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LJ University
University with a Difference

INNOVATION VILLAGE

SMARTSPHERE

A Self-Sustaining IOT Infrastructure Using Solar Energy and Sensor Networks

LET'S CONNECT

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1. WHY ARE WE DOING THIS PROJECT? (Project Rationale)

- Combines renewable energy and IoT automation
- Reduces energy wastage and manual operation
- Uses solar and piezoelectric power for efficiency

2. WHICH PROBLEM DOES IT ADDRESS?

- Manual operation of lighting, irrigation, and gates
- Dependence on non-renewable energy
- Lack of automation and real-time sensing

3. WHAT ARE THE ALTERNATE SOLUTIONS OUT THERE?

- Manual and timer-based systems
- Grid-powered smart systems
- Expensive and poorly integrated solutions

4. WHAT MAKES OUR PROJECT STAND OUT FROM THE REST?

- **All systems integrated into one smart unit**
- **Operates on renewable energy**
- **Low-cost, automated, and energy-efficient**