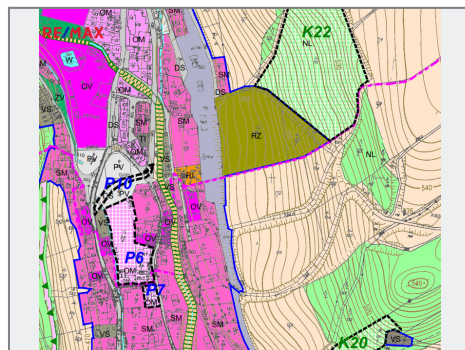
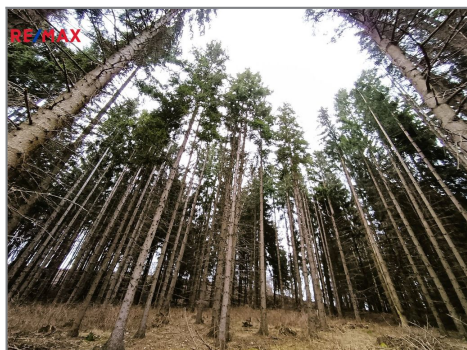
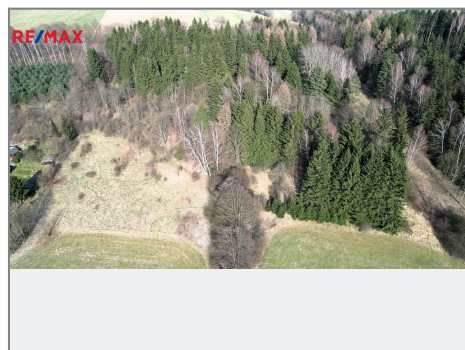




**FIGURE 4** | A multi-criteria decision-making model for assessing the sustainability of a water supply system.

The model is structured into three main stages:

- Input Data Collection:** This stage involves gathering data for various criteria (e.g., water quality, quantity, cost, etc.) and their weights. The criteria are listed in the top row of the diagram.
- Data Normalization:** This stage involves normalizing the data using a specific formula. The normalized data is then used to calculate the weighted sum for each criterion.
- Final Sustainability Assessment:** This stage involves aggregating the normalized data to produce a final sustainability score. The final score is then used to assess the overall sustainability of the water supply system.

The diagram includes several tables and flowcharts illustrating the process. The top table lists the criteria and their weights. The middle table shows the normalized data and the weighted sum for each criterion. The bottom table shows the final sustainability score and the overall assessment.

**Criteria and Weights:**

| Criteria            | Weight |
|---------------------|--------|
| Water Quality       | 0.30   |
| Water Quantity      | 0.20   |
| Water Cost          | 0.10   |
| Water Reliability   | 0.15   |
| Water Accessibility | 0.15   |

**Data Normalization:**

| Criteria            | Normalized Data | Weighted Sum |
|---------------------|-----------------|--------------|
| Water Quality       | 0.85            | 0.255        |
| Water Quantity      | 0.75            | 0.150        |
| Water Cost          | 0.60            | 0.060        |
| Water Reliability   | 0.90            | 0.135        |
| Water Accessibility | 0.80            | 0.120        |

**Final Sustainability Assessment:**

| Criteria            | Weighted Sum | Final Score |
|---------------------|--------------|-------------|
| Water Quality       | 0.255        | 0.85        |
| Water Quantity      | 0.150        | 0.75        |
| Water Cost          | 0.060        | 0.60        |
| Water Reliability   | 0.135        | 0.90        |
| Water Accessibility | 0.120        | 0.80        |