December 27, 2017

RE: CDBG-DR Resilience Planning Grant CDBG-DR P17-05: Resilient Infrastructure Investment

The Honorable Lew Gaiter III, Chair
Larimer County Board of County Commissioners
PO Box 1190
Fort Collins, CO 80522

Dear Commission Chair Gaiter:

The Department of Local Affairs has completed its review of the Larimer County’s application to the Community Resiliency Partnership Fund for the Resilient Infrastructure Investment project. I am pleased to offer a grant award in the amount of up to $250,000.00 so that Larimer County may further its planning-related disaster recovery work.

These funds may not be obligated before a contract with the Department of Local Affairs is fully executed. Expenditures related to the scope of work made prior to the full execution of the contract cannot be reimbursed by the State. Additionally, it is the finding of the Department of Local Affairs that the activities contemplated under this grant are exempt as defined under HUD regulations 24 C.F.R. 58.34(a) of the Environmental Review procedures. No further environmental clearance is required as “Exhibit IV-A” was signed by senior staff and returned to DOLA with your application. However, please complete the attached Duplication of Benefits affidavit identifying whether or not other funds were available for this effort and return it electronically to Tim Katers.

Congratulations on receipt of this award! DOLA staff will begin working on the contract for this award soon. Please feel free to contact the CDBG-DR Resilience Planning Program Manager, Tim Katers, at 303-864-7888 or tim.katers@state.co.us for information on the contracting process or any other questions you may have.

Sincerely,

Irve Halter
Executive Director, DOLA

cc: Lori Hodges, Director of Emergency Management, Larimer County
    Pam Marcuse-Baas, Larimer County
    Dave Bowman, DOLA
    Don Sandoval, DOLA
    lain Hyde, DOLA
COMMUNITY RESILIENCY PARTNERSHIP FUND
APPLICATION - FALL 2017
Application due by 5:00 p.m., Friday, November 10, 2017

This application form is to be used for communities seeking funding to implement pilot projects through the fall 2017 CDBG-DR Resilience Planning Program - Community Resiliency Partnership Fund application cycle. Please review the Program Guidelines posted on the DOLA website at https://www.colorado.gov/pacific/dola/resilience-planning-and-capacity-building-program for detailed information on this opportunity. Applications for these funds via this application must directly relate to the federally-declared fire and flood disasters of 2012 and 2013.

Please respond accurately and completely to all questions. Application information may be typed in or copied and pasted into the appropriate boxes.

A. GENERAL INFORMATION

1. Name of Project: Resilient Infrastructure Investment Project

2. Full Legal Name of Applicant Organization: Larimer County

3. DUNS Number of Applicant Organization (or fiscal agent): 030446819

4. Project Location: Larimer County, Colorado

5. Amount of CDBG-DR funding requested: $250,000

6. Official Representative of Applicant (person with signing authority)
   Name/Title: Lori Hodges, Director of Emergency Management
   Address: 200 W. Oak Street, Ste 200, Fort Collins CO 80522
   Phone Number: 970-498-7147
   Email: hodgeslr@co.larimer.co.us

7. If Applicant has a Fiscal Agent please identify that Agent: Same.
   Official Representative of Fiscal Agent (only complete if different from Applicant)
   Name/Title:
   Address:
   Phone Number:
   Email:
B. PROJECT DESCRIPTION

10. Describe the purpose, scope and deliverables that will result from the proposed project. Qualifying projects could include a feasibility study, new program, updated policies, or design standards.

Purpose: The Larimer County Resilient Infrastructure Investment Project (RIIP) will increase resiliency throughout Larimer County by building a multi-jurisdictional tool that combines the built environment (critical infrastructure) with the social environment (social infrastructure). Resilience is only possible by looking at the fragility of interrelated systems within a community. Therefore, the focus of this project is to 1) identify key nodes within a critical infrastructure system, 2) identify the social infrastructure related to those key nodes, and 3) illustrate the redundancies and interdependencies built within the system. This information will affect decisions regarding prioritization of resources, prioritization of funding to reduce vulnerability or fragility within the system, capital improvement planning and supply chain distribution. For example, if Larimer County has assessed all critical and social infrastructure and we find that one water treatment plant provides water to a large population and has no redundancies and another plant provides water to a small population and has multiple redundancies, we would know that our priority should be the system with a greater customer need since a failure there with no redundancies would create a large system failure. Additionally, if there is a failure of one water treatment plant that would lead to cascading failures throughout the system, this would also be a greater priority area in capital improvement planning when determining projects to fund in any given year.

Scope: The tool will take information provided through the Regional Resiliency Assessment Project (RRAP), in partnership with Idaho National Labs and the Department of Homeland Security, and expand it to include all critical and social infrastructure throughout Larimer County. More importantly, the tool will be designed to be replicated in any jurisdiction.

Deliverables: The key deliverable of this grant project is a fully functional, cross-jurisdictional web-based mapping tool that provides both planning and real-time information regarding critical infrastructure, lifelines, and social systems to build in resiliency in budget systems, transportation systems, public works systems, emergency management systems and key utility systems. The Resilient Infrastructure Investment Project will institutionalize resilience in
Larimer County by illustrating existing weaknesses and vulnerabilities in each community and by providing the opportunity to prioritize budgeting and funding opportunities for future projects.

C. PROJECT NEED (20% of project selection criteria)

11. Briefly describe the project’s relationship to fire or flood recovery from the federally-declared disasters.

This project is directly related to two federal disaster declarations; the High Park Fire of 2012 (DR-4067) and severe storms, flooding, landslides and mudslides of 2013 (DR-4145). The county has demonstrated unflattering responsiveness in the wake of these catastrophic disasters, with its top priority of protecting the safety and well-being of its citizens.

Referencing FEMA’s National Disaster Recovery Framework (NDRF), Larimer County is in the long-term phase of the recovery continuum, with a goal of achieving significantly improved preparedness and resiliency. As proposed, RIIP encompasses all aspects of long-term recovery, with long-term benefits to infrastructure and mitigation activities, paving the way to improved preparedness. At the center of this proposed project are core principles from the NDRF, including: partnerships and inclusiveness, unity of effort, public information, resilience and sustainability, pre-disaster recovery planning and long-term empowerment.

This project will carry forward and compliment efforts from the Mountain Resilience Long-Range Plan (CDBG-DR project P16-022) - which is based on community stakeholder input - by addressing the extent and severity of remaining disaster damage in Larimer County, which includes, but is not limited to:
- Dam reconstruction
- Repair of streets and essential corridors
- Water source restoration/rehabilitation
- Bridge replacement
- Embankment repairs
- Public facility reconstruction
- Recreation center rehabilitation/reconstruction

During the High Park Wildfire, the Buckhorn Radio Tower was immediately threatened. If that site would have gone down, it would have taken out communications for emergency responders in Larimer County as well as agencies on the State of Colorado’s emergency communication system. The cascading effects of a failure of this tower would have been catastrophic. Recognizing that this was a critical node within the communications system allowed emergency responders to immediately redirect additional resources and make this an incident management priority. Additionally, from a planning perspective, knowing the criticality of the site allows for prioritization of funding to ensure the site has both back-up power and redundancies in the event of a failure. This tower is a known priority, but there are many critical infrastructure nodes where we have no known information about how the node will cause a system failure or a cascade of failures.
This same concern was raised during the 2013 Flood when multiple water and wastewater systems were threatened. From a resiliency standpoint, having real-time, critical infrastructure data including redundancies and interdependencies will allow emergency managers to assess vulnerabilities and system fragility to make timely, cost-effective decisions. Additionally, having a holistic view of the interconnected critical infrastructure system with the critical social systems countywide, will allow all planners, both public and private sector, to make more informed planning and funding decisions. From a pre-disaster perspective, local governments will be able to assess system fragility and prioritize capital improvement projects based on the weakest links within the system to facilitate the greatest impact both in terms of human and financial cost.

Addressing infrastructure proactively has always been important. With our recent disasters, however, efforts must be accelerated and highly coordinated. In the wake of the High Park and flooding events, Larimer County recognizes the need to be more proficient at tracking, assessing and responding to infrastructure needs - balancing recovery with resiliency, to bounce back from recent damage and destruction while also taking measures to mitigate the impact of future disasters and increase the ability of the community to strengthen from each crisis.

12. Describe the long-term risks and resilience challenges that the community has identified that will be addressed by this project.

a. Shocks (e.g. floods, wildfires, debris flows)

The following have been identified as the most significant shocks that have impacted, or have the potential to impact, communities in Larimer County:

- Natural Hazards
  - Wildfire
  - Flooding and Dam Failure
  - Severe Weather
  - Pandemic Disease Outbreak
- Human/Technological
  - Terrorism and Acts of Mass Violence
  - Hazardous Materials Release
  - Information Technology Failure, e.g. electrical grids or other lifelines

Source: Larimer County Resiliency Framework

b. Stressor (e.g. aging infrastructure, lack of affordable housing, budget constraints)

The following have been identified as the most significant ongoing stressors impacting communities in Larimer County:

CDBG-DR Resiliency Partnership Fund, Fall 2017
• Aging and Inadequate Infrastructure
• Lack of Available and Affordable Housing
• Transportation
• Increasing Homelessness
• Aging Population
• Recurring Drought Economic Downturns

Source: Larimer County Resiliency Framework

D. LONG-TERM RESILIENCE IMPACT (40% of project selection criteria)

13. Describe how the applicant seeks to institutionalize resilience through funding or budgeting practices through this project. Briefly describe the intended outcomes, jurisdictional commitment to implementation, and long-term impact of the project.

In 2017, Larimer County began a capital improvement planning process. Additionally, the county completed the first part of a new comprehensive plan, which will replace a master plan that is over 20 years old. Both planning processes will be completed in the next 18-24 months. To adequately reflect priorities and action items in both plans, essential information is required regarding both the social and the built environment. Priorities will need to be made in the capital improvement plan regarding which projects to fund immediately versus those that may wait. Additionally, the comprehensive plan is analyzing growth and the need for change in utilities, land use, and communications infrastructure. The comprehensive plan also is largely driven by looking at resiliency within both built and social systems, so the action items require data to validate the metrics for resiliency outlined in the plan.

The Resilient Infrastructure Investment Project will institutionalize resilience in Larimer County by illustrating existing weaknesses and vulnerabilities in each community and will provide the opportunity to prioritize budgeting and funding opportunities for future projects. The county cannot adequately prioritize without awareness of critical lifelines, interdependencies and redundancies. This will be illustrated in the form of such things as infrastructure in need of reinforcement or maintenance, areas where vulnerabilities exist due to a lack of redundancy (power, communications, target hardening, etc), disconnected social networks, or areas that are in regions of increased risk due to natural and human-caused hazards. Finally, the RIIP will allow the county to better allocate staff time to seek funding and work on projects with the greatest need in terms of vulnerability and risk of failure, providing a cross-sector benefit.

Intended Outcomes - Larimer County seeks a more cohesive assessment and reference tool to improve awareness and actions with regard to maintaining and implementing infrastructure within its immediate and regional area. Specific outcomes include:

• Data collection about critical and key social infrastructure
• Data analysis to determine system redundancies, interdependencies, vulnerabilities and weaknesses that may cause cascading failures within a system
• A visual representation (heat map) of the critical and social infrastructure system(s) with a social network analysis
• Public and private sector integrated data collection determining key lifeline utilities that support critical systems
• Identification of options in addressing infrastructure resilience in Larimer County and surrounding areas
• Integrate data analysis into resiliency metrics in capital improvement planning, comprehensive planning and emergency management planning efforts
• Use assessment findings by leaders and decision-makers in all sectors to inform priorities, preparation, investment, and allocation of resources guidance in incorporating resilience into planning and implementation.
• Share the tool with other communities interested in resilience from a systems perspective

Jurisdictional Commitment to Implementation - Larimer County has a proven multi-year investment in this project. As mentioned previously, the timing of this project is ideal for other large-scale planning projects in Larimer County, including the comprehensive plan, the capital improvement plan and a Broadband Feasibility Study. Additionally, Larimer County has embraced both resilience and the concept of fragility in systems since 2013. The Director of Emergency Management conducted original research regarding fragile systems in 2013-2014. The Board of County Commissioners illustrated support for the findings of that research and commissioned an Unmet Needs and Community Fragility Study which was completed in 2015. That study provided data on social systems throughout Larimer County and provided multiple action items to decrease fragility across the county. This study led to a pilot project in partnership with Idaho National Labs and the Department of Homeland Security to integrate the National Institute of Science and Technologies (NIST) guidelines with the Regional Resiliency Assessment Project (RRAP) to begin looking at critical infrastructure through the lens of the built and social environment. This grant application allows Larimer County to expand the pilot project, build out the data countywide, and complete a vital piece of the Fragility Study regarding key assets and lifelines.

Long-Term Impact of the Project - The RIIP Tool has a far-reaching impact not just for Larimer County, but for any local jurisdiction, as well as the private sector. Additionally, once investment is made in fragile nodes within our critical systems, the county will be less fragile to shocks and stressors for decades to come. It will have an impact at the local level by making sound use of the investment in plans and tools that can complement and inform the RIIP tool. This will not only contribute to resilience at a practical level, but also instill confidence in our public about the usefulness of planning and data collection efforts. It will have a regional impact by inventorying and assessing critical infrastructure and key resources that are connected to infrastructure and resources in surrounding areas, whether directly or by shared/collaborative function. One example might be a water system or dam, where a breach will have a far-reaching impact on other areas as well. Another example is a roadway, where issues cause traffic patterns to be affected in areas outside of the County. The RIIP
tool can also be used to guide projects that are partnerships between the County and its neighboring areas. It will have a statewide impact by making the best uses of state funding for projects and preventing issues that can require the need of state resources. RIIP can be part of establishing new funding sources by being able to better prioritize and organize projects, which can lead to less dependency on state funding to rebuild from prior disasters and be able to absorb the costs of future events.

14. Describe how your community will integrate input from community stakeholders during the project. Briefly describe the key project stakeholders and how the public, non-profit and private sector organizations, vulnerable populations, neighboring jurisdictions, or other relevant stakeholders will be engaged in this process.

The concept of resilience itself is cross-sectional, meaning it is important to build resilience utilizing strategies and perspectives across differing fields and practices. Larimer County would ensure that our stakeholders have equal representation from all 6 community sectors: Housing, Economic Development, Health and Social, Community, Natural Resources, and Infrastructure. These stakeholders will provide input on key assets and critical infrastructure, social systems, and gaps or needs to strengthen to the tool. The project will also incorporate priorities that have been and will be identified from the Mountain Resilience Long-Range plan by including community outreach and stakeholder input opportunities as part of the assessment and data repository development process.

The non-profit sector will be engaged to develop the social-infrastructure layer of the tool. This sector can help the county best gain data for locations of vulnerable populations and key assets in support of those populations. This will in turn help community leaders, developers, policy makers, etc., determine priorities and better allocate resources for helping build resilience in these types of populations.

The private sector will be a priority partner in the development of this tool as most utilities and lifelines are managed by private sector agencies. They will be able to provide information about redundant systems and interdependencies that may create cascading failures if part of the system is lost. Additionally, the RIIP would be an excellent tool for private sector agencies to use to prioritize their own infrastructure and to partner with public sector partners.

This is a tool that can also be expanded statewide and utilized in any community. This indicates that it can be used by neighboring jurisdictions, as it can be formatted to fit whichever “community” - whether that is a local government at the city or county level, or a private/non-profit partner looking to build resilience in their own systems.
E. PROJECT FEASIBILITY (20% of project selection criteria)

15. Please demonstrate your capacity and experience to carry out the project. Include your organizational management capability and provide brief descriptions of qualifications for each member of the active project team and their role(s) in the project.

Capacity: Larimer County currently manages multiple CDBG-DR grants for the recovery from the 2012 High Park Wildfire and the 2013 Flood. The Purchasing Department is well versed in federal procurement rules and responsibilities, the Finance Department is familiar with financial reporting requirements and the county is routinely audited on all grants management activities. The Office of Emergency Management currently submits quarterly reports for projects related to fire and flood activities and is familiar with the monitoring requirements of such a grant.

With teams and expertise in place that have demonstrated project success and strong community/organizational partnerships and relationships, Larimer County has the capacity to begin this undertaking and carry it forward past the completion of the grant period.

The project team for this grant would include the following:
- Project Manager - Director of Emergency Management
- GIS Support - GIS Enterprise Staff
- Procurement - Purchasing Director and Staff
- Support Staff (6) - Office of Emergency Management, Community Development, Engineering Department, and Information Technology

The project manager for this project is the Director of Emergency Management with support from the Office of Emergency Management staff. They will work closely with Community Development and GIS personnel for data management tasks, as well as both public and private partners throughout the county. The project would involve contractor support to build out the tool, so the Purchasing Department would be a key partner for the procurement of the vendor. Data would also be provided by the Engineering Department, Road and Bridge Department and the Community Development Division of Larimer County.

Experience: Critical Infrastructure assessments are a priority area for the Office of Emergency Management due to the hazards that exist in Larimer County, as well as the ongoing and expected growth countywide. The Director of Emergency Management conducted original research on community fragility and resilience that was later supported by the Board of Commissioners with a follow up Unmet Needs and Community Fragility Study, Hazard Mitigation Plan and Resiliency Framework. Each of these planning documents stress the need to better identify critical assets and lifelines, as well as the need to measure the social infrastructure within the community, illustrating the county’s desire to move this forward as well as the capacity to manage the project.
16. Outline the project implementation timeline. How soon can work begin on this project and can it be completed within a 12-month timeline?

The project can begin immediately following contract execution and will be complete within 12 months of the contract execution. Please see below for the project timeline.

<table>
<thead>
<tr>
<th>Grant Application Acceptance</th>
<th>December 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request for Proposal Developed</td>
<td>January 2018</td>
</tr>
<tr>
<td>Contract with the State of Colorado Executed</td>
<td>May 2018</td>
</tr>
<tr>
<td>Contractor Selected</td>
<td>May 2018</td>
</tr>
<tr>
<td>Contract Fully Executed with Vendor</td>
<td>June 2018</td>
</tr>
</tbody>
</table>

**Project Phases:**
- Phase 1: Data Collection Complete | August 2018 |
- Phase 2: Data Integration | October 2018 |
- Phase 3: Tool Development | February 2019 |
- Phase 4: Maintenance and Testing | March 2019 |
- Phase 5: Training and Education | May 2019 |

Project Complete | June 2019 |

F. INNOVATION (20% of project selection criteria)

17. Please describe how this project could result in replicable solutions that could be adopted in other communities.

Activities surrounding the development of this program will further institutionalize resilience into Larimer County’s practices by fostering review standards for major community investments in infrastructure that incorporate resilience and climate adaptive practices/criteria. It will develop the means to house information that will directly address risks from unmaintained infrastructure by having a synthesized and clear means of prioritizing projects so that funding can be most wisely invested, having the greatest impact toward mitigating financial impacts from future events.

The Resilient Infrastructure Investment Program is modeled after the Department of Homeland Security Regional Resiliency Assessment Program (RRAP): See [https://www.dhs.gov/regional-resiliency-assessment-program](https://www.dhs.gov/regional-resiliency-assessment-program). Larimer County and the City of Fort Collins have both been partnering with the Department of Homeland Security, National Institute of Standards and Technology, and Idaho National Labs for the last two years on a pilot project to determine the feasibility of a project similar to what is proposed here in this grant application. That pilot project is ending in December 2017 and the consensus is that...
this project would have far reaching impacts across Colorado and the Nation. Additionally, the Center for Homeland Security and Defense is interested in the results of this project since it will be the first of its kind to not only look at critical infrastructure, but to also illustrate up and downstream impacts of failures to critical nodes within a system. It will examine redundancies and interdependencies at each node for both planning purposes and real-time during disasters, which has the added benefit of allowing emergency management personnel the ability to make priorities that could ultimately save lives. With the RRAP project winding down, the timing of this grant is ideal to move this concept forward and create a tool that is replicable across jurisdictions in Colorado.

The infrastructure resiliency program is based on a proven program that is being expanded to include the following innovations:

- The program is being adapted to serve at the local level, addressing specific county infrastructure, demographics, categories of shocks and stressors, and resiliency challenges and resources.
- The program has been combined with the new NIST guidelines for social resiliency, allowing the county to look at critical infrastructure from a different perspective - combining both the built and social infrastructure of a community.
- The program will incorporate financial aspects of infrastructure into the assessments and reporting, such as allocation of resources, funding means, and data to guide decisions and strategies for major community investments in infrastructure.
- The program will utilize existing tools that have been innovations by Larimer County:
  - Mountain Resilience Long Range Plan to address community input and infrastructure component of resilient planning
  - Unmet Needs and Community Fragility Study as the framework for resiliency utilizing three focus areas: connectedness, stability and sustainability.
- Grant Opportunities Advancing Larimer (GOAL) database as a repository for establishing new funding approaches. Collaborative efforts between Larimer County Finance to establish more organized efforts of increasing financial resilience.

18. Please discuss what efforts the applicant will make to cultivate new relationships and partnerships across departments, or across sectors within the community. What strategies will be employed to cultivate lasting partnerships?

Larimer County has already reached out to partner emergency management organizations regarding this project. Boulder County, City and County of Denver, City of Fort Collins, and City of Loveland have all expressed a desire to see this project move forward (see Attachments for letters of support from City and County of Denver and City of Loveland).

Larimer County will reach out to partners in each infrastructure sector as listed below, and form new relationships to develop the most useful assessment, reporting and data repository tool to impact resiliency for the most comprehensive outcomes for this project.
• Commercial critical facilities - Large plants and/or HazMat facilities
• Communications - Radio towers, 911 Communications Centers, etc.
• Criminal justice facilities - Larimer County Jail, Community Corrections, etc.
• Dams - Horsetooth, Olympus, etc.
• Emergency services - Fire stations, EMS Stations, Police Stations, etc.
• Energy - Electrical grid, gas lines, etc.
• Food and agriculture - Major suppliers and supply chain management
• Government - Critical facilities for government operations
• Health care, mental health and public health - Hospitals, hospital suppliers, University Health, Health District, etc.
• Information technology - Fiber lines, internet, data centers, etc.
• Transportation systems - Primary and secondary routes, critical facilities for transportation infrastructure, etc.
• Water and wastewater systems - City, county and private water infrastructure, floodplain mapping, etc.

The most important aspect of this tool is that it will be built and expanded to be cross-sectional. This means that the tool will encourage collaboration and partnerships as it will help communities identify, as a whole, where projects are most needed to increase resilience. Since most projects aimed toward building resilience are dependent upon the work of several sectors, this tool will better help the community as a whole work collaboratively to share resources and information to be more effective in completing projects. This tool will also help different departments or sectors develop projects where their efforts can be pooled together to work collaboratively on grant-seeking or other means of resource allocation. Lastly, the tool will also help different sectors or departments envision where a project may help benefit or hinder work done by other sectors or departments, and can lead to more meaningful compromise between groups.

G. PROPOSED BUDGET & COST REASONABLENESS

The project budget should be shown below in general category detail. For a planning project, budget categories might include: consultant services, program delivery costs, or other categories. No match is required for this CDBG-DR grant and any match that is listed should be actual cash match, not in-kind services or funds unrelated to this project.

<table>
<thead>
<tr>
<th>Project Activity</th>
<th>Total Proposed Cost</th>
<th>CDBG-DR Funding Requested</th>
<th>Other matching funds requested or committed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Amount</td>
</tr>
</tbody>
</table>

CDBG-DR Resiliency Partnership Fund, Fall 2017
19. **Demonstrate how your plan, study, or analysis is cost-effective and that the proposed budget is reasonable.** Describe how you arrived at the proposed project cost. Please use three to four data points (sources) to show that what you are asking for is cost-effective and reasonable.

Prior outreach and community involvement efforts and events by Larimer County have proven successful in resiliency and infrastructure projects, such as Mountain Resiliency Long Range Plan, the Unmet Needs and Community Fragility Study, the Larimer County Resiliency Framework, Larimer Connects, Grant Opportunities Advancing Larimer, and Larimer Broadband.

One of the most common points brought up in feedback by citizens is that they do not wish for us to just plan, they wish for us to apply the information and move those plans into implementation. This project makes sound use of a prior investment in planning by putting in motion key strategies identified for the infrastructure sector in the Larimer County Resiliency Framework, including:

- Develop emergency action plans for infrastructure failure, including security procedures/systems for critical infrastructure.

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| Consultant Services - Organization, inventory and assessment tool/document development. | $240,000 | $240,000 |
| Database development | | |
| Outreach and meetings with infrastructure project leaders/professionals. | $10,000 | $10,000 |
| Data compilation, review, reporting. | | |
| Data entry, toolkit development, plan for technical assistance for replication. | | |
| Institutionalization of associated resiliency practices/policies for infrastructure investments. | | |
| **TOTAL** | **$250,000** | **$250,000** | **$0** |
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• Utilize technology/innovation in infrastructure projects to increase robustness, modularity, and diversity.
• Develop a clear hierarchy of needs in infrastructure repair/upgrade/installation.
• Decrease risk in hazardous areas through land use planning.
• Identify and address key system vulnerabilities.
• Incentivize backup systems that support sheltering in place.
• Proactively educate the public before a disaster regarding potential infrastructure response and implications.

Additionally, the Unmet Needs and Community Fragility Study examined lifelines as a critical indicator of fragility within a community. The costs to the community were seen during the 2013 Flood when all communications and transportation systems were lost isolating Estes Park. Their economy was devastated by this isolation and the lack of redundant systems left the community vulnerable to future shocks and stressors.

A few data points to illustrate how the use of $250,000 in CDBG-DR grant funding can have tangible financial benefits include:
• Property losses throughout Colorado totaled $2 billion, half of which was from housing but the other half was due to commercial and government infrastructure loss from the 2013 Flood (source: Reuters: Property Losses from Colorado Flood Projected at about $2Billion, 9/19/2013 https://www.google.com/amp/mobile.reuters.com/article/amp/idUSBRE98H1BA20130919).
• The Department of Homeland Security has issued supplemental guidance to the National Infrastructure Protection Program called: Incorporating Resilience into Critical Infrastructure Projects. This guidance clearly articulates the case for better available data regarding critical infrastructure, including measuring redundancies, interdependencies, and cascading events as an investment in the future (source: https://www.dhs.gov/sites/default/files/publications/NIPP-2013-Supplement-Incorporating-Resilience-into-CI-Projects-508.pdf).

A mapping tool such as the one proposed does not currently exist. Therefore, Larimer County is asking for the maximum amount for this grant to hire a contractor who will be able to build what is needed and ensure the tool is available to other communities in the future.
G. IMPLEMENTATION OPTION

The State of Colorado recognizes that administering CDBG-DR grants requires available staff and expertise. All communities who meet eligibility criteria are welcome to apply for this funding opportunity. Applicants will have the choice to partner with the State of Colorado to utilize a team enlisted by the Colorado Department of Local Affairs to provide direct support to the applicant community. Alternatively, applicants who receive an award may conduct their own procurement process and manage their award in conformance with CDBG-DR rules and regulations.

Applicants who seek to work with the State team will be required to sign a partnership agreement outlining roles, responsibilities and required deliverables. Please check below whether or not you intend to use your own process to procure a professional services contract and conduct this project, or explore the possibility of utilizing a team procured by the State of Colorado?

Applicant intends to procure  XXX  Willing to explore utilizing State Team ____

ATTACHMENTS

Please complete and attach the Environmental Worksheet found under Forms on the Resilience Planning web page at https://www.colorado.gov/pacific/dola/resilience-planning-program and have your chief elected official or board president sign it. Applicants are encouraged to attach letters of support, maps, and other necessary exhibits to this application. Please list any attachments below.

1. Letter of Support - City and County of Denver
2. Letter of Support - City of Loveland
H. SIGNATURES

This application must be signed by those with official signing authority for the organization, in addition to the fiscal agent, as applicable.

I certify to the best of my knowledge that the statements made on this application are accurate and true.

Signature of Official Representative: ____________________________________________
Lew Gaiter III, Chair, Board of Commissioners

Date: __________________________

For Fiscal Agent (as applicable)

Signature of Official Representative: ____________________________________________
(Executive Director, etc.)

Enter Name/Title & Sign above

Date: __________________________

Applications are due on November 10, 2017 by 5:00 p.m.

To submit, please email the completed application to tim.katers@state.co.us.

Questions?

Iain Hyde, Colorado Resiliency and Recovery Office 303-866-3920
or
Tim Katers, CDBG-DR Resilience Planning Program Manager 303-864-7888

Thank you for your work to create a resilient Colorado.