**2025 PPT GenAI Hackathon Project Submission**

**Team Name**: FIVE **Team Members:** Archan Patel, Becky Meussner, Chelsea Adeyemo, David Akerman, Nour Khairallah  
**Project Title:** Constraint-Fibrillator

**Problem Statement**

During the weekly planning cycle, planners experience increased time expenditure due to constraint change requests at site, regional, and SRD levels. This can be attributed to the friction in determining what optimal constraint to show towards a solve.   
It is important to drive conversations around solve levers through data informed judgement and risk analysis.  
For the Hackathon, we’ll be focusing on VET constraint as a focal point of this problem statement.

**Solution**

Our solution to the above problem is the **Constraint-Fibrillator** AI tool, that aims to reduce the WoW friction at each level of LP review and improve planner productivity by giving planners timely insights and recommendations on accurate max (VET %) for early horizon weeks.  
It is designed to be simple, efficient and user friendly.

**Key Features/Use of AI**

**Optimal Constraint Determination-** Our AI-powered analysis tool uses carefully crafted prompt instructions to determine optimal constraints (VET) by analyzing historical execution data and current plans. It generates comprehensive site-specific performance analysis and compares maximum demonstrated output against Live plan input to identify gaps and opportunities for flex.  
 **Risk Assessment** To ensure reliable decision-making, the tool performs risk assessment for lever adjustments and guidance deviations, helping planners drive discussions with stakeholders through precise logic that determines marginal flex without introducing risk into the plan.  
  
**Future iterations** will expand capabilities to include what-if analysis, evaluating the effects of single or multiple lever changes on period-specific plans, ultimately reducing rework frequency in the LP cycle.

**Impact & Value**

This solution provides value across business lines, benefiting Planners, PPT Managers, Site Leaders, and Regional leaders by:

* Enhancing productivity and plan turn-around time by reducing planner time spend on reworking adjustments
* Improving decision-making through data-driven constraint validation and risk assessment
* Minimizing friction with SR leaders through increased confidence in data-informed constraint validation
* Decreasing the risk associated with guidance deviations on Thursday/ Friday and WK0 plan misses

**Appendices**:

  