

# Problem Statement for Successful Problem Solving

## Title: Enhancing Problem-Solving Approaches for Neurodivergent Individuals

**Context:** In research and practice involving neurodivergent populations—including individuals with autism, ADHD, and Asperger's syndrome—traditional problem-solving methodologies often overlook unique cognitive processing styles and stress management needs. This gap frequently results in ineffective solutions that exacerbate challenges rather than resolve them. According to various studies, neurodivergent individuals often experience heightened anxiety in conventional problem-solving settings, particularly in group dynamics and high-pressure environments. A review of existing literature shows that many neurodivergent individuals struggle with multitasking and organizational skills, which can hinder their engagement in complex problem-solving activities.

**Defining the Problem:** The primary issue is the absence of inclusive frameworks and methodologies that accommodate the cognitive diversity of neurodivergent individuals in problem-solving scenarios. This lack of tailored approaches can lead to increased stress and decreased effectiveness when addressing large, multifaceted problems, often resulting in feelings of overwhelm and disengagement.

**Objective:** The goal is to create a comprehensive, inclusive problem-solving methodology specifically designed for neurodivergent individuals. This methodology will facilitate the breakdown of large problems into manageable components while ensuring that the approach is not overwhelming or stressful.

### Components of the Solution:

#### 1. Inclusivity and Guidelines:

- Develop inclusivity guidelines that prioritize understanding and accommodating the unique needs of neurodivergent individuals. This includes tailored communication styles (e.g., clear, direct language), sensory considerations (e.g., minimizing distractions),

and structured environments conducive to learning and problem-solving (e.g., quiet spaces with visual aids).

## **2. SMART Goals:**

- Implement SMART (Specific, Measurable, Achievable, Relevant, Time-bound) goals for each identified sub-problem. Each SMART goal will include designated breaks to foster an environment that encourages sustained learning without exhaustion. For example, a goal might be: "Complete the first draft of the project outline within one week, with breaks scheduled every 30 minutes."

## **3. Theoretical Framework:**

- Formulate a theoretical framework that guides the development of projects within this methodology, focusing on principles of inclusivity and the cognitive strengths of neurodivergent individuals. This may include referencing existing models such as neurodiversity or strength-based approaches that celebrate diverse thinking.

## **4. Conclusive Research and Documentation:**

- Conduct thorough, conclusive research to support the methodology's effectiveness. Document findings to provide a clear rationale for the chosen approaches, aiding both the rapid development of solutions and the validation of the project. This research will involve qualitative and quantitative methods, including surveys and interviews with neurodivergent individuals and practitioners.

## **5. Graph Structure for Difficulty-Based Problem Solving:**

- Utilize graph structures to visually represent related problems based on difficulty levels. This visual representation will aid in systematically addressing sub-problems in an organized manner, allowing individuals to navigate complexities with greater ease.

## **6. PARA Structure Implementation:**

- Incorporate the PARA (Projects, Areas, Resources, Archives) organizational structure to maintain clarity and efficiency

throughout the problem-solving process. This structure will help individuals easily categorize and access the materials they need.

**Outcome:** The proposed methodology aims to create a structured, inclusive environment for neurodivergent individuals engaged in problem-solving. By fostering a systematic approach that emphasizes breaks, SMART goals, and clear documentation, this framework will mitigate stress and enhance the efficacy of solutions developed for complex challenges. Ultimately, this initiative seeks to empower neurodivergent individuals, encouraging collaboration among educators, psychologists, and neurodivergent communities to develop and refine these frameworks together, paving the way for innovative problem-solving strategies that benefit everyone.