



City of New Orleans Hazard Mitigation Planning

City of New Orleans
City Hall Working Group
October 20, 2020
12:30pm to 2pm

Greetings

Austin Feldbaum

Hazard Mitigation Office

City of New Orleans

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Housekeeping Items

- Please keep your line muted
- Chat feature allows for questions at anytime
- City of New Orleans (Austin) and Civix (Ryan) will be presenting
- Civix (Amanda) will be hosting and managing the meeting

Agenda

- Introductions
- Meeting Goals and Objectives
- Overview of Hazard Mitigation Plan
- What We've Heard: Updated 2020 Mitigation Actions and Discussion
- Additional Feedback
- Next Steps

Introductions

Please give your name, organization, and area of focus

Meeting Goals and Objectives

- Provide status update Hazard Mitigation Plan and planning process
- Present updated 2020 Hazard Mitigation Actions
- Receive feedback on updated Actions
- Discuss any missing Hazard Mitigation Actions

Hazard Mitigation Plan



How is the Hazard Mitigation Plan Used?

- The plan is a requirement to access types of disaster assistance through FEMA's Hazard Mitigation Assistance Programs.
- The Hazard Mitigation Plan identifies mitigation measures that the City of New Orleans and its planning partners can put into place that may reduce the impact or severity of future hazard events.
- Informs floodplain management planning under the Community Rating System (CRS) to improve CRS score and increase flood insurance discounts under the National Flood Insurance Program (NFIP).
- Plan is maintained through quarterly meetings of the Hazard Mitigation Committee, which is a subset of the Local Emergency Planning Committee.

Mitigation Strategy

- Long-term plan to reduce potential losses identified in the risk assessment.
 - Goals
 - Mitigation Action Plan
 - Prioritized Mitigation Actions
 - Implementation Strategy

FEMA Mitigation Action Categories

- Prevention
- Property Protection
- Natural Resource Protection
- Emergency Services
- Structural Projects
- Public Education and Awareness

2020 Natural Hazards



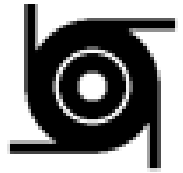
Flooding



Tornadoes



Extreme Heat



Tropical
Cyclones



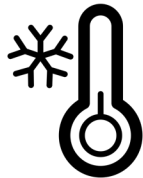
Subsidence



Severe
Thunderstorm



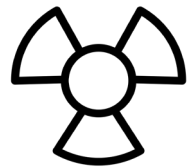
Coastal
Erosion



Winter Weather



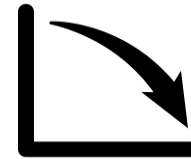
2020 Man-Made Hazards



Hazardous
Materials



Infrastructure
Failure



Economic Shock



Active Threats



Infectious
Disease
Outbreak



Hazard Mitigation Action Goals

- Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.
- Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.
- Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.

Hazard Mitigation Action Goals

- Goal 4: : Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.
- Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.
- Goal 6: To protect Orleans Parish and the surrounding region from the effects of natural and manmade hazards, ensuring community continuity in the event of such hazards.

2020 Hazard Mitigation Actions



Action:

No.	Goal	Action Type	Action Item	Description	Hazards	Status	Lead Agency/Support Agencies that will Implement Action	Preliminary Costs (including ongoing maintenance costs) – to be refined as more data becomes Available	Funding Sources (Specify specific entity that could potentially fund this action)	Emergency Support Function	Time Frame for Implementing Action
1	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Create and Maintain Databases to aid in Flood Plain Management	Create EC database and FFE estimation tool to augment the RLAA findings and aid floodplain management planning. Train building officials to enter data from new Ecs in order to maintain the database.	Floods	New	City of New Orleans (Safety and Permits, ITI)	City Staff Time	CNO General Fund	ESF 5	1-5 years

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2	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Complete BCEGS assessment	Work to address the Building Code Effectiveness Grading Schedule	Floods, Tropical Cyclones, Severe Thunderstorm Winds, Tornadoes	New	City of New Orleans (Safety and Permits)	City Staff Time	CNO General Fund	ESF 14	1-2 years



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3	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Stormwater Fee	Draft a citywide policy to levy and administer a stormwater fee to fund stormwater mitigation projects across the city.	Floods	New	ORS,NOHSEP	City Staff Time	CNO General Fund	ESF 5	1-2 years



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4	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Property Protection	Insurance credit for fortified roofs to incentivize builders to use resilient materials and methods	Create a state-level insurance credit to incentivize the installation of roofs adhering to fortified building methods, which are designed to strengthen residential and commercial buildings against high winds and hurricanes.	Tropical Cyclones, Severe Thunderstorms, Tornadoes	New	OCD, IGA	City Staff Time	State Revenue	ESF 5	1-5 years

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5	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Duncan Plaza Drainage Improvement	Address Storm Water Retention Needs with Improvements to the stormwater infrastructure in Duncan Plaza.	Floods	New	Public Works, ORS	City Staff Time, Contractor Labor	CNO General Fund, State and Federal Grants	ESF 3	3-5 years

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6	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Audubon Golf Course Drainage Improvement	Address Storm Water Retention Needs with Improvements to the stormwater infrastructure in the Audubon Park Golf Course.	Floods	New	Public Works, ORS	City Staff Time, Contractor Labor	Audubon Institute Funds, CNO General Fund, State and Federal Grants	ESF 3	3-5 years

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7	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Parks Master Plan - Drainage Project Scoping	Scope potential drainage projects for inclusion in the Parks Master Plan for implementation.	Floods	New	Public Works, ORS	City Staff Time	CNO General Fund	ESF 3	3-5 years



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8	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	"Green" Specifications to promote use of resilient building materials in City projects	Develop a set of standards aimed at promoting the use of resilient building materials in government-owned, commercial, and residential projects.	Floods	New	City of New Orleans (PDU-SI)	City Staff Time	CNO General Fund	ESF 5	1-3 years

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9	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Develop a Comprehensive Reforestation Plan	Conduct a Tree Canopy Study to understand gaps in the existing tree canopy inventory. Identify and allocate city budget to plant trees in order to address the identified gaps in the tree canopy network.	extreme heat, high wind	New	City of New Orleans PPW	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants, and Private Funds	ESF 5	1-3 years

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10	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Urban Heat Island Study	Conduct an Urban Heat Island Study that addresses extreme heat threats on a neighborhood-by-neighborhood level. Identify areas most in need of interventions to prevent extreme heat threats and prioritize project implementation in those places.	extreme heat	New	NOHD, NOHSEP	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-3 years



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11	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Advocate for NFIP reforms	Advocate for National Flood Insurance Program (NFIP) reforms, including increasing the cap on Increased Cost of Compliance (ICC) coverage and freezing premiums for properties enrolled in Hazard Mitigation Assistance (HMA) programs.	Floods	New	Mayors Office, City Council, NOHSEP, Regional Planning Commission	City Staff Time	CNO General Fund	ESF 14	1-5 years



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12	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Explore incorporating repetitive damage provision in the City's floodplain ordinance	Including a Repetitive Loss provision would increase access to ICC funds for repetitive loss property owners. This would help fund residential mitigation projects.	Floods	New	NOHSEP, DPW, ORS	City Staff Time	CNO General Fund	ESF 5	1-3 years

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13	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Property Protection	Elevation Certificate Data Management	Create a digital system for cataloguing, managing, and organizing Elevation Certificates acquired through local jurisdictions. Streamline the process for acquiring elevation permits in Orleans Parish.	Floods	New	City of New Orleans (Safety and Permits), U.S. Army Corps of Engineers	City Staff Time	CNO General Fund, State and Federal Grants	ESF 5	2-3 years

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14	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Higher energy efficiency standards for new developments	Create a higher set of energy efficiency standards for building performance to reduce energy consumption and greenhouse gas emissions in new construction.	Extreme heat, Winter Storms	New	DPW, ORS	City Staff Time	CNO General Fund	ESF 12	3-5 years

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15	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Complete a Methane Capture Feasibility Study at SWBNO WWTP		High Wind (Tornadoes/Tropical Cyclones/Thunderstorms)	New	SWBNO		CNO General Fund, State and Federal Grants	ESF 12	3-5 years

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16	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Sankofa Wetlands Enhancement	Develop a nature trail and wetland park on 1.5 acres of space in the Lower Ninth Ward to help with stormwater management and reduction of land subsidence. Utilize this project as an educational opportunity for youth in the area.	Coastal Land Loss	New	ORS, DPW	City Staff Time, Community Partner Time	Received an Environmental Justice Small Grant from the US EPA	ESF 11	1-2 years

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17	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Structural Projects	N Claiborne GI	Implement recommended green infrastructure improvements along the North Claiborne corridor that could include tree planting, bioswales, stormwater parks, and pervious pavement on public and private property.	Floods, Extreme Heat	New	ORS, CID	City Staff Time, Contract Labor, Community Partner Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11 and 14	1-5 years



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18	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Structural Projects	2043-47 Felicity GI	Implement recommended green infrastructure improvements along at 2043-47 Felicity Street.	Floods, Extreme Heat	New	ORS	City Staff Time, Contract Labor, Community Partner Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11 and 14	1-5 years



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19	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Structural Projects	Lafitte Blue Way	Implement recommended green infrastructure improvements along the Lafitte Greenway.	Floods, Extreme Heat	New	ORS, DPW, PPW	City Staff Time, Contract Labor, Community Partner Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11 and 14	1-5 years



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20	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Public Education & Awareness	Develop in-house custom HAZUS model for risk assessment and decision support	Create an in-house HAZUS model, a nationally standardized methodology from FEMA for estimating potential losses from natural disasters, designed to support risk-informed decision-making efforts specific to Orleans Parish.	Floods, High Winds, Severe Thunderstorms, Extreme Heat, Winter Weather	New	NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants	ESF 5	1-2 years



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21	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Complete a job study to institutionalize floodplain management training as a requirement for key positions.	Require building officials employed at the city to become Certified Floodplain Mangers (CFM) through ASFPM.	Floods, Tropical Cyclones	New	Civil Service, NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants	ESF 5	1-2 years



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22	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Public Education & Awareness	Provide shade structures and seating at all RTA stops; consider LA Green Jobs Corps or other workforce development links	Work with the RTA to protect riders from the elements while building out a workforce development opportunity.	Extreme Heat	New	RTA, City Council	City Staff Time, Partner Agency Time, Contract Labor	CNO General Fund, State and Federal Grants	ESF 1	1-2 years

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23	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	real estate disclosures, realtor education on flood risk	Work with the Louisiana Realtors Association to understand this issue from their point of view. Also hold public comment on this issue to fully inform the policy.	Floods	New	Orleans Parish Civil Clerk of Court	City Staff Time	CNO General Fund	ESF 6	1-3 years



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24	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Solar for All	Make solar power a realistic and viable option for residential and commercial property owners and city-owned properties in Orleans Parish to increase energy security, reduce energy costs, and reduce dependence on fossil fuels.	Extreme Heat, Winter Storms, Infrastructure Failure	New	ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants, Private Financing	ESF 12	1-5 years



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25	Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.	Prevention	Advocate for state and national policy supporting a Green New Deal for Housing	Incorporate recommendations from the national proposed Green New Deal for Public Housing Act into local public housing policies, such as converting buildings to electric energy, adding solar panels, and securing renewable energy sources.	Extreme Heat, Winter Storms	New	HANO, OCD, FANO	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants, Private Financing	ESF 6	1-5 years



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26	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	NO East Land bridge Restoration: Advocate for NRDA funding	Advocate for NRDA Funding of the NOE Land Bridge Project at State and Federal Levels.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years



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27	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	MRGO Restoration:	Advocate for Funding of the continued restoration of the MRGO at State and Federal Levels.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years

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28	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Bayou Bienvenue/Central Wetlands Restoration	Advocate for Funding of the restoration of Bayou Bienvenue at State and Federal Levels.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years

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29	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Complete update to Climate Action Plan Update	Perform update of the Climate Action Plan and incorporate relevant actions into the HM plan	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS, NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1 year

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30	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Leverage Resilience work to create workforce development opportunities	Leverage local resilience and mitigation efforts as opportunities to train the local workforce in 'green' jobs, such as sustainable construction, green infrastructure, energy and carbon capture and storage, and water quality technicians.	All Hazards	New	Workforce Investment Board, Job1, ORS, DPW, GNOF, Schools and Universities	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 15	1-5 years



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31	Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.	Prevention	Actively plan for shifting risks, population movement, and changing development patterns in response to Climate Change	Create local and regional plans for climate change-related threats, including intensification of weather events, changing development patterns and methods, and population relocation due to environmental risk.	Floods, Extreme Heat, Subsidence, Coastal Land Loss, Infectious Disease Outbreak	New	NOHD, NOHSEP, ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 14	1-3 years



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32	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Financing for State and Local adaptation	Examine financing mechanism from other state and municipalities for funding adaptation.	Flooding, Coastal Flooding, Tropical Cyclones	New	NOHSEP, Regional Planning Commission	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years



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33	Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.	Prevention	Refocus from coastal habitat to coastal communities	Expand the scope of coastal habitat restoration, protection, and preservation to include the individuals and communities residing in these places. Incorporate the culture of coastal communities into policies surrounding coastal habitat management.	Floods, High Winds, Coastal Land Loss, Subsidence, Severe Thunderstorms, Extreme Heat, Winter Weather	New	ORS, DPW, NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 14	1-3 years



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34	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	HSDDRS authorized level of protection, MP goal of 500-year protection: assign City team	Utilize City Team to address 500-year flood protection.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 3	1-3 years



Action:

No.	Goal	Action Type	Action Item	Description	Hazards	Status	Lead Agency/Support Agencies that will Implement Action	Preliminary Costs (including ongoing maintenance costs) – to be refined as more data becomes Available	Funding Sources (Specify specific entity that could potentially fund this action)	Emergency Support Function	Time Frame for Implementing Action
35	Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.	Prevention	Address equity issues within the floodplain management program: provide support for local match requirement	Buildout and implement an equity strategy for the flood plain management program	Floods	New	NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-3 years

Action:

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36	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Conduct a study to evaluate the potential impacts of a catastrophic rain event	Conduct a study to better understand and evaluate the potential impacts of catastrophic rain events. Incorporate the outcomes of this study into recommendations for regional emergency preparedness planning.	Floods	New	NOHSEP, DPW, SWBNO	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-2 years



Action:

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37	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Investigate HSDDRS authorization to make case for nonstructural investment	Study how non-structural investments could be implemented from the HSDDRS authorization.	Floods	New	DPW	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-2 years

Action:

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38	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Scale up lot-scale green infrastructure, stormwater management, etc through trainings, funding	Institutionalize the inclusion of lot-scale green infrastructure components, stormwater management, and green energy initiatives to the neighborhood scale and beyond to create a robust green infrastructure network. Educate citizens on how to best integrate lot-scale interventions into the larger network.	Floods, Extreme Heat	New	NORA, DPW, SWBNO	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-2 years



Action:

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39	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Develop city-wide policy regarding re-use of materials from structure demolitions, other ways to reduce greenhouse gas footprint of new construction or retrofits	Develop a policy for the adaptive re-use and recycling of demolition materials.	This Addresses Climate Change and not a specific Hazard	New	Sanitation, ORS, CPC	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5 and 11	1-2 years



Action:

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40	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Update and Maintain the Climate Adaptation decision support tool and encourage use of the tool	Update and Maintain the Climate Adaptation decision support tool and encourage use of the tool	Floods, Tropical Cyclones, Coastal Erosion, Subsidence, Severe Thunderstorms, Extreme Heat, Winter Weather	New	ORS, SWBNO	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-5 years



Action:

No.	Goal	Action Type	Action Item	Description	Hazards	Status	Lead Agency/Support Agencies that will Implement Action	Preliminary Costs (including ongoing maintenance costs) – to be refined as more data becomes Available	Funding Sources (Specify specific entity that could potentially fund this action)	Emergency Support Function	Time Frame for Implementing Action
41	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Support Workforce development around resiliency and improve training-employment connections	Work with the WIB and JOB1 to build out a strategy for workforce development in the field of resiliency.	Floods, Tropical Cyclones, Coastal Erosion, Subsidence, Severe Thunderstorms, Extreme Heat, Winter Weather	New	OCD, WIB, Job1	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-5 years



Action:

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42	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Explore code/policy models related to canopy preservation on private property	Look at Houston Tree Ordinance as a potential guide for such a policy.	Extreme Heat, Floods	New	CPC, Parks and Parkways, ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-2 years



Action:

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43	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Increase water literacy curriculum development, teacher training, goal of all students receiving 1 hour/year of qualified instruction	Work with Orleans Parish School Board and other charter schools in the Parish to develop a curriculum for water ecology, rain gardens, best management practices for storm water management (catch basin debris collection etc.)	Flooding, Subsidence	New	New Orleans Public School Board	City Staff Time	Philanthropy, School Board	ESF 15	3 to 5 years

Action:

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44	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Coordinate with USACE on recertification on HSDRRS at 100-year level of protection	Work with USACE to update the HSDRRS risk assessment (conducted in 2013) to obtain NFIP recertification (due in 2023) for 100-year flood protection from FEMA.	Flooding	New	SLFPA-E, SLFPA-W, ORS	City Staff Time	CNO General Fund	ESF 5 and 14	1 to 2 years

Action:

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45	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Complete study on economic impact of Green Infrastructure investments and implement policy recommendations	Perform an economic impact study that facilities policy recommendations and implementation.	Flooding, High Wind	New	GNOF, OCD	City Staff Time	CNO General Fund	ESF 5	3 to 5 years



Action:

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46	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Louisiana Watershed Initiative - City engagement in Region 8 planning and policy	Continue coordination with Regional Planning Commission (RPC) and other parishes in Region 8 to implement the planning and policy development for water shed management in the region. Evaluation of flood risks and identification of projects in the region to minimize the flood risk in accordance with Louisiana Water Initiative launched by the State of Louisiana in 2018 based on the following principles: 1) Using scientific tools and data; 2) Enabling transparent, objective decision-making; 3) Maximizing the natural function of floodplains; 4) Establishing regional, watershed-based management of flood risk.	Flooding	New	CPC, RPC	City Staff Time	CNO General Fund	ESF 15	On-going (1 year)

Action:

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47	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property. Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Cohesive approach to drainage improvements and other flood mitigation via GNO Urban Water Plan Part 2	The Urban Water Plan provides a roadmap for better management of flood and subsidence threats, while creating economic value and enhancing quality of life. This plan seeks to work in tandem and create multiple lines of defense with the region's levee system and Louisiana's 2012 Coastal Master Plan. (ref: GNO Urban Water Plan)	Flooding, Subsidence	New	NOHSEP, DPW, S&WBNO, NORA, GNO, Inc., Water Collaborative	City Staff Time	CNO General Fund, HMGP	ESF 5 and 14	1 to 3 years

Action:

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48	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Incorporate local ecological knowledge and stakeholder input into decision support		All Hazards	New		City Staff Time	CNO General Fund	ESF 5 and 15	3 to 5 years



Action:

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49	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Scale up tree planting to neighborhood level, opt-out approach, contiguous planting grids	Promote tree clustering strategy which will allow plantings to have more impactful scale. It is a proven strategy that produces numerous environmental benefits, which has been implemented in numerous major cities, including Atlanta. Explore an opt-out planting strategy where community pre-selects streets for plantings; property owners can "opt-out" of the project if they desire.	Flooding and Extreme Heat	New	NOHSEP, CPC, Parks and Parkways, Sustaining Our Urban Landscape (SOUL), NOLA Tree Project	City Staff Time	CNO General Fund	ESF 11 and 14	1 to 3 years

Action:

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50	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Reforestation community outreach plan	Develop a public outreach and education plan to involve residents, businesses, and public officials to promote an equitable and healthy tree canopy. This public outreach program will facilitate the ongoing city's reforestation initiative to restore and expand the urban forest to a 50 percent tree canopy coverage by 2030 as specified in the city master plan.	Flooding	New	NOHSEP, CPC, Parks and Parkways, Sustaining Our Urban Landscape (SOUL), NOLA Tree Project	City Staff Time	CNO General Fund	ESF 15	1 to 3 years

Action:

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51	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Explore new ordinance for new construction to include native tree planting, protection of existing canopy including on private property	Evaluate the options for amending the building code and zoning ordinance to require/promote the preservation of existing native trees and planting of new native trees in the development of new properties.	Flooding, High Wind	New	CPC, Parks and Parkways	City Staff Time	CNO General Fund	ESF 5 and 14	3 to 5 years



Action:

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52	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	List the permitting process for tree planting and some types of concrete removal as Green Infrastructure rather than Construction project	Reclassify the tree planting activities under green infrastructure projects instead of construction projects.	Flooding and Extreme Heat	New	CPC, DPW, Safety and Permits	City Staff Time	CNO General Fund	ESF 11	1 to 3 years



Action:

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53	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Provide financial incentives to make mitigation accessible to all	Provide financial incentives at the City, Parish, or State level to make hazard mitigation improvements to private property accessible to all residents. Examples of incentives include offering low loan insurance rates for renovations, insurance discounts, home interest rate reductions, and SBA loan guarantee programs.	This May Impact all Hazards depending on program parameters	New	NOHSEP, OCD, ORS	City Staff Time	State and Federal Grants	ESF 5 and 7	1-5 years



Action:

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54	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Develop a tool with City monitoring data (AFWS) similar to the education/data monitoring tools that federal agencies use	Create an online, interactive tool utilizing City monitoring data around hazard mitigation initiatives for public use and education. This tool can be modeled after federal agency data monitoring tools. Ensure the tool is accessible to all, including K-12 audiences.	Flooding	New	NOHSEP, DPW, PPW	City Staff Time, Contract Labor	City capital bond funds, GOMESA, CDBG, CDBG-NDR, Sewerage and Water Board, State capital outlay, FHWA, FEMA-HMGP, US Army Corps of Engineers, FEMA	ESF 1 and 3	3-5 years

Action:

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55	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Improve access to green jobs from a young age as a means to greater social equity	Integrate green jobs education and skill-building into K-12 school and after school curriculums. Coordinate with education-focused organizations in the greater New Orleans area to offer additional educational opportunities pertaining to green jobs as a means to high-paying careers.	Floods, High Winds, Severe Thunderstorms, Extreme Heat, Winter Weather, Coastal Land Loss, Subsidence	New	WIB, Job1, ORS, DPW	City Staff Time, Contract Labor	GOMESA, CPRA, CWPPRA, Sewerage and Water Board	ESF 1 and 3	4-5 years



Action:

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56	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Create a citywide data platform of all green infrastructure projects	Coordinate between the City of New Orleans, local jurisdictions, Orleans Parish, neighboring Parishes, regional planning organizations, environmental organizations, and any other relevant stakeholder groups to compile a user-friendly, interactive data platform displaying green infrastructure projects and initiatives.	Floods, High Winds, Severe Thunderstorms, Extreme Heat, Winter Weather, Coastal Land Loss, Subsidence	New	IT	City Staff Time, Contract Labor	EPA, US Army Corps of Engineers, FEMA-HMGP	ESF 8	4-5 years



Action:

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57	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Link cross-parish projects to LWI and DOTD priorities, including Claiborne Ave, N Broad St, and Tulane Ave	Coordinate Orleans Parish mitigation initiatives with neighboring parishes to meet regional goals, including those outlined by the Louisiana Watershed Initiative and the Louisiana Department of Transportation and Development. Cross-jurisdictional project examples focused on major thoroughfares include Claiborne Avenue, Broad Street, and Tulane Avenue.	Floods	New	Regional Planning Commission, NOHSEP, DPW	City Staff Time, Contract Labor	EPA, Health and Human Services, Port of New Orleans	ESF 10 and 8	1 year

Action:

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58	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Define common metrics to measure resilience progress	Develop a set of metrics that can be used to track and measure the progress of various resiliency projects and initiatives in Orleans Parish. Ensure these data-informed metrics can be measured consistently over time to clearly communicate the impact of projects and programs on regional resiliency and mitigation.	Floods, High Winds, Severe Thunderstorms, Extreme Heat, Winter Weather, Coastal Land Loss, Subsidence	New	OIG, ORD, Universities	City Staff Time, Contract Labor	Health and Human Services, CDC, EPA	ESF 8 and 6	1-2 years



Action:

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59	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Property Protection	Integrate design solutions into community stormwater behaviors (e.g. designate parking areas in neutral grounds to avoid damage to trees and underground infrastructure	Implement citywide urban design standards intended to guide the community's response to stormwater management. Ensure the design guidelines and solutions consider the location of utilities and green infrastructure to prevent accidental and unintended damage to City facilities.	Floods, High Winds, Severe Thunderstorms, Winter Weather, Active Threats, Infrastructure Failure	New	ORS, DPW	City Staff Time, Contract Labor	Homeland Security, FEMA, Health and Human Services	ESF 2, 4, 6, 8, 10	2-5 years



Action:

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60	Goal 6: To protect Orleans Parish and the surrounding region from the effects of natural and manmade hazards, ensuring community continuity in the event of such hazards.	Prevention	Establish Neighborhood Resilience Hubs	Create neighborhood resilience hubs that are focused on community-serving initiatives. Resilience hubs provide an opportunity to build local community power and leadership, can support neighborhood residents before, during, or after a natural or manmade hazard event, and can ensure timely resource and service distribution during disasters.	All Hazards	New	NEO, ORS, NOHD	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 7 and 14	3-5 years

Action:

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61	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Create a digital database of City infrastructure plans, surveys, and other spatial data to inform project design, stormwater modeling and other uses	Digitize hard copies of historic plans and create a standard operation procedure for new projects. Create a comprehensive citywide digital database of existing City infrastructure plans, utility plans, surveys, GIS, and other spatial data to inform project design, stormwater modeling, and other hazard mitigation initiatives.	Floods	New	DPW, ITI	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 1	1-3 years

Action:

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62	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Former Recovery 1 Landfill maintenance and environmental protection of Bayou Sauvage	Ensure the former Recovery 1 landfill site located adjacent to Bayou Sauvage, a National Wildlife Refuge, is properly and safely maintained over time to prevent contamination of Bayou Sauvage.	Infrastructure Failure	New	Sanitationand DPW	City Staff Time, Contract Labor	CNO General Fund, EPA Grants, other State and Federal Grants	ESF 3 and 11	1-2 years

Action:

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63	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Household Hazard Waste drop-off days: involve volunteers, scale up material recovery and landfill diversion	Advertise and coordinate household hazardous waste drop-off days with local jurisdictions. Recruit volunteers to assist with expanding City efforts to scale up material recovery and landfill diversion. Improve public education to Orleans Parish residents about household hazardous waste Materials Collection Day and related efforts.	Hazardous Materials	New	New Orleans Department of Sanitation	City Staff Time and Disposal	CNO General Fund, State and Federal Grants	ESF 10 and 8 .1	1-2 years



Action:

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64	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Green Infrastructure maintenance manual	Create a comprehensive green infrastructure maintenance manual for Orleans Parish that details procedures such as who is the party responsible for maintenance, what are the steps and needed equipment and materials to maintain the green infrastructure, how these efforts can be sustainably funded over time, and how maintenance will be properly inspected and enforced.	Floods, High Winds, Severe Thunderstorms, Extreme Heat, Winter Weather, Coastal Land Loss, Subsidence	New	ORS, DPW, NOHSEP, PPW, SWBNO	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 3 and 5	1-2 years



Action:

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65	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Identify mitigation opportunities related to MS4 permit	Identify hazard mitigation provisions that can be included in the Municipal Separate Storm Sewer Systems (MS4) permitting process in order to promote a comprehensive and innovative urban water management approach throughout Orleans Parish. Focus on identifying actions that address both water quality and flooding.	Flooding	New	ORS, DPW	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants	ESF 3	1-2 years

Additional Feedback

- I. What Hazard Mitigation Actions have we missed?
- II. If you would like to provide additional feedback, please email hazardmitigation@nola.gov by October 31st
- III. For the 2015 Actions being carried forward for 2020 we will be reaching out to you for targeted feedback, thank you in advance for your help

Upcoming Events & Additional Resources

Upcoming Events

- Public Meeting #3 – Fall 2020
- Draft HMP out for Public Comment – December 2020

Additional Resources

- Hazard Mitigation Plan Website
 - <https://ready.nola.gov/hazard-mitigation/home/>
- Risk Reduction Survey
 - <https://ready.nola.gov/hazard-mitigation/survey/>
 - SURVEY to 504-608-3230
- Stay Connected
 - Email Updates: https://public.govdelivery.com/accounts/LANOLA/subscriber/new?topic_id=LANOLA_394
 - Text HAZARDPLAN to 468-311
- Submit Questions and Comments about the Hazard Mitigation Plan to, hazardmitigation@nola.gov



THANK YOU

City of New Orleans

Hazard Mitigation Planning, City Hall Working Group

October 20, 2020

12:30pm – 2pm