



MIT IoT Workshop

Non-contact Transmission Line Monitoring

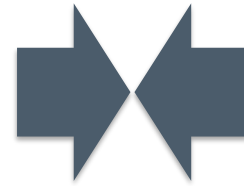
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Founded by MIT Alumni (Sloan '06)

The Problem



Growing Variable Generation



Inflexible Aging Transmission



Cost: \$5B/yr in US congestion; 15% renewable curtailment
Scale: \$6T in transmission assets worldwide

LineVision V3: Non-contact Transmission Monitoring

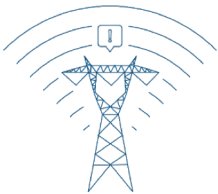


- **EMF sensor** monitors electrical properties of line
- **Optical sensor** monitors conductor position
- **Advanced analytics** for line ratings, anomaly detection/alerting and asset health monitoring
- Conducting pilot projects with Utilities worldwide



Applications for Utilities

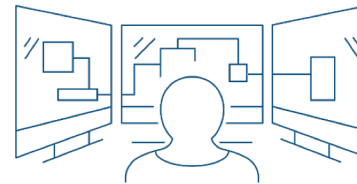
SITUATIONAL AWARENESS



DYNAMIC LINE RATINGS



ASSET HEALTH MONITORING

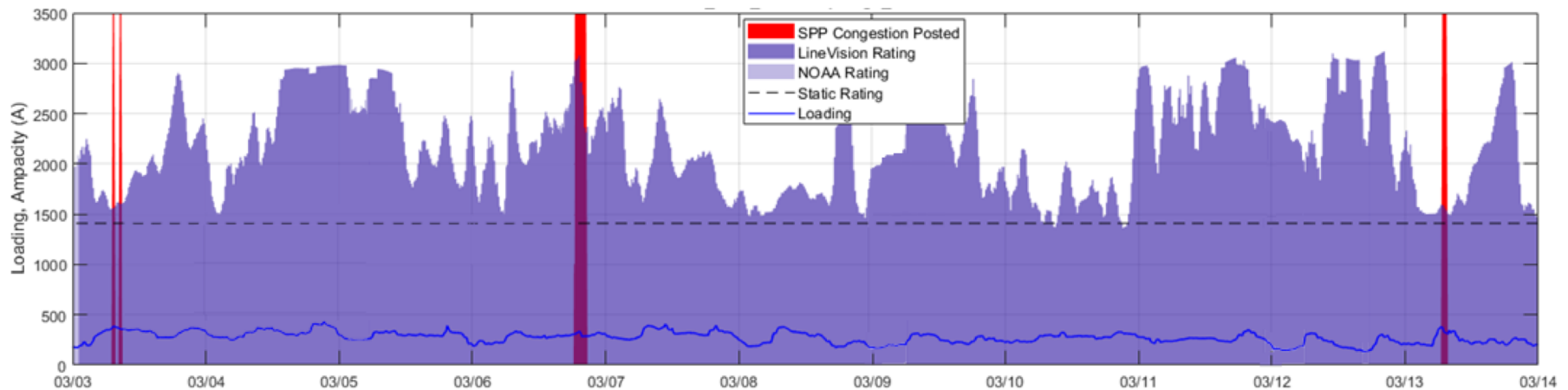


Client Success Story: Unlocking Extra Capacity



With Dynamic Line Ratings:

- \$18,000 in congestion savings, on one line, over a 2 week period
- 3 month ROI based on market savings





Partnership Opportunities

- Pilot projects with Utilities
- Integration with existing asset health and situational awareness tools

To learn more, visit: www.linevision.co



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