Action Plan for New Orleans: The New American City

January 11, 2006
Bring New Orleans Back Commission
Urban Planning Committee

Wallace Roberts & Todd, LLC – Master Planner
Forward

The Bring New Orleans Back Commission was created in October 2005 to make recommendations to the City of New Orleans for recovery following hurricanes Katrina and Rita. The Commission’s Urban Planning Committee was charged to prepare an action plan addressing the physical aspects of recovery and rebuilding. Working with the planning and design firm of Wallace Roberts & Todd, LLC and hundreds of volunteers, the Committee completed the plan in only ten weeks. The Plan was presented to the City on January 11, 2006 and to the State of Louisiana on January 13, 2006. Following public hearings, the Mayor presented the City’s plan, incorporating the Urban Planning Committee’s Action Plan with two modifications, to the public on March 20, 2006.

This document summarizes the Action Plan with the graphics and text used to present and discuss its contents with the general public.
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INTRODUCTION

Background
The City of New Orleans will be different in the future. Hurricanes Katrina and Rita changed a great deal. The charge of the Urban Planning Committee of the Bring New Orleans Back Commission has been to recommend a plan of action to address the physical future of the city of New Orleans. The Plan must answer the question: How will the city evolve from disaster to a bigger and better city in the long term? While necessarily our focus is on the short-term of the next two and one half to three years, we are mindful that every action must set the stage for a sustainable city in the future.

We are inspired by President Bush’s September 15th statement in Jackson Square (Figure 1):

I also offer this pledge of the American people: throughout the area hit by the hurricane, we will do what it takes, we will stay as long as it takes, to help citizens rebuild their communities and their lives. And all who question the future of the Crescent City need to know there is no way to imagine America without New Orleans, and this great city will rise again.

This is a promise of assistance, of whatever it takes, and a challenge to the Commission and the Urban Planning Committee to answer the questions of how the nation can help, and what the citizens of New Orleans must do to move forward.

Hurricane Katrina was a natural disaster. However, we know that what happened in August was not just an act of nature, but also multiple failures in the levee system. (Figure 2) If not for those failures, flooding would have been minimal and it would have been short. In fact, what happened is that deep water stood over a long period of time in large areas of the city. Figure 3 documents the depth of floodwater in New Orleans. The extent of flooding is remarkable. The reds indicate areas with over 6 feet of flood water. The brown are areas with over 10 feet of flood water. These conditions persisted for weeks until the breaches were closed and the pumps removed the water. (Figure 4) Deep standing water, particularly if it is brackish, is far more destructive than a short immersion. Approximately one-half of all New Orleans households had over four feet of floodwater. Only those areas that are green had less than two feet of water. Even as little as two feet of water can destroy machinery and electrical systems.

Over 240,000 people lived in houses that sustained over four feet of flood water – more than half of the city’s pre-Katrina population. Over 200,000 jobs were lost after the hurricane. (Figure 5)

This is the largest disaster in national memory, probably in the history of the nation. (Figure 6) Not only New Orleans, but an area of approximately 92,000 square miles – a little smaller than Great Britain – was affected. It is difficult to imagine the effect if this happened somewhere else. Figure 7 illustrates the coverage of only New Orleans flooding if it had happened in Washington, DC. The figure shows the outline area of Orleans flooding superimposed at the same scale on an
“I also offer this pledge of the American people: Throughout the area hit by the hurricane, we will do what it takes, we will stay as long as it takes, to help citizens rebuild their communities and their lives. And all who question the future of the Crescent City need to know there is no way to imagine America without New Orleans, and this great city will rise again.”

President George W. Bush, speaking in New Orleans at Jackson Square

September 15, 2005
What Happened?

Catastrophic failures in the levee system, caused by design and/or construction errors under the responsibility of the U.S. Army Corps of Engineers, occurred at the London Avenue, Industrial, and 17th Street canals.

Without these failures, flooding would have been minimal and short.
What Happened?
Deep Flooding Over a Large Area
What Happened?
Long Duration of Flooding

Figure 4
What Happened?

243,180 people lived in houses with over 4 feet of flood water; this is 50% of the city’s population.

203,236 jobs were lost after the hurricane in New Orleans.
What Happened?

This is the largest disaster in national memory. Imagine if it happened in Washington, DC.
Figure 7

Flooded Area of New Orleans
aerial photograph of the District of Columbia. All of the
downtown, including the White House and U.S. Capitol
would have been under water for weeks. Much of the
remainder of the District as well as large portions of the
suburban metropolitan area in Maryland and northern
Virginia would also have remained under deep water.

Why Rebuild?
Some still ask: Why should we rebuild? (Figure 8) Part
of the answer lies in the wisdom of previous generations.
Unlike any other part of the gulf region, stretching from
the state of Florida on the east through Texas on the
west, only the New Orleans area has been protected by a
levee system. Clearly it is imperative to protect this
extraordinarily valuable asset. It is valuable in many
ways.

New Orleans’ national economic importance includes
hundreds of billions of dollars in real estate assets, plus
petrochemical and other industries. (Figure 9) The
importance of the area’s petrochemical and natural gas
industries were demonstrated by the price spikes in
anticipation of and after the hurricane. It includes one of
the largest port operations in the country that moves
much of the grain produced by the United States’ bread
basket, as well as industrial and other products, to world
markets. It is a major import hub as well. The delta
region is a productive fishery that supplies many
restaurants in North America and abroad.

New Orleans is home to national and international rank
educational, medical, health, and research institutions.
The city has a unique concentration of 19 National
Register Historic Districts and over 38,000 properties,
25,000 of which suffered flood damage. New Orleans is
internationally celebrated for its culture, its music and
creative arts, as well as the arts of living.

Other great places have been through this process and
come back better than before. After San Francisco was
flattened by earthquake and burned, it came back. It still
is located on an active fault. After its fire, Chicago came
back, as did Florence after its flood. The entire country
of Holland offers an example to the world. Great cities
come back better than before.

Where Are People Now?
Still, many residents have not been able to return. Figure
10 shows the diaspora of displaced New Orleans citizens
across the United States in October 2005. The size of
the dots indicates the number of people. Those who
have been displaced are not just in the south and the
southeast, but in the four corners of the country with
deep personal and financial impacts for these citizens
and for their hosts.

In late 2005 the RAND Corporation in consultation with
GRC forecast that there might be close to 150,000
people back by January 2006. (Figure 11) They forecast
that by September 2006, the start of the next school
season, there might be approximately 181,000 people
back in the city. They also forecast a September 2008
population – a little over two and one-half years from now
– of approximately two hundred forty-seven thousand
people. These forecasts were based on national and
international experience and estimates of the speed with
which damaged homes can be repaired and made
habitable. The actual January 2006 population has been
estimated at approximately 181,000, considerably ahead
of the forecast. This is a reflection of the rootedness of
Why Rebuild?

Unlike the rest of the Gulf coast, including Mississippi, only New Orleans has been protected by an extensive levee system.

These previous investments in protection underscore the value of the asset.
Why Rebuild?

National Economic Importance
New Orleans is the center of a metropolitan area with over $500 billion in real estate assets, excluding petrochemical and other industries.

International Trade Importance
The Port of New Orleans and South Louisiana are the 4th largest in the world.

International Historic and Cultural Importance
19 National Register Districts with 38,000 properties (as many as 25,000 damaged). Renowned music, culture, creative and culinary arts are international tourism magnet.
Where Are People Now?

Katrina's Diaspora

The victims of Hurricane Katrina have fled for assistance from FEMA from every state. The map shows the distribution and number of the 1.3 million individual assistance applications as of Sept. 25.

Applications by state

<table>
<thead>
<tr>
<th>State</th>
<th>Applicants</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louisiana</td>
<td>523,148</td>
<td>39.8%</td>
</tr>
<tr>
<td>Mississippi</td>
<td>383,840</td>
<td>29.3%</td>
</tr>
<tr>
<td>Texas</td>
<td>156,688</td>
<td>11.6%</td>
</tr>
<tr>
<td>Alabama</td>
<td>109,669</td>
<td>8.1%</td>
</tr>
<tr>
<td>Georgia</td>
<td>95,342</td>
<td>7.3%</td>
</tr>
<tr>
<td>Florida</td>
<td>91,026</td>
<td>6.9%</td>
</tr>
<tr>
<td>Tennessee</td>
<td>16,239</td>
<td>1.2%</td>
</tr>
<tr>
<td>Arkansas</td>
<td>15,032</td>
<td>1.1%</td>
</tr>
<tr>
<td>California</td>
<td>10,953</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

Applications by distance from New Orleans

<table>
<thead>
<tr>
<th>Distance (miles)</th>
<th>Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;2000</td>
<td>626,259</td>
</tr>
<tr>
<td>1000-2000</td>
<td>339,080</td>
</tr>
<tr>
<td>1000</td>
<td>200,400</td>
</tr>
<tr>
<td>500-1000</td>
<td>145,455</td>
</tr>
<tr>
<td>250-500</td>
<td>91,026</td>
</tr>
<tr>
<td>0-249</td>
<td>15,032</td>
</tr>
<tr>
<td>20-249</td>
<td>677</td>
</tr>
</tbody>
</table>

Counts from which families filed applications:

Circles are sized according to the number of applications from a zip code.

Figure 10
How many people will return short term?
(Lack of housing will be the biggest constraint to return.)

<table>
<thead>
<tr>
<th>Date</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Katrina Population</td>
<td>485,000</td>
</tr>
<tr>
<td>September 1, 2005 Estimate</td>
<td>75,000</td>
</tr>
<tr>
<td>January 2006 Forecast</td>
<td>144,000</td>
</tr>
<tr>
<td>January 2006 Estimate</td>
<td>181,000</td>
</tr>
<tr>
<td>September 2006 Forecast</td>
<td>181,000</td>
</tr>
<tr>
<td>September 2008 Forecast</td>
<td>247,000</td>
</tr>
</tbody>
</table>

Source: RAND Corporation, GCR
residents and likely doubling up as people stay with friends while repairing their homes. It is important to understand that the lack of housing is now the biggest constraint to people moving back. People who have jobs have trouble finding places to live. Employers with openings have trouble finding employees with a place to live close enough to permit them to accept the job.

The Vision
The Committee gave much thought to developing a long term vision of the new New Orleans, one based on the best of its legacy. (Figure 12) The vision captures the spirit and aspirations of the Committee members and participants:

*New Orleans will be a sustainable, environmentally safe, socially equitable community with a vibrant economy. Its neighborhoods will be planned with its citizens and connect to jobs and the region. Each will preserve and celebrate its heritage of culture, landscape, and architecture.*

Therefore, the Committee did not consider rebuilding as a way to replace what was damaged, but as an opportunity to create the best city New Orleans could be - not just for people to return, but also to attract people from around the world to visit and live. (Figure 13) This will be a city that is bigger and better than before, a city with:

- **Downtown:** vibrant and bustling with people who want to live, work, eat, shop, experience culture and art, bring their children, and stay. A downtown that remains the economic and cultural center of the region and, in fact, of much of the south.
- **Neighborhoods:** the heart of activity and services, celebrating their unique heritage and welcoming the new.
- **Parks and open space:** bringing sustainable nature into every neighborhood, linking every part of the city.
- **Educational, technical, and medical institutions:** employment powerhouses, supporting their neighborhoods and energizing the economy of the region.
- **Connections:** beautifully landscaped connections throughout the city and region for pedestrians, bicycles, cars, and transit.

Our Approach to Planning
The Committee's approach focused on two physical scales and time frames simultaneously. The charge was, literally, to create order out of chaos. We needed to address the immediate presenting problems of environmental safety and the provision of habitable houses. At the same time, we needed to create a comprehensive, city-wide framework for a long-term sustainable city that could only be New Orleans. The solutions to each issue had to be direct, efficient, and equitable, enhance citizens’ quality of life, and create opportunities for future evolution of the community toward achievement of its vision. All these tasks needed to be accomplished without most of the hard data traditionally used in preparation of such plans, and in an extraordinarily compressed time – this was the gravest emergency imaginable.

An example of the Committee's approach to seemingly simple, traditional elements is the recommendation to provide parks and open space in every neighborhood, a simple goal – although one not achieved pre-Katrina. The plan recommends this solution to the lack of local
New Orleans will be a sustainable, environmentally safe, socially equitable community with a vibrant economy. Its neighborhoods will be planned with its citizens and connect to jobs and the region. Each will preserve and celebrate its heritage of culture, landscape, and architecture.
Imagine the Best City in the World

<table>
<thead>
<tr>
<th>Downtown</th>
<th>bustling with people who want to live, work, eat, shop, experience culture and art, bring their children, and stay.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neighborhoods</td>
<td>the heart of activity and services, celebrating unique heritage and welcoming the new.</td>
</tr>
<tr>
<td>Parks and Open Space</td>
<td>sustainable nature in every neighborhood, linking every part of the city.</td>
</tr>
<tr>
<td>Educational / Medical Institutions</td>
<td>employment powerhouses supporting their neighborhoods and energizing the economy.</td>
</tr>
<tr>
<td>Connections</td>
<td>beautifully landscaped connections throughout the city and region for pedestrians, bikes, cars, and transit.</td>
</tr>
</tbody>
</table>

Figure 13
open space and proposes parks as a part of the city-wide public and green infrastructure that serves multiple functions:

- Recreation and outdoor social space
- Variety in the visual environment and relief from development
- Design reference to local history and culture
- Urban forest ‘services’ including carbon sequestering and CO2 conversion to oxygen, particulate capture, reduction of urban heat island effects, phyto-remediation of contaminated soils, wind amelioration, habitat creation
- Storm water management
- Connections through a city-wide network that serve movement, social, and habitat creation values

By serving these multiple functions, this one element of civic life can address direct current needs while building a better, more sustainable city in the long term. Every recommendation made was similarly evaluated in terms of its ability to solve immediate needs and move the city towards achievement of its vision.

The plan’s focus on the physical means that it is concerned with shaping the daily experiences of citizens and visitors in New Orleans. As the physical scale changes from city-wide framework elements to the specifics of neighborhood structure, down to the design of specific structures and spaces, the impacts become more personal: where people live and work, what the experience of being there is like, who is encountered and in what place and context, how movement takes place and connections are established. All recommendations must contribute to every citizen’s health, freedom, delight in the experience of life, and the pleasure of being part of a community.
CITY-WIDE FRAMEWORK FOR RECONSTRUCTION

To help achieve these aspirations for all its citizens, the Committee prepared a framework for reconstruction of the entire city. (Figure 14) This was done with the understanding that, in the short term, there will be a considerably smaller population and reduced public revenues. Therefore, the plan must be responsible in two ways. First, it must use scarce public resources efficiently and equitably to benefit the most citizens. Second, it must not mislead citizens by making or implying promises regarding provision of public facilities and services that cannot be fulfilled.

There are four elements in this framework. The first three create the city-wide structure or skeleton that supports rebuilding of neighborhoods. The first has to do with safety: flood and storm water protection. The second has to do with connections and accessibility: transit and transportation. The third has to do with quality of life (attracting returning and new citizens): parks and open space. These three plans support the most critical action which is neighborhood rebuilding with its necessary public facilities and services. Neighborhood Rebuilding is discussed in the next section of this report.

Flood and Storm Water Protection Plan

New Orleans is not alone in its contest with floods and storms. (Figure 15) They are challenges that have been met throughout the world, in Holland, Japan, and elsewhere. New Orleans' location on the Mississippi delta requires a specific approach in response to the characteristics of the enormous, but shrinking delta, subsiding soil, and location in an area of high hurricane probability. The Committee recommends a comprehensive system with multiple lines of defense to protect the city. (Figure 16) These include perimeter levees around the city, pumping and floodgates, and internal levees with separate pumps that handle storm water. A most important part of the system is the restoration of regional costal wetlands to reduce storm surge.

The region approach is critical. Figure 17 illustrates the loss of wetlands predicted between the years 2000 and 2050. We have outlined the greatest concentrations of predicted loss, the small red dots, in red and highlighted the city in the center of the map. The best estimate now is that approximately one hundred percent of the New Orleans area projected 2050 wetland loss occurred last year. This is a sobering, in fact terrifying, number.

Challenges so large require a superbly organized response. However, there are now multiple levee districts in the region. (Figure 18) The Committee recommends creation of a single levee district. The Committee further recommends that the Corps of Engineers be responsible for funding, building, operating, and maintaining regional levees and pumping systems. These responsibilities must be carried out under the oversight of an independent entity that is led and staffed by qualified and experienced professionals.

The Flood and Storm Water Protection Plan diagram presents the lines of defense from flood and storm water. (Figure 19) The thick lines show the major levees and flood walls. These are located along Lake Pontchartrain and the Mississippi River. Minor levees are shown in a thinner line, east of the Industrial Canal on both sides of
What is the City-Wide Framework for Reconstruction?

- Flood and Stormwater Protection Plan
- Transit and Transportation Plan
- Parks and Open Space Plan
- Neighborhood Rebuilding Plan
Flood and Stormwater Protection Plan
Flood and Stormwater Protection Plan

• Comprehensive system with multiple lines of defense to protect the city:

- Perimeter levees
- Pumping and gates
- Internal levees with separate pumps
- Coastal wetland restoration
An estimated 100% of the New Orleans area projected 2050 wetland loss occurred in 2005.
Flood and Stormwater Protection Plan: Unified Responsibility

- Single levee district.
- Corps of Engineers responsible for:
  - regional levee/pumping system
  - fund and build
  - maintain and operate
- Independent and professional oversight entity for Corps of Engineers.
Flood and Stormwater Protection Plan
the Intracoastal Waterway. The Committee recommends relocation of the canal pumps away from the center of the city to the lake, so the canals no longer can become the Trojan horses that allow storm surges into the heart of the city as happened with Hurricane Katrina. Moving the pumps to the lake and protecting them and the canals will provide an entirely different level of security.

We recommend that the Industrial Canal be closed at the lakefront because commercial boat traffic does not need that access. We recommend also that the Industrial Canal locks be completed to provide another line of defense. The Mississippi River Gulf Outlet, which provided deadly access for the storm surge during Katrina, must be closed. This could be accomplished in different ways including permanent and temporary/operable closure systems.

Another line of defense is a series of internal levees, similar to the Dutch polder system, shown by dashed lines on the figure. This has more to do with managing storm water than floods. New Orleans’ frequent torrential rains can cause tremendous quality of life and financial difficulties as the pump system is currently not designed to handle them in every part of the city. The internal levee system takes advantage of existing places where there is high ground, for example railroad embankments and roads, that are elevated even as little as a foot or two above surrounding areas. These, when completed to form self-contained ‘cells’, can isolate storm water and permit it to be removed with a dedicated pumping system for each.

All these systems must be supported by regional coastal wetland restoration. These areas are the city’s first line of defense. Coastal wetlands reduce the height of storm surges and provide important habitat. An often cited rule of thumb is that 2.7 miles of coastal wetlands reduce the height of storm surge by approximately one foot. The considerable thought and study that have previously been devoted to this system should be used as the basis for restoration planning. Much of that coastal protection was lost in 2005. It must be brought back throughout the region as rapidly as possible.

The Committee recommends specific actions to help the city and its citizens defend themselves from floods and storms in the short term. (Figure 20) FEMA must release the advisory Base Flood Elevation maps within thirty days at the latest, and the final maps as soon as possible. These will provide important information to allow residents to make informed individual decisions about their homes. These decisions will be influenced by the reactions of the insurance, finance, and mortgage industries, reactions that are impossible to anticipate. Repairs to the flood protection breaches and temporary floodgates must be provided by the next hurricane season, in June of this year. We must move the pumps to the lake, and complete the design and fund the construction of the regional system, including coastal wetland restoration to protect the city from a Category 5 hurricane. Closing the Mississippi River Gulf Outlet is imperative; it is a regional issue. The Industrial Canal lock system should be completed to address those weaknesses in the protection system.

In the longer term, as President Bush promised on December 15, 2005, a levee protection upgrade to provide a levee system “better and stronger than ever before” must be completed in 2007. (Figure 21) In
Flood and Stormwater Protection
Actions

Immediate:

– FEMA releases advisory Base Flood Elevation maps within 30 days, and final maps as soon as possible.

– Complete repairs to flood protection system breaches and provide temporary flood gates by June 2006.

– Move pumps to the lake.

– Complete redesign and fund construction of the regional system (including coastal and wetland restoration) that will protect the city from a Category 5 hurricane.

– Close the MRGO and complete Industrial Canal lock system (note: storm surge-related danger from the MRGO may be mitigated without permanent closure).

Figure 20
Flood and Stormwater Protection Actions

Longer-term:

– Complete levee protection system upgrade before end of 2007:
  “…the New Orleans levee system (will be) better and stronger than ever before.”

– Construct regional protection system.

– Reuse canals edges and canal levees as open space. Replace open canals with box culverts.

– Implement internal storm water management on sub-area basis.
In addition, the regional protection system must put it in place. Once the pumps and associated protection are moved to the lake, we will have the opportunity to reuse canal levees and canal edges as open space. We should replace canals with box culverts where appropriate. When we do this, we will have created a new open space resource in many parts of the city. While this happens, we must implement the internal levee system to manage storm water.

Transit and Transportation Plan
Transit and transportation provide connection throughout the city and to the region of which New Orleans is the capitol. (Figure 22) Accessibility is essential to daily life and commerce.

The long term transit and transportation plan creates a city-wide high speed, light rail transit network that connects neighborhoods to neighborhoods, to downtown, and to other employment centers. (Figure 23) The cars can look as historic or modern as desired, but they will make fewer stops and move faster than street cars so the service becomes more competitive with the automobile. We know from national experience that light rail creates value in real estate and neighborhoods, and is a catalyst for reconstruction and redevelopment. We recommend that the transit system serve the city and link to the airport, Baton Rouge and west, and to the entire gulf coast of which New Orleans is the capitol. In addition, when new roads must be constructed they are designed with the neutral ground or the wide median system which provides space for pedestrians, bicycles, and transit as well as creating landscaped open space.

There are models for such a transit system; this is something that has been successful in many cities. (Figure 24) Portland, Oregon is famous for its city-wide system and regional connections. This system serves the existing population, but more than that, the city is using the new lines to create incentives for investment and settlement. They are managing the growth of the city and the distribution of private investments through their transit system. The New Orleans proposal is not too aggressive. Denver Colorado, which already has two light rail lines in operation, now has five new light rail and commuter lines approved for implementation - proof of the value of this kind of connection. The Dallas system, while only partly constructed, already has much higher than expected use with new lines in planning and construction to respond to their popularity and to help the city manage growth and development.

The Committee’s recommended system builds on a great deal of previous work. (Figure 25) There are regional lines and those within the city. The Committee recommends connecting the city to its region through commuter connections. These include heavier and faster trains to reinforce New Orleans’ role as the economic and cultural heart of the region by doing the following: 1) connect the downtown to the airport and beyond to Baton Rouge, largely using existing rail lines, and 2), on the east, connect to Slidel along the lakefront, and out Chef Menteur Highway to the Mississippi Gulf Coast where the train can connect with that state’s proposed system.

Within the city, we recommend a number of light rail lines be constructed, 53 new miles of service. Many of these have been studied and proposed before. We combine and add to these to create a network with stops that
Transit and Transportation Plan

• City-wide, high speed, light rail transit network connects neighborhoods to downtown and other employment centers.

• Light rail transit creates value and is a catalyst for reconstruction and new development.

• Rail transit links city to the airport, Baton Rouge, and the Gulf Coast.

• New roads will be designed with the wide median (neutral ground) model for pedestrians, bicycles, transit, and open space.

Figure 23
What Are the National Transit Models?

• Portland, Oregon
  - City-wide and regional connections paid for by bonds and grants.
  - Serves existing population.
  - New lines create incentives for investment and settlement.

• Denver, Colorado
  - Two light rail lines in operation.
  - Five new light and commuter lines approved for implementation.

• Dallas, Texas
  - System partially constructed with higher than expected use.
  - New lines in planning and construction to direct development.
Transit and Transportation Plan

Figure 25

[Image of a map showing transit and transportation routes.]

**TRANSIT PLAN**
- Existing Street Car
- RPC Planned Light Rail Transit
- RPC Planned Commuter Rail
- Proposed New Lines
- New Light Rail Stop
- Phase I

Lake Pontchartrain

To Slidell Region

To Mississippi Region

To Airport / B. Baton Rouge Region

Alaman Line

University of New Orleans / Southern Cross Line

St. Charles Line

Great Lake / Airport Line
support concentrations of activity and investment. We recommend that the current Canal Street line be extended up Canal Boulevard through Lakeview toward the Lake with possible stops at commercial intersections such as Harrison.

The current St. Charles streetcar line should be extended up Carrollton to the Fairgrounds and then along Desaix and Gentilly to an intersection with a line that runs up Elysian Fields from an extended Riverfront trolley line to the University of New Orleans.

The Riverfront trolley should be completed in a loop extending upriver along the riverfront from the Industrial Canal to the Lower Garden District and then toward the Lake and back downriver passing by O. C. Haley Boulevard, Rampart Street and back to Bywater. A line following this route should extend along St. Claude Avenue and into the Lower 9th Ward. This line would serve residents going to and from their jobs as well as visitors circulating among the high density cultural and entertainment attractions in these parts of the city.

In addition, there is an opportunity to extend a line along the high ground of the Gentilly ridge across Chef Menteur Highway through New Orleans East. The Chef Highway’s high ground location is one example of the multiple uses of existing elevated conditions as part of the internal levee and storm water management system.

We recommend that the Crescent City Connection, which was constructed with the strength and space to hold a light rail trolley in its HOV line, be activated by light rail coming across the bridge and down De Gaulle Drive in Algiers. This line would access large residential areas on the West Bank and those with the potential for more.

Light rail should be used to connect Claiborne Avenue to the Saint Charles line at Carrollton. Claiborne Avenue and this corner in particular, represent great potential for development and redevelopment of houses and businesses in the heart of the city.

Tulane Avenue serves the downtown Medical Center, which remains an economic engine. Provision of a light rail line along Tulane Avenue would connect it to the airport and Jefferson Parish, reinforcing its place in the region and stimulating investment at its stops.

There are a number of critical immediate actions that must be taken. (Figure 26) First, repair the existing streetcar lines and rolling stock, and restore bus service. We must quickly update the transit plan. We need to design the light rail lines plus the rapid transit to the airport and Baton Rouge right away because they can happen quickly. We must secure funding for the rail system. Because of the disaster, the city now may have higher priority for federal matching grants. In addition to providing transit, we need to repair and improve streets, and their associated drainage.

In the longer term, we need to construct the connections to the airport and Baton Rouge, Slidell, and then to the Gulf Coast jointly with the states of Louisiana and Mississippi. (Figure 27) We must construct the new light rail lines as returning population and demand justify the investment. We understand that not every line will be built right away, so we must provide bus rapid transit service in the short term. This is bus service, typically on
Transit and Transportation Actions

Immediate:

– Design and construct Phase 1 connecting the city to the airport and the Uptown area through downtown to New Orleans East.

– Repair existing streetcar lines and rolling stock; restore bus service.

– Update plan for transit based on new circumstances.

– Design light rail lines plus rapid transit from the airport to Baton Rouge and the region.

– Secure funding for the rail system.

– Repair and improve streets and associated drainage.
exclusive rights of way, that operates much more quickly than traditional buses, providing close to the lower end of the service range of light rail. As population increases we can convert the highest use bus rapid transit routes to fixed rail; it is a phased system that brings high service everywhere upfront.

**Parks and Open Space Plan**

With the discussion so far focusing on infrastructure, we might remember to ask a question: If the city is not also a beautiful and inspiring place, why would someone choose to live there? (Figure 28)

All citizens should have access to beautiful park and open space. (Figure 29) Every neighborhood should have a park. Many neighborhoods do not have either in sufficient quantity or quality. These parks should planned and designed to perform many functions. They are not just open spaces; they can be part of a citywide system that connects neighborhoods to employment, and neighborhood to neighborhood. We can also expand our thinking of parks and use the edges of canals, now reserved for maintenance, but becoming available for open space when they are covered. Then they become amenities - part of the city-wide network that also serves individual neighborhoods. Parks also can function as part of an internal storm water management system. Where there is space, stands of urban forest can disguise storm water detention basins, each with a pump to move the water out.

As Figure 30 reveals, the city has a number of large parks including Audubon Park, City Park, Pontchartrain, Joe Brown, and others. While Audubon and City Parks are nationally important, the reality is that many neighborhoods are not well served. Parks add value to existing neighborhoods. As is the case with City Park, they can also become the basis for recovery of an entire section of the city.

The Committee recommends building on an asset unique in extent to this city: the neutral ground system. These wide landscaped medians bring open space and opportunities for connection by all means including transit. Wherever a new street needs to be constructed or a damaged one reconstructed, include these medians in the design.

Canal rights-of-way should be incorporated into the park system as well. We have shown these as the large green lines on the figure. Where the canals are put in box culverts, you immediately have open space. Where they are not put in box culverts, but they are no longer a threat, they can become water features. The comparison between Bayou Saint John and the London canal is appropriate. In addition to psychological value, parks create real estate value for residents near them. We have identified a number of areas, shown by dashed circles, within which there is potential for future parkland. The circles are large to indicate that we have not identified properties; those will be determined with citizen involvement in a process described later. The new parks should perform many functions: they provide recreation and open space, they cool the land, they produce oxygen, and they act as part of the city-wide storm water protection and management system.

The City should seize on a significant opportunity to open the riverfront to all its citizens. A small portion of the Mississippi River is accessible to the public now. The
Parks and Open Space Plan

Figure 28
Parks and Open Space Plan

• Parks in every neighborhood.

• Multi-functional parks and open spaces connect neighborhoods and employment.

• Use canal edges and covered canals as open space amenities.

• Parks are part of internal stormwater management system.
Transit and Transportation Actions

Longer-term:

- Construct connections, jointly with the states of Louisiana and Mississippi, to the airport/Baton Rouge, Slidell, and the Gulf Coast.

- Design and construct new light rail lines completing the city-wide network connecting major employment and activity areas, including downtown.

- Develop bus rapid transit routes to improve service and connect to high speed, light rail lines.

- As population increases, convert highest use bus rapid transit to fixed rail.
area from the Moon Walk through Woldenberg Park and the Riverwalk grants access to the most interesting river in America. This is the river that made the city. The plan recommends that the riverfront walkway be extended along the extent of the Mississippi, from the Industrial Canal to Jefferson Parish. The Trust for Public Land already has a proposal in planning for an approximately one mile park extending upriver from the Riverwalk. This plan should be completed and extended. In some areas, particularly upriver in the active port zone, the walkway may be located landside of the flood wall, providing occasional glimpses of the river. National examples, including the 18-mile Hudson Riverwalk, illustrate the power of this public amenity. Regardless of its exact location, the extended riverwalk will provide connection among neighborhoods, visual and physical access to this public resource, and enhance the value of adjacent land.

How do we make this happen? (Figure 31) Immediately, we must update the parks and open space element of the Master Plan, identify properties that can become part of the system, and begin to assemble them. Of course we need to secure funding for park restoration. Some, such as City Park, are ready to go with plans (and an estimated implementation cost of $120 million for completion) in hand. In the longer term, we must complete acquisition of necessary properties and implement the plan, coordinating with the strategy for rebuilding neighborhoods.
Parks and Open Space Actions

Immediate:

- Update Park and Open Space element of the Master Plan.

- Identify properties that can become part of the system and begin assembly.

- Secure funding for park restoration.

Longer-term:

- Complete acquisition of necessary properties and implement plan.
REBUILDING NEIGHBORHOODS PLAN

This is the heart of the matter: rebuilding neighborhoods, bringing people back, attracting new residents. (Figure 32) Because the Committee wants everyone to return and new people to come, we have to support and create great neighborhoods.

What Makes a Great Neighborhood?
What would make a great community? (Figure 33) What would make someone choose this community? It is a place where you have family, friends, and neighbors. It reflects the unique history of each place and respects the physical pattern that makes that neighborhood special, the blocks, the architecture, and the landscape. It provides housing choices: mixed income communities with different types and costs of housing for owners and renters. It should be accessible through public transit and bike as well as on foot and by car. Each should have a center: the place you go to meet friends or gather on special occasions, and a place that serves your daily needs.

The Neighborhood Center Model
This vision of a great neighborhood is very important because neighborhoods are the centers of activity and everyone’s daily life. (Figure 34) The Committee developed a Neighborhood Center model to make these considerations explicit. We know that a neighborhood requires sufficient population to support the equitable and efficient delivery of public facilities and services. In other words, there have to be enough people living close to each other to justify the expenditure of public funds to serve them. When this happens, then every neighborhood can have the basic infrastructure it must have: roads, drainage that works, utilities and other public services. Each should have public schools, close enough for elementary students to walk if they want. Of course private and parochial schools will remain an important part of the education mix. Every neighborhood should have cultural and community facilities, places of worship, health facilities, park and open space within an easy walk, and convenience retail - the things we all need. The neighborhood should have access to public transit.

The illustration (Figure 35) presents one way some of these elements might be combined in an abstract neighborhood. This illustration might be applied to many places in the city of New Orleans, places that need to be rebuilt dramatically, or that just need new houses to fill in the empty lots. It might be Lakeview, the Lower 9th Ward, Central City, New Orleans East, or elsewhere.

The drawing shows a major street with a light rail transit line and a station. We know that kind of activity generates investment; therefore we see the mixed use center with retail and other services for residents and transit riders around the stop. The neutral ground model is used, leading away from the transit stop into the community, with mixed use commercial and higher density houses along it. Then the central park around which are located the community high school, public library, cultural and community center, and perhaps health facilities. Beyond are recreation fields which are jointly used by the high school and the community. Going further, there is the opportunity for an environmental center and a wetland park, one of the neighborhood parks described earlier that also function to detain and manage storm water. Around these areas
Rebuilding Neighborhoods Plan

Figure 32
What Makes a Great Neighborhood?

- Family, friends and neighbors.
- Built on neighborhood history and culture.
- Respectful of historic block patterns, architecture, and landscape.
- Mixed income communities with a diversity of housing types.
- Parks and open space connected to a city-wide system.
- City-wide accessibility through transit.
- Neighborhood centers that provide a high quality of daily life.
The Neighborhood Center Model

• Neighborhoods are the centers of activity and daily life.

• Neighborhoods require sufficient population to support the equitable and efficient provision of public facilities and services.

• Every neighborhood must have:
  – Basic infrastructure: roads, drainage, utilities, services
  – Public schools
  – Cultural and community facilities
  – Places of worship
  – Health facilities
  – Park and open space within an easy walk
  – Convenience retail
  – Access to public transit
Illustration of the Neighborhood Center Model

- Canal Park and City-Wide System
- Environmental Center and Wetland Park
- Mixed-Use Subcenter with Elementary School and Neighborhood Park
- Central Park with Recreation Fields
- Neighborhood Greenways
- Neighborhood High School with Library, Cultural and Community Center
- New Housing
- Medium Density Housing on Central Park
- Mixed-Use Community Commercial Boulevard
- Transit-Oriented Mixed-Use Center with Retail and Services
- Light Rail Transit on Neutral Ground connecting to CBD and City

Figure 35
are existing houses, new houses, neighborhood greenways connecting the elementary school and city parks, connecting to the citywide system. This is not a neighborhood in isolation; it is connected in every way by transit, by open space, and by roads.

As we plan to rebuild New Orleans with these aspirations in mind, we have to remember that in the short term population and City revenue will be greatly reduced. *(Figure 36)* We must use these resources wisely. Most important to accomplish now is the immediate provision of temporary housing to enable citizens to return; it is the lack of usable housing that is keeping citizens away. As we are doing that, we immediately need to turn our attention to establish neighborhood-planning teams to complete plans for the neighborhoods by May 20, 2006 – in a little over four months from today. This is fast, but achievable. Remember that providing houses quickly is the overriding concern now. It must be done in a manner that builds a better city in the long term as well. We must face the fact that there may have to be some consolidation of neighborhoods that have insufficient population to support the equitable and efficient delivery of services. In the short-term, there will be half the population of July 2005. We have no choice but to be responsible with use of limited City resources. We must provide public facilities and services where population is concentrated so these resources can be used in the most equitable and efficient manner possible. We also need to keep in mind that publicly subsidized housing is an asset, and work with HUD where appropriate to make the most of that asset.

Everything we do now must be considered for its long term impact on sustainable city-wide recovery and growth. *(Figure 37)* How can every short term action help to make New Orleans a great city – one that is sustainable over the long term? We have developed guidelines to assist the neighborhood planning teams as they address the specifics of their unique situations.

- Many years of experience support a neighborhood population of between approximately 5,000 and 10,000 people as ideal.
- We should know that most residents are committed to return, at least half.
- There should be enough people living close together (density) to permit the delivery of public infrastructure, services, and utilities in an efficient manner.
- Many studies, and the experience and common sense of parents, support the model of small schools: two K-8 public schools and a shared high school to serve a population of approximately 11,000 people.
- Other aspects of a full and satisfying daily life include places of worship, access to convenience retail, health, community, and cultural facilities, parks and open space, accessibility to the rest of the city and region by transit, and contiguous relationship to other neighborhoods.

After it becomes clear who will return and where, there is likely to be an amount of land not required for the short term population. Neighborhood planning teams will make recommendations on the best use of these urban reserves. These are areas, of all sizes, that will not be immediately reoccupied. They should be treated physically and legally in a manner that will contribute to the long term recovery and health of the city.
How Do We Rebuild Neighborhoods?

Reduced population and City revenue require a new approach.

- Provide immediate temporary housing to enable citizens to return.
- Establish neighborhood planning teams to start work February 20, 2006; complete plans by May 20, 2006.
- Consolidate neighborhoods with insufficient population to support equitable and efficient service delivery.
- Provide facilities and services to population concentrations in the most efficient manner possible.
- Recognize publicly subsidized housing as an asset and address with HUD where appropriate.
Sustainable Neighborhood Guidelines

New Orleans has many unique neighborhoods. Therefore, these guidelines are intended for use by the neighborhood planning teams for general guidance only.

- Neighborhood population - 5,000 to 10,000.
- Residents committed to return.
- Reasonably efficient delivery of public infrastructure, services and utilities.
- One to two K-8 public schools and a shared public high school supported by approximately 11,000 people.
- Places of worship.
- Reasonable access to convenience retail, health, cultural, and community facilities.
- Park and open space.
- Connection to the city by convenient public transit.
- Contiguous relationship with at least two other neighborhoods.
- If there is undeveloped land, the neighborhood planning teams will make recommendations on its use.
neighborhood and the city-wide planning teams should keep in mind the long term use of the land as the city grows again. Rather than leave buildings and land fallow, the city must prepare plans for their management. Many practices can be used to help, including planting of species capable of phyto-remediation of contaminants, tree planting for the 'environmental services' they provide and as a way to create suitable environments in which new residents may wish to live, park and open space, and others.

With all of the preceding in mind, the Committee has identified different kinds of opportunities for neighborhood rebuilding throughout the city: Immediate Opportunity Areas, Neighborhood Planning Areas, and Infill Development Areas. (Figure 38) Each has different characteristics.

**Immediate Opportunity Areas**
These are areas that suffered little or no flood damage. (Figure 39) It is common sense, and easily observed, that people have already moved back and started repair activities in these areas. These areas include the downtown concentration of commercial, medical, residential, entertainment, cultural, and hospitality activities as well as educational and medical institutions that have immediate needs. Remember that the critical need is to provide housing for people who want to return. We must identify vacant and underutilized properties for new construction. We must expedite permitting for repairs and for construction of new housing. We need to provide, where they do not exist, and support where they do exist, community and cultural facilities and services so we can begin to build up the daily life of those neighborhoods. We must work with institutions to address their immediate needs so they can get their employees and economic benefits back up and running. These areas are ready to go and repair and construction should take place using current rules and regulations.

Figure 40 generally locates these areas with the yellow tone. They include the West Bank, large areas on the East Bank and parts of New Orleans East. In addition, we have indicated major institutions with dots. These include Southern University, University of New Orleans, Dillard, Delgado, Xavier, Tulane, Loyola, and the medical center in downtown. We have outlined the downtown here because it had relatively little flood damage and is the economic powerhouse of the city and the region, poised for return.

**Neighborhood Planning Areas**
By act of nature and levee failure, there are other areas that were not so lucky. (Figures 41 and 42) They contain properties that were deeply flooded and heavily damaged. We call these Neighborhood Planning Areas because they all contain residential neighborhoods. Further, like every neighborhood in the city, their residents must be involved in making decisions about the future. The difference in these areas is that individual decision making will be more difficult because of the severity of damage and the effect of rules imposed from outside the city. When released, the revised Base Flood Elevation maps will likely have a significant effect on many residents’ decisions. Because these maps are not now available, it would be irresponsible to guess their effect. The planning with these areas will be especially intense and expeditious.
Opportunities for Neighborhood Rebuilding

• Immediate Opportunity Areas
• Neighborhood Planning Areas
• Infill Development Areas
• Targeted Development Areas
Immediate Opportunity Areas

- Areas with little or no flood damage.
- Downtown concentration of commercial, medical, residential, cultural, entertainment, and hospitality activities.
- Institutions with immediate needs.
- Actions (by an appropriate recovery entity):
  - Identify vacant and underutilized property for new residential and commercial construction.
  - Expedite permits for repairs and construction of new housing.
  - Provide/support community and cultural facilities and services.
  - Assist educational/health institutions address immediate needs.
  - Begin repair/reconstruction using current rules and regulations.
Immediate Opportunity Areas

Figure 40
Key Recommendations

• Complete the structure necessary and CDBG funding to accomplish buy-out of heavily flooded/damaged homes and provide for repair and reconstruction for those who wish to return.

• Aggressively pursue neighborhood planning and implement recommendations in coordination with the city-wide plan.

• Do not issue building permits in heavily flooded/damaged areas.

• Create the New Orleans Recovery Corporation.

• Start major housing construction in Target Development Areas.

• Design, fund, and construct high speed transit.
Neighborhood Planning Areas

• These areas contain deeply flooded and heavily damaged properties.

• Actions:
  - Conduct inclusive neighborhood planning process to determine future of all the areas.
Neighborhood Planning Areas

Figure 42
Figure 43 documents the fact that Immediate Opportunity Areas and Neighborhood Planning Areas cover the entire city. It is very important to note that neighborhood planning will take place in every neighborhood in the city. This will be organized by the Neighborhood Planning Districts shown on this figure. This is a geographic system used by the City Planning Commission that permits quick access to data necessary for planning. Because of differences in severity of damage, some planning districts will require more in-depth attention than others, with the most heavily damaged requiring additional effort. It is the intent of the neighborhood planning process to level the playing field for recovery, regardless of the internal resources in any neighborhood. In fact, many neighborhoods had pre-Katrina plans that can serve as the basis for this effort. Some have already initiated post-Katrina efforts that, likewise, can facilitate completion of the neighborhood planning work.

Neighborhood Planning will be conducted by teams which will be assigned to every planning district and charged to begin work by February 20, 2006. (Figure 44) The team members will include neighborhood residents, plus experienced professionals (planner, urban designer, historic preservation expert, City Planning Commission representative, environmental/public health consultant, mitigation planner, housing and finance expert, hydrologist, civil engineer, administrative/technology support). It is very important that each have community outreach support to work with displaced residents as well as those who have already been able to return. Clearly, the greatest challenge will be to contact and involve residents who have not yet returned. The team will use a variety of techniques to accomplish this which may include remote meetings and work sessions, virtual internet neighborhoods, and others. The importance of outreach and follow-through cannot be overemphasized.

These plans will be guided by the neighborhood center model of a healthy and thriving community, by the residents committed to return, and by the knowledge that sufficient population is necessary to support facilities and services. (Figure 45) There must be structural and environmental safety both in individual buildings and the environment at large; we must know this by testing, not guessing. Attention must paid to neighborhood history and culture. These plans will be completed by May 20th. This schedule is designed to allow enough time for important new information necessary for residents to make their individual decisions to be made available: in particular, the Base Flood Elevation maps. At the same time, it is designed to move as fast as possible to help the citizens of New Orleans take action on their future. The result of the neighborhood planning process should be a document for each of the planning districts containing the following sections: land uses, their location, and their density intensity; public facilities and services; the likely phasing of development; a property acquisition plan where appropriate; development guideline controls to make sure any new construction is compatible with neighborhood character.

**Infill Development Areas**

The third type of neighborhood rebuilding area contains places that offer the opportunity for infill development. These are located in both the Immediate Opportunity Areas (little or no flood damage) and the Neighborhood Planning Areas (heavily flooded and damaged). (Figures
Neighborhood Planning Process

Figure 43
Neighborhood Planning Process and Schedule

• Neighborhood planning process will be conducted in all neighborhoods.
  - Form neighborhood planning teams for each Neighborhood Planning District and start work by February 20:
    - Neighborhood residents
    - Planner/urban designer
    - Historic preservation expert
    - City Council representative
    - City Planning Commission representative
    - Environmental/public health consultant
    - Mitigation planner
    - Finance expert
    - Administrative/technology support
    - Community outreach
  - Reach out to displaced residents by a variety of means (meetings, internet, and others).
Neighborhood Planning Process and Schedule

• Neighborhood plans will be guided by:
  - Neighborhood center model
  - Residents committed to return
  - Population needed to support facilities and services
  - Structural and environmental safety
  - Neighborhood history and culture

• Neighborhood plans completed by May 20, 2006:
  - Land use and density/intensity
  - Public facilities and services
  - Phasing
  - Property acquisition plan
  - Development guideline controls
They include land that is privately and publicly owned, blighted and adjudicated properties, brownfields, underutilized sites on high ground, or those requiring demolition and clearance. These can be developed with houses, commercial and industrial uses - the activities that make a city work. To take advantage of these opportunities to bring the city back, we need to consolidate public and private ownership to create parcels of land that can accommodate urban development.

Once the neighborhood plans have been prepared, we can issue developer requests for proposals, and select the developers to make the private investments necessary to support the plans. We must remember that our goal is to provide opportunities for houses and jobs, to bring the city back.

We have identified Infill Development Areas in Figure 11. They vary in their characteristics from place to place. For example, there are areas of Algiers where there is relatively little development or underutilized land that could easily provide more housing for returning residents. They are on De Gaulle Drive, south and west of De Gaulle, and in Algiers Point.

On the East bank, there are areas appropriate for infill along the riverfront including Irish Channel and the Lower Garden District (upriver from the bridge), the downtown, and the Marigny and Bywater areas.

There is a series of opportunities for construction of infill development to support returning residents located in a band going across the center of the city. In varying degrees, they contain blighted and adjudicated properties, public land, public housing authority property, and other areas of publicly owned land, all of which can become the seed around which new or revitalized communities can grow. The character of each will be determined through the neighborhood planning process described earlier.

One of these areas is the lower 9th Ward where ultimately it may be necessary to demolish a large number of buildings to protect the public health and safety. This can be an opportunity for the residents to work through the neighborhood planning process to direct the future of this neighborhood, whether it is through infill or larger concentrations of new buildings taking advantage of the benefits of the neighborhood center model.

There is an unusual infill opportunity in the Almonaster corridor, an area not subject to deep or long flooding. This area is next to a proposed light rail corridor that helps create the opportunity for both residential and, particularly, employment investment and growth. The Committee has already received unsolicited expressions
Infill Development Areas

- Private and publicly-owned land, blighted and adjudicated properties, and underutilized sites on high ground, or those requiring demolition and clearance, that can be developed with houses, commercial, and institutional uses.

- Actions:
  - Consolidate public and private ownership.
  - Prepare development plans.
  - Issue developer requests for proposals and select developers.
  - Request FEMA assistance to repair blighted and adjudicated properties for temporary and permanent housing (in lieu of and in addition to trailers).
Infill Development Areas

Figure 47
of interest for this type of housing and jobs development in the area.

**Neighborhood Rebuilding Strategy**
The Committee’s rebuilding strategy looks at every possible opportunity to rebuild the city. (Figure 48) It will build on the results of the neighborhood planning process while it also recommends focus on the best prospects for rapid creation of significant numbers of houses and jobs. The Committee targeted five of these areas that we believe offer the greatest opportunity for achieving our short term goals, while building toward a city that is environmentally, socially, and economically sustainable over the long term.

Algiers’ underutilized land and vacant or underperforming commercial properties along De Gaulle Drive, coupled with light rail transit service and infill residential construction offer the opportunity of creating many new houses and jobs, linked to reopening of the Behrman School and other public facilities already in planning.

Downtown remains the heart of the region. Its strength will be magnified by construction of the regional rail transit system which will provide extraordinary connections from the CBD to the city, the airport, and Gulf Coast region, and by the high speed light rail system within the city. The opportunities here include dense new residential areas, continued conversion of commercial property to residential use, and growth in entertainment and hospitality with new venues already under discussion. The medical/research complex is ideally located for growth in the center of these activities and the transit system.

In the larger Central City area are many opportunities to build on unique physical and cultural characters, including connection of the O. C. Halley Boulevard through downtown across the Rampart Jazz corridor. This area, in which planning efforts have recently been completed, can become one of a series of neighborhoods of choice.

The Almonaster corridor target area makes the most of proposed light rail and unsolicited expressions of private interest to work with the city to develop a new community and support it with job creation opportunities. An area of several hundred acres here could accommodate many hundreds of new houses and jobs.

**City-wide Coordination Plan**
City-wide coordination is the glue that holds the neighborhood planning efforts together and leads to a draft Master Plan recommendation to the City Planning Commission. If properly structured and supported, it also can be the place where conflicting desires and tough decisions are fairly and equitably discussed – based on facts. The city-wide effort should include the following:
Neighborhood Rebuilding Strategy

Figure 48
• Standard base maps with common data layers
• Data file for common use including socio-economic, physical, and policy elements
• Information coordination and management (including that necessary to inform discussion of any consolidation recommendations)
• Flood protection and storm water management plan
• Transit plan
• Parks and open space plan
• School plan
• Community facilities and services plan, with particular attention to historic resources
• Interim city-wide development guidelines leading to a focused update of the zoning ordinance
• Assistance structuring the Design Review Committee, its guidelines and procedures
• Public relations shared with neighborhood teams
• Management and finance expertise

The city-wide effort should start immediately to create a more closely defined set of neighborhood criteria based on city capacity (and internal management efficiencies) for facility and service delivery and a base of consistent facts from which the neighborhood efforts can draw. These efforts will advance the neighborhood and city-wide plans so they are internally consistent and able to meet the aggressive schedule.
THE ACTION PLAN

What we have discussed above is the plan. We have the plan; now is the time for action. We recommend a series of next steps to create the foundation for longer term achievement of the vision and plan. (*Figures 49 through 56*)

Next Steps
1) We need to immediately form the New Orleans Recovery Corporation – the NORC. This will require amending the City Charter to accommodate its formation. The NORC could take one of at least three forms: 1) it could be a state legislated redevelopment commission with non-political governance that can form and delegate authority to affiliated corporations, or 2) the New Orleans Redevelopment Authority with amended governance, policies and procedures to accommodate the NORC, or 3) an adaptation of any federal organization to establish a subsidiary entity with the powers required for the NORC.

To be effective at the enormous task of rebuilding the city, the NORC must have the powers to receive and expend redevelopment funds, to implement the redevelopment plan, to buy and sell property including use, as a last resort, of the power of eminent domain. This generally should only be used when health and safety issues exist or adequate public facilities and services cannot be provided. It needs to be able to issue bonds, and it has to coordinate with and enhance the City Planning Commission’s capacity to carry out its planning responsibilities.

The NORC should be governed by a board with between 7-15 members with staggered terms, and however the board is appointed, no single appointing entity should have a majority. Board membership must be based purely upon qualifications. The CEO and staff must be competitively selected, also based purely upon qualifications. The NORC must sunset. It should have up to a 10-year life span and then end.

2) We must aggressively pursue FEMA, CDBG and other governmental sources of support to implement the plan.

3) To improve chances for the city’s repopulation outcome, we should support a program that will assist homeowners who choose to repair, rebuild, or sell their homes (and remain in Louisiana) at the home’s pre-Katrina market value up to $150,000, less insurance proceeds.

4) We should support programs that provide to homeowners with houses in the floodplain, but without flood insurance, pre-Katrina market value up to $105,000, less insurance proceeds, for repair, rebuilding, or buyout. Additionally, we should provide similar
Next Steps

1. **Immediately form the New Orleans Recovery Corporation (NORC).**

   - Amend City charter to accommodate the NORC.

   - Determine the best vehicle to create the NORC:
     - State legislated redevelopment commission with non-political governance that can form and delegate authority to affiliated corporations, or
     - Amend New Orleans Redevelopment Authority governance, policies, and procedures to accommodate the NORC formation, or
     - Adapt any federally organized entity to permit establishment of an entity with the powers required for the NORC.
- **NORC Powers:**
  - Receive and expend redevelopment funds.
  - Implement recovery plan in accordance with an updated Master Plan.
  - Buy and sell property for redevelopment, including use of eminent domain as a last resort.
  - Issue bonds.
  - Coordinate with City Council.
  - Coordinate with and enhance City Planning Commission capacity.
- NORC Governance

- Board with 7 to 15 members:
  - No single appointing authority has a majority.
  - Board membership based on qualifications.
  - Staggered terms.

- CEO and staff competitively selected based on qualifications.

- Ten year life span.
2. Aggressively pursue FEMA, CDBG grants, and other governmental sources to implement the plan.

3. Support a program to assist homeowners who choose to repair, rebuild, or sell their homes (and remain in Louisiana) at the home’s pre-Katrina market value for up to $150,000, less insurance recovery proceeds.

4. Programs to provide to:
   a. Homeowners in the flood plain without flood insurance, pre-Katrina market value for up to $105,000 (less insurance proceeds) for repair, rebuilding, or buyout.
   b. Homeowners not intending to rebuild in Louisiana, pre-Katrina market value up to $90,000 (less insurance proceeds) for buyout.
Next Steps

5. Advise the City to not issue any permits to build or rebuild in heavily flooded and damaged areas until citizens are satisfied they understand the conditions to which they are returning, that they will have neighbors, and:
   - Advisory Base Flood Elevations have been issued by FEMA.
   - Neighborhood planning teams have completed their plans and made recommendations to the City.
   - Adequate and efficiently delivered utilities and city services are available.

6. Immediately begin the neighborhood planning process with completion of neighborhood and consolidated city-wide plans by June 20, 2006.
7. Design and pursue funding commitments for Phase 1 of the rapid transit system by no later than January 1, 2007.

8. Convene national finance experts to develop programs and plans to assist homeowners, business owners, and investors to implement the Recovery Plan:
   - Tax credit incentives.
   - Below market interest rate loans.
   - Identify and provide favorable gap financing.
   - Assure CDBG grants are utilized in an efficient manner.
   - Identify institutions that will “adopt” neighborhoods to provide funding not available from other financial sources.
Next Steps

9. Provide predictable development rules and link to the Recovery Corporation:

- Recommend a new Master Plan to the City.
- Place land use authority with the City Planning Commission.
- Give it the force of law through a charter change.
- Cause the revision of the Zoning Ordinance and development code to implement the Master Plan.
- Make administration fair and consistent.
- Prepare interim development design guidelines.
- Create a design review commission.
- Protect integrity of National Register Historic Districts.
Next Steps

10. Identify and facilitate financially responsible developers to develop large numbers of houses quickly in Target Development Areas.
assistance, up to $90,000, to homeowners not intending to remain in Louisiana.

5) There must be time for residents to make informed decisions about their individual plans. We recommend that the City not issue any permits to build or rebuild in heavily flooded and damaged areas until the advisory Base Flood Elevations maps have been issued by FEMA, until the neighborhood planning teams have completed their plans and made their coordinated recommendations in a city-wide plan to the city, and until adequately delivered utilities and city services are available.

6) To make this happen we must immediately begin the neighborhood planning and city-wide coordination process. Neighborhood plans will be complete by May 20th and the city-wide consolidated plan will be completed by June 20th.

7) We also need to design the rapid transit system, and aggressively pursue and secure funding commitments for it no later than January 1, 2007.

8) To be serious about accomplishing this plan, we need to develop the finance programs that will assist homeowners, business owners and investors to implement the recovery plan. There many components to these finance programs. These should include a variety of programs and approaches, to name several:

- Tax Credits to allow for larger, mixed income, newly constructed apartment communities;
- Extension of Historic Tax Credits to home owners for repair/renovation;
- CDBG funds for gap financing for home owners' repairs;
- Streamlining FHA home improvement loan processes and allowing for 2nd mortgages;
- Extended mortgage forbearance;
- Below market interest rate loans. We must guarantee that the use of public funds is efficient and accountable. We might also reach out to institutions, businesses, and others to “adopt” neighborhoods and provide funding and services not otherwise available.
   We should convene national experts to prepare targeted programs and plans to accomplish this.

9) As we know from experience, this will only produce a sustainable community if there is a predictable development environment, where the rules are linked to the NORC, and everyone plays by the same rules. To accomplish this we must recommend a new Master Plan to the city. It should be given the force of law through a charter change. The revised zoning and development codes should be designed to implement the Master Plan. Land use authority should be placed with the City Planning Commission and its administration should be fair and consistent. In supporting the new construction already underway, we need to prepare interim development design guidelines and create a design review commission so that these early actions are supportive of a better city. An important part of this must
be protection of the integrity of the city’s National Register Historic districts.

10) It will take massive private investment to build on the scale necessary. It is absolutely critical to identify and help financially responsible developers to construct large numbers of houses quickly.

**What Will It Cost?**

What will all this cost? (Figure 57) We have early estimates for some elements, while others need to be determined. Likewise, we have made initial determinations of specific potential sources of funding.

- Acquisition of heavily flooded and damaged houses: estimated cost is $4 billion (funding source: CDBG, FEMA HMPG).
- Demolition and site remediation: estimated cost is $700 million (funding source: FEMA Public Assistance – Category A Debris Removal, CDBG).
- Public transit (including the airport line, but excluding Baton Rouge and Gulf coast lines): estimated cost is $4.8 billion (funding source: US DOT - FHWA and FTA, FEMA Public Assistance, CDBG). Of this total, $1 billion is for the immediate construction of the airport to downtown to New Orleans East line.
- Damaged public buildings: estimated cost is $413 million (funding source: FEMA Public Assistance).
- NORC operation over its ten year life: estimated cost at $1 million per year is $10 million (funding source: other).
- Reconstruction and long term recovery planning: estimated cost is $7.5 million (funding source: FEMA, US Economic Development Administration).
- Parks and open space costs will be calculated as part of the planning process. (Funding source: FEMA HMPG and Individual Assistance, US DOT - FHWA Transportation Enhancement Program).

This is evolving on a daily basis. We expect the estimates and funding sources to continue to be refined as work on the detailed city-wide and neighborhood plans progresses.

**Schedule**

It is important to balance the need to act quickly with the necessity to do so in a thoughtful manner. (Figures 58 through 60) Here is our schedule:

- January 20th start formation of the neighborhood planning teams. Refine their scope of work and schedule. Begin data collection and analysis for the neighborhood plans and the city-wide planning and coordination effort.
## What Will It Cost?

<table>
<thead>
<tr>
<th>Description</th>
<th>ESTIMATED COST</th>
<th>SOURCE</th>
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<tr>
<td>Heavy flooded/damaged home acquisition</td>
<td>Immediate $4 billion</td>
<td>CDBG, FEMA HMGP</td>
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<tr>
<td>Demolition and site remediation</td>
<td>$700 million</td>
<td>FEMA Public Assistance (Category A Debris Removal), CDBG</td>
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<td>Public transit (including airport line, but not Batter Rouge or Gulf Coast)</td>
<td>$1 billion</td>
<td>US DOT (FHWA, FTA), Public Assistance, CDBG</td>
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<td>Phase 1 (airport plus Uptown to New Orleans East)</td>
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<td>CDBG</td>
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<td>Future city-wide system</td>
<td>$3.8 billion</td>
<td>CDBG</td>
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<td>TOTAL</td>
<td>$4.8 billion</td>
<td>CDBG</td>
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<td>Damaged public buildings</td>
<td>$413 million</td>
<td>FEMA Public Assistance</td>
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<tr>
<td>NORC operations ($1 Million/year for ten years)</td>
<td>$2 million</td>
<td>Other</td>
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<td>$8 million</td>
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<tr>
<td>Reconstruction/long term recovery planning</td>
<td>$7.5 million</td>
<td>FEMA, US EDA</td>
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<td>Parks and open space</td>
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<td>FEMA (HMGP, Individual Assistance Program), US DOT (FHWA Transportation Enhancement Program)</td>
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<td>TOTAL</td>
<td>6.1225 billion</td>
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<td>3.808 billion</td>
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Schedule

January 20, 2006:
• Start formation of neighborhood planning teams; refine scope of work and schedule.
• Start data collection and analysis for neighborhood plans and city-wide coordination.

February 20, 2006:
• Neighborhood planning teams start work.
• Neighborhood plans coordinated city-wide.
• Plan to identify committed returning residents.
Schedule

March 20, 2006:
• Complete identification of residents committed to return.

April 20, 2006:
• Finalize structure and funding for residential buy-out; to be passed by Congress (by April 10th).

May 20, 2006:
• Neighborhood plans completed.
• Continue city-wide neighborhood plan consolidation.
• Begin residential buy-out and grant funding.
• February 20th neighborhood planning teams start work. Neighborhood plans begin coordination city-wide from the beginning. We create the outreach plan to identify committed returning residents and involve all.

• By March 20th we will have completed the identification of residents who are committed to return. A month later, before the spring recess, we will have funding for the residential buy-out passed by Congress.

• By May 20th, the neighborhood plans will be complete and ready for the final city-wide plan coordination work.

• By June 20th the consolidated plan will be recommended to the City Planning Commission. By the end of August, there will be complete financial analysis and funding secured for reconstruction. We can then begin any necessary property acquisition and start major neighborhood reconstruction.

Key Recommendations
This executive summary covers a great deal of material; yet it only touches superficially on the Committee’s work. (Figure 61) Much of that is contained in the collected working papers and memoranda of the Urban Planning Committee’s six sub-committees. It is clear that we must move quickly and decisively, focusing on short term needs while working toward a sustainable future. Therefore, we summarize our key recommendations.

• Complete the structure necessary and CDBG funding to accomplish the buyout of heavily flooded and damaged homes and provide for the repair and reconstruction of those who wish to return.

• We must aggressively pursue the neighborhood planning process and implement the recommendations of those efforts within a coordinated city-wide plan.

• We should not issue building permits in the heavily flooded and damaged areas until the neighborhood planning process is complete this summer. Investment decisions in these areas must be based on facts that are not yet available.

• We must create the New Orleans Recovery Corporation which is necessary to manage and direct the recovery process.

• We must start major housing construction in the target development areas to provide the houses people need as quickly as possible.

• We must design, fund and construct the high-speed transit system which will strengthen and support the city.
Key Recommendations

• Complete the structure necessary and CDBG funding to accomplish buy-out of heavily flooded/damaged homes and provide for repair and reconstruction for those who wish to return.

• Aggressively pursue neighborhood planning and implement recommendations in coordination with the city-wide plan.

• Do not issue building permits in heavily flooded/damaged areas.

• Create the New Orleans Recovery Corporation.

• Start major housing construction in Target Development Areas.

• Design, fund, and construct high speed transit.
There will more work and sacrifice ahead. Therefore, we should remind ourselves of the vision that calls us to action. (Figure 62) New Orleans will be a city that is environmentally, socially, and economically sustainable. A city built on the best of its legacy. The best city in the world.
Schedule

June 20, 2006:
• Consolidated BNOBC plan recommended to City Planning Commission.

August 20, 2006:
• Complete financial analysis and secure funding for reconstruction.
• Begin property acquisition.
• Begin neighborhood reconstruction.
Vision

New Orleans will be a sustainable, environmentally safe, socially equitable community with a vibrant economy.

Its neighborhoods will be planned with its citizens and connect to jobs and the region. Each will preserve and celebrate its heritage of culture, landscape, and architecture.
ACKNOWLEDGEMENTS

The Urban Planning Committee attracted over two hundred citizens to volunteer their time in a public process of meetings and working sessions starting in October 2005. The Committee was chaired by Joseph C. Canizaro and assisted by the firm of Wallace Roberts & Todd, LLC. The volunteers are the Committee. (Figures 63 through 68) Although many had pressing personal and employment issues to address, they committed tremendous amounts of time, energy, and thought to create this Plan for Action. We should all be grateful for their energy, dedication, and intelligence.
Urban Planning Committee

Joseph C. Canizaro    Chairman
Nathan Watson        Coordinator

Historic Preservation Sub-committee

Edgar Chase    Co-Chair
Peter Trapolin  Co-Chair

Sarah Bonnette     Michelle Kimball
Robert Brown       Jim Logan
Naydja Bynum       Meg Lousteau
Robert Cangelosi   Jerrelyn Madere
Nathan Chapman     Joseph McGill
Gene Cizek          Stephen Peychaud
Donald Costello    Jack Stewart
Val Dansereau      Camille Strachan
Jim Derbes         Elrhei Thibodeaux
Mary Fitzpatrick   Wayne Troyer
Jamie Hardie       Gery Vetter

Figure 63
## Housing Sub-committee

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<td>Mtumishi St. Julien</td>
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Figure 65
Infrastructure/Data Sub-committee
Gregory Rigamer Chair
Joe Alvarez
Margaret Beer
James McNamara
Mike Palamone
Justin Priola
Laura Steinberg
Robert Tannen

Land Use Sub-committee
Walter Brooks Co-Chair
Larry Schmidt Co-Chair
Leslie Alley
Jim Amdal
Robert Becker
Robert Biery
William Borah
Jane Brooks
Cathleen Carlisle
Marcie Cohen
Keith Colvin
Domingo Correa
Larry Eustis
Keith B. Goode
Copper Hirsch Alan Lewis
Jon Leyens
Ivan Miestovich
George Miles
Andre Neff
Elliott Perkins
Jennifer Riley
Yolanda Rodriguez
Nathan Shroyer
Poco Sloss
Betsy Stout
Jim Thorne
Louis Volz
# Sustainability Sub-committee

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Figure 67