



LOUISIANA RESILIENCY ASSISTANCE PROGRAM

An Office of Community Development - Disaster Recovery Unit and LSU Coastal Sustainability Studio Initiative

TECHNOLOGY RESOURCES

The power of crowdsourcing apps for planning lies in the ability to freely collect data from citizens, provide an ongoing forum for engagement, and offer more convenient access than in-person town hall meetings to increase public input. A variety of crowd sourcing apps show how information uploaded from citizens can be used by cities to address a wide range of issues, such as code enforcement, community development, and park maintenance.

CROWDSOURCING

ParkCirca [free] [Windows, iPhone, Android]

Facilitates park sharing by allowing users to list and sell unused parking spaces.
<http://www.parkcirca.com/>

OpenTreeMap [free] [iPhone]

Used to create a map inventory of urban street trees through input from individuals, organizations, and governments.
<http://www.azavea.com/products/opentreemap/>

Neighborland [free] [iPhone, iPad, internet]

This app poses questions about a city and users respond with suggestions and vote on others' responses.
<https://neighborland.com/>

SeeClickFix [free] [iPhone, Android, Blackberry]

An interactive app that allows citizens to report and vote on problems, which government officials can then acknowledge and fix.
<http://seeclickfix.com/>

Citizens Connect [free] [iPhone, iPad, Android]

Allows residents to alert the city of neighborhood issues such as potholes, damaged signs, and graffiti; used in Boston, MA.
<http://www.cityofboston.gov/doit/apps/citizensconnect.asp>

IdeaScale [free] [internet]

This tool can be used to facilitate interaction online to aid in public participation for planning efforts.
Examples: Hillsborough County Planning, Fayetteville, AK Planning, Vacant NYC, Louisiana's Bucket Brigade
<http://ideascale.com/>

LocalData [free] [iPhone, Android]

Allows collection and input of city data into forms using a smartphone, which then can be visualized, mapped, and downloaded.
<http://localdata.com>

iG Workforce [free] [iPad]

Allows workers to perform building and land use inspections, environmental and safety compliance, and code enforcement.
<http://www.igworkforce.com/>

mindmixer [free] [internet]

Developed to facilitate civic engagement in community-driven conversations and initiatives.
<http://www.mindmixer.com/>

LA Bucket Brigade [free] [internet]

Citizens can upload reports about pollution, which are then mapped on an easy-to-use interface showing the location of reports.
<http://www.oilspill.labucketbrigade.org/main>

Vanishing Points [free] [internet (indevelopment)]

Used to document culture in Terrebonne Parish by collecting data about significant locations to create a narrative around them
<http://www.houmatoday.com/article/20130117/ARTICLES/130119668/0/sports11?p=3&tc=pg&tc=ar>



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This application type assists citizens, planners, and various government agencies in making better decisions by providing relevant and accurate information about a particular local issue. These applications also allow community decision makers to explore, collect, and understand data.

DECISION CHOICE

INRIX [free] [iPhone, Android, Windows, Blackberry]

Plans travel routes and calculates time of arrival while considering traffic, accidents, and historic traffic patterns on major roads.
<http://www.inrixtraffic.com>

Tiramisu [free] [iPhone, Android]

Provides access to schedules and real-time arrival information for public transportation; used in Pittsburgh, PA.
<http://www.tiramisutransit.com>

Zoner [free] [Android]

Calculates maximum buildable floor area for a given property based on zoning information; used in New York City.
<https://play.google.com/store/apps/details?id=com.masr.zoner>

Ecological Urbanism [free] [iPad]

Compiles relevant contributions to the design field through an interactive experience. Includes global case studies, alternative and radical approaches to sustainability across a range of urban scales, and locates current practices, emerging trends, and opportunities for new initiatives.
<http://ecologicalurbanism.gsd.harvard.edu>

American City & Country [free] [iPhone, iPad, Android, Windows, Blackberry, Palm device]

Analyzes issues facing communities, countries, and states by providing trends, case studies, best practices, and news.
<http://americancityandcountry.com>

Accela Analytics [\$] [software]

Provides access to Accela enterprise data behind government operations, including permit applications and license renewals.
<http://www.accela.com/products/extensions/apps/accela-analytics>

Walk Score [free] [website]

Calculates the walkability of any location and shows maps and photos of neighborhood attractions and amenities.
<http://www.walkscore.com/about.shtml>

Foursquare [free] [iPhone, iPod Touch, iPad, Android, Blackberry]

Helps users find great places to visit based on location and where users' friends have visited.
<http://foursquare.com>

Real Estate by Zillow [free] [iPad, iPhone Blackberry, Android, Windows, Kindle Fire, Android Tablet]

Helps users shop for a new home by offering a robust search engine with detailed property information and resale history, by saving searches, and by providing notifications when new homes with specific criteria are available.
<http://www.zillow.com/mobile>

SF Park [free] [iPhone, Android]

Allows users to find location, pricing, and availability of public parking in San Francisco, CA.
<http://sfpark.org/>

Wide Noise [free] [iPhone, iPad, Android]

Samples decibel noises and displays them on a worldwide interactive map, allowing users to monitor the noise levels everywhere they go and to explore their local soundscape.
<http://cs.everyaware.eu/event/widenoise>



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These applications display historic and real-time information from public organizations to make citizens more informed before, during, and after disasters and emergencies. Some of these apps also allow citizens to upload information in preparation for, in response to, and during recovery from emergencies and disasters.

DISASTERS

Ushahidi [free] [iPhone, Android]

Maps crowdsourced information from sms, email, twitter, and the web; commonly used for disaster response.
<http://www.ushahidi.com/>

Elerts [free] [iPad, iPhone, Android]

Uses crowdsourcing to communicate and share public safety information while on public transit. Also used on campuses.
<http://elerts.com/>

FloodWatch [free] [iPad, iPhone]

Presents recent and historical river heights, precipitation totals, and flood stage data through graphs.
<http://www.floodwatchapp.com/>

FEMA [free] [iPad, iPhone, Android, Blackberry]

Contains disaster preparedness information, including a checklist for emergency kits, disaster recovery, and emergency planning.
<http://www.fema.gov/smartphone-app>

Storm Eye [free] [Android]

Provides detailed information about storms relative to users, including location, direction, intensity, and hail probabilities.
<https://play.google.com/store/apps/details?id=com.cds.stormeye>

Crowdmap [free] [iPad, iPhone, Android]

Maps crisis information, including road closures, flood areas, and sandbag locations during weather events; used in Brisbane, AU.
<https://bnestorm.crowdmap.com/>

Hurricane [free] [iPad, iPhone, Android]

Provides users with local and real-time information on what to do before, during, and after hurricanes through messaging alerts.
<http://www.redcross.org/>

ubAlert-Disaster Alert Network [free] [iPad, iPhone, Android]

Provides information about disasters happening around the world through statistics, photos, and event details.
<http://www.ubalert.com/>

FloodMap Mobile [free] [iPad, iPhone, Android]

Allows users to evaluate flood risk at specific locations by accessing critical flood hazard information.
http://udm4.com/iPhone/FloodMap_Mobile-1029589

Disaster Ready [free] [iPad, iPhone, Android]

Allows users to create a deck of cards your family can use during disaster events to contact each other, find shelter, and reunite.
<http://dr.edgemoor.com/>

GeoMobile for ArcGIS [free] [iPad, iPhone, Android]

Allows users to load their own GIS map layers to use tools including annotation, interactive overview map, geo-coder, routing.
<http://www.geolocationsolutions.com/>

American Red Cross: Shelter View [free] [iPad, iPhone, Android]

Provides shelter details, including managing agency, capacity, current population, locations, and disaster event information.
<https://itunes.com/app/american-red-cross-shelter/id419258261?mt+8>



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Engagement applications promote a two-way flow of information between planners and the public. Most of these applications allow the public to communicate with planners and other citizens. They function much like a community meeting or charrette, but the meeting space is the internet instead of town hall. These applications allow citizens to be engaged in the planning process from anywhere at any time, which can be especially useful when trying to engage sectors of the population that do not normally attend public meetings.

ENGAGING

Shareabouts [free] [internet]

Utilizes a mapping tool to gather crowdsourced public input through a social and engaging process.
<http://shareabouts.org/>

Community Planit [free] [internet]

Provides a game that makes planning playful and gives everyone the power to shape the future of their community.
<http://communityplanit.org/phl2035/> <http://communityplanit.org/salempoint/>

Participatory Chinatown [free] [internet]

Presents a 3D immersive role-playing game designed to be part of the master planning process for Boston's Chinatown.
<http://participatorychinatown.org/>

Fitzgerald & Beautiful Streets [free] [website]

Utilizes Google Street View to gather annotation from users on street view images and perform pair-wise comparison of streets.
<http://openplans.org/work/innovative-tools-for-public-input/>

Commons [free] [iPhone, iPad, iPod Touch]

Enables users to report problems, vote on improvements, and form community action groups in their neighborhoods.
<http://www.commonsthegame.com/>

City Fireflies [free] [located on-site]

Presents an urban digital game that encourages users to explore new ways of interaction in public spaces in Madrid, Spain.
http://cityfireflies.com/index_en.htmlhttp://cityfireflies.com/index_en.html

Hub2 [free] [software]

Provides a forum encouraging community members to express their opinions through software; used in Boston, MA.
<http://engagementgamelab.org/2011/03/hub2/>

OpenPlans [free or \$] [website]

Builds open-source civic technology tools online that incorporate transportation and city planning.
<http://openplans.org/>

Emerson College Engagement Game Lab [free] [iPhone, iPod Touch, iPad]

Provides an arena dedicated to innovating ways people participate in civic life, expanding the study of citizenship in a digital era.
<http://engagementgamelab.org/>



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This application type allows citizens to have information in a quick and easy fashion on a variety of topics. Generally the information is provided by public agencies, but other stakeholders can provide the information as well. These apps help citizens become more informed about their surrounding environment to then make more informed decisions.

INFORMATION SHARING

America's Economy [free] [iPad, iPhone, Android]

Provides real-time updates of key economic indicators that track monthly and quarterly trends.
<http://www.census.gov/mobile/>

Sitegeist [free] [iPad, iPhone, Android]

Presents localized information (demographic, housing, sports, weather, etc.) about your surroundings visually.
<http://sitegeist.sunlightfoundation.com/>

My Place History [free] [iPhone, iPad, internet]

Links public health information with individual experiences in proximity to specific events, hazards, or toxin exposure.
<http://www.esri.com/industries/health/geomedicine>

GNOi [free] [iPhone]

Provides economic facts, statistics, and accolades about jurisdictions throughout the Greater New Orleans Region.
<http://gnoinc.org/>

APA [free] [iPhone, iPad]

Provides access to planning news, planning conference schedules, educational events, job postings, and member directory.
<https://itunes.apple.com/us/app/american-planning-association/id514114782?mt=8>

My Environment [free] [iPhone, iPad]

Displays surrounding natural assets, species lists, maps, and photos, based on the user's location; used in Australia.
<https://itunes.apple.com/au/app/myenvironment/id458267028?mt=8>

VisitBaltimore [free] [iPhone, iPad, Android, Blackberry]

Provides information on events, restaurants, attractions, shopping, and more for Baltimore, MD.
<http://baltimore.org/app/>

MasterPlan [free] [iPhone, iPod Touch, iPad]

Provides information about land use, design guidelines, plans, etc. through an interactive map of Singapore.
<http://www.ura.gov.sg/MP2008/>

SiteControl [free] [internet-mobile device friendly]

Provides property ownership data at your current location or at a given address; used in Detroit, MI.
<http://sitecontrol.us/>

Explore Louisiana Crossroads Visitor Guide [free] [iPhone, iPad, Android]

Provides information about the Louisiana Crossroads Region by locating attractions, lodging, and services to help plan a trip.
<https://itunes.apple.com/us/app/explore-louisiana-crossroads/id413298365?mt=8>

Social Explorer [free limited access, \$] [online research tool]

Provide access to current and historical census data and demographic information.
<http://socialexplorer.com>

PlanningVic [free] [iPhone, iPad, iPod Touch]

Provides access to a planning report specific to that area, by entering a street address in Victoria, AU.
<http://www.dpcd.vic.gov.au/planning/planningschemes/get-information/ppr-app>



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Sensing applications collect data from users via features on their cell phone, smartphone, or tablet, such as the movement sensor, GPS, and camera. App users do not have to actively enter information. Once the app is activated, the phone or mobile device automatically collects the specific data. Sensing apps have been widely used for transportation modeling, planning, and safety purposes. The direction of information gathering and exchange can be one-way, from users to the government/organization, or two-way, from users to government/organization and back to users.

SENSING & PREDICTIVE

Hit the Pothole & Pothole Radar [\$0.99] [iPad, iPhone]

Creates a map using movement sensors and GPS to record location and severity of potholes while cycling and driving.

<http://www.hitthepothole.com/index.html>

CycleTracks [free] [iPhone, Android]

Collects data from users about routes, destinations, and cycling purpose for transportation modeling and planning by city government.

<http://www.sfcta.org/content/category/12/97/483/>

WalkSafe [free] [Android]

Senses oncoming cars to alert users who are talking on the phone or crossing the street that a car is approaching them, by using the camera on the back of the phone.

<https://play.google.com/store/apps/details?id=edu.dartmouth.cs.walksafe&hl=en>

StreetBump [free] [iPhone]

Uses movement sensors and GPS to record and provide governments with information on street conditions; used in Boston.

<http://streetbump.org/>

TransLoc [free] [iPhone, Android, Blackberry, internet, text message]

Keeps transit riders in-the-know, letting them see where the next bus is and when it will arrive through GPS tracking systems.

<http://transloc.com/>

Way to Geaux & Trip Talk [free] [iPhone, Android]

Plays nearby state highway travel advisories issued by the Louisiana Department of Transportation and Development to keep drivers updated along their route, without having to touch buttons or read off their phones.

<http://www.infologisticscorp.com/appdev/waytogeaux.html>

<http://www.paturnpike.com/triptalk/>

OneBusAway [free] [internet, iPhone, Android, text message, windows]

Informs riders of bus and train locations, arrival times, service alerts, nearby routes, and nearby stops in real time.

<http://onebusaway.org/>

MTA Bus Time [free] [internet, iPhone, Android, text message, windows]

Provides real-time information about bus locations, arrival times, and service alerts through OneBusAway in New York City.

<http://bustime.mta.info/>



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Visualization and mapping apps provide users with a way to visually organize and represent data through the form of maps, charts, or 3D imagery. They range from photographic images of a location to data-intensive maps that can be used for multiple levels of analysis. The compilation and analysis of data can also be displayed in charts and graphs. These apps can be used as internal tools or as ways to convey information to the public.

VISUALIZATION & MAPPING

Stats of the Union [free] [iPad]

Visually displays health care statistics at the county level.

<http://visualization.geblogs.com/visualization/statsoftheunion/>

Fulcrum [free] [iPad, iPhone, Android]

Creates, deploys, and manages field data collection with custom forms for mobile devices that can be shared and mapped.

<http://fulcrumapp.com>

Bay Bridge Explorer [free] [iPhone, iPad]

Allows users to experience a 3D fly-through of San Francisco's Bay Bridge Project to visualize changes to users' daily commutes.

<https://itunes.apple.com/us/app/bay-bridge-explorer/id433940779?mt=8>

SACOG Visual Simulation [-] [software]

Displays building infill and community development info through 3D visualization software; used by Sacramento Government.

<http://engagingcities.com/article/civic-engagement-through-3d-visual-simulation>

Why Don't We Own This? [free] [iPhone]

Displays property and tax information, facilitating understanding of ownership, tax status, payment resources, and foreclosure.

<http://whydontweownthis.com/>

Google Maps and Street View [free] [iPhone, iPad, android, internet]

Allows users to explore places around the world through maps and 360 degree street-level imagery.

maps.google.com

Google Forms, Fusion Tables, and Google Maps [free] [internet]

Allows users to collect information, through Google Forms; to visualize data, by importing data from Google Forms into Google Fusion Tables; and to map data by exporting data from Google Fusion Tables into Google Maps.

<http://support.google.com/drive/bin/answer.py?hl=en&answer=87809> (google forms)

<http://www.google.com/drive/start/apps.html> (fusion tables app)

Google Earth and SketchUp [free] [software]

Creates or imports 3D models in SketchUp; exports to Google Earth to view the model in a specific geographic location.

<http://www.google.com/earth/index.html> (Google Earth)

<http://www.sketchup.com/intl/en/product/gsup.html> (SketchUp)

GeoCommons [free] [internet]

Allows a public community to build an open repository of data and maps for easy access to visualized and analyzed data.

<http://geocommons.com/>

ArcGIS app [free] [internet-mobile device friendly]

Allows users to query maps, measure distances, collect data, search for specific information, create and share maps with others.

<http://www.arcgis.com/about/>

GIS Pro & Kit [free] [software, iPhone, iPad]

Allows users to access GIS data on an iPhone or iPad. The Kit version is intended for personal/small projects; the Pro version is intended for larger enterprises that need to share data with a team.

http://gis.garafa.com/GISPro_%26_GIS_Kit/GIS_Pro_%26_GIS_Kit_for_iPhone_%26_iPad.html