CARES Resilient Economy Webinar Series Session 1: Resilience & Economic Development

Presenters:

Carla Castillo, Interim Executive Director, HVRC Lynn Knight, Certified Economic Developer Stephen Jordan, CEO, Institute for Sustainable Development





Regional Efforts

Hudson Valley Regional Council

- Technical Assistance
 Advocacy
 Coordination
 - Education
 Planning
 Collaboration
 - Economic Development Technical Assistance & Planning
 - Water Quality Planning
 - Clean Energy Implementation
 - Climate Smart Implementation
 - Climate Action Planning
 - Regional Platforms
 - Mid-Hudson Regional Sustainability Coalition
 - Materials Management Working Group



Partners







NYSERDA

















Regional Plan Association











LEADING THE CHARGE TO END HUNGER





















Hudson Valley AgriBusiness







RIVERKEEPER





Regional

Planning

Commission



















Chazen

COMPANIES



Hudson River Watershed Alliance





































HVRC CARES Project

- HVRC's CARES Project is made possible with funding from the US Department of Commerce Economic Development Administration
- CARES Project Learnings From and Best Practice Responses to the Pandemic
- CARES Resilient Economy Lunch & Learn Webinar Series
 - November 30: Resilience & Economic Development
 - December 7: <u>Retaining Small Businesses After a</u> <u>Crisis</u>
 - December 14: <u>The Role of Economic Developers in</u> Crisis Communications
- Today's webinar

Webinar Presenters



- Lynn A. Knight (lynn.knighto7@gmail.com, 703-798-7892)— Certified Economic Developer with more than 30 years of multisector experience in 35 U.S. states and territories. Previously managed a national program that certified economic development organizations for excellence, and an economic recovery program that deployed hundreds of subject matter experts to disaster communities. She has helped disaster communities in 20 states and U.S. territories.
- Stephen Jordan (sjordan@isdus.org, 202-550-0277)— As CEO relaunched the Institute for Sustainable Development in June 2018 in response to the devastating series of disasters that took place in 2017. The Institute has become a resource for municipalities, economic development organizations, chambers of commerce, and corporate citizens on the front lines of community disaster recovery, resilience, and sustainable development.



What is Resilience and Why Does it Matter?

- What is resilience?
- The disaster management life cycle
- Key factors you should address
- Building capacity for resilience
- Partner resources



The Disaster Management Life Cycle

Stephen Jordan, CEO





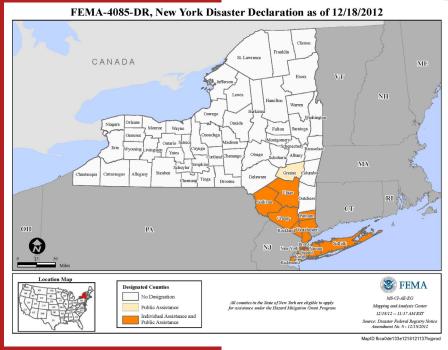
Resilience in Disaster Planning

Natural and manmade disasters can set economies back years

efforts that seek to bolster a

community's ability to <u>avoid</u>, <u>withstand and minimize the</u> <u>duration of</u> shocks to your

economy



Hurricane Sandy 2012







What Makes a Disaster?

Unforeseen/Unpredicted

Overwhelming Magnitude

Failure of Protection

Lack of Preparedness/Management Skill-Sets

Concentration of Exposed Valuables (People, Assets, Trust)

PANIC and UNCERTAINTY, loss of community wealth



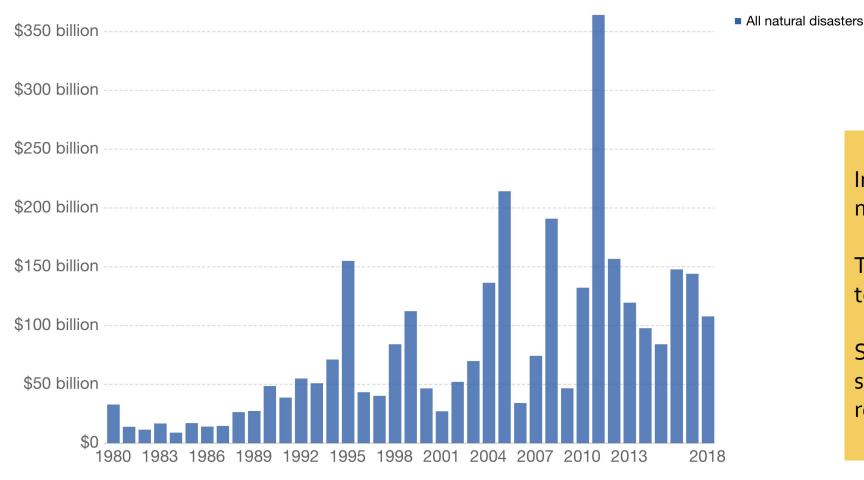
Recovery issues are often the same, whether it's...

- Natural disasters
 - Weather
 - _o Pandemic
- Man-made
 - Loss of major business or industry
 - Crime, terrorism, civil unrest
 - Power disruptions
 - Hazardous material spills
- Technological
 - Cyber attacks, fraud, theft

Global damage costs from natural disasters, All natural disasters



Total economic cost of damages as a result of global natural disasters in any given year, measured in current US\$. Includes those from drought, floods, extreme weather, extreme temperature, landslides, dry mass movements, wildfires, volcanic activity and earthquakes.



In 2021, there were 58 major disasters

The 20 most costly totaled \$152.6B

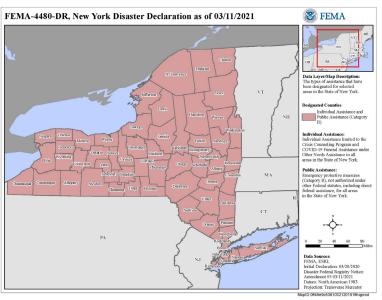
Since 2005, the US has spent \$593B on disaster recovery

Source: EMDAT: OFDA/CRED International Disaster Database, Université catholique de Louvain – Brussels – Belgium OurWorldInData.org/natural-disasters • CC BY



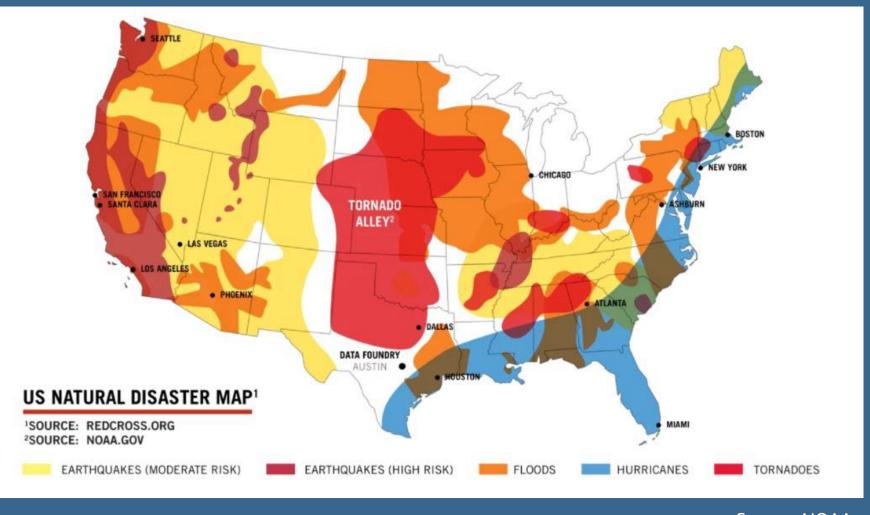
COVID-19





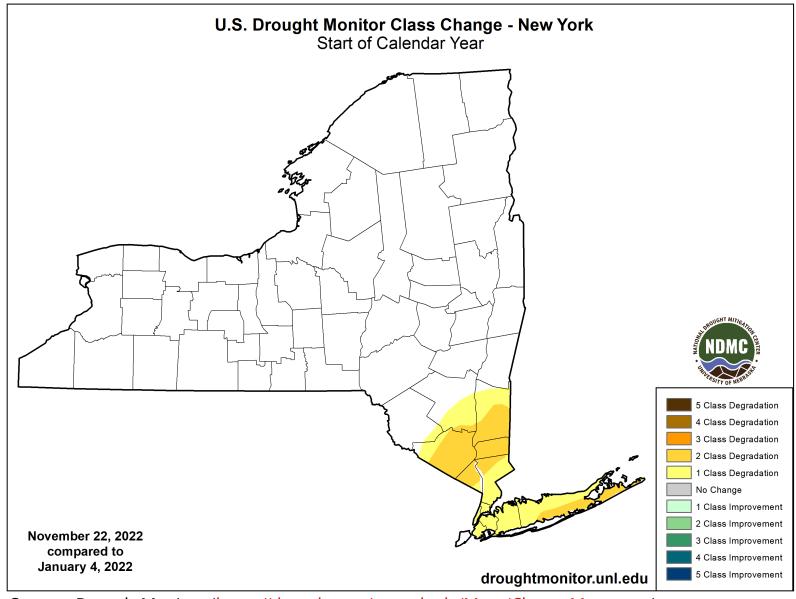
On August 5, 2021, every state, every county in the nation became part of a federal disaster declaration.

Some disasters risks CAN be predicted





Droughts are another form of disaster, which has impacted your area



Source: DroughtMonitor (https://droughtmonitor.unl.edu/Maps/ChangeMaps.aspx)



Five Levels of Impact

Individual

- Employee
 Retention,
 Morale,
 Absenteeism,
 Presenteeism
- Evacuation and Displacement
- Housing Issues
- Health Issues
- Family Issues

Business

- Inventory
- Plant, Property& Equipment
- Payroll
- Employee Health & Safety
- Cyber / Online
- Customer Issues
- Claims Challenges

Infrastructure

- Transportation
- Energy / Electricity
- Communications
- Water and Sanitation
- Ports, Airports, Logistics

Community

- Perception
- School Closings
- Health Concerns
- Environmental
- Mental Health
- Housing
- Homelessness
- Law and Order

Environment

- Erosion
- Sea Level Rise
- Fire, Flood
- Pestilence
- Diseases
- Lava

The Disaster Management Framework



Pre-Disaster Steady State

Planning

Infrastructure

Eco-System

Management

Mitigation

Preparedness

Stakeholder Engagement

Threat/Vulnerability

Assessments

Investment



Emergency Response

Search and Rescue

Crisis Management

 $EOC-C_3$

ESFs

Contain

R&D for Cure

Social Distancing



Relief and Stabilization

Mass Care

Restoration of Services

Work Arounds for Damaged and Destroyed Assets

Relief for small businesses, schools and critical community assets

Stabilization and Containment of Threats/Vulnerabilities



Long-Term Recovery

RSFs

Repair, Rebuild and New

Brand/Reputation

Finance

Recovery of community fabric

Embedded resilience investments



New Steady State

Planning

Infrastructure

Eco-System

Management

Mitigation

Preparedness

Stakeholder

Engagement

Threat/Vulnerability
Assessments

Investment



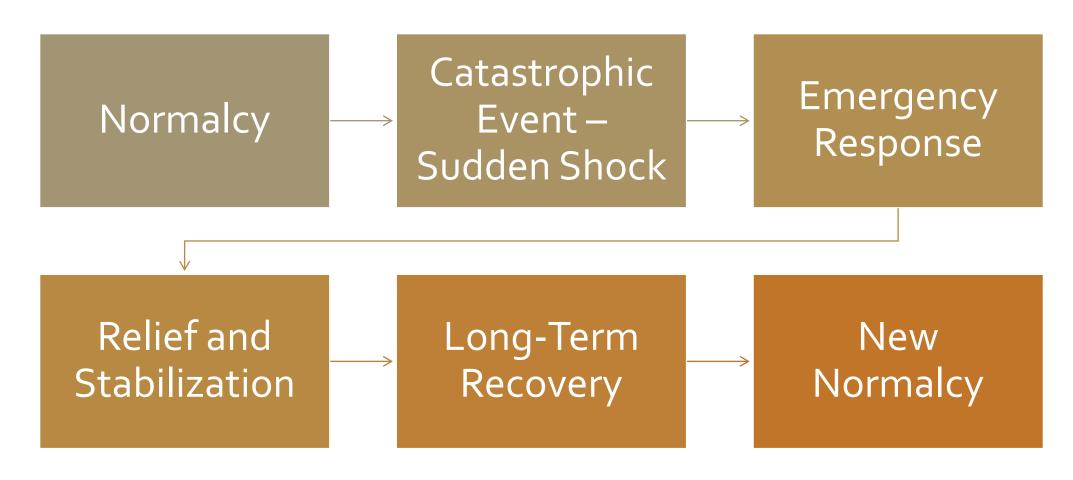
CARES Resilient Economy
Webinar Series

Resilience & Economic Development

Car Accident Analogy

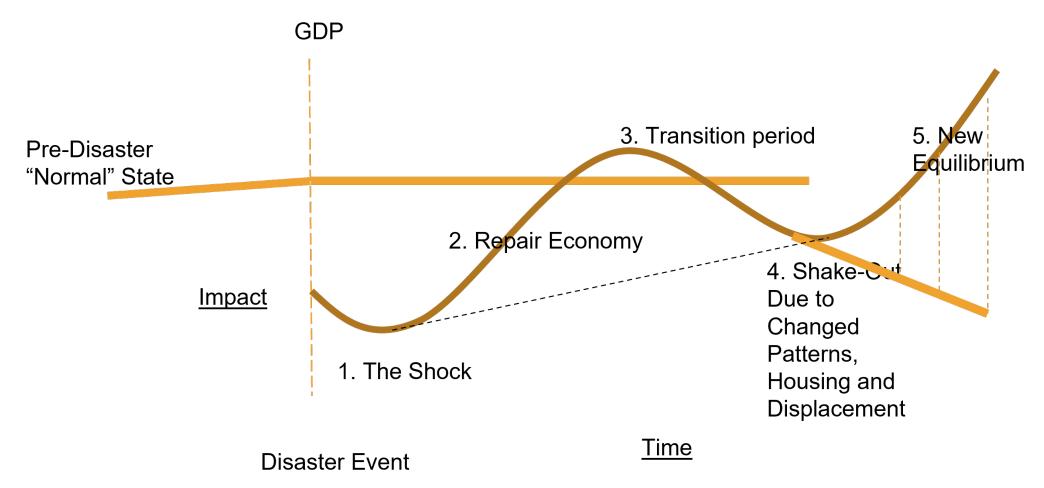


The Community Continuum





The Jordan-Alesch Model of Disaster Recovery



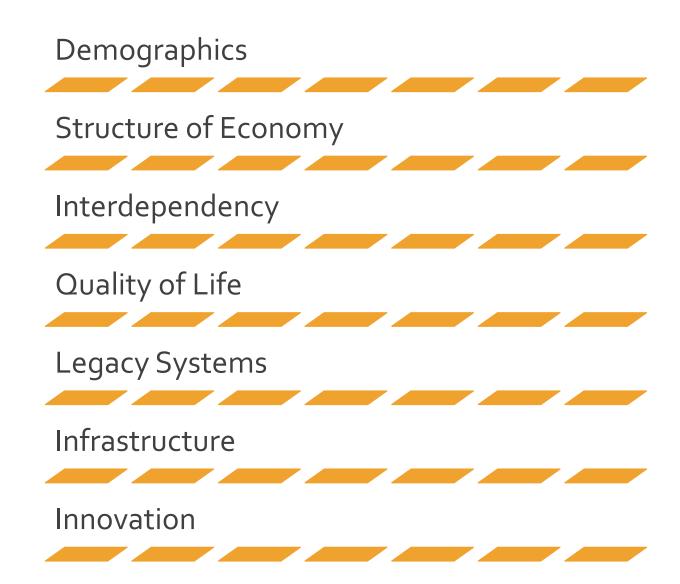


Establishing a baseline for Blue Skies

- Normalcy
- Interdependency
- Chronic Stresses
- Investments and Adaptations
- Carrying Capacity



What
Factors
Affect
Carrying
Capacity?





What are some initiatives that can boost resilience?

Lynn Knight, CEcD



Economic Resilience

Economic resilience is the ability to identify potential risks to revenues, businesses, and jobs to implement strategies that protect critical business functions:

- Customers
- Equipment
- Data protection
- Insurance
- Operations
- Buildings
- Inventory
- Backup Energy
- Business continuity plans

What are some resilience KPIs you can measure that impact the economy?

Topic	Measurement
Building codes/zoning/ permitting	Percentage of buildings that conform to building codes and standards for earthquakes, flooding, wind, fire
Building codes/zoning/ permitting	Number of buildings located in high-risk areas
Business	Updated business database including management contacts
Business	Diversity of businesses and industries
Business	Businesses that have business continuity plans and insurance
Business	Unemployment rate
Education	Presence of business incubator and/or technical assistance programs for community members to encourage entrepreneurship
Financial security	Average and median household income
Financial security	Percentage of population living in poverty
Housing	Updated inventory of housing stock (residential, condos, apartments, affordable housing, seniors' lodges, etc.)
Housing	Inventory of temporary emergency shelters and their capacity
Infrastructure	Percentage of population that has access to broadband internet
Infrastructure	Percentage of population with electrical service
Infrastructure	Sustainable energy sources and use as a percentage of demand
Infrastructure	# and stats of bridges and dams, maintenance schedule
Infrastructure	Plan for maintaining critical infrastructure
Infrastructure	Plan for emergency communications with tourists, should there be a disaster
Infrastructure	Water quality / percentage of population that has access to potable and reliable water



Resilience Leadership

• VALUES. "Resilience thinking" should be a core value

• **PLANNING.** Comprehensive planning defines your community's risks and vision for economic resilience

• **ESTABLISH ROLES.** Who can you turn to for what?

PRACTICE WITH PARTNERS.
 Practice exercises before the disaster



Best Practices in Dealing with Disasters

- INSURANCE is the best means for resilience
- Continuously improve infrastructure & address vulnerabilities
- Promote business continuity/preparedness and ensure that businesses know their vulnerabilities
- Employ safe development practices -locating structures outside of floodplains, Preserve natural buffers

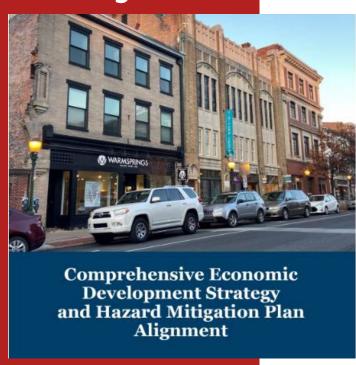


Study resilience best practices for industries in your region

- Recruit new businesses that maximize your labor skills and regional assets
- Train workers for resiliency ability to shift between industries

- Engage in efforts to assist businesses in surviving the loss of money circulating in the local economy
- Understand available financial resources to help businesses in event of a disaster

Planning for Disaster Recovery



Discuss resiliency in your CEDs plan

- EDA requires that you incorporate resiliency in your CEDS
- Determine gaps and vulnerabilities
- Consider how to align CEDS and Hazard Mitigation Plans
 - New tool launched 9/22
 https://eda.gov/files/disaster/fema_ceds_hmp_alignment_guide_2022.pdf

Pre-disaster planning is far easier than post-disaster planning

Action Steps for Resiliency Planning for your CEDS



Evaluate how a disaster could affect the local economy

Inventory current assets and economic drivers to define local dynamics and possible recovery resources

- Key industries/clusters
- Key employers and their location
- Worker issues
- Regulatory changes
- Single industry communities

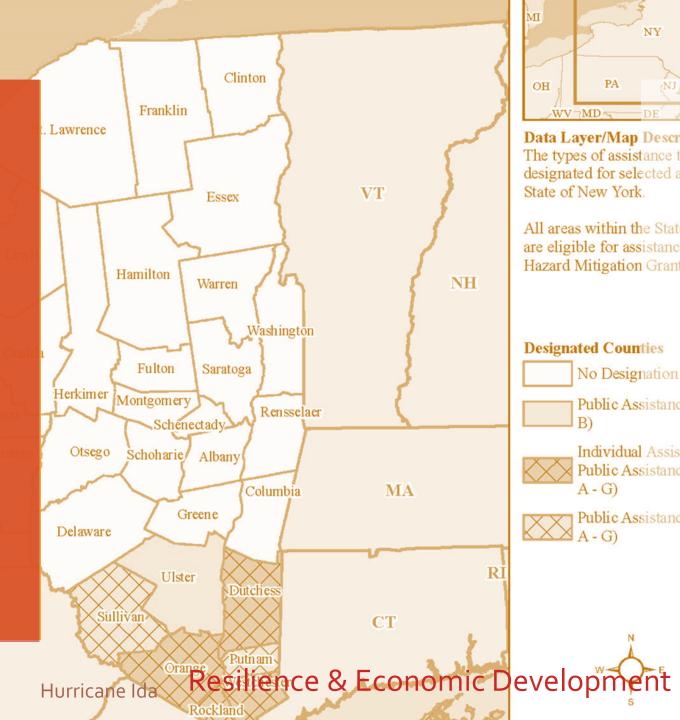


Roles and Responsibilities of Partners in Recovery & Resiliency

What is your role?

Your Roles After a Disaster

- Inspiration for Community Recovery
- Spokesperson
- Convener
- Analyst
- Visionary / Catalyst
- Gap Filler
- Connector / Advocate
- Appoint Project Managers / Manage Projects (small communities)



PA

No Designation

Public Assistance

Individual Assis

Public Assistance

Public Assistance

A - G)

WV MD DE



CARES Resilient Economy Webinar Series

Metcalfe's **Law Adapted** for Resilience

First Law of Networking: Stakeholder Mapping Builds Capacity by Spreading the Work

PEOPLE & COMMUNITIES

Airdrie Boys and Girls Club Airdrie Mental Health Airdrie Urgent Care Alberta Health Services Alberta NGO Council Balzac Hall

Banded Peak School Council (Friends of Banded Peak Society) Bearspaw Glendale Community

Association Bearspaw Lions (seniors)

Bearspaw School Bow Valley College

Bow Valley Seniors Boys and Girls Club of Cochrane

Bragg Creek Community Association Braga Creek Snowbirds Seniors

Fellowship (seniors) Chestermere & Area Mental Health

Chestermere Community Services FCSS Chestermere High School

Chestermere Regional Community Association

Cochrane and Area Humane Society Cochrane Urgent Care

Delacour Community Club

Edge School Elbow Valley Elementary School Helping Hands Society of Cochrane

Hutterites Indus Curling Club

Indus School (K-9) Indus School Council Society Indus Seniors

Jumping Pound Community Hall Society

Kathyrn School

Keoma Community Society (Hall) KOAC Arts Centre

Langdon Community Association Langdon Older Kids Seniors' Club Langdon School

Lanadon Seniors Lanadon Softball Association

Libraries, Faith Community Mount Royal University North Bow Community Facility Board Calgary Rural PCN- Lanadon

North Rocky View Community Links PCN (RVC/Cochrane)

Pioneer Acres Plowmen & Threshermen's Club of Alberta Prairie Royal Estates Community Association

Prince of Peace Lutheran School Rocky View Public School **RVS Community Learning Centre**

Sarah Thompson School Seniors for Kids Snowbirds

Springbank Community Association Springbank Community High School Springbank Heritage Club (seniors)

Springbank Middle School Synergy Youth and Community Development Society University of Calgary

Westbrook School Western Rocky View Family and Community Resource Centre Bearspaw Historical Society (seniors)

INFRASTRUCTURE & PLANNING

Alberta Motor Transport Association Alberta Roadbuilders & Heavy Construction Assoc.

Bragg Creek Improved Cell and Email

Calgary Airport Authority Calgary Radio Aero Modellers Society

Rogers Communications Springbank Airport

CP Rail

Calgary Airport Authority

Waste/wastewater to commercial

Wintergreen Woods Water Utility Ltd ATCO Structures & Logistics Cochrane Society for Housing Options

Lott Creek Grove Condo Association Wild Rose Homeowners Association

> Braga Creek Real Estate Bragg Creek tourism

Calgary Airport Authority Calgary Sports and Entertainment Canadian Association of Petroleum

Canadian Energy Pipeline Association

Cattle wranglers

BUSINESS & ECONOMY

Airdrie and District Agricultural Society Alberta Economic Development, Trade &

Alberta Energy Regulator Alberta SDG Network Amazon Fulfillment Centre

ATB Financial ATCO Group of Companies Balzac Chamber of Commerce

Beiseker and District Agricultural Society Beiseker Chamber of Commerce Bow Valley Agricultural Society Bragg Creek Chamber of Commerce

Bragg Creek Hamlet Revitalization

Producers (CAPP) Canadian Chamber of Commerce

Canadian Energy Research Institute Canadian Hemp Industry Trade Alliance

Century Downs Racetrack and Casino Chestermere Agricultural Society Cochrane and District Agricultural Society Cochrane Research Institute Community Futures Centre West Community Futures Wild Rose Crossfield Chamber of Commerce Cross Iron Mills Dalroy U.F.A. Association Days Inn in Balzac

Delacour Agricultural Society and Community Club

Evelyn Kenny Kennel and Obedience Club Irricana and District Agricultural Society Lanadon Chamber of Commerce Langdon Community Garden

Langdon Condo Association Local Chambers of Commerce Madden and District Agricultural Society

Mountain View Credit Union Pet Resorts in the area

Realtors Southland Transportation Student First Bus Lines

Vet clinics

EMERGENCY MANAGEMENT & LEADERSHIP

Airdrie and District Victim Services Alberta Association of Immigrant Servicing Agencies Alberta Sheriffs Calgary Foundation Calgary Police Service Canada Task Force 2 Canadian Red Cross

City of Chestermere Cochrane and Area Victim Services Cochrane Foothills Protective

Association Cochrane RCMP Fire Smart Committee

Langdon Citizens on Patrol Society Mennonite Disaster Services Military Mutual Aid Alberta

Public Safety Canada RCMP

Redwood Emergency Services Salvation Army

Samaritans Purse St. John Ambulance Team Rubicon Town of Cochrane Town of Crossfield

Town of Irricana Tsuut'ina Nation Village of Beiseker

ROCKY VIEW COUNTY STAKEHOLDER MAP

Resilience & Economic Development



Alberta Institute for Wildlife Conservation Big Hill Creek Preservation Society Bragg Creek and Greater Area Historical

Calgary Corn Maze & Fun Farm Charles Butler Park Community Association Chestermere Whitecappers Association Extreme Cowboy Alberta

Greater Bragg Creek Trails Association Mountain View Cowpoke Junior Rodeo

Our Lady Queen of Peace Ranch Sharp Hill Preservation Society Spray Lake Sawmills Recreation Park

Springbank Equestrian Society Springbank Park for All Seasons Springbank Trails and Pathways Association Weedon Pioneer Hall

ROCKY VIEW

COUNTY

Western Irrigation District Wintergreen Golf Course Yamnuska Wolfdog Sanctuary



Responsibilities of Local Government

- First level of response in emergency management
- Assess situation and activate nearest Emergency Operations Center (EOC)
- Request assistance from the state if magnitude of disaster exceeds resources
- Serve as applicant and grant recipient for state and federal assistance

The Role of Economic Developers

- Identify support resources at local, state and federal levels
- Disseminate credible information to businesses
- Represent business interests
- Document economic impacts
- Strengthen collaboration and partnerships among local, regional and state organizations
- Provide input to community's comprehensive plans
 - Give feedback regarding infrastructure and other public services needed to improve commerce
- Update economic development strategic plans

Responsibilities of State Government

- Determine if severity and magnitude of disaster is beyond State's capabilities
- Commit resources to help local jurisdictions recover
- Activate state crisis action team
- Identify activities for immediate response



Non-profits and Business Philanthropy

Non-profits

- Volunteer Organizations Active in Disaster (VOAD)
- Humanitarian relief
- Rebuilding
- Gather donations
- More difficult to control

Business support after disasters

- Donations of goods and services
- Can offer use of valuable equipment, warehouse space, professional expertise
- Cash donations to philanthropic organizations like the Red Cross

Where Do Federal Funds Come From?

Congressional Budget Appropriations

- Disaster Relief Fund
- Disaster Supplementals
- Housing & Urban Development (HUD): CDBG-DR

Disaster funds that are part of "normal" priorities

- Economic Development Administration (EDA)
- Department of Transportation
- U.S. Department of Agriculture (USDA)

Disaster Relief Fund

DRF created under the Stafford Act



FEMA administers funds for:

Mass care

Infrastructure repairs

Debris clearing

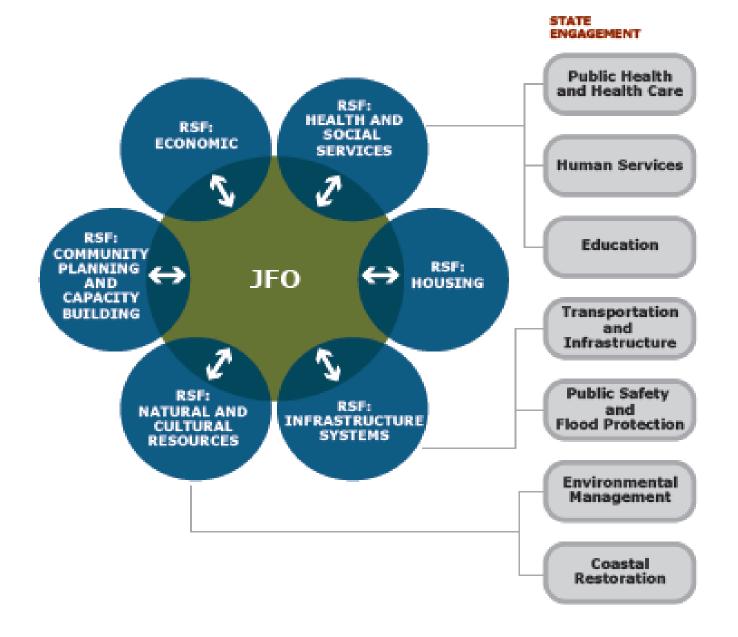
Aid for uninsured families

Mitigation of future disaster effects



Federal Government Recovery Support Function (RSF)

National Disaster Recovery Framework brings together recovery capabilities of up to 30 Federal departments and agencies





Potential Federal Partners for Economic RSF

- Commerce/ED
- FEMA
- SBA
- USDA
- NIST
- MBDA

- HUD
- DOL
- Treasury
- Interior
- EPA
- HHS
- FDIC









Economic RSF Functions

Improve the flow of info

- Assess impacts to the economy
- Retain businesses
- Connect business with recovery services
- Support economic diversification
- Consider workforce impacts DOL
- Increase access to financing SBA

Economic RSF Initiatives

- Workforce development
- Entrepreneurship
- Community economic development planning
- Business development
- Federal funding management planning
- Information dissemination

How do you measure a good recovery?



DURATION of return to Normalcy



Soft landing from repair economy to normal economy



Patch and Repair compared to Upgrade and Replace



What if you have to deal with a new Normal due to the severity of the catastrophe?

Getting Right-Sizing Right



How do you measure a good resilience program?

- Before a disaster
 - Risks are identified and addressed
 - Reduced obsolescence of infrastructure
 - Hazard mitigation
 - Enhanced natural defenses
 - Capacity & roles established
- After a disaster
 - IMPACT versus MAGNITUDE of event
 - Dramatic reduction in repetitive losses

Enhancing
Long-Term
Recovery,
Resilience, and
Transformation

Understand Your "Normal" Systems **Envision Your Risks and Rewards** Plan and Design Implement Evaluate and Improve



Recap

- What is resilience?
- The disaster management life cycle
- Key factors you should address
- Building capacity for resilience
- Partner resources

Questions?



Upcoming Webinars in Series

CARES Resilient Economy Webinar Series

- Lunch & Learns: Wednesdays 12:00 1:30PM
 - o December 7: Retaining Small Businesses After a Crisis
 - Small businesses are the backbone of our economy, yet often they get left behind to fend for themselves when there is a crisis. This webinar will explore why it is so important to pay attention to business retention, to understand who is the most vulnerable, and ways you can help ensure small business survival as part of your economic recovery. We will discuss specific steps you can take as well as creative financing and technical assistance to help them get back on their feet.
 - December 14: The Role of Economic Developers in Crisis Communications
 - Although health and safety always come first, a second priority for communities is to get businesses back up and running, people employed, and local revenues flowing after a crisis. This webinar will discuss why it is so important that economic developers play a role in keeping businesses informed and communicating the "back in business" message. We will discuss what you can do to prepare, establishing roles, best practice examples, and pitfalls to avoid.



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HVRC Newsletters

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