Elsayed AMMAR and AbdelHalim BEHAIRY, Egypt

Disaster Recovery



FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2-6 MAY 2016

Recovery

from disaster

Organised by





Platinum Partners







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Recovery

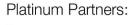
from disaster

The paper in lines

Facets of GIS and remote sensing for disaster recovery













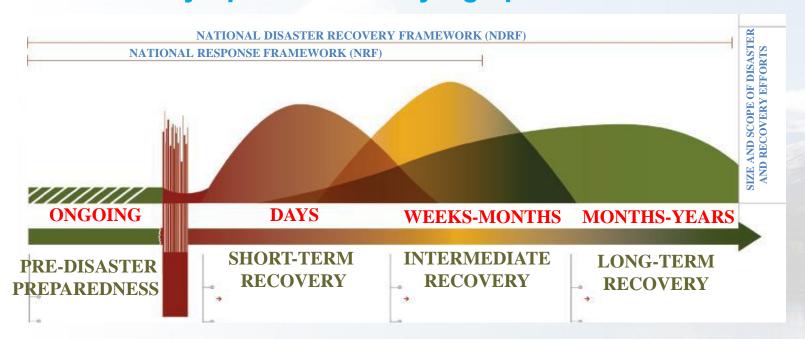


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Recovery

from disaster

Disaster recovery operates at varying space and time scales



These classes are discussed in detail in the paper















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Recovery

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USING GIS TO SUPPORT DISASTER RECOVERY TASKS

Geocollaboration



A housing recovery being held after 2012 Hurricane Sandy. In this image, the two People are using a map as the object of collaboration to review changes in elevation flood maps













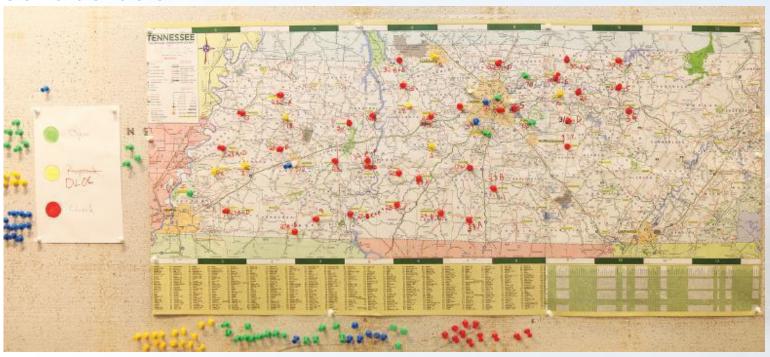


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Geocollaboration



a base map show the locations of disaster recovery centers using colored push pins that signified the open (green), proposed (yellow), or closed (red).















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from disaster

Geocollaboration

coordinating the activities of a wide variety of people involved in harbour management activities and when harbour emergencies occur



A picture of the large map display from the port of Rotterdam in the Netherlands















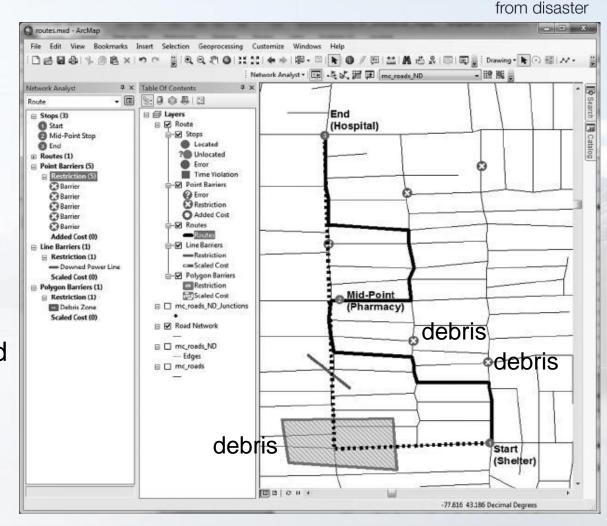
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Recovery

Restoring Critical Infrastructure

The networking analysis tool inside ArcMap

a hypothetical critical infrastructure restoration example of conducting an analysis as to which barriers should be removed to restore optimal and efficient transportation of elderly people















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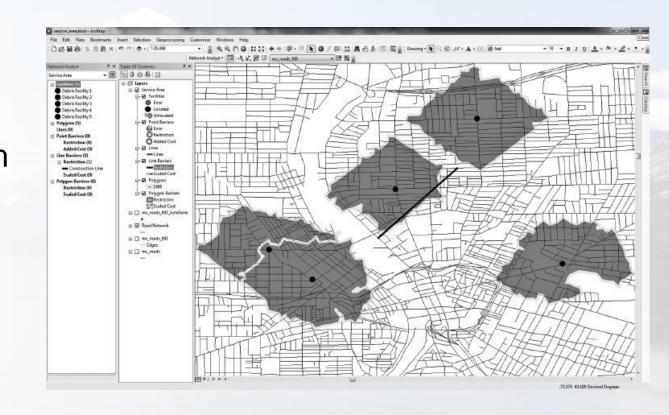
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Debris Clean-up

Debris clean-up service area network algorithm output results — areas 1000 meters from debris collection points













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Recovery Planning



Using large maps to capture public opinion in feedback for housing recovery/restoration planning after Hurricane Sandy.













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Recovery

from disaster



quickly access important data in the field













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Recovery

from disaster

USING REMOTE SENSING TO SUPPORT DISASTER RECOVERY TASKS

- Providing data and imagery
 - measure redevelopment progress
- aerial drones
- enter dangerous structures for search and rescue or monitoring dangerous situations such as nuclear discharges without directly endangering responders.









