### 1aiii

* **Plan Summary (Agent Sequence)**
  + **Human Worker (h1):** Performs Electrical Installation (t2\_ip2, t2\_ip1) at Room H, then moves to Room D for Plumbing Installation (t3\_bza), and finally moves to Room E for Plumbing Installation (t3\_bzb).
  + **Robot r1:** Moves from Room B to Room F to execute Foundation preparation (t1\_msa).
  + **Robot r2:** Moves from Room C to Room G to execute Foundation preparation (t1\_msb).
  + **Robot r3:** Performs Finishing work (t4\_se1) at Room J, then moves through Room G to Room I to complete the second Finishing work (t4\_wcp1).
* **Pareto Front Representation**
  + The Pareto front is the set of globally optimal, non-dominated solutions.
  + It strictly illustrates the best possible trade-off between maximizing the mission's overall probability of success and minimizing the mission's total cost.
* **Optimal Solution Details (Minimum Probability ≥0.90)**
  + **Overall Performance:** The best solution meeting the 0.90 minimum probability constraint achieves an overall success probability of **0.904** at a minimum cost of **$48.101**.
  + **Retry Strategy Trade-off:** Cost is managed by limiting the Human Worker (h1) to only **one retry** for all four task instances.
  + **Reliability Strategy:** To guarantee the success threshold, Robot r3 (t4\_se1) is assigned **five retries**, and Robot r2 (t1\_msb) is assigned **four retries**.