

OMBN Project Overview & Status



One Maryland Broadband Network

As of Nov. 1, 2013

Detailed progress reports by County are available on the MD Department of IT (DOIT) website:
<http://doit.maryland.gov/ombn/Pages/ombnHome.aspx>

Project is Complete



- | PROJECT OFFICIALLY ENDED Aug 31.
- | Grant scope exceeded:
 - | 1,068 CAIs connected vs. grant award goal of 1,006 CAIs
 - | 1,324 miles of fiber route built vs. grant award goal of 1,294 miles
 - | On budget and schedule
- | Project in closeout phase through Nov 30, 2013

Project is Complete



- | Performance by major entities of the grant:
 - | Goal reference totals from Grant award
 - | Actuals reference totals at production stop on Aug 31, 2013

Sub Receptient	CAI Goal	CAI Actual		Miles Goal	Miles Actual
DOIT	291	370		500	535
ICBN	657	639		794	789
Frederick Co	58	59		0	0
TOTAL	1006	1068		1294	1324

Project is Complete



- | CAIs (community anchor institutions) connected
 - | Over half of the effort was to connect schools, libraries, and colleges.

CAI Type	# Connected	Description
Schools	497	Kindergarten-12
Libraries	58	
Public Safety	250	Police, Fire, 911
Community Colleges	16	
Other Higher Ed	9	
Other Community Support	41	Sr. Centers, Community Centers
Other Government Facilities	190	MVA, DHMH, DPSCS, etc
Medical Facilities	7	Hospitals, Medical Centers
TOTAL	1068	

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Overview: Purpose



- | The *One Maryland Broadband Network (OMBN)* project, set out to build **1294 miles of fiber** and connect **1006 community anchor institutions (CAIs)**.
- | The OMBN project built **1324 miles (+30)** of fiber enabling access to broadband for **1,068 (+62) (CAIs)**.
- | The project will foster economic development, improve public safety interoperability and extend and interconnect over 34 existing networks; State (networkMaryland), multiple County networks, and the Maryland Broadband Cooperative (MdBC).

Overview: Project Scope



- | The State of Maryland received a Federal Grant under the *American Recovery and Reinvestment Act* of 2009 (ARRA), Broadband Technology Opportunities Program (BTOP) for the implementation of the OMBN:
 - | Project Amount: \$158,416,521
 - | Grant Amount: **\$115,240,581**
 - | State and County match: \$43,175,940

Overview: Project Scope



- | The implementation team of the OMBN is comprised of four primary partners:
 - | **Prime Recipient:** Maryland Department of Information Technology (DoIT), representing the State of Maryland and executing in 15 rural MD Counties
 - | **Sub recipient:** Howard County, representing the Inter-County Broadband Network (ICBN), composed of 9 central Maryland Jurisdictions
 - | **Sub recipient:** MdBC providing open access in rural counties
 - | **Sub recipient:** Frederick County, connecting 58 CAIs with BTOP funds

Overview: Project Map



One Maryland Broadband Network Overview Legend

2000 Proposed Plan Routes	Proposed	State Parks
4200	Approved	Major Water
1000	Major Road	City Boundary
2000 Existing Fiber Route	Water	County Boundary
2000 Existing Fiber	Road	Relief

One Maryland Broadband Network - Project Status

Statewide Status

Legend: 0-100%
100% 0-100%
0-100% 0-100%
0-100% 0-100%



Overview: Period of Performance



- | Period of performance for grant:
 - | September 1, 2010 through August 31, 2013
- | Grant closeout period:
 - | September 1, 2013 through November 30, 2013

Status: Key Efforts



- | Federal Fund disbursements and compliance
- | Governance and Legal Agreements
- | Procurements
- | Engineering
- | Permitting
- | Construction

Status: Funding Disbursements



- | Approximately \$154M of \$158M project budget (98%) spent through Aug 31, of which:
 - | \$111 M drawn from \$115M Federal Grant
 - | \$43M drawn from \$43M in State/County matching funds
- | Invoices still flowing in from work recently completed before August 31.
- | All remaining project funds are projected to be spent before the end of the project closeout period on November 30, 2013.

Status: Compliance



- | Significant effort went into compliance with Federal, Grant, State, and County law:
 - | Three different federal quarterly reports
 - | Quarterly Maryland State Stat and Broadband Stat reporting and meetings
 - | Procurements must comply with both federal and local law
 - | Davis Bacon wage rules required (mostly construction)

Status: Legal Agreements, Gov't



- | Many intergovernmental agreements are required:
 - | Completed:
 - | Grant Agreement between State and Howard County (ICBN)
 - | Grant Agreement between State and Frederick County
 - | Grant Agreement and Resource Share of existing fiber between State and MdBC
 - | IRU from State to MdBC for separate 96 count fiber on grant funded backbone
 - | MOU among Howard County and 8 ICBN member jurisdictions
 - | MOUs between state and counties to share new fiber resources
 - | In Process:
 - | Remaining MOUs between State and counties to share new fiber resources

Status: Legal Agreements, Utilities



- | Legal agreements are also necessary with 7 Utilities for aerial attachments:
 - | Completed:
 - | BGE with ICBN counties
 - | PEPCO with ICBN counties
 - | Verizon with ICBN counties & State
 - | Potomac Edison with State
 - | Delmarva with State
 - | Berlin Electric with State
 - | Hagerstown Light with State
 - | In Progress: none

Status: Legal Agreements, Railroads



- | Encroachment agreements were required for each railroad crossing:
 - | Completed:
 - | CSX
 - | Amtrak
 - | MDOT
 - | MTA
 - | Maryland & Delaware Railroad
 - | Maryland Midland Railway
 - | Bay Coast Rail Road
 - | George's Creek Railway
 - | In Progress: none

Status: Procurement



- | Existing competitively bid contracts were used wherever applicable.
- | RFPs publically issued for:
 - | Fiber: contract awarded to OFS
 - | Logistics: contract awarded to IPX (for ICBN)
 - | Engineering: contracts awarded to Advantage, CTC, KCI, and Skyline Network Engineering
 - | Construction: contracts awarded to 21 companies
 - | Network Equipment: purchases awarded to 8 companies

Status : Permitting, Utilities



- | Permitting from 7 different Utilities was required (for pole access) for 311 miles of aerial route.
- | Pole applications were submitted to:
 - | Central MD: BG&E, PEPCO
 - | Eastern Shore: Delmarva Power, Berlin Electric
 - | Western MD: Potomac Edison, Hagerstown Light
 - | All Regions: Verizon
- | Make ready payments for 100% of the aerial route have been sent to the utilities.
- | All aerial construction has been completed.

Status : Permitting, Railroads



- | Encroachment permitting from 8 different railroads for 57 track crossings was required.
- | 57 permit applications were submitted.
- | All 57 permits were executed.

Railroad	# Crossings	Applications Submitted	Permits Received	Permits Executed
Amtrak	6	6	6	6
Bay Coast	2	2	2	2
CSX	30	30	30	30
George's Creeek	5	5	5	5
Norfolk Southern	1	1	1	1
Maryland Delaware	2	2	2	2
Maryland Midland	4	4	4	4
MTA	7	7	7	7
	57	57	57	57

Status : Construction



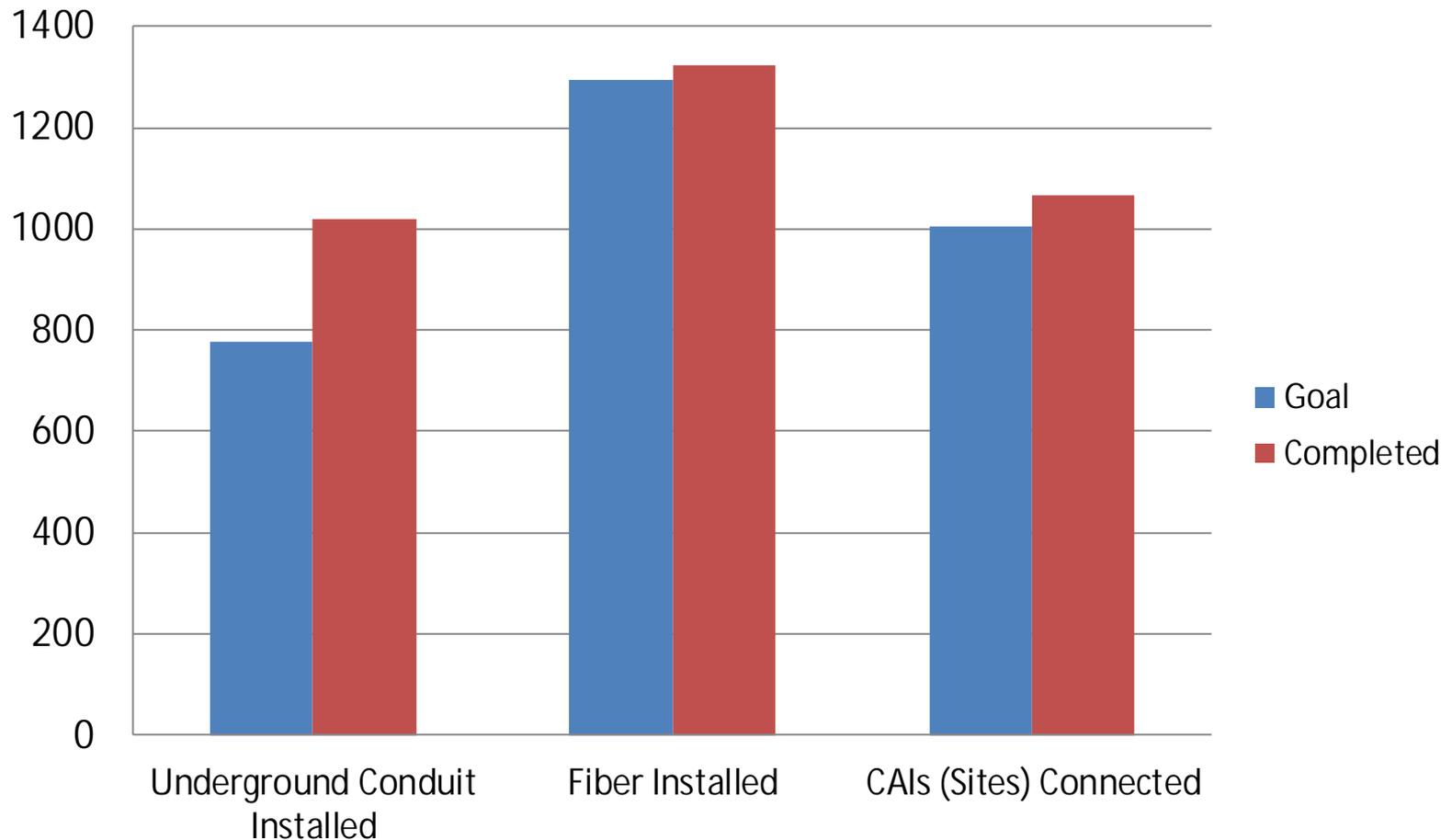
I Construction complete!

- | 1021 miles of conduit have been installed, representing 77% of the route total
- | 311 miles of aerial construction have been completed, representing 23% of the route total
- | 1,324 miles of fiber have been installed out of an originally planned 1,294 miles, or 102% of the goal
- | 1,068 CAIs (sites) have been connected out of an originally planned 1,006 miles, or 106% of the goal

Status: Construction



Construction at a glance (Miles)



Project Closeout



- | Key activities include:
 - | Preparing the end of project federal reports and deliverables
 - | Processing invoicing and drawing remaining funds
 - | Archival of project files

The only allowable expenses after Aug 31 are for closeout activities by the program staff. However, invoices received for work before Aug 31 can be paid.

Upcoming Events



| Previous Events:

- | Construction Ground Breaking was held on **June 13** in Elkridge, Howard County
- | Construction Ground Breaking was held on **August 1** in Forestville, Prince George's County
- | First Site Lighting was held on **September 28** at the Maryland State Police Barracks in La Plata, Charles County
- | ICBN Community Anchor Symposium held on March 26th at the Johns Hopkins APL
- | Construction ground breaking was held on **May 3** at the Worcester-Wicomico Community College in Salisbury

| Upcoming Events

- | Two events are being planned (t.b.a.) prior to closeout