## 1a.i: Detailed List (Friendly, Structured)

### 1. The Vineyard Robot Choreography 🍇🤖

This plan is like a detailed script for our robots and human workers. It makes sure everyone works efficiently and doesn't waste time!

1. **Worker 2:** This worker covers the left side of the field, moving to four key sections (l4, l7, l9, l6). They mainly handle **Scouting** (taking notes) and **Grapevine Identification** (taking pictures of vines).
2. **Worker 1:** This worker is the backup for the remaining **Scouting** tasks. They follow a complementary route (l2, l5, l8, l3, l6), ensuring full field coverage.
3. **Robot 1 (r1) & Robot 2 (r2):** These two robots are the soil specialists for **Soil Analysis**. They work simultaneously across the entire grid to collect samples quickly.

### 2. The Pareto Front: The "Perfect Deal" Line

Imagine you are trying to buy a new gaming laptop. You want the highest **Performance** (best success chance) for the lowest **Price** (cost). The **Pareto Front** is the list of all the laptops that offer the **absolute best deal**—you cannot find another option that is both better and cheaper. In our case, it balances the project's **Success Chance** with the **Total Cost**.

### 3. The Smartest Solution for a Safe Project (91% Goal)

1. We needed a plan with at least a **91% chance of success**.
2. The cheapest, smartest plan that meets this goal is **Solution ID 15**.
3. This plan gives us a **91.6% safety rating** for a cost of **37.10 units**.
4. To reach this high safety rating, we gave the trickiest tasks **extra chances** (retries):
   * The **Soil Analysis tasks** at **l5** and **l9** (the hardest spots) get **9 and 8** backup attempts, respectively, close to the maximum 10 tries.
   * The **Scouting task at l4** also gets **3** extra attempts to make sure the data is solid.