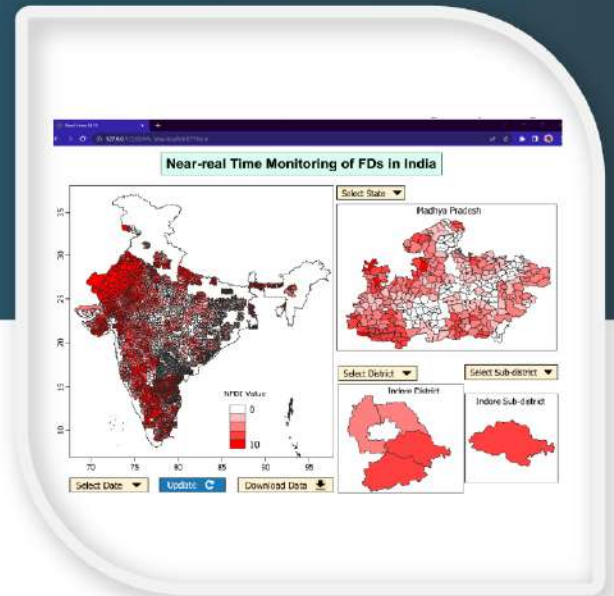


TECHNOLOGY DEVELOPMENT PROGRAM SMART CITIES AND SOCIETIES

Flash-Drought Monitoring Website

User-Friendly Website for Real-Time Flash Drought Monitoring Using Satellite Data



Issue Being Addressed

- ▶ Rising flash drought frequency harms significant crop acreage
- ▶ Lack of real-time monitoring causes recurring agricultural losses

Key Feature of the Technology/Product /App Which is Being Developed

- ▶ Integrating SMAP and ground sensor data for NFDI analysis
- ▶ User-friendly website that depicts FD intensity using observed CPS data
- ▶ Accessible map displays FD severity for specific dates and areas

Impact & Benefits

- ▶ Empowering farmers with crop planning and aiding policymakers in water management
- ▶ Enhancing environmental resilience through informed agricultural and water management practices

Team

- ▶ **Ms. Kommini Madhumitha**
UG Student
- ▶ **PI : Prof. Manish Kumar Goyal**
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Targeted Customers & End Users

- ▶ Farmers, Agribusinesses, and Agricultures related Firms

Commercialization Status

- ▶ Prototype is developed