As an **Engagement Officer and Data Analyst at TechReady**, your role involves guiding stakeholders through their technology development pipeline and helping them identify where their inventions are **lagging**, **progressing normally**, or **ready for acceleration**.

The problem is that each invention in your dataset is supposed to move step by step from Level 1 (Concept & Research) to Level 2 (Concept Design), and finally to Level 3 (Early Prototype), ideally within a certain timeframe (e.g., projects from 2022 should be at Level 3 by now). However, many 2022 and 2023 projects are still stuck at lower levels, which means they are falling behind. At the same time, a few projects are moving faster than expected and are already ahead. Your job is to identify which inventions are behind, on track, or ahead, and help each one move one step forward. The key issue is that progress is not consistent across the projects or technology areas, and some may be repeating or not improving at all.

📊 **Column Explanation (With Purpose in Your Role)**

| **Column Name** | **Meaning** | **How It Helps You** |
| --- | --- | --- |
| **TRB Code** | A unique code for each project. Often encodes year + type + ID. | Use this to uniquely track each project and avoid duplication. |
| **Technology Area** | The broader category (e.g., Garden Wave Energy Converter, Vesselless Cargo). | Helps group projects by focus area; you can assign mentors or compare progress by category. |
| **Year Commenced** | The year when the project began (e.g., 2022 or 2023). | Crucial for evaluating if a project is behind or on track (older ones should be further along). |
| **Specific Invention** | The name of the actual invention or sub-project (e.g., Riverbank Water Jet). | Understand exactly what the project is building — may affect support needed. |
| **Level Number** | The development stage (One = 1, Two = 2, Three = 3). | Use this to determine stage: 1 = Concept, 2 = Design, 3 = Prototype. You’ll use this for prioritization. |
| **Level Meaning** | Human-readable version of the level (e.g., Concept & Research, Early Prototype). | Helps you quickly understand the meaning without decoding the level number. |

📊 **Current Technology Development Status Overview:**

| **Level Meaning** | **Count** |
| --- | --- |
| Concept Design (02) | 31 |
| Early Prototype (03) | 10 |
| Initial Testing (04) | 2 |
| Concept & Research (01) | 1 |
|  |  |
| **🔁 Your Task in Relation to These Columns**   * **Group** projects by Year Commenced * **Check** if their **Level Number** is where it should be (e.g., 2022 ones should be Level 3 by now) * **Support accordingly**:   + Level 1 → needs push to get to Level 2   + Level 2 → help with design refinement and testing   + Level 3 → early prototypes, assist with trial/pilot rollout |  |