Utilizing the ArcGIS Platform for Shared Public Agency Fiber Networks

Andrew King-Scribbins, Community Connectivity Manager, Hennepin County, MN
Agenda

• Hennepin County Community Connectivity Overview

• Who is impacted by Community Connectivity?

• Utilizing GIS and CrescentLink for fiber network management
Community Connectivity GOALS

• Expand the availability of high-speed, redundant, and cost-effective fiber optic infrastructure for the exclusive use of Hennepin County and other public agencies.

• Build strategic partnerships and create opportunities among public agencies within the County to deliver integrated services and improve outcomes.
Community Connectivity HISTORY

• Prior to 2012
  • A couple miles and relatively few connections

• 2012-2016
  • Started slow, but gradually increasing
  • Average 10 miles and 6 connections
Community Connectivity STATUS

• 120+ miles
• 50+ connections
• 2017 and beyond
Internal Stakeholders

• 8000+ employees
• 120+ county facilities
• 24+ departments
  • Libraries
  • Public Safety
  • Public Works
  • Health and Human Services
External Stakeholders

• 1.2 million residents (US Census 2016)
• 45 municipalities
• 22 ind. school districts
• State agencies
• Regional agencies
• Neighboring counties
• Private telecom
Data Management and Sharing

- Prior to GIS
  - Format
  - Location
  - Accurate?
  - Complete?

- After GIS
  - One source
  - Known accuracy and status
Project Planning

• Internal coordination
• Timeline
• Interested partners
• Project costing
Network Management

- CrescentLink tools
  - Strand and conduit counts
  - Strand assignments
  - Access and splice locations
- Tracing
  - Slack loops and % helix/slack
Video DEMO
Questions?

Andrew King-Scribbins

andrew.king-scribbins@hennepin.us, 612-596-8745

Hennepin County
300 South 6th Street
Minneapolis, MN 55487

CL booth #