Agenda

- Welcome/member comments
- Broadband and Digital Literacy Update
- Action Plan - Short-Term Action Items Updates
- Middle Mile Update
- Last Mile and Adoption Program
- Affordable Connectivity Program Update
- NTIA IIJA Broadband Program Update
- Public Comment
Welcome

Russ Nichols, Chair
Acting Director, California Department of Technology
Broadband and Digital Literacy Update

Scott Adams
Deputy Director, Broadband and Digital Literacy
OBDL Update

• Staff update
  o Cole Przybyla, Broadband Access and Deployment

• Work Plan Update
  o Action Plan Revision / Portal Tracker Updates
  o Monthly Action Item Check-ins
  o External Stakeholder Engagement Plan
  o Broadband for All Roundtables
## Broadband for All Roundtables

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Co-Conveners/Presenters</th>
</tr>
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</table>
| Provide information and seek partnership and alignment on implementation of: | • California Department of Technology  
• GoldenStateNet  
• California Public Utilities Commission  
• Governor’s Office of Business and Economic Development  
• Caltrans  
• California Emerging Technology Fund  
• California Department of Education  
• California State Library  
• Governor’s Office of the Tribal Advisor  
• Department of General Services  
• National Telecommunications and Information Administration |
| • Broadband for All Action Plan  
• Middle-Mile Broadband Initiative  
• CPUC’s Last-Mile and Adoption programs  
• Affordable Connectivity Program  
• Digital equity initiatives         |
• Pre-event questionnaire

• Post-event surveys
  o Local Jurisdiction Permitting
  o ISP State Permitting and Properties
  o Tribal Government CPF and SDEP applications

• Videos, transcripts, and presentations
  o Sent to all registrants
  o Posted on Broadband for All Portal
## Broadband for All Roundtables

<table>
<thead>
<tr>
<th>Roundtable</th>
<th>Date</th>
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<tbody>
<tr>
<td>Cities, Counties, Consortia, MPOS</td>
<td>04/28/22</td>
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<tr>
<td>Caltrans Broadband Industry Meeting –Internet Service Providers</td>
<td>05/12/22</td>
</tr>
<tr>
<td>School, Libraries, and Community-based organizations</td>
<td>05/12/22</td>
</tr>
<tr>
<td>Tribal Governments</td>
<td>05/19/22</td>
</tr>
</tbody>
</table>

Engaged with over 1000 interested parties
Action Plan Updates
Short-Term Action Items

California Public Utilities Commission
Governor’s Office of Business and Economic Development
California Transportation Agency
California Department of Technology
California Office of Emergency Services
California Department of Aging
Recommend, and adopt shared standards among all state grant-funding and related broadband programs.
Action Item #1 (CPUC)

Shared Standards for State Broadband Programs
Status: Completed

Completed with the passage by the Legislature of:
  o SB 156  (Approved by the Governor - July 20, 2021)
  o SB 4    (Approved by the Governor - October 8, 2021)
  o AB 14   (Approved by the Governor - October 10, 2021)
Establish standards for network backhaul resilience and reliability.
Standards for Broadband Resilience & Reliability
Status: Continuing

- Under CPUC Rulemaking R.18-03-011, decisions D.20-07-001 (wireless) and D.21-02-029 (wireline) require facilities-based providers, for network located in High Fire Threat Areas 2 and 3 to submit:
  - Reports on facilities with backup power indicating which have at least 72-hour back-up power and which do not and plans on upgrading those without 72-hour backup.
  - Emergency Operations Plans;
  - Emergency Contact Information;
  - Emergency Preparedness Exercise Attestation; and
  - Public Communications Plan.

- The CPUC issued Rulemaking R.22.03.016 in March 2022 to amend its primary rules (General Order 133) on service quality standards for telecommunications carriers.
Develop a framework to define essential broadband service affordability standards, evaluate those standards relative to other essential service costs, and develop a range of metrics to provide a comprehensive assessment of households’ ability to afford essential broadband service.
Broadband Affordability
Status: Continuing

• Under the Order Instituting Rulemaking (R.18-07-006), the CPUC issued a Staff Proposal on Affordability Metrics Implementation (November 5, 2021), which includes an Affordability Ratio Calculator.

• With this affordability framework established by CPUC, the Commission is now entering the implementation phase, with a Proposed Decision slated for June – July 2022.
Action Item #19 (CPUC)

Collect more granular and more accurate broadband data and leverage this information to build out the public California Interactive Broadband Map.
Granular Broadband Data
Status: Continuing

• The CPUC Communications Division (CD) issued a data request for location (rather than census block) broadband data to approximately 220 broadband providers statewide on March 15, 2022, to provide location-based broadband data by June 1, 2022 (based on broadband availability data as of December 31, 2021).
  o CD will be processing this data with the goal of publishing the data on the California Interactive Broadband Map by December 2022.

• CD is closely monitoring the new location-based Broadband Data Collection (BDC) procedures and protocols of the Federal Communications Commission (FCC), to update CPUC broadband data and mapping processes in full compliance with federal requirements.
Leverage the California Public Utilities Commission’s cost model to inform broadband planning and investments, project broadband availability based on existing resources, and inform statewide discussions of additional resources required to achieve our broadband goals.
Action Item #20 (CPUC)

Broadband Cost Model
Status: Continuing

• The California Broadband Cost Model (CBCM) is being updated to provide estimates to support the CPUC’s prioritization of project areas for the last mile funding programs.
  o The CBCM was first published in December 2020 as Appendix B. to the Council’s *Broadband Action Plan 2020*.
  o The charts, maps, and report that comprise the CBCM are accessible on the CPUC’s website: California Broadband Cost Model (CBCM)
Establish a Broadband for All portal to enable easy access to broadband information and tools and serve as a central repository.
Action Item #21 (CPUC)

Broadband for All Portal: Validate Broadband
Status: Continuing

- CDT has successfully implemented the new California Broadband for All Portal
- As CPUC implements the new FCC-mandated location-based broadband data and mapping protocols in 2022, CD will implement an upload tool for ‘crowd sourced’ public input about broadband availability.
  - CDT and CPUC will cooperate to host the public facing upload tool on the Broadband for All Portal.
  - CPUC will implement the upload tool in compliance with the FCC’s Broadband Data Collection rules for data validation and verification.
Action Item #2 (GO-Biz)

Identify alternative financing opportunities with government and philanthropic partners to maximize funding for new infrastructure.
Action Item #2 (GO-Biz)

- Funding Opportunities on Broadband Portal
  - Funding opportunities | Broadband for All (ca.gov)

- Development in-process of philanthropic funding tool

- Target completion date: Ongoing as opportunities arise
Action Item #4 (CalSTA)

Implement a Dig Smart policy to install conduit as part of any appropriate and feasible state-funded transportation project in strategic corridors.
Action Item #4 (CalISTA)

• Allows for co-location of underground conduits

• Currently implementing and promoting co-location

• Target completion date: December 31, 2022
Action Item #5 (CalISTA)

Improve state encroachment permitting processes and rights-of-way management as needs or opportunities are identified, to accelerate broadband deployment projects that will serve un-and under-connected communities.
**Action Item #5 (CalSTA)**

**Enchroachment Permitting and Rights-of-way management**

**Status: Completed**

- Amended broadband projects permitting process
- Updated broadband accommodations policy
Action Item #6 (CDT)

Explore various actions to enhance permitting processes at all levels of government through meaningful partnerships. Convene semi-annual meetings with broadband providers and local governments to enhance permitting processes that support the construction of broadband infrastructure and the needs of local governments.
### Action Item #6 (CDT)

<table>
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<th>Federal</th>
<th>State</th>
<th>Local</th>
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<tr>
<td>• Federal Permit Improvement Steering Council – FAST 41 Program</td>
<td>• Caltrans / Resources Agency Partners</td>
<td>• Local Jurisdiction &amp; ISP Surveys</td>
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<td></td>
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<td>• Check List</td>
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<td>• Playbook</td>
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Establish a Broadband for All portal to enable easy access to broadband information and tools and serve as a central repository.
Action Item #21 (CDT)

Status: Completed

www.broadbandforall.cdt.ca.gov/

Updates:

• Action Plan Tracker
• Events Page
• Affordable Connectivity Program Page
Action Item #8 (CaIOES)

Regularly coordinate and convene with jurisdictions implementing next-generation 911 to expand broadband infrastructure to enhance public safety and disaster preparedness, response, recovery, and mitigation capabilities.
NG 9-1-1 Overview

We are live in Tuolumne County!
Tuolumne County Sheriff with T-Mobile, Verizon, and Frontier Wireline

With transfer capability to:
CHP Merced
CalFire San Andreas
Sonora PD

Northern Region
169 PSAPS
7,000,000 Calls / Year

Southern Region
91 PSAPS
7,000,000 Calls / Year

Central Region
112 PSAPS
5,000,000 Calls / Year

Statewide
All 450 PSAPS
27,000,000 Calls / Year

Los Angeles Region
78 PSAPS
8,000,000 Calls / Year

North Coast
Shasta
Siskiyou
Modoc
Tulare
Kern
San Luis Obispo
Ventura
Los Angeles
Riverside
San Diego
Imperial

Los Angeles Region
78 PSAPS
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Statewide
All 450 PSAPS
27,000,000 Calls / Year

Northern Region
169 PSAPS
7,000,000 Calls / Year
NG 9-1-1: Connectivity

Statewide Data Centers

Aggregation

Regional Data Centers

2 LTE SIM Cards

State MW

Every PSAP in state

SD-WAN ESI.net for Statewide Provider

Every PSAP in region

SD-WAN ESI.net for Region Providers

9-1-1 Traffic

April 2022
Broadband Buildout and NG 9-1-1

• NG911 Deployment PSAP Dashboard – 95% Completed
  o https://calema.maps.arcgis.com/apps/dashboards/edccc14f232640c4b53a65e946880568

• Connectivity to each PSAP – Goal is 2 or more diverse fiber connections plus a multi-SIM LTE solution

• Connectivity has been active to over 250 PSAPs since Nov 2021

• Reality: Fiber is not available at all PSAPs

• Alternatives discussion
Action Item #15 (CDA)

Analyze the needs of people ages 60 and older for access to affordable, reliable, high-speed broadband, and identify programmatic and partnership opportunities to meet these needs.
Action Item #15 (CDA)

CDA Digital Divide Programs and Initiatives

- Google Home Smart Speakers (GHSS) Project
- Connections, Health Aging and Technology (CHAT) Program
- Access to Technology (ATT) Program
- Digital Connections (DC) Program
Middle-Mile Update

Mark Monroe
Deputy Director, Broadband Middle-Mile Initiative
Middle-Mile Update

- Budget Change Proposal
- Procurement
  - Fiber
  - Materials (Conduit)
- Statewide System Level Map
- Moving Forward
Summary of Map Designs

CPUC map: 9,470 miles
GSN map: 8,650 miles
CDT map: 10,000 miles
Summary of Map Designs

- **CPUC map:** 9,470 miles
- **GSN map:** 8,650 miles
- **CDT map:** 10,000 miles
Summary of Map Designs

CPUC map: 9,470 miles
GSN map: 8,650 miles
CDT map: 10,000 miles
Moving Forward

CDT will continue the following efforts:

• Get revised construction cost estimates from Caltrans.
• Get updated market assessment for dark and lit service.
• Get updated locations of potential infrastructure that can be leased through IRUs.

As data is refined, CDT will identify where the state will be able to build and where it will need to use IRU leases.
Last-Mile Update

Darcie L. Houck
Commissioner, California Public Utilities Commission
Last Mile Initiatives and Supporting Programs

1. **Broadband Technical Assistance** - $50 million total **
   - Purpose: Help prepare local governments & Tribes for broadband infrastructure investments.

2. **Loan Loss Reserve** - $750 million
   - Purpose: enable local governments & nonprofits to secure financing for broadband infrastructure.

3. **Federal Funding Account** - $2 billion
   - Purpose: Funding for last-mile broadband infrastructure projects.

4. **California Advanced Services Fund (CASF)** ~up to $150 million per year
   - Purpose: assist with broadband infrastructure deployment & adoption in public housing, Tribes, & unserved areas.

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Middle-Mile Locations

- Identify routes & priority areas using public process.
- Report mapping & analysis to the California Department of Technology for use in program implementation & project development.

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* May be increased pursuant to Public Utilities Code Section 281(d)(4)
** Included in $2 billion Last-Mile Initiative
Local Agency Technical Assistance

• $50 million for technical assistance grants to local agencies and Tribes.

• Funding can be used for public entity or consultant costs to create Joint Powers Authorities, and for other costs to prepare to deploy broadband infrastructure, including for environmental permitting, engineering, and design activities.

• **Timing** - Applications June-July 2022.

• **Amount** - Grants to qualifying local agencies and tribal governments in amounts not to exceed $500,000 per local agency or tribal government, per fiscal year.

• More information
Loan Loss Reserve Fund

• **$750 million** Loan Loss Reserve Fund to support development of public broadband networks.
  - A form of credit enhancement, or a type of insurance, that helps lenders control for the risk that loans will not be repaid. This new funding will provide collateral to local governments and non-profits for bond financing.
  - The US Department of Energy operates a similar loan loss reserve program.

• CPUC [Rulemaking 20-08-021](#)

• **Timing** - Proposal for input by August 2022, comments and workshops to follow.

• **Actions** - Engage in the implementation and consider becoming a party to the proceeding to inform program rules that meet needs.

Source: [Altman Solon](#)
The new $2 billion **Federal Funding Account** is for last-mile broadband infrastructure grants.

These funds must be encumbered by the **2025** federal deadline, and spent (i.e., projects built) before **2027**.

- **Timing** - Targeting applications before July 2022.
- **Action** - Get ready to apply or to support those who will apply.
Adoption, Consortia, & Infrastructure Broadband Grants

- Broadband Adoption, Consortia, and Infrastructure grants are supported by the California Advanced Services Fund (CASF) broadband grant program. Up to $150 million a year funded by a surcharge on telephone bills
  - Broadband Adoption Grants
  - Broadband Consortia Grants
  - Broadband Infrastructure Grants
- **Timing** - updated rules for Adoption, Consortia, and Housing as soon as May 19; applications in June/July. Proposal on Infrastructure expected before end of second quarter 2022.

- **Action**
  - Engage on the implementation of the Broadband Adoption, Consortia, and Public Housing Program Updates in Rulemaking 20-08-021.
    - Become a party to the Rulemaking.
    - Join the mailing list for funding availability (email CASF_Adoption@cpuc.ca.gov)
  - Watch for the CASF budget allocation of amounts across the subaccounts (Adoption, Consortia, Infrastructure, and Public Housing)
The revamped Broadband Public Housing Account Grants will provide grants to connect qualifying low-income housing, such as publicly supported housing communities, with infrastructure to provide free internet service.

**Timing** - Targeting applications in June/July 2022.

**Action** - Public entities and non-profit orgs: assess broadband needs of publicly support housing communities. Prepare applications or support entities that will apply. Stay tuned for staff proposal expanding eligibility.
Broadband Adoption Update

Sunne Wright McPeek, President and CEO
Susan Walters, Senior Vice President
California Emerging Technology Fund
Who Qualifies for Affordable Connectivity Program*?

A household (HH) is eligible if any member of the household meets one of these criteria:

► Has income that is at 200% or below of the Federal Poverty Level.

► Participates in specific assistance programs, such as CalFresh, Medi-Cal, or Lifeline.

► Receives a Pell Grant in the current school year.

► Has a child at a school designated Community Eligibility Provision (CEP), which is part of the Free and Reduced Meal Program.

*Device Benefit is available on a very limited basis from only small ISPs.
GOAL #2: Actions to ensure all Californians have access to affordable broadband and necessary devices.

Set the Goal to Enroll 5M Eligible Residents in ACP
- By 2024 reach 90% or 4.5 million households
- By 2027 95% 2027 or 4.75 million households

#16: Promote, track and publicly report the progress of adoption of affordable internet services and devices.

- Engage All Qualifying State Agencies
- Partner with CDT to Publish on website ACP Enrollment Tracker Developed by CETF with CSU, Chico
- Enable local and Tribal governments and anchor institutions to promote ACP
Activity Since March 2 to Achieve Universal Adoption of High-Speed Home Internet Connectivity

CBC Call to Action Presented at 30 Meetings (over 1,000 registrants)

- State: Broadband for All Roundtables, California State Association of Counties
- Regional: SCAG, SANDAG, Digital Divide Transformation Task Force, Digital Equity Coalition
- Local: 15 Counties Interested/5 confirmed—Riverside, San Bernardino and San Diego Joining Los Angeles and Yolo; GovOps Enlisted UCLA’s Health Community Navigators for Door to Door Covid-19 Education and Sharing ACP Information (40,875 conversations and 237 calls March to May 16)

Investor Owned Utilities MOU with CETF for California

So Cal Edison, So Cal Gas, PG&E and SDG&E agreed to promote affordable Internet in 4 ways.

- Display a phone number and information link on their websites. (17,772 unique visits in FY22 and 1,901 calls since Nov)
- Integrate broadband discount messaging twice annually in select CARE and FERA mailings. (872K sent in FY22)
- Incorporate CETF materials in ESA education kits. 198K (projected for the 2022 year)
- Motivate CBOs and Contractors working with low-income residents to share information on affordable Internet (240)
Call to Action for Sustained Focus and Accountability

- Achieve the Overall Goal: 90% in 2024 and 95% in 2027
- Enlist all State Agencies, Counties and School Districts to Promote ACP
- Engage in Broadband Planning for BEAD, DEA and MM to Secure Funding for California to Effective Build Infrastructure and Promote Adoption*
- Engage CBOs as Digital Navigators with Performance Metrics
- Commit to Hold Each Other Accountable (Quarterly Reports to the CBC)

*Adoption means affordable service, devices and access to digital literacy skills needed for all.
Publically Tracking ACP Eligibility and Enrollment

Broadband for All Portal has the ACP Enrollment Tracker for Everyone to Use

- Data Provided by USAC
- CETF Worked with the GIS Unit at CSU Chico to develop map
- CETF and CSU Chico partnered with CDT to make it useable by the public
- Demonstrate Tracker

ACP Enrollment Tracker enables:

- Better management and evaluation of outreach strategies.
- Momentum to build toward local goals.
- Near term feedback of local and regional performance.
- Metrics to celebrate!

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<th>Total Enrollments by County</th>
<th>Percent of 5M Goal</th>
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<tr>
<td>January</td>
<td>1,168,592</td>
<td>23%</td>
</tr>
<tr>
<td>February</td>
<td>1,294,957</td>
<td>24%</td>
</tr>
<tr>
<td>March</td>
<td>1,319,325</td>
<td>25%</td>
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Affordable Connectivity Program enrollment tracker

The California Emerging Technology Fund and the California Information Center at the California Public Utilities Commission worked to enable the Telecommunications Connectivity Program and its predecessor, in California. This is also being heavily promoted by the Affordable Connectivity Program. It is a government benefit that helps low-income residents save on the cost of their monthly internet-related services.

The CET is a non-profit organization and a member of the California Broadband Coalition and supports greater access to affordable broadband services to all residents of California.

Households eligible and enrolled households

Latest update: May 2022

**ACP eligible households in California**
- Total eligible households: 12,968,767
- Households eligible: 5,882,767
- Eligible percentage: 43%

**Eligible California households enrolled in ACP**
- Total eligible households enrolled: 1,164,992
- Enrolled households: 846,757
- Enrollment percentage: 20%

Households Enrollment by Month

Households Enrollment by County

<table>
<thead>
<tr>
<th>County</th>
<th>Eligible</th>
<th>Enrolled</th>
<th>Percentage</th>
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<tr>
<td>Los Angeles</td>
<td>3,668,274</td>
<td>2,105,476</td>
<td>57.5%</td>
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<tr>
<td>Orange</td>
<td>1,091,749</td>
<td>421,714</td>
<td>39.4%</td>
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<tr>
<td>San Diego</td>
<td>1,245,074</td>
<td>411,470</td>
<td>33.3%</td>
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<tr>
<td>San Francisco</td>
<td>872,598</td>
<td>312,552</td>
<td>36.2%</td>
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<tr>
<td>Sacramento</td>
<td>831,556</td>
<td>294,078</td>
<td>35.3%</td>
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*Note: Counts are subject to change and may not add up due to rounding.*
National Telecommunications and Information Infrastructure Investment and Jobs Act

Scott Adams
Deputy Director, Broadband and Digital Literacy
The Infrastructure Investment and Jobs Act (IIJA) designates $65 billion to close the digital divide and invest in broadband.

NTIA’s Notice of Funding Opportunities (NOFOs) released on May 13:

- **Broadband Equity, Access, and Deployment (BEAD) Program** to support broadband infrastructure and deployment.
- **State Digital Equity Planning Grants** for states to promote the achievement of digital equity and inclusion. Includes additional provision for Tribal Digital Equity Plans.
- **Enabling Middle Mile Broadband Infrastructure Program** for the construction, improvement or acquisition of middle mile infrastructure.

California’s BEAD and State Digital Equity Planning begins this summer. More to come soon!
# NTIA IIJA Broadband Program Updates

<table>
<thead>
<tr>
<th>Uses</th>
<th>Broadband, Equity, Access and Deployment (BEAD)</th>
<th>State Digital Equity Planning Grants</th>
<th>Enabling Middle Mile Broadband Infrastructure</th>
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<tr>
<td></td>
<td>Funding for broadband planning, deployment, mapping, equity, and adoption activities.</td>
<td>Funding to develop the State Digital Equity Plan, a prerequisite for access to State Digital Equity Capacity Grant funding.</td>
<td>Funding for the construction, improvement, or acquisition of middle mile infrastructure</td>
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<th>Total Funding</th>
<th>$42.45 billion</th>
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<th>$980 million</th>
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<tr>
<th>State Allocation</th>
<th>• Minimum allocation of $100 million.</th>
<th>California’s tentative allocation is $4,001,525.45</th>
<th>NTIA expects to make awards in the $5 million - $100 million range.</th>
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<td>• May request up to $5 million in planning funds.</td>
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<td>• State total allocation to be determined after release of federal data map.</td>
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<th>Immediate next steps</th>
<th>• Letter of Intent due by Jul 18, 2022.</th>
<th>Applications due by Jul 12, 2022</th>
<th>Applications due by Sep 30, 2022</th>
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<tr>
<td></td>
<td>• Request for Initial Planning Funds due by Aug 15, 2022.</td>
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Public Comment
Thank You!