

# Fiber Networks Synoptics



# Networks Synoptics

- **Logical diagram of a network's infrastructure.**
- **Easy to consult, added information.**
- **Based on a georeferenced map of the same network.**
- **Automation of the creation of Network Synoptics maps shortens time spent, reduces workload and eliminates human error.**

# Related Work

- **Article 1: Fiber-optic transmission and networking: the previous 20 and the next 20 years**
- **Article 2: Optical Fibers for Flexible Networks and Systems**
- **Article 3: Research on power fiber-to-the-home operation and maintenance technology based on fiber analysis method**
- **Article 4: MANUFACTURING FEATURE RECOGNITION OF PARTS USING DXF FILES**



# Customer Requirements

1. Convert a georeferenced map in .DWG to network syntoptics map in .DWG
2. Complete an existing syntoptics map with information from configuration files in .XLSX.
3. Preview the resulting conversion of a desired georeferenced map.
4. Conversion process must be versatile to different block naming as well as changes in rules and regulations within the target industry.

# Work Planning: Next Month

- Complete Requirements document.
- Further research on work relating to CAD file processing.
- Study CAD processing libraries' documentation and create a code portfolio of all features for future consultation.
- Create a solution's architecture and application mockups.
- Write chapters 1,2 and 3 of dissertation.