific checklists/subsets (this removal affects only this route, not the asset registration).





2. **Responsible Association:** in the **Responsible** tab, the user can assign the route in two ways:

- **Users:** Allows searching and selecting individual users one by one.
- **Teams:** Allows selecting a pre-configured team. When selecting a team, it is mandatory to define a **Main Responsible** among the members.



If the desired team does not exist, the user can click **"Configure Team"**. A side panel will open, allowing the creation of a new team (by defining a name and adding users) without leaving the route creation screen.

After filling in all fields, the user must click SAVE to create the route.

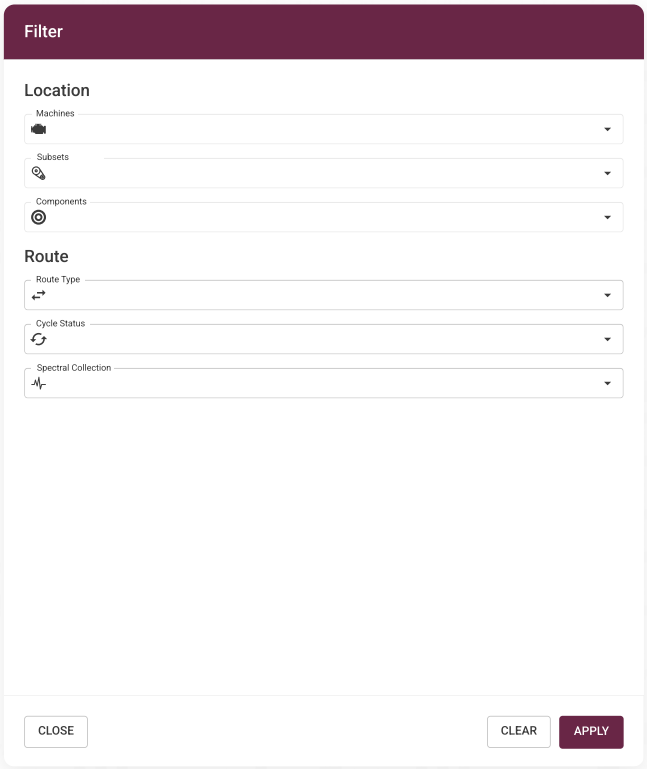
3.2 Manage routes

The **Manage Routes** page allows viewing, filtering, editing, and organizing all routes created on the platform. It is the control center for managing all inspection plans.

3.2.1 Route list

At the top of the page, the user finds actions that help navigate and interact with the route list:

- **Search: field to search the list by Identifier, Route (name), Main Responsible, or Team.**
- **Filters:** Button that opens a side panel to filter the list by:
  - **Location**: Machines, Subsets, Components
  - **Route**: Route type, Cycle status, Spectral collection



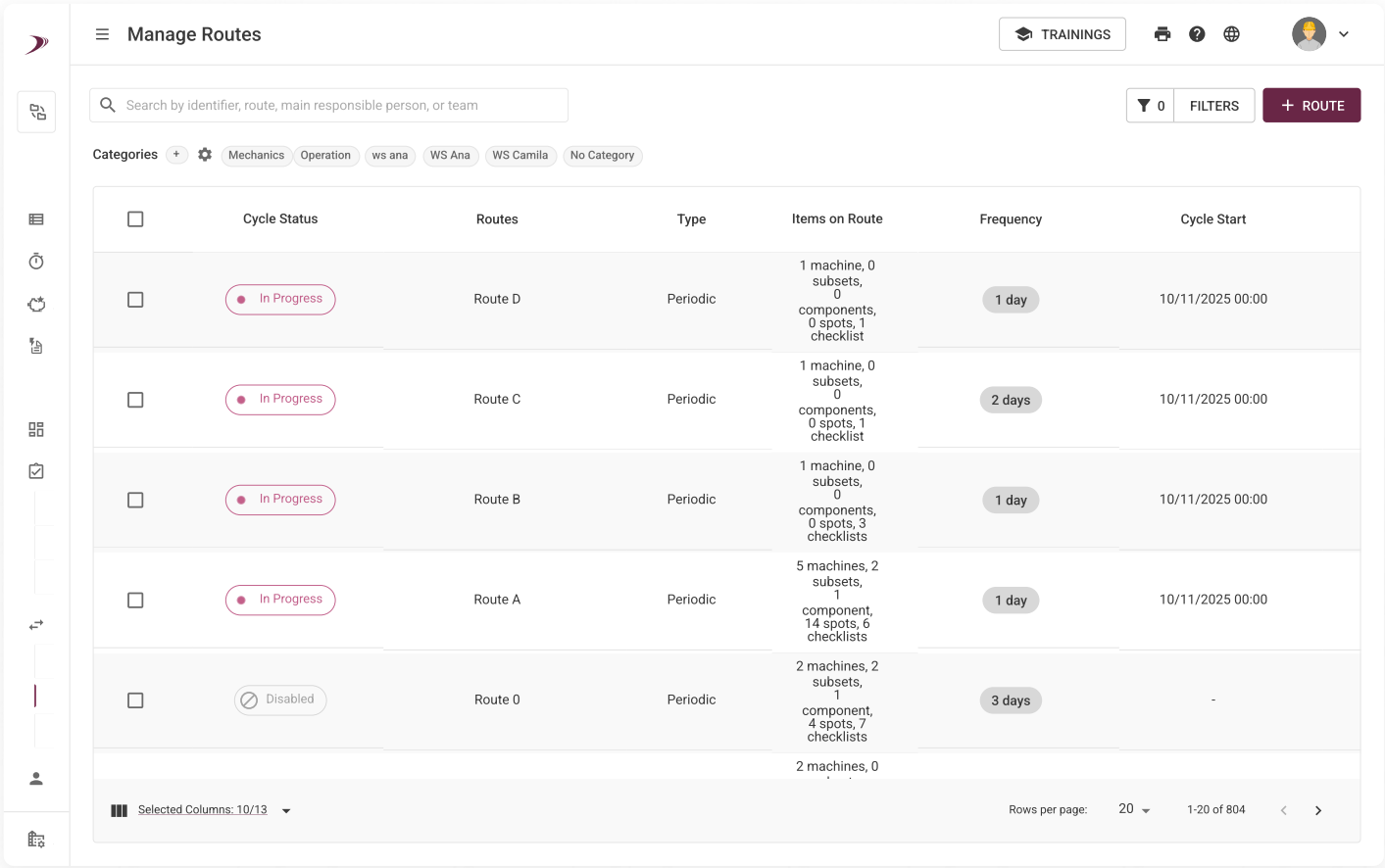
- **Add Route:** button + ROUTE that redirects to the "Create Route" page (described in section 3.1).
- **Categories:** quick filter tabs that allow dynamically filtering the list based on defined categories.

To add a new custom category, the user must click the + button. A side panel (Add Category) will open, where the user fills in the **Category Title** field and clicks SALVAR .

The main list displays all routes in a table format. The columns are:

- **Select All:** checkbox to quickly select all visible routes
- **Cycle Status:** indicates the current condition of the cycle (e.g., Waiting, In Progress, Disabled, Completed)
- **Route Name:** the name defined during creation
- **Route Type:** the configured route type
- **Items in Route:** details the route composition (Machines, Subsets, Components, Spots, and Checklists)
- **Frequency:** cycle frequency
- **Cycle Start:** start date of the current cycle
- **Ideal Moment:** ideal execution date based on frequency
- **Cycle End:** deadline for completing the current cycle
- **Main Responsible:** assigned user or team
- **Created on:** route creation date
- **Actions:** column with icons for individual route management. Available actions:

– **View History:** opens a panel showing the route's change history (who made changes and when).
– **Duplicate Route:** creates a new route using the selected route as a base.
– **Edit Route:** redirects to the Route Editing screen.
– **Activate/Deactivate Route:** a switch that activates or deactivates the route.



3.2.2 Edit route

By clicking anywhere on a route's row in the list, or on the ⚙ button in the Actions column, the user is redirected to the Route Editing screen.

This screen is identical to the "Create Route" screen, but focused on editing. In it, the user can:

- **Edit Fields:** modify the name, type, categories, and reconfigure cycles;
- **Adjust Assets and Responsible Users:** add or remove assets, checklists, and responsible users;
- **Delete Route:** a DELETE button is available at the bottom of the screen to permanently remove the route;
- **Save Changes:** after editing, the user must click SAVE to apply the changes.

> ⓘ Caution! Changes made to routes with an open cycle may cause data loss or adherence inconsistencies.

3.3 Route reports

The **Route Reports** page centralizes all records generated from inspection execution on the platform. This area allows users to track adherence (progress), view anomalies, and analyze data collected in the field.

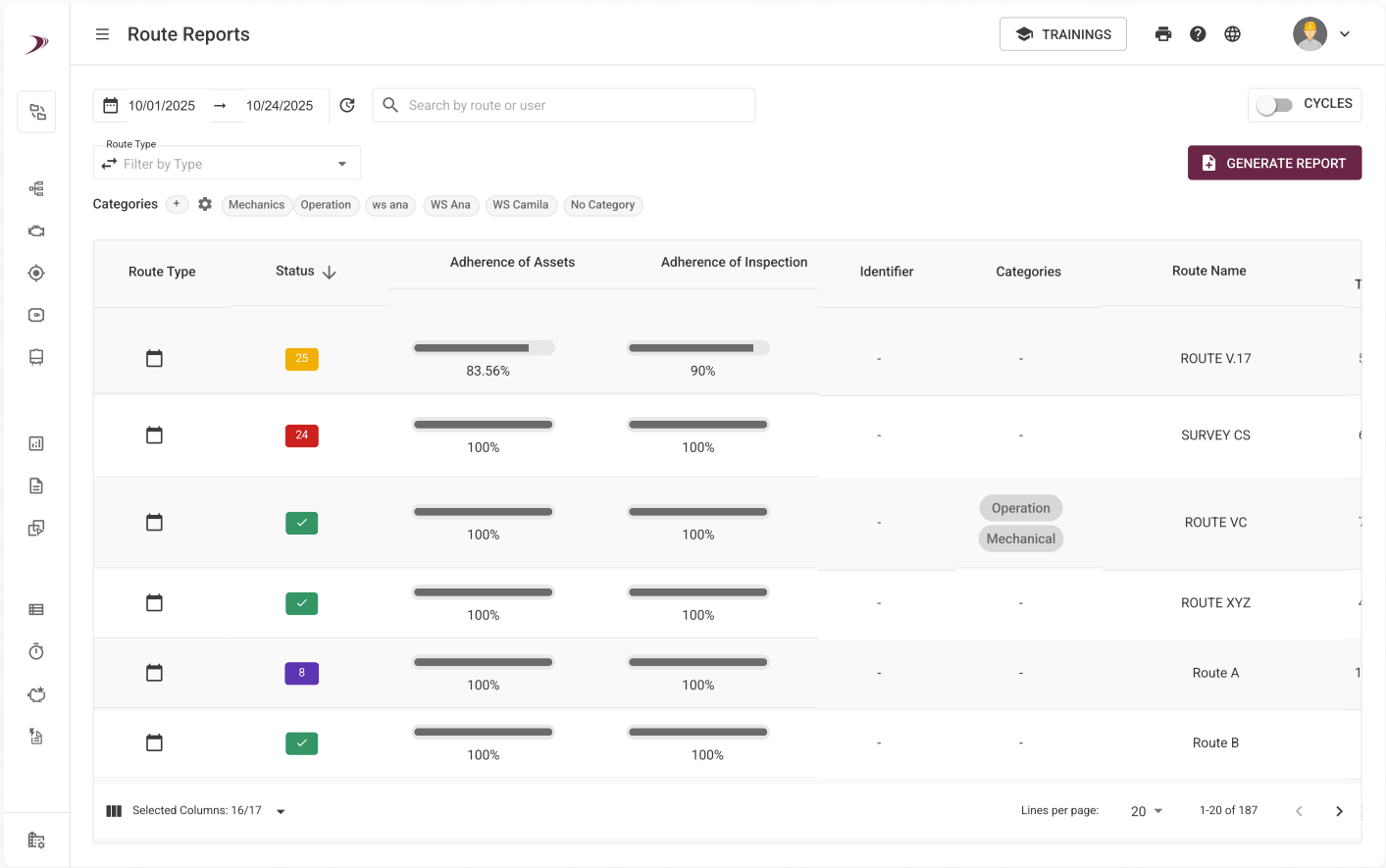
3.3.1 Route report list

At the top of the page, the user finds tools to locate specific reports:

- **Period Filter:** allows selecting the date range for viewing reports;
- **Quick Period Filter:** buttons for fast selection of predefined time ranges;
- **Search:** field for searching reports by route name or user;
- **Route Type Filter:** allows filtering routes by "Periodic" or "Trigger-Based";
- **Categories:** quick filter to select routes based on their assigned categories;
- **Cycle View:** a toggle that switches adherence visualization in the list, allowing users to view consolidated data "by Items" or detailed "by Completed Cycles";
- **Generate Report:** button that exports a report with all routes currently displayed (based on applied filters).

The main list displays route reports in a table format. The columns are:

- **Route Type;**
- **Status;**
- **Asset Adherence;**
- **Inspection Adherence;**
- **Identifier;**
- **Categories;**
- **Route Name;**
- **Route Tracking:** (Total, Completed, Justified, Not Completed, Open);
- **Assets;**
- **Periodicity;**
- **Main Responsible User.**



By clicking any route in the list, the user is redirected to the detailed report page.

3.3.2 Route report

This page presents a detailed analysis of the selected route and its current cycle.

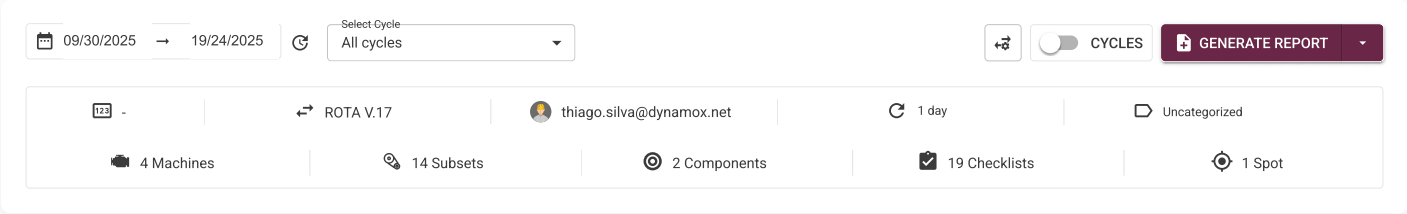
In the header, the user can:

- Filter by **Period;**
- Select specific **Cycles** (current or past) for analysis;
- Access the **Route Manager;**
- Switch the data view between Items and Cycles;
- **Generate Report:** this button contains a dropdown menu that allows:

– Generate **Route Checklist** Report.
– Generate **Spot Collection** Report.

Below these actions, the route information is displayed, including:

- Basic information: **Identifier, Route name, Responsible users, Periodicity, and Categories**.
- Total number of assets: **Machines, Subsets, Components, Checklists, and Spots**.



The main content is divided into four tabs: **Checklist Answers, Route Management Indicators, Anomaly Indicators, and Spot Collections**.

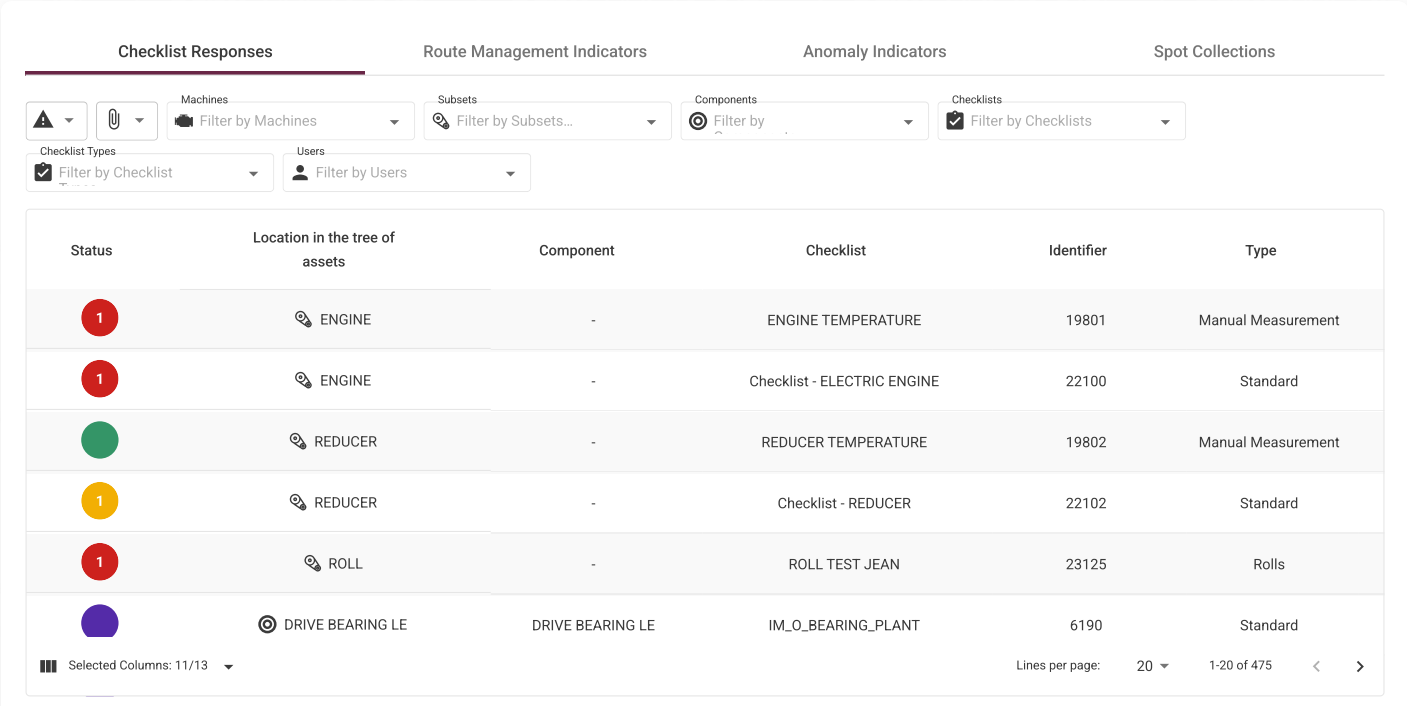
3.3.2.1 Checklist responses

This tab displays a list of all checklist answers filled out in the route.

The user can apply filters to refine the list by **Alerts, Attachments, Machines, Subsets, Components, Checklists, Checklist Types,** and **Users**.

The answers table includes the following columns:

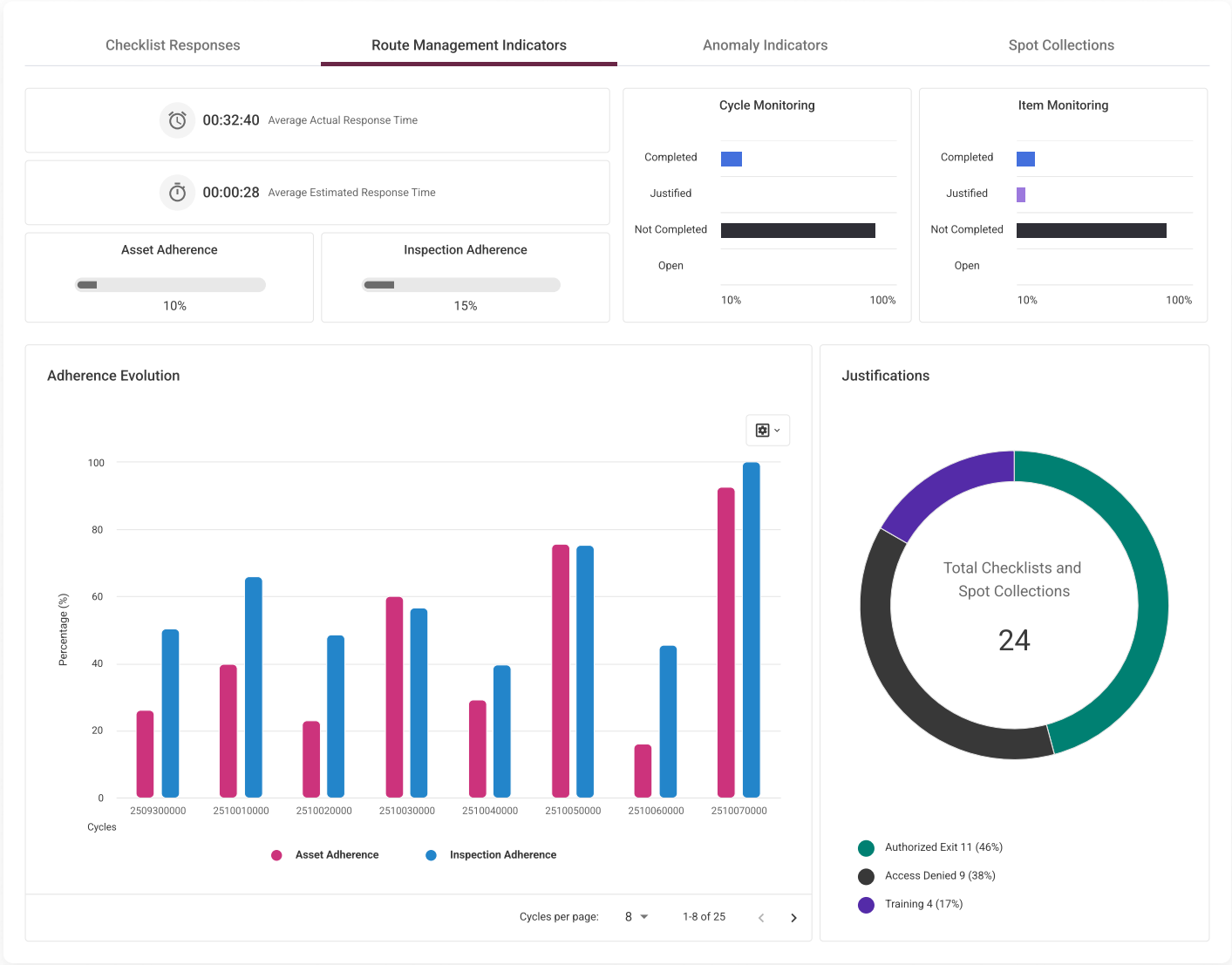
- **Status;**
- **Location in the asset tree;**
- **Component;**
- **Checklist;**
- **Identifier;**
- **Type;**
- **Duration;**
- **Geolocation;**
- **Main responsible user;**
- **Answer date;**
- **Route Cycle;**
- **View more (link to the checklist page).**



3.3.2.2 Route management indicators

This tab presents performance metrics for route execution, including:

- **Actual average response time:** the total time the inspector took to perform and complete this specific inspection cycle;
- **Estimated average response time:** the historical average time from all previous executions of this route, serving as a performance estimate;
- **Asset Coverage:** measures the percentage of assets (e.g., machines) that were effectively inspected during the route cycle;
- **Inspection Coverage:** measures the total percentage of inspection items (all tasks, such as checklist filling and spot collections) that were completed or justified in the route cycle;
- **Cycle/Item Tracking:** detailed execution summary showing totals of Completed, Justified, Not Completed, and Open items;
- **Coverage Evolution:** chart comparing Asset Coverage (%) with Inspection Coverage (%);
- **Justifications**: a card displaying the most commonly used justifications by inspectors.



3.3.2.3 Anomaly indicators

This tab consolidates alerts generated during the route inspections:

- **Criticality Indicator per Asset:** a bar chart showing the number of alerts (Y-axis) per criticality level (A1, A2) for each asset (X-axis);
- **Checklist Alert Overview:** a donut chart displaying the total number of alerts and their percentage distribution among Alert A1, Alert A2, and No Anomaly.

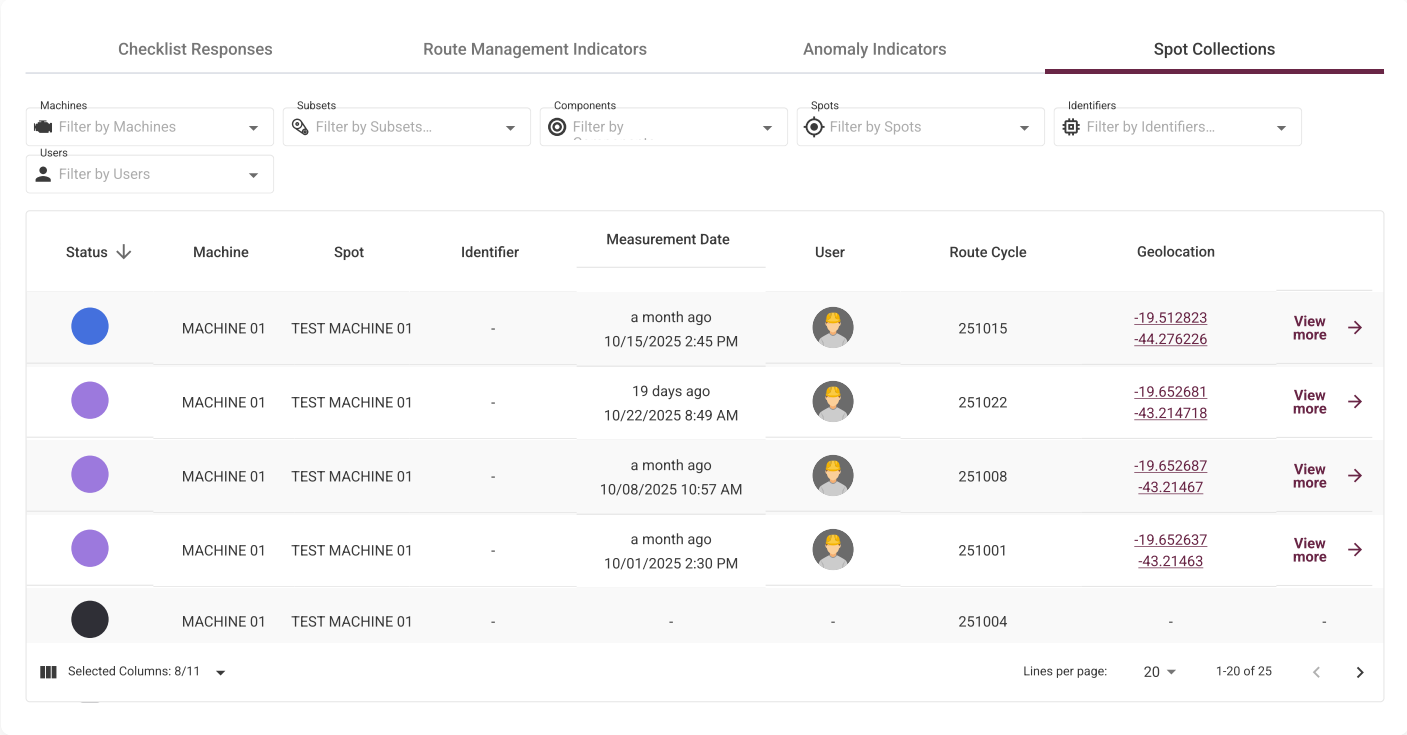


3.3.2.4 Spot collectors

This tab lists all Spot data collections (sensor readings) performed during the route. The list can be filtered by Machines, Subsets, Components, Spots, Identifiers, and Users.

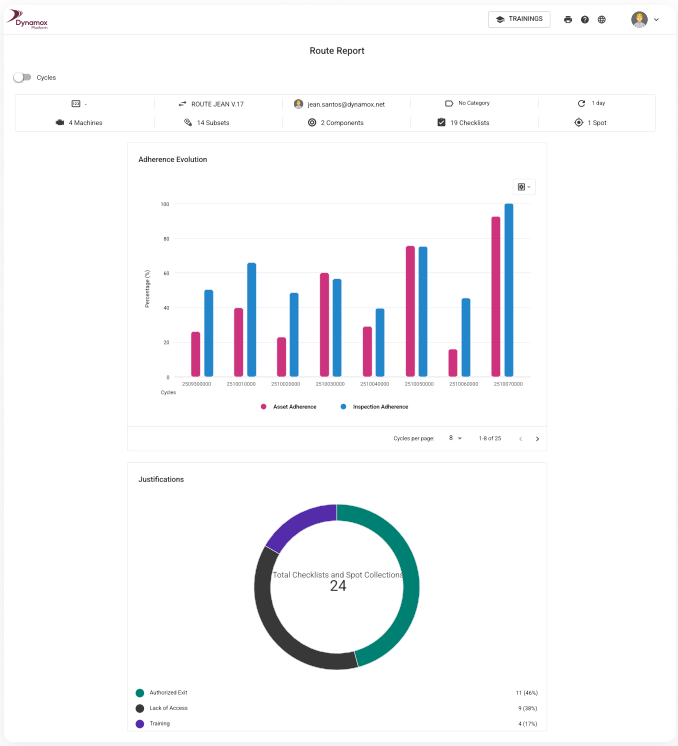
The collections table includes the columns:

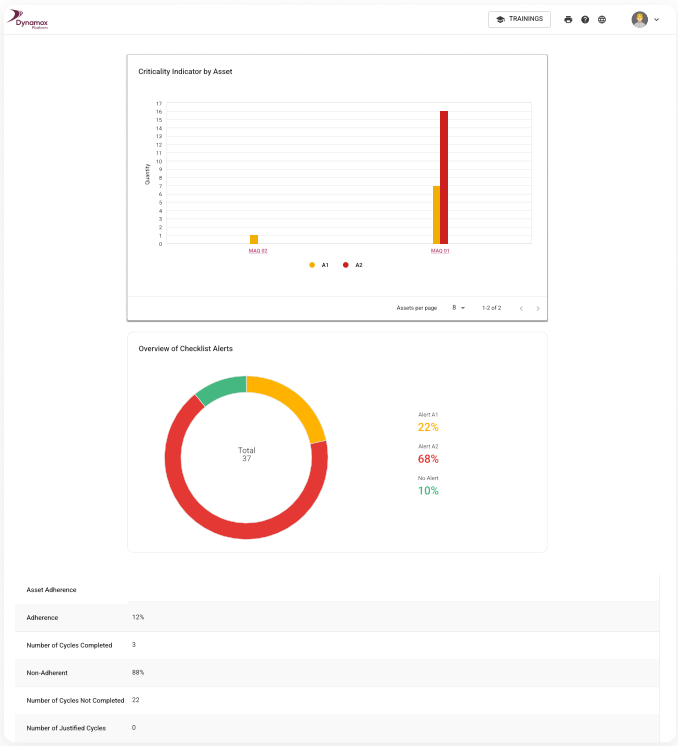
- **Status;**
- **Machine;**
- **Spot;**
- **Identifier;**
- **Measurement Date;**
- **User;**
- **Route Cycle;**
- **Geolocation;**
- **View more (link to Spot Viewer).**



3.3.3 Generate report

When clicking the GENERATE REPORT button (located in the top-right corner of the Route Report page), the system generates a new page formatted for printing.





This page consolidates all data and charts (Basic Information, Coverage, Cycle Tracking, etc.) into a continuous visualization, allowing the user to click on the 🖶 button on the left side of the header to save a PDF or print the complete report.

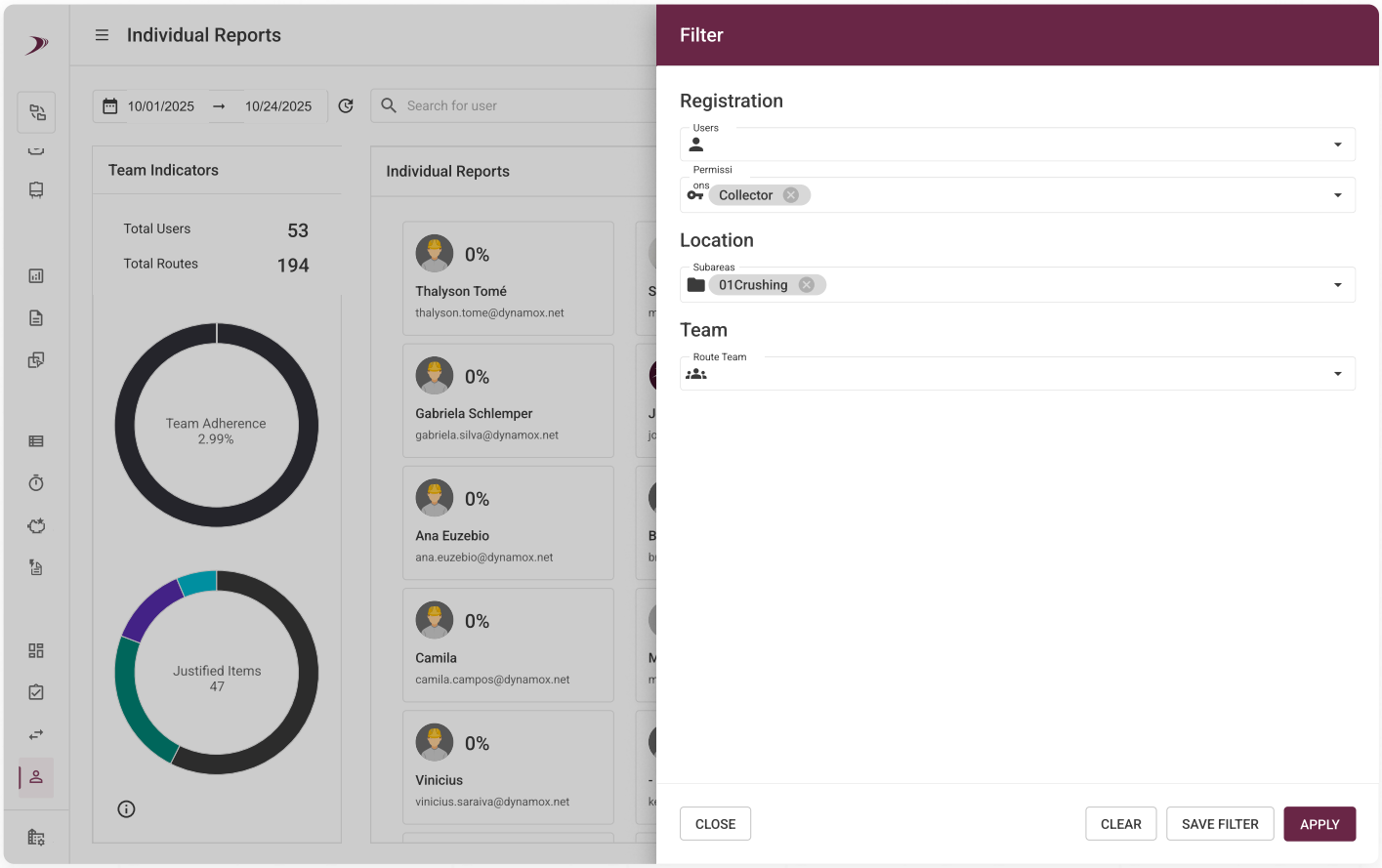
4 Team

Section dedicated to viewing and monitoring user adherence in inspection routes.

At the top of the page, the user finds tools for navigating and filtering individual reports:

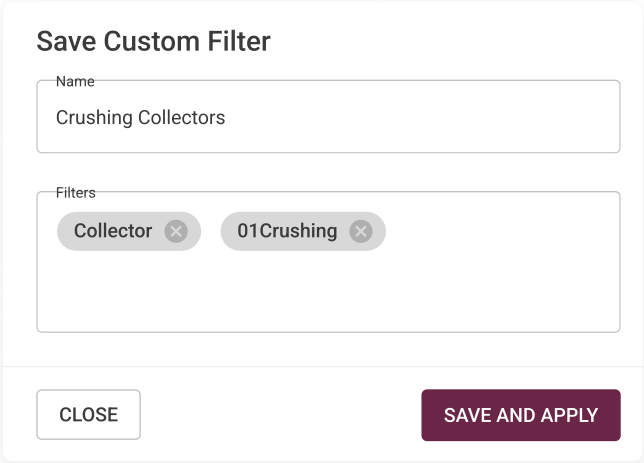
- **Period Filter:** allows selecting a date range in the calendar for analysis.
- **Quick Period Filter:** options for quick selection of predefined periods (e.g., Last 7 days).
- **Search:** field for searching by username.
- **Filters:** button opening a side panel with three filter sections:

– **Registration:** filter by Users or Permissions;
– **Location:** filter by Subareas;
– **Team:** filter by Route Team.



Selecting the **Route Team** filter overrides the **Registration** and **Location** filters, and vice-versa.

- **Save Filter:** within the Filters panel, the user can save a set of applied filters by clicking SAVE FILTER . Saved filters appear as a new quick-access button in the header.



These filters are stored inside the root workspace where they were created, and become available to all users in that workspace.

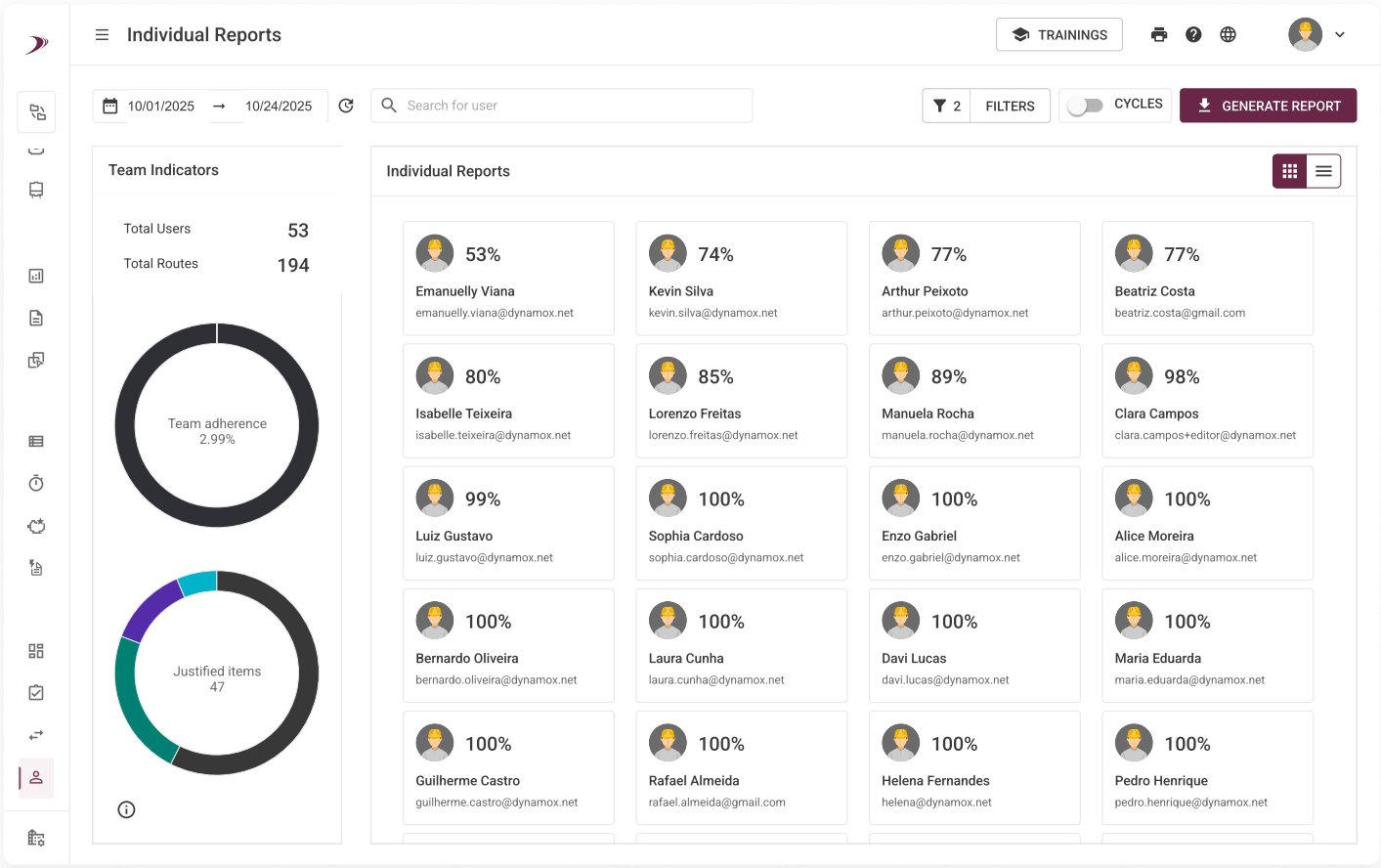
- **Cycles:** a switch button that toggles coverage visualization between “Items” and “Cycles.”
- **Generate Report:** exports a report for all users currently selected on the screen. If no users are selected, the report includes all users in the workspace.

4.1 Team indicators

Located in the left panel, this card displays overall indicators for the team (or selected users). Data updates dynamically as the user selects or deselects individual reports in the right panel.

> If no users are selected, the indicators represent all users in that Workspace.

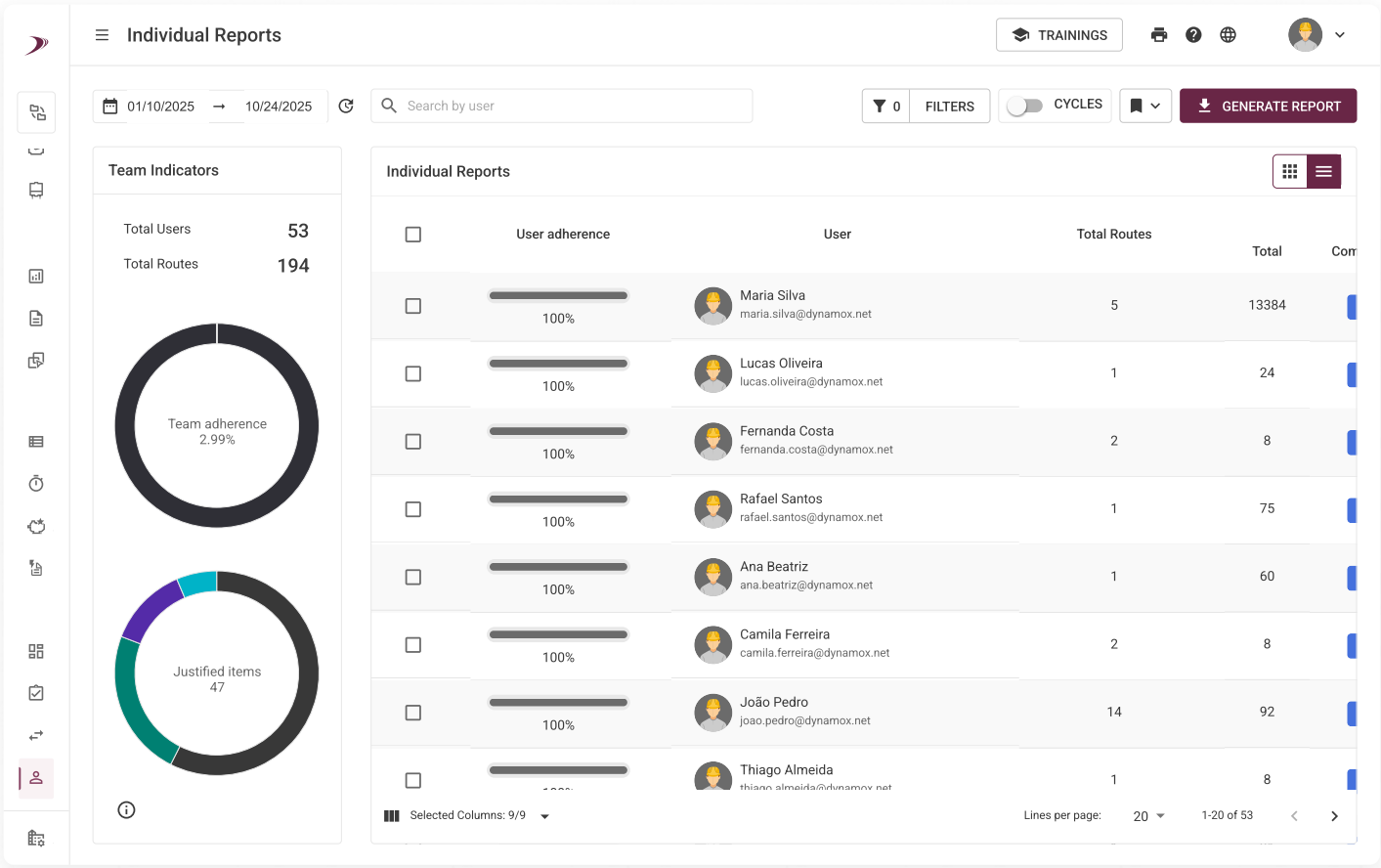
- **Total Users:** count of selected users;
- **Total Routes:** total number of routes associated with the selected users;
- **Team Adherence:** donut chart showing the team's average adherence;
- **Justified Items:** donut chart showing the percentage of justified items.



4.2 Individual reports

The main area displays each user's reports. The user can switch between **Mosaic (cards)** and **List (table)** view using the  button in the top-right corner of the section.

- **Mosaic View:** displays a card for each user showing their name and adherence percentage. Clicking a card selects the user for filtering the "Team Indicators."
- **List View:** displays data in a table with the following columns: User Adherence, User, Total Routes, and the user's item tracking (detailed as Total, Completed, Justified, Not Completed, Open).



4.3 User report

When clicking a user (either on the card, in the list, or via the “Open report” icon), the system directs the user to the **User Report** page, which details that inspector’s performance.

The page header also includes Period filters, a Cycles switch, and a 

button. The button contains a dropdown menu (chevron) that allows exporting:

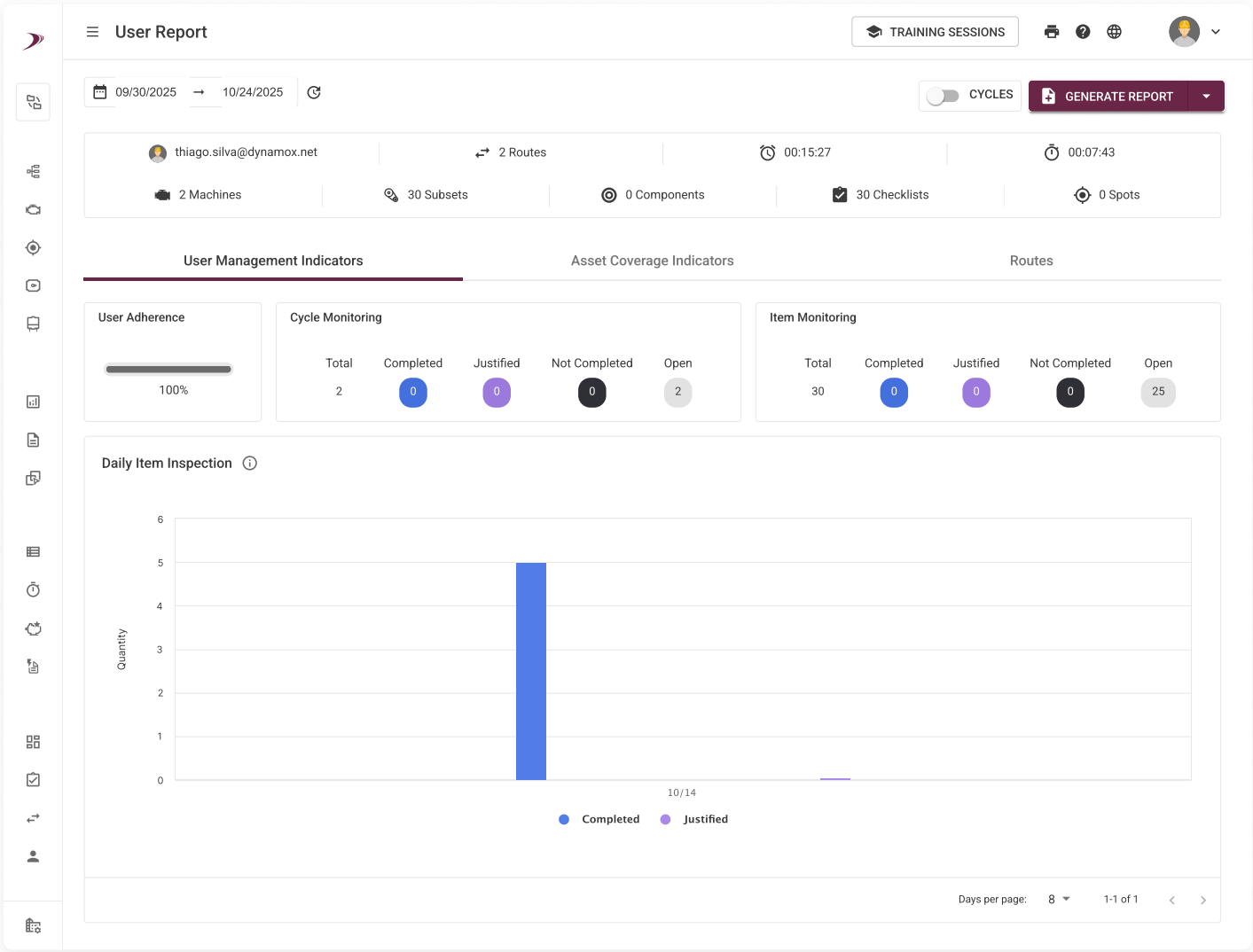
- **Indicator Report (the data shown on this page);**
- **Routes Report (the list of the user’s routes);**
- **Checklist Responses Report (the user’s responses).**

Below the actions, summary cards display basic user data (total routes, average execution time, number of machines, checklists, spots, etc.). The main content is divided into three tabs: User Management Indicators, Asset Coverage Indicators, and Routes.

4.3.1 User management indicators

Displays performance indicators for the selected user:

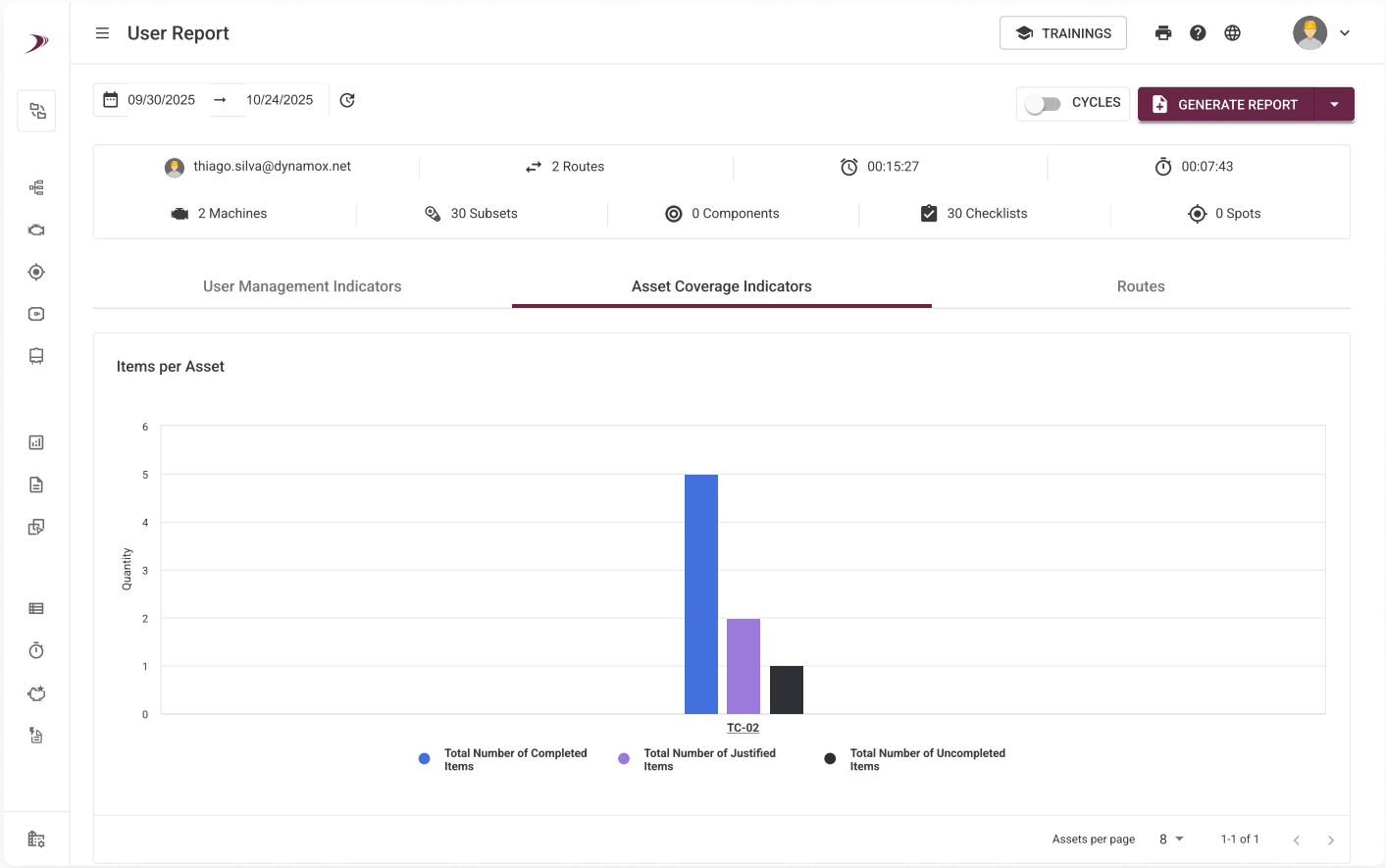
- **User Adherence:** displays the user's total adherence percentage with the inspection items (checklists, collections, etc.) that were **Performed** or **Justified** by the inspector, divided by the total number of items assigned to them within the selected time period;
- **Cycle Tracking:**shows the total count of **route cycles** under this user's responsibility within the period, summing all assigned cycles and segmenting them by status: **Total, Performed, Justified, Not Performed,** and **Open;**
- **Item Tracking:** shows the total count of individual **inspection items** (such as checklists, spot collections, etc.) contained in all cycles assigned to the user. This indicator is generated by summing all such tasks, also segmented by status: **Total, Performed, Justified, Not Performed,** and **Open;**
- **Daily Item Inspection:** a bar chart presenting the number (Y-axis) of items by status (Performed, Justified, etc., on the X-axis).



4.3.2 Asset coverage indicators

Displays a multi-bar chart focused on the assets inspected by the user.

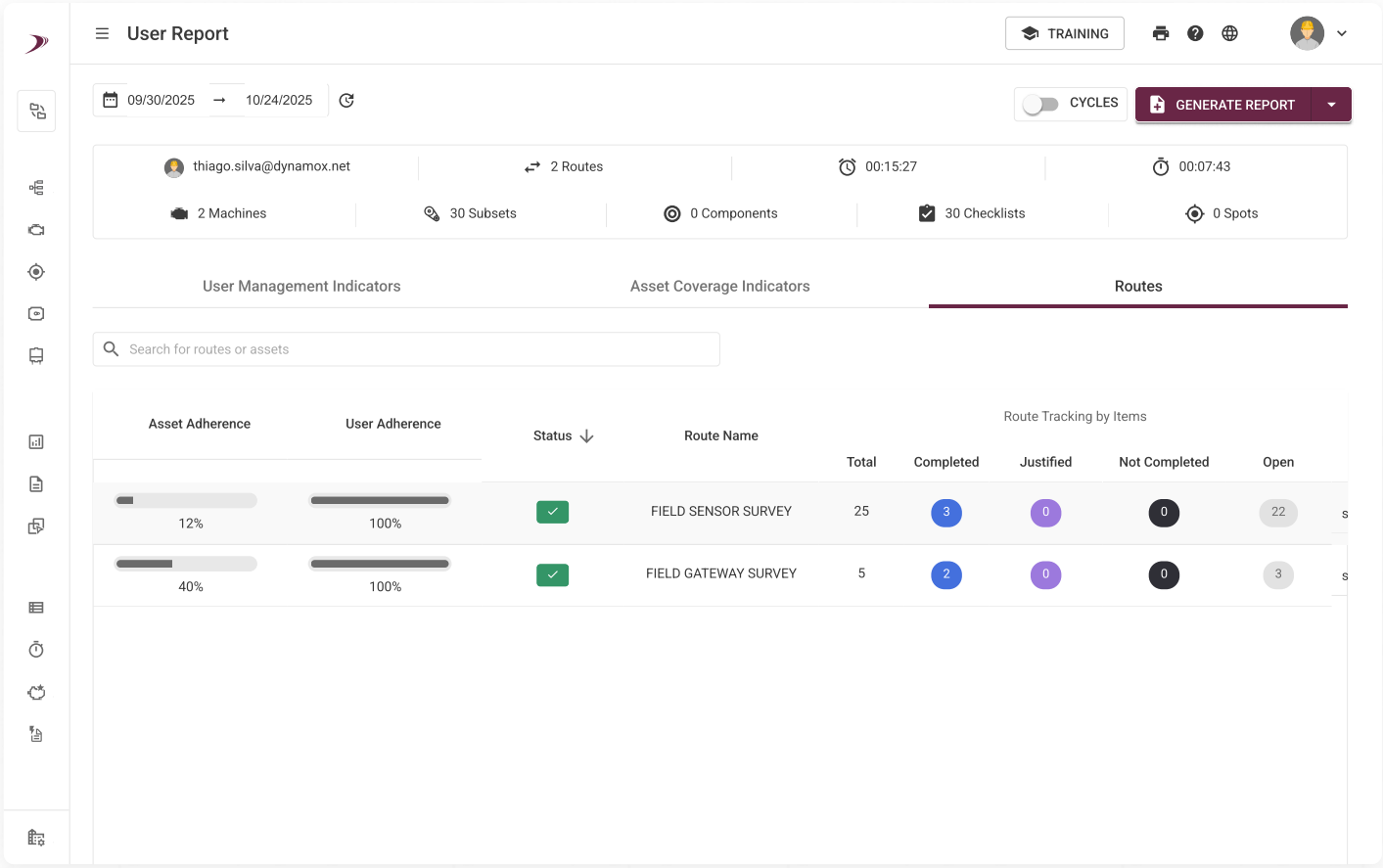
- The Y-axis displays the **Quantity;**
- The X-axis displays the **Assets;**
- Bars are segmented by status: Total Performed Items, Total Justified Items, and Total Not Performed Items.



4.3.3 Routes

Displays a list of all routes associated with the user. This tab includes a **Search bar (for routes or assets)**. The routes table includes the following columns:

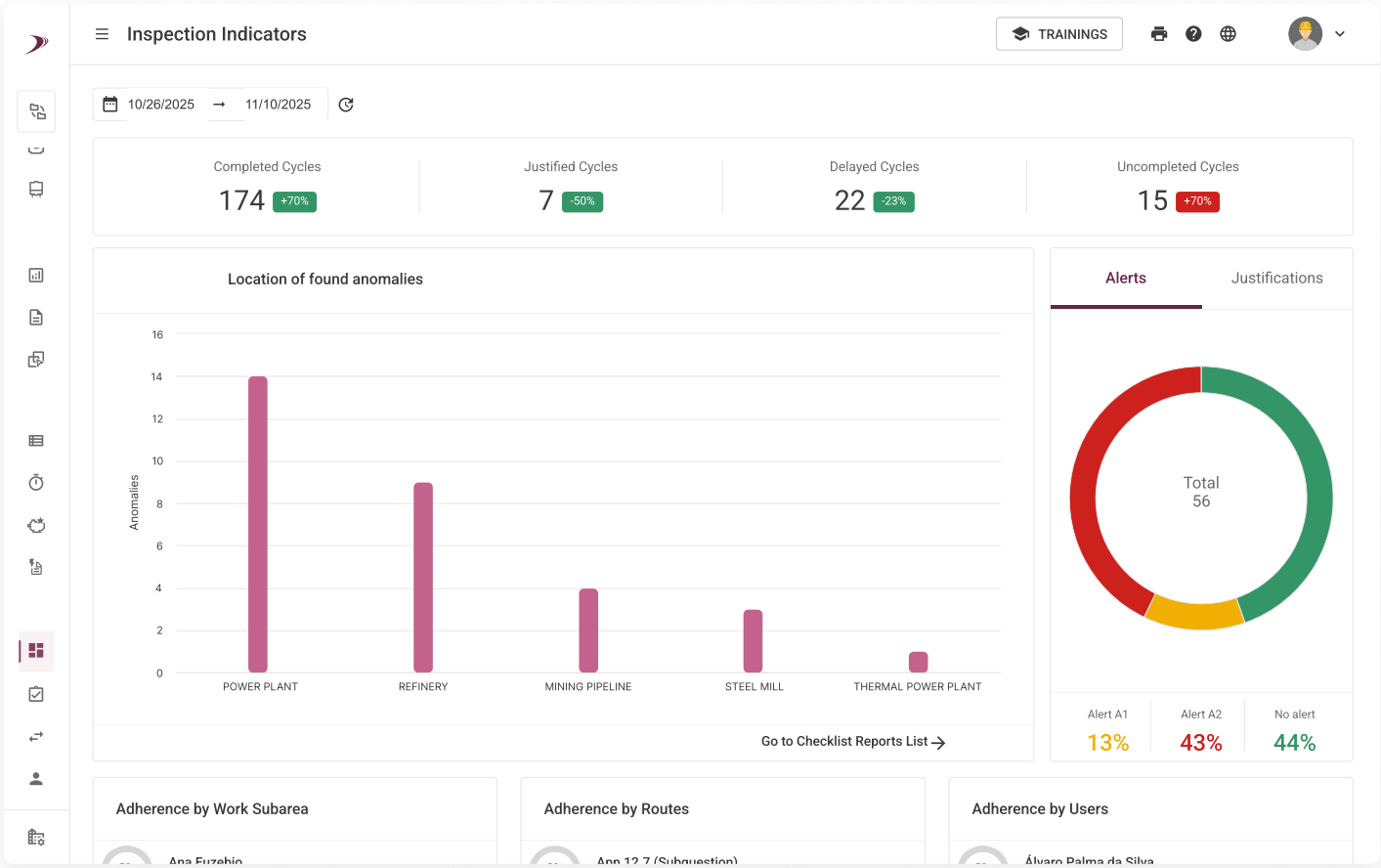
- **Asset Adherence;**
- **User Adherence;**
- **Status;**
- **Route Name;**
- **Route Item Tracking (Total, Performed, etc.);**
- **Assets;**
- **Total Duration;**
- **Average Duration;**
- **Periodicity.**
- **See more** → button to access the full "Route Report" (described in section 3.3)



5 Inspection indicators

The Inspection Indicators page, accessed via the side menu **Inspection > Inspection Indicators**, is a dashboard summarizing all key module indicators. It provides an overview of inspection progress within the platform.

At the top of the page, the user finds **Period** filters (to select a date interval from the calendar) and a **Quick Period Filter** (with preset buttons such as “Last 7 days”).

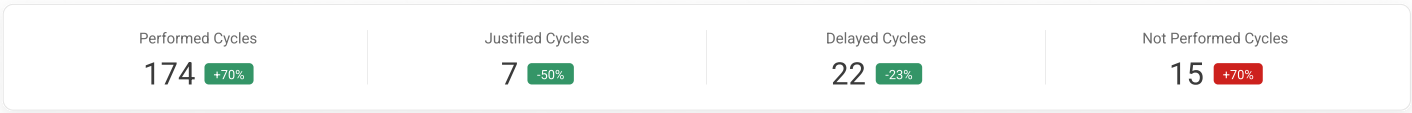


The page indicators are divided into the following panels: **Cycles**, **Location of Detected Anomalies**, **Alerts / Justifications**, and **Adherence (Work Subarea, Routes, and Users)**.

5.1 Cycles

The first card on the screen provides an overall view of inspection cycles within the selected period. It is divided into four main categories, each displaying the total cycle count and its comparative percentage:

- **Performed Cycles;**
- **Justified Cycles;**
- **Delayed Cycles;**
- **Not Performed Cycles.**

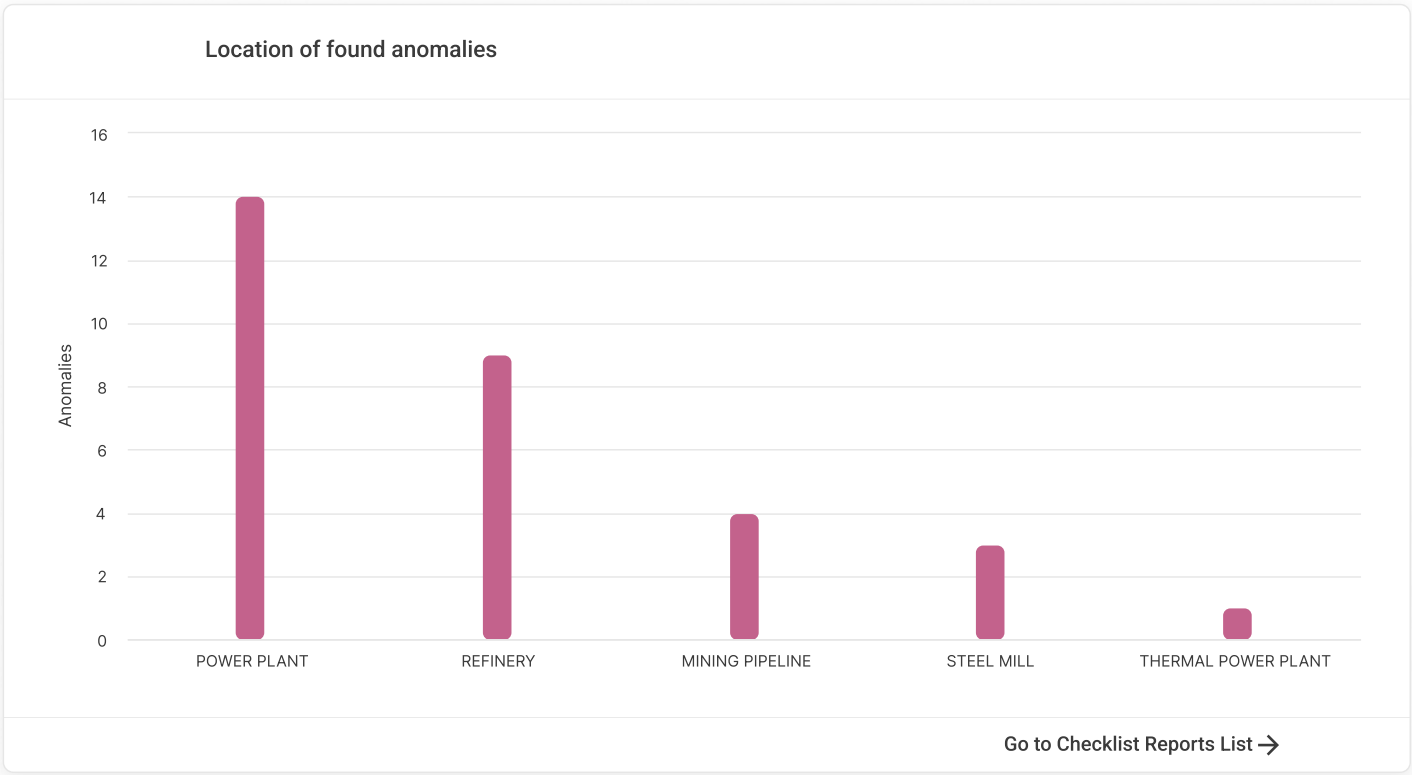


5.2 Location of identified anomalies

This card presents a bar chart illustrating where anomalies are concentrated.

- The Y-axis (vertical) displays the **Number** of anomalies detected;
- The X-axis (horizontal) displays the **Work Areas** where they occurred.

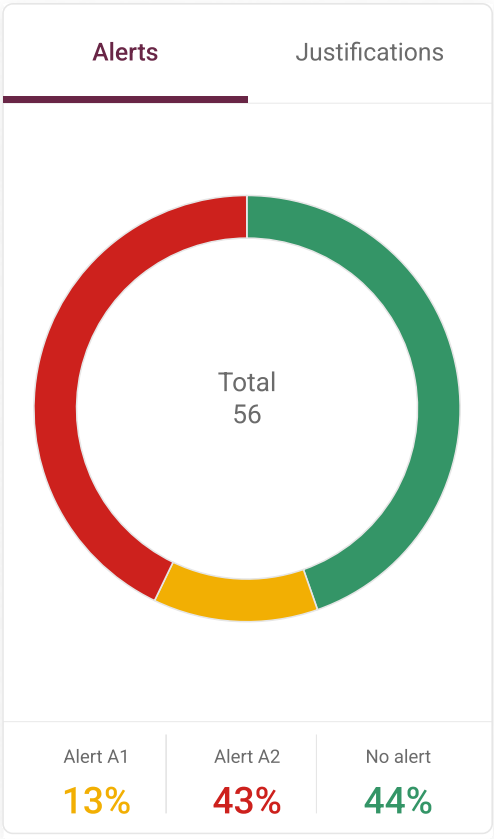
Below the chart, a shortcut link **(Go to Checklist Reports List)** directs the user to the Checklist Reports page (described in section 2.4).



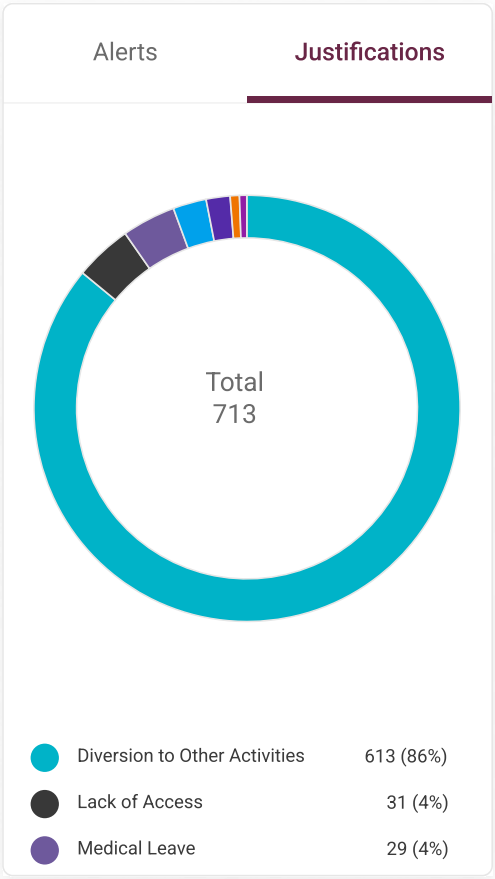
5.3 Alerts / Justifications

This card is divided into two tabs: **Alerts** and **Justifications**.

- **Alerts:** displays a donut chart showing the **Total** alerts generated during inspections. The legend details the quantitative and percentage distribution among **Alert A1, Alert A2,** and **No Alert.**



- **Justifications:** displays a similar donut chart showing the **Total** justifications provided. The legend lists the most common justification **types** (e.g., Medical Leave, Periodic Examination) and their respective counts and percentages.

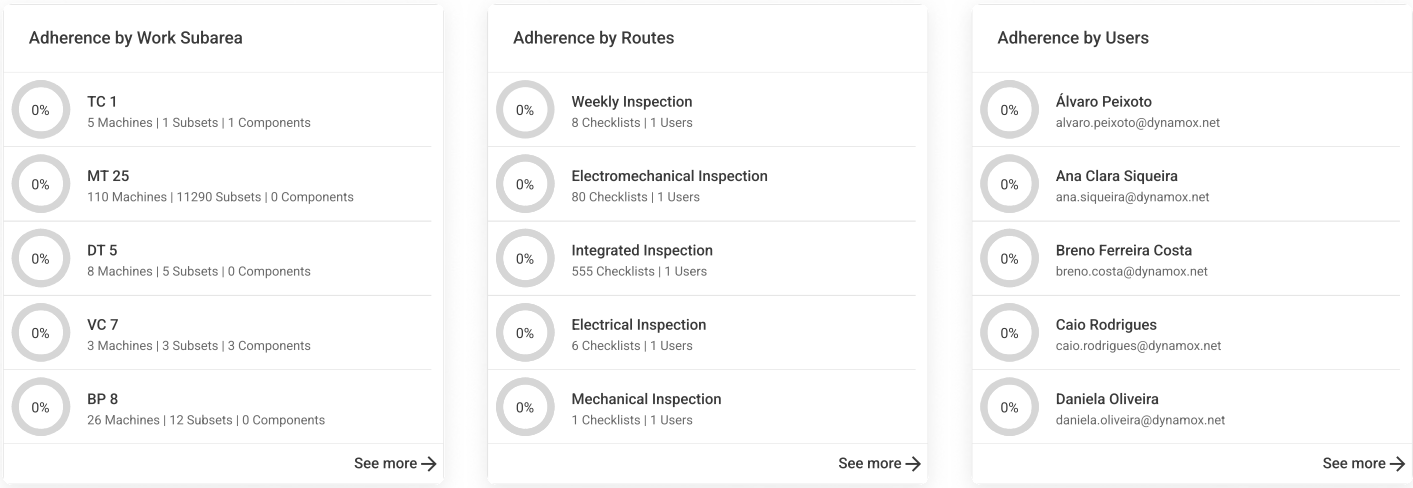


5.4 Adherence (Work sub-area, Routes, and Users)

The lower section of the page presents three shortcut cards for the main adherence areas:

- **Adherence by Work Subarea;**
- **Adherence by Routes;**
- **Adherence by User.**

Each card displays a list of the corresponding adherence values and includes a **See more →** button that directs the user to the detailed analysis page for that section (Subarea Page, Routes Page, and Team Page, respectively).



6 App

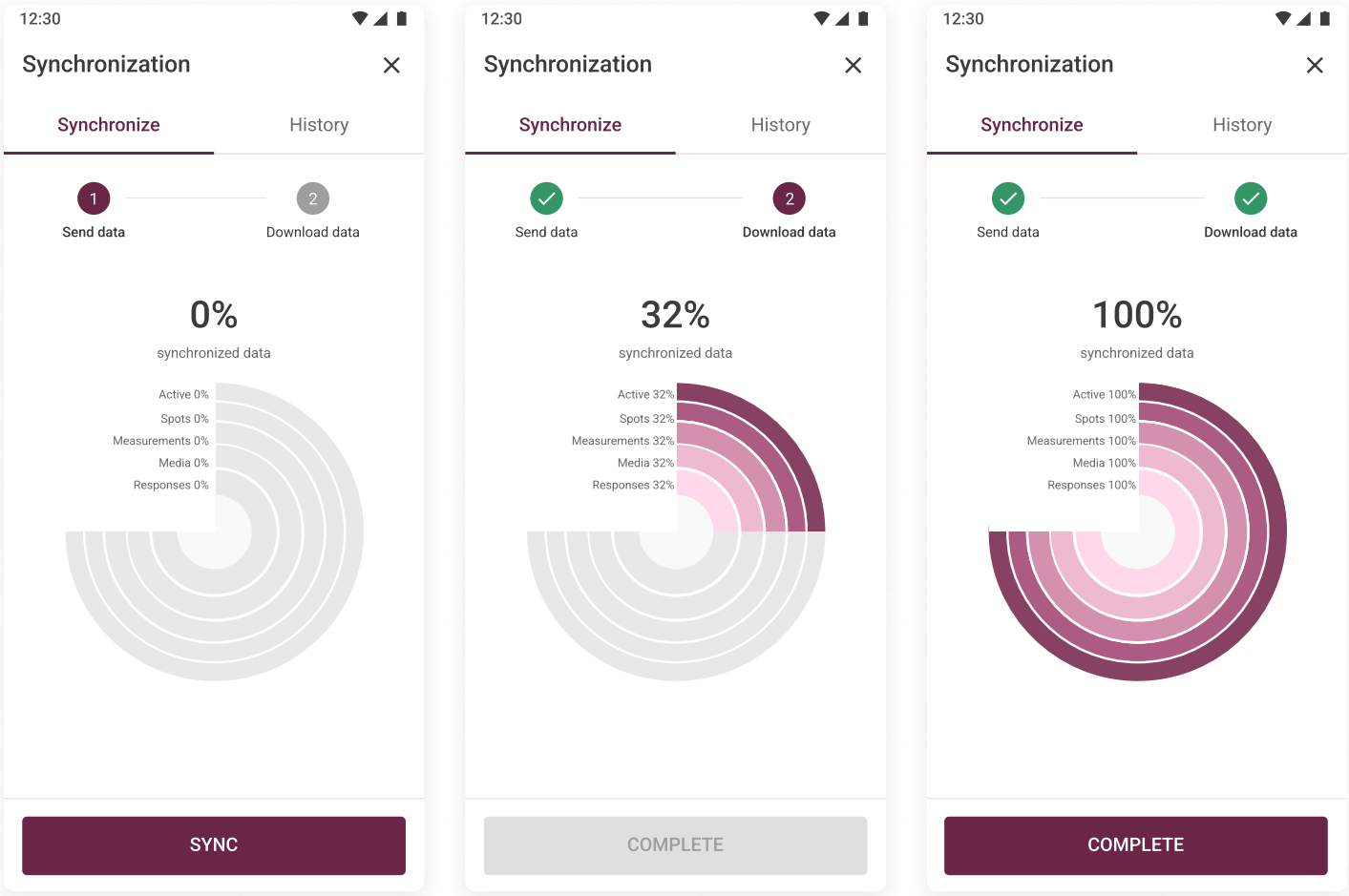
The Dynamox App is the mobile application developed to interact and communicate with DynaLoggers in the field. While the management and configuration of routes and checklists are handled in the Dynamox Platform (as described in previous chapters), inspection execution, data collection, and checklist completion take place within the app.

This section summarizes the key functionalities used by inspectors to perform inspections in the DynaSens module. The app is available for Android and iOS.

6.1 Data synchronization

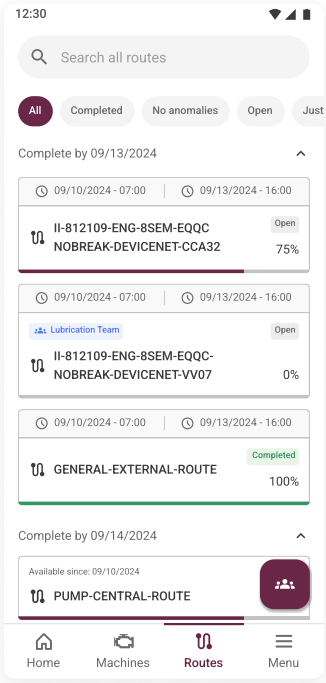
Synchronization is the feature that sends field-collected data (Spot readings, checklist responses, and reports) to the Dynamox Platform. It is recommended that the user synchronize after each collection so the data is added to the asset's history on the platform.

Synchronization is performed via the "**Sync data**" option on the home screen or menu. This action requires an internet connection (3G, 4G, or Wi-Fi).



6.2 Inspection routes

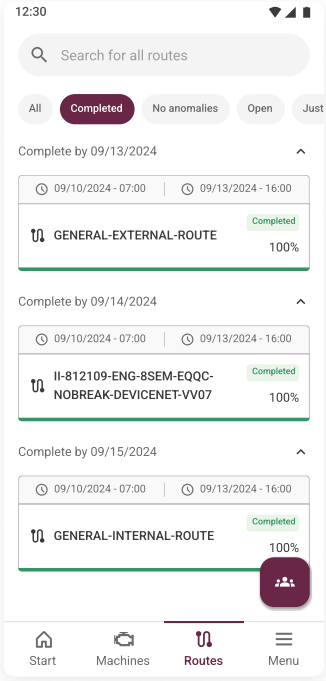
In the “Routes” tab of the app, all inspection routes with an active cycle for which the user is the primary responsible are displayed. The user can search for a specific route name or filter the list based on route status.



6.2.1 Route list / Team routes

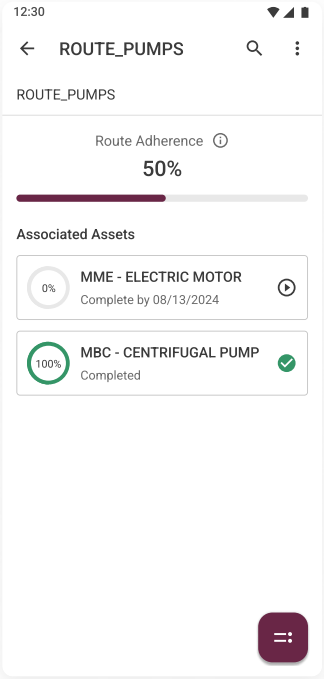
The Routes main screen displays the list of inspections assigned to the user. They can filter this list by several statuses:

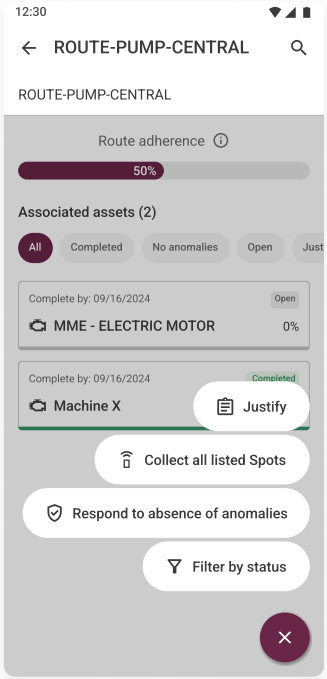
- **All**
- **Performed (items 100% completed)**
- **Without anomalies**
- **Open (items not answered before the ideal moment)**
- **Delayed (items not answered after the ideal moment)**
- **Justified**
- **Team routes**



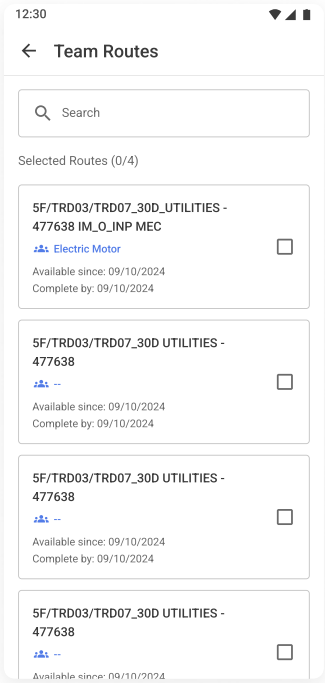
When viewing a specific route (Route View), the user has an options menu allowing mass actions:

- **Justify:** inserts a justification for all listed assets that could not be performed due to external reasons.
- **Respond "no anomalies detected":** automatically answers all asset checklists with "no anomalies".
- **Collect all listed Spots:** starts data collection for all Spots listed in the route's assets.
- **Filter by status:** filters the list of routes or assets according to status (e.g., All, Performed, Open, Delayed, Justified).
- **Locate DynaLoggers (Sensors):** accesses the "Locate sensors" feature, which searches for registered DynaLoggers within the app's Bluetooth range.





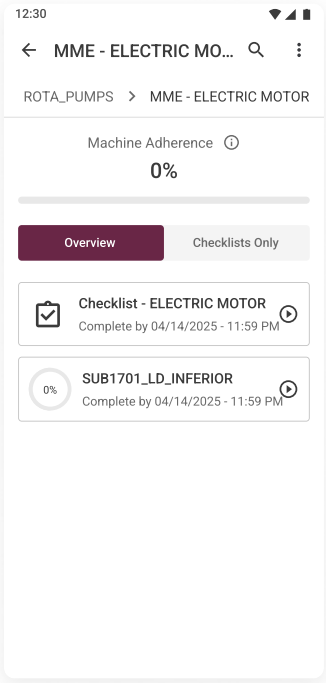
If the user is part of a team, they may assume routes that are not under their primary responsibility. When accessing **"Team Routes"** (via the team button on the routes screen or status filter), the app lists the team's available routes, allowing the user to select and confirm which ones to assume.



6.2.2 Route machine

When selecting a route, the user sees the list of Associated Assets (machines). When selecting a machine, they can navigate through its subassemblies, components, checklists, and Spots to perform the inspection.

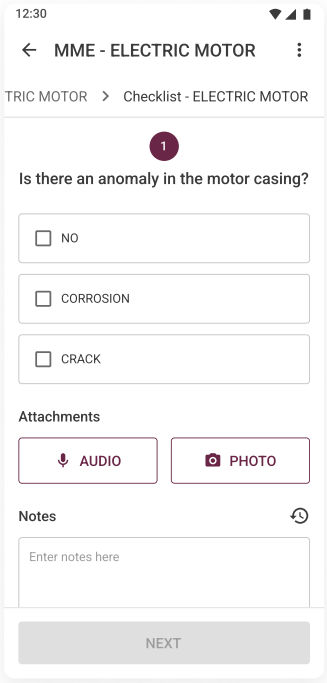
The app allows switching between **General View** and **Checklist-only View**, which automatically advances to the next checklist after completing the current one.

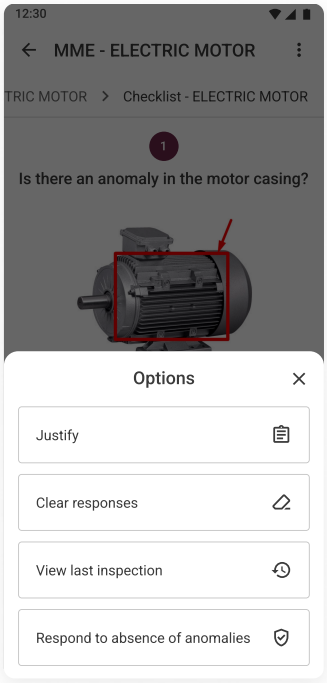


6.2.2.1 Checklists and inspection reports

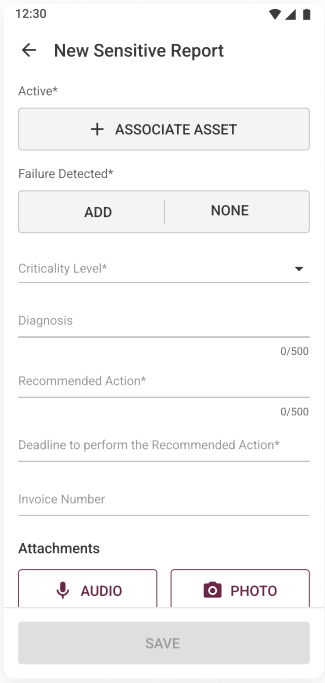
- **Checklists:** when selecting a checklist within a machine, the user is guided through the questions and answer options. They may add attachments (photos and audio) and observations. When adding photos, editing tools (drawing, text, cropping) are available to highlight identified issues.

- Checklist options allow the user to:
- **Justify non-performance**
- **Clear responses**
- **View last inspection (access previous response information)**
- **Respond "no anomalies detected"**



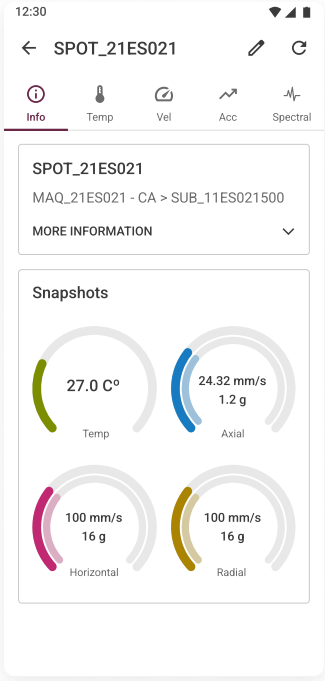


- **Reports:** the app also supports creating standalone **Sensory Reports** via a shortcut on the home screen (Highlights) or from the menu. This feature is used to record issues found outside an inspection route. The user must associate an asset, describe the identified failure, criticality level, diagnosis, and recommended action.

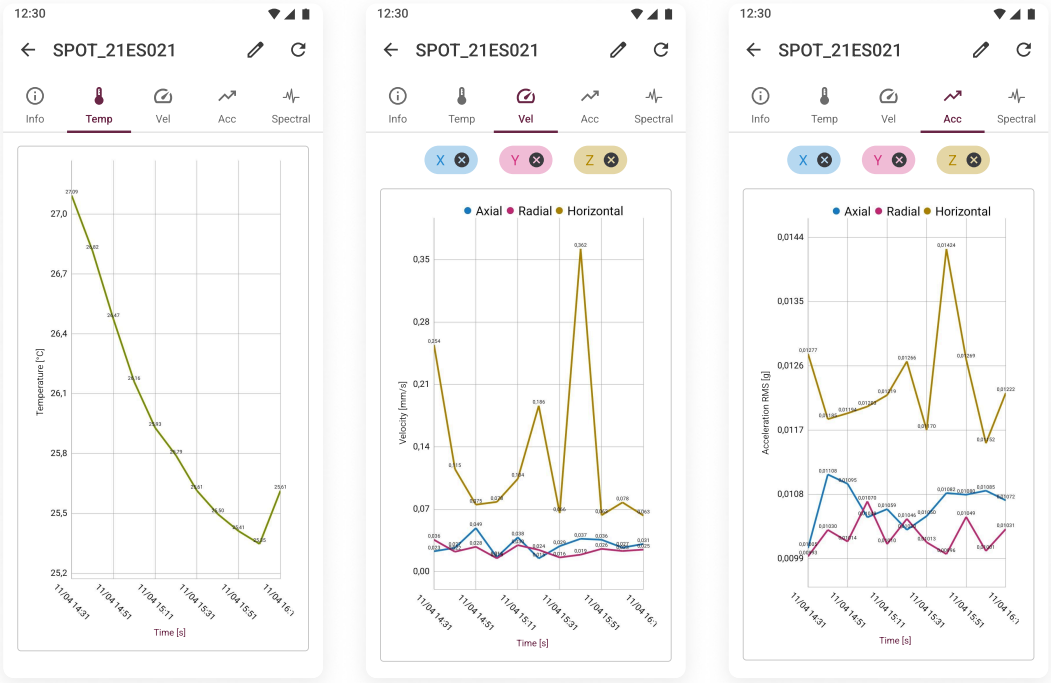


6.2.2.2 Spots

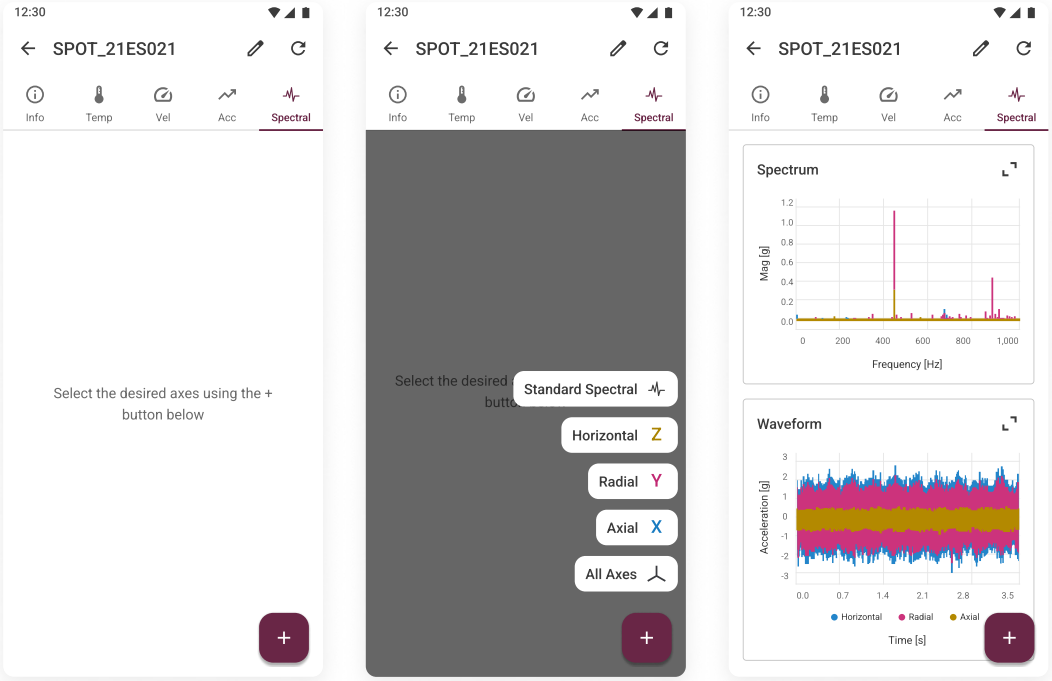
When selecting a Spot (monitoring point) within the machine's structure, the app connects to the associated DynaLogger via Bluetooth to collect data.



The Spot screen displays Snapshots (instant readings) of temperature and vibration. The user can navigate through the tabs to view historical charts of **Temp (Temperature), Vel (RMS Velocity),** and **Acc (RMS Acceleration).**



In the **Spectral** tab, the user may request a new spectral analysis (Standard Spectral, for a specific axis, or all axes). The collected data (historical and spectral) is downloaded from the device memory and remains pending synchronization.



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