After the Storm: Optimizing Building Resilience

Codes | Governance | Community

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IBTS is a 501(c)(3) nonprofit organization established to provide unbiased professional services, while enhancing the communities in which we work.

At IBTS, our mission is to deliver quality services to meet the challenges of governance at all levels while enhancing public safety, economic development, and the general welfare of the community.
What We Do

- State & Federal Programs
- Local Government Solutions
- Education & Training
- Compliance Risk Management
- Technology Services
- Energy Solutions Leadership
- Quality Assurance
- Disaster Preparedness & Recovery
Lessons from the Heart of America

IBTS has worked after the storm in dozens of communities across the country.
Municipal Service Focus

IBTS provides municipal services & disaster recovery assistance in 130+ small communities and is guided by a Board of Directors consisting of:

NLC - National League of Cities
NACo - National Association of Counties
NAGA - National Governors Association
ICMA - International City/County Management Association
IBTS Resilience Approaches

- Implementation & Management
  - Building Codes/Regulation
  - Grants Research, Writing, Administration
  - Community Engagement
  - Hazard Mitigation
  - Floodplain Management

- Assessments & Planning
  - CRAFT (Assessment; Project Prioritization; Action Planning)
  - Resilience Governance
  - Energy Efficiency, Solar QA

Research

- OnHAND
- Policy & Communications
- Floodplain Management
Optimizing for Resilience
Lessons Learned

1. Stronger Building Codes Translate to Significant Risk Mitigation
2. High-Performance Construction in Federal Appropriations
3. Post Disaster Stresses New Construction Permit System
4. Success Requires More than Regulation
Resilient Building Administration

- Specification/Damage Assessment / Estimate / Scope
- Information gathering
- Project development
- Grants administration
- Project oversight
- Focus efforts on future PRE-Covery
Resilient Code Best Practice

1. Management, operational, and service delivery systems
2. Relationships and enforcement with builders and contractors
3. Training building department staff, contractors, builders and homeowners
Resilient Code Outcomes

• Homes built to new code 65% less likely to sustain hurricane damage

• Community Rating System 3% residential, 7% commercial insurance premium reduction

• Points for Insurance Institute for Business & Home Safety’s Rate the States
Resilience Optimization: Community

- Historic context
- Green infrastructure
- Engagement
- Action Planning
Resilience Optimization: Governance

• Planning
• Public works/infrastructure
• Community participation
• Finance
• Human resources
• Security
• Schools
• Technology
Resilience Optimization: Pre-Event Agreements

- Disaster recovery services
- GOVmotus
- Disaster planning
- Plan activation
- Initial disaster response
- Post-disaster services
- Recovery administration
- Resilience planning
OnHand Tips, Tools, Links

www.ibtsonhand.org

IBTS ONHAND: ONLINE HELP & ADVICE FOR NATURAL DISASTERS
EXPERTISE TO HELP YOUR COMMUNITY

CUSTOMIZE YOUR CONTENT

Customized, actionable content at your fingertips.
Find information by peril, stakeholder group, location and more.
Creating Community Resilience Action Plans

- Survey enabled
- Informs community resilience decision-making
- Increase awareness of strengths and vulnerabilities
- Create common vision and strategy
- Provide actionable recommendations

Community Resilience Assessment Framework & Tools
Disaster resilience scorecard for cities

The Scorecard provides a set of assessments that will allow local governments to monitor and review progress and challenges in the implementation of the Sendai Framework for Disaster Risk Reduction: 2015-2030, and assess their disaster resilience. It is structured around UNISDR’s Ten Essentials for Making Cities Resilient. It offers the potential for scoring at two levels:

- **Level 1**: Preliminary level, responding to key Sendai Framework targets and indicators, and with some critical sub-questions. This approach is suggested for use in a 1 to 2 day city multi-stakeholder workshop. In total there are 47 questions indicators, each with a 0 – 3 score;
- **Level 2**: Detailed assessment. This approach is a multi-stakeholder exercise that may take 1 –4 months and can be a basis for a detailed city resilience action plan. The detailed assessment includes 117 indicator criteria, each with a score of 0 – 5.
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