## 1a.ii: Detailed Paragraph (Friendly, Structured)

The automated plan is a well-coordinated "choreography" for the team. **Worker 2** is the main data collector, following a route through four key field sections (l4, l7, l9, l6) to perform **Scouting** and **Grapevine Identification** tasks. **Worker 1** follows a separate route (l2, l5, l8, l3, l6), focusing on the remaining **Scouting** tasks to ensure the whole vineyard is covered. Simultaneously, **Robot 1** and **Robot 2** work in parallel as our lab technicians, dividing up the crucial **Soil Analysis** across the entire grid. To choose the best overall plan, the system uses the **Pareto Front**. Think of this as the "Perfect Deal" curve: it lists all the options that give us the best **Success Chance** for the lowest **Total Cost**, meaning we don't overspend on safety. To satisfy the mandatory requirement of at least a **91% chance of success**, the most cost-effective solution is **ID 15**. This plan guarantees a **91.6% success chance** for a minimal **37.10 unit cost**. This high safety level is achieved by strategically giving the most critical tasks, like the **Soil Analysis** jobs at l5 and l9, many **extra chances** (9 and 8 retries) to succeed, while also providing **3** extra attempts for the **Scouting task at l4**.