

CLACKAMAS COUNTY BOARD OF COUNTY COMMISSIONERS

Policy Session Worksheet

Presentation Date: January 30, 2018 **Approx. Start Time:** 3:30 **Approx. Length:** 30 min.

Presentation Title: Presentation on the status of the CBX RFI to become an ISP and some possible ISP solutions.

Department: Technology Services

Presenters: Dave Cummings, Duke Dexter, Laurel Butman

Other Invitees: Dave DeVore, Scott Brown

WHAT ACTION ARE YOU REQUESTING FROM THE BOARD?

Currently no action is being requested from the board. This is an update from The Clackamas Broadband eXchange (CBX) to the board on the status of the Request For Information (RFI) to either form public / private partnerships with local Internet Service Providers (ISP), or in becoming an ISP to meet the board goal of providing high-speed, affordable internet service to all homes and businesses in Clackamas County.

EXECUTIVE SUMMARY:

In 2010, Clackamas County received a federal Broadband Technology Opportunity Program (BTOP) grant to develop a dark fiber network in Clackamas County east of the Willamette River. The grant funded a 180-mile dark fiber network that was constructed from 2010-2013. In the time since the grant expired, CBX has continued to expand the fiber footprint throughout Clackamas County connecting into areas such as Wilsonville and West Linn as well as additional connections in areas we already serve. This has allowed the expansion of services to many additional schools and public agencies, and opportunities for use by local commercial service providers.

In 2017, the BCC made the availability of affordable, high-speed internet service to all County homes and businesses a County goal by 2020. To help meet this goal, CBX is currently issuing an RFI to determine what potential options exist to create partnerships with local ISPs to provide the service, or for CBX becoming an ISP to provide the service or a combination of both.

This presentation is to update the board on the status of the RFI and the potential options for CBX. The demand for affordable internet service is becoming more of a public issue, and CBX is well placed to help make affordable high-speed internet service to every home and business a reality in Clackamas County.

FINANCIAL IMPLICATIONS (current year and ongoing):

Financial implications are not known at this time. Will require the results of the CBX RFI to determine the technical, business and financial options available to deliver ISP services to the homes and businesses of Clackamas County.

Is this item in your current budget? YES NO

At this time there is no budget request or requirement. Informational only.

What is the cost? \$ 0 What is the funding source? CBX Construction Fund

At this time there is no budget request or requirement. Informational only.

STRATEGIC PLAN ALIGNMENT:

- How does this item align with your Department’s Strategic Business Plan goals?

This proposed process would help CBX align with key measures:

- Increase the total size (linear feet) of the CBX fiber optic network and internet services available for new and current sites
- Increase communication potential and capability between partnering agencies and institutions throughout the County and region

- How does this item align with the County’s Performance Clackamas goals?

The proposed process aligns with the following Performance Clackamas goals:

- *Grow a Vibrant Economy*
Additional expansion and services will provide new economic opportunities
- *Build a Strong Infrastructure*
Fiber optic network expansion provides a stronger, more flexible and capable fiber infrastructure and services throughout Clackamas County and the region

LEGAL/POLICY REQUIREMENTS:

No legal requirements at this time.

PUBLIC/GOVERNMENTAL PARTICIPATION:

CBX works directly in partnership with many public and governmental agencies, assisting them to connect to and use the CBX network in support of their public service needs. The goal of this RFI will be determine potential options for a public / private partnership with other ISPs to provide the internet services to the homes and businesses of Clackamas County or for CBX to provide the ISP services directly.

OPTIONS:

No options at this point, need the results of the RFI to determine available options.

RECOMMENDATION:

No recommendation at this point, this is an update on the current status of the CBX RFI and potential options to provide ISPs services to the homes and businesses of Clackamas County.

ATTACHMENTS:

Attachment A: PowerPoint of CBX RFI for ISP Services and options

SUBMITTED BY:

Division Director/Head Approval _____ DD

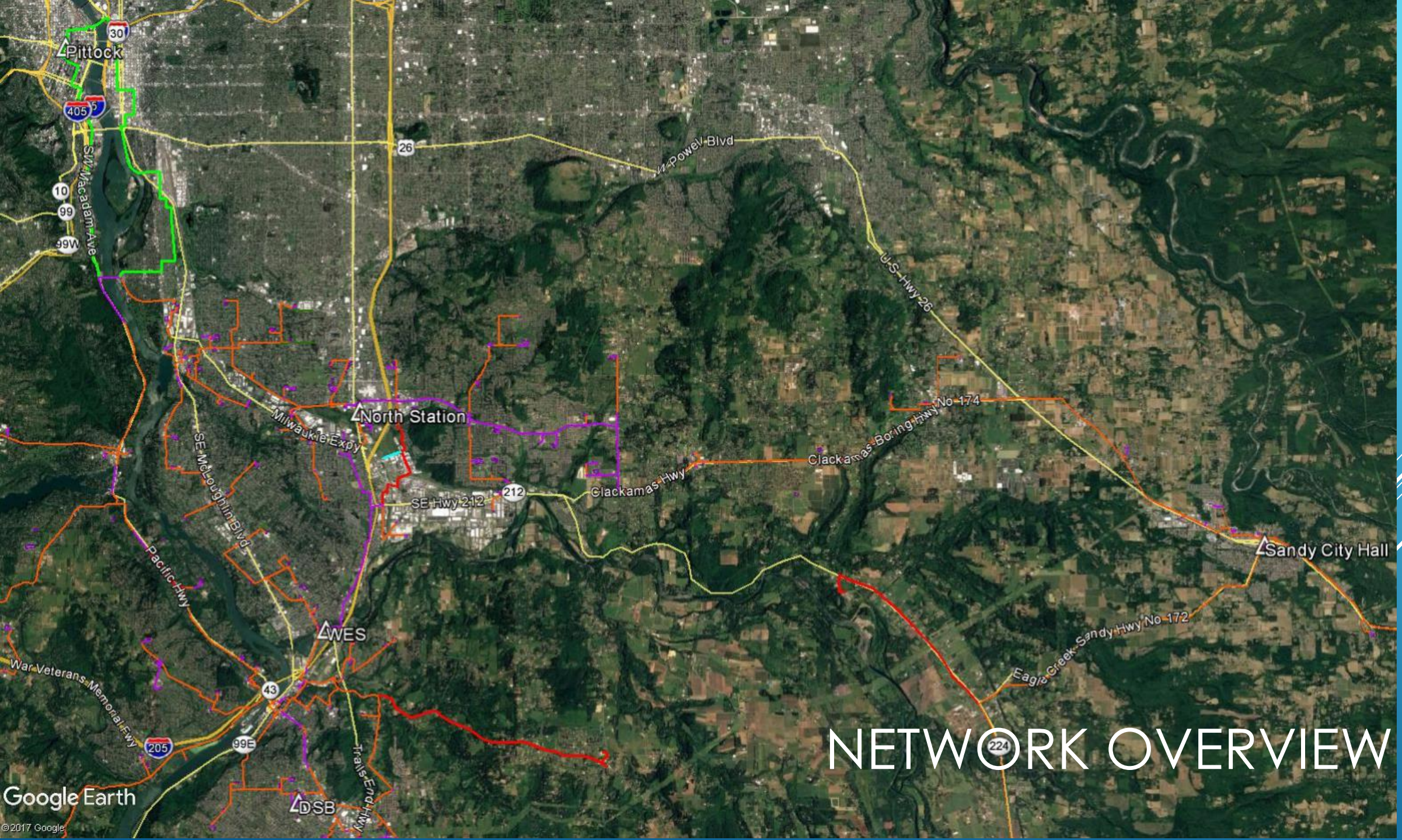
Department Director/Head Approval _____ DC

County Administrator Approval _____ LB

For information on this issue or copies of attachments, please contact Duke Dexter @ 503-722-6663

CLACKAMAS COUNTY ISP

The image features a solid blue background with a gradient from light to dark. On the right side, there are several white, parallel diagonal lines that create a sense of motion and depth. The text 'CLACKAMAS COUNTY ISP' is centered horizontally and rendered in a clean, white, sans-serif font.



NETWORK OVERVIEW

- ▶ CBX provides transport for all ISPs
- ▶ CBX partners with one ISP
- ▶ CBX becomes an ISP

OPTIONS

- ▶ In this design, CBX builds a 10Gbps transport network between our various hub sites (Pittock, North Station, WES, DSB, and Sandy City Hall).
- ▶ Any ISP in the Portland Metro region that wants to offer services on our network could connect in at the Pittock Building or any of our other hub sites.
- ▶ CBX would own the main transport network between the core hub sites and we would also build all the connections to each customer. This cuts down on the number of pole attachments on utility poles and also gives customers long term flexibility for changing providers in the future.

CBX PROVIDES TRANSPORT FOR ALL ISPS



- ▶ In this design, CBX builds a 10Gbps transport network between our various hub sites (Pittock, North Station, WES, DSB, and Sandy City Hall).
- ▶ CBX would partner with a single ISP (Wave, SandyNet, etc) and let them use the transport network we build to provide Internet and phone service.

CBX PARTNERS WITH ONE ISP

Decorative white lines consisting of several parallel diagonal strokes in the bottom right corner of the slide.

- ▶ In this design, CBX builds a 10Gbps transport network between our various hub sites (Pittock, North Station, WES, DSB, and Sandy City Hall).
- ▶ CBX would buy ISP from a provider in the Pittock building
- ▶ CBX putting out an RFI to solicit interest for these services

CBX BECOMES AN ISP

A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against a blue background.

- ▶ https://www.reddit.com/r/Portland/comments/7ryunq/municipal_broadband_pdx_on_a_growing_concern/
- ▶ https://www.reddit.com/r/Portland/comments/7ocdps/rally_for_municipal_broadband_in_portland/
- ▶ https://www.reddit.com/r/Portland/comments/7npyid/personal_telco_project_meeting_with_discussion_of/
- ▶ https://www.reddit.com/r/Portland/comments/7mksdx/cityowned_highspeed_internet_networks_getting/
- ▶ https://www.reddit.com/r/Portland/comments/7mhovd/petition_municipal_broadband_in_portland_oregon/
- ▶ https://www.reddit.com/r/Portland/comments/7mgcf6/municipal_broadband_pdx_facebook_group/
- ▶ https://www.reddit.com/r/Portland/comments/7m7636/anyone_interested_in_a_nonprofit_portland_mesh/
- ▶ https://www.reddit.com/r/Portland/comments/7lxaqy/local_mesh_internet_possible_long_term_option_for/
- ▶ https://www.reddit.com/r/Portland/comments/7kupn6/if_they_can_do_it_in_sandy_we_can_do_it_here/

PUBLIC SUPPORT:

/R/PORTLAND REDDIT THREADS – LAST 45 DAYS

- ▶ Municipal Broadband PDX pushing for Portland to make internet a public utility
 - ▶ <http://katu.com/news/local/municipal-broadband-pdx-fighting-for-portland-to-make-internet-a-public-utility>
- ▶ Should internet be a public utility? Portland advocates say yes
 - ▶ <http://katu.com/news/local/should-internet-be-a-public-utility-portland-advocates-say-yes>

PUBLIC SUPPORT: MEDIA

- ▶ Municipal Broadband PDX Group: 2,500+ members inside last 45 days.

PUBLIC SUPPORT: FACEBOOK

Rally for Municipal Broadband in Portland, Oregon

The internet is under attack, and the city of Portland is fighting back.

Sunday, 1/14, 2 PM
Portland City Hall



Join the fight to preserve net neutrality!

Why is Net Neutrality important?

Net neutrality is what prevents your ISP such as comcast from treating internet traffic unfairly, for example slowing down netflix while giving a speed boost to hulu. Comcast could actually do this since they own 30% of hulu. Another reason why net neutrality is so important is that it helps small businesses get started. What the ISPs want to do is make businesses pay premiums for decent service. A lot of startups won't be able to afford the premiums and won't be able to start at all. We need to have net neutrality in order to protect innovation.

What is Municipal Broadband?

Municipal broadband is the idea that we treat the internet as a utility similar to water or electricity. The city builds its own internet infrastructure. This actually has already been done in other cities, one notable example being SandyNet in Sandy OR.

Connect with us!  Municipal Broadband PDX
www.municipalbroadbandpdx.org

