How to Build a Dynamic Open Access Municipal Fiber Network

Implementation Roadmap

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Pre-Planning

(Tasks Outlined in MOU)

- ⮑ Introduce Ordinance that Fiber Optic Infrastructure is Essential Infrastructure. Granting City Authority to Evaluate Municipal Broadband
- ⮑ Establish Legal Authority to Establish Fiber Optic System
- ⮑ Conduct Survey of Residents and Businesses

Planning

- ⮑ Organize Broadband Committee
- ⮑ Develop Broadband Plan
  - » Strategic Plan
  - » Tactical Plan
  - » Project Plan
- ⮑ Hire/Assign Project Manager on Behalf of City
- ⮑ Educate City Leadership on Broadband Plan

Community Engagement

- ⮑ Begin Grassroots Campaign to Educate the Public
  - » Town Hall and Neighborhood Meetings
  - » Utility Bill Flyer Inserts
  - » City Specific Fiber Network Website (Gratis from EntryPoint per Agreement)
    - > Marketing Collateral
    - > Educational Videos
    - > Surveys
    - > Opt-in form
- ⮑ Educate Key City Employees on Broadband Plan
- ⮑ Deploy Proof of Concept / Demo System
- ⮑ Open House(s) to Demonstrate Network Functionality and Possibilities

Network Design and Engineering

- Network Design
- Implementation Plan
- Network Engineering (City Engineer or Contractor)

Construction / Implementation – Phase 1

- Conduct RFP for Construction Contracts
- Determine Construction Management (City Public Works or Contractor)
- Start building Network Backbone
- Build Exchange Facility (Central Office) or Fiber Hotel for Service Providers to Meet the City Network
- Identify Facilities to Bring Service Providers to the Exchange (Middle Mile)
- Obtain Internet Service Providers to Create an Open Marketplace

Construction / Implementation – Phase 2

- Conduct RFP for Construction Contracts
- Determine Construction Management (City Public Works or Contractor)
- Continue to Build Out Network Backbone
- Sequentially Build Out Fiber-hoods

Operations

- Determine Network Operator (City or Contractor)
  - If City as Network Operator – Train City IT Staff (per EntryPoint Agreement)
  - If Outsourcing Network Operator – Train Group (per EntryPoint Agreement)
- Billing
  - Utility Billing Integration
  - Capital Improvement Billing

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