Holistic Approach Needed for Disaster Resiliency, Sustainability & Public Safety

RECOMMENDED ACTIONS

ROBERT WIBLE, PRINCIPAL, ROBERT WIBLE & ASSOCIATES AND
FIATECH STREAMLINING PROJECT MANAGER

SEPTEMBER 28, 2011
HOLISTIC APPROACH NEEDED

- ROBERT WIBLE & ASSOCIATES & ALLIANCE
- FIATECH – Consortium at UT Improve Efficiency
- ENR MARCH 2-3 CONFERENCE ON RESILIENCY
Holistic Approach Needed – Presentation

- When do we have enough wakeup calls? Problems We Face
- Disaster Resiliency = Sustainability & Sustainability = Disaster Resiliency - Examples of Projects that Benefit Both That Should Be Replicated
- Actions we must take together- public & private sectors – EM, Development, Sustainability, Safety Communities
- Q & A and Discussion
Holistic Approach Needed - How Many More Wake-up Calls Do We Need? 2011 Alone

- Christchurch, NZ & Japan’s Triple Disaster – Quake, Tsunami, Nuclear resulting in thousands of dead / 10 years to recover while jobs move to other nation
- In U.S. # of Man-made & Natural Disasters Increasing:
  - Record Tornadoes in South & Midwest
  - Record floods in Mid-Atlantic / New England
- All placing incredible demands on our people, our economy, & aging infrastructure
- Are we ready for The Black Swan event?
Holistic Approach Needed To Address On-Going Problem

Yet We Continue At National & Local Levels To:

- treat sustainability & resiliency as separate unrelated issues forcing these areas to compete for scarcer resources & public attention.

- prepare for, respond to & recover from future catastrophic events in piecemeal fashion, with most of public still believing “it can’t happen here.” (Less than 50% of nation covered by codes that address hazards!)

- Despite Administration declaring “resilience” a national priority, Federal Agencies continue siloed approach ignoring links with Sustainability, Economic Recovery & Public Safety and a concerted, well coordinated effort with private sector & state & local governments

- Congress attention focused on budget fights & 2012
THE NEED FOR A HOLISTIC APPROACH

- Sustainability = Disaster Resiliency
- Resiliency = Sustainability
Examples of Holistic Approaches: Regulatory Streamlining

- Effective & Efficient Building Codes Administration & Enforcement - Time Savings from use of IT
Regulatory Streamlining – Benefits Sustainability, Economic Development, Safety

- ICC Guideline for Replicable Buildings - single plan review for residential & commercial structures - reducing time spent in plan review in California from 24 to 8 ½ weeks in California (FIATECH & ICC)

- Same level of safety! Buildings on tax rolls & hiring 2 months sooner! Buildings up after a Disaster 2-3 months sooner!
Examples  Resiliency & Sustainability

State of California – 2008 project showed ability to make mobile field inspection devices interoperable to immediately share damage assessment data with State EOC & Build Statewide/Regional networks

Use of mobile inspection tech saves 30% time!

INTERNET or VPN
JURI DATA
STAGED and INSPECTION DATA
IVR and MOBILE
deVICES with PROPA​GATED DATA
FEMA FORMS
PAPER-BASED FORMS
Examples  Resiliency & Sustainability

- Aiding Louisiana in adopting a uniform statewide building code with disaster mitigation provisions & developing Roadmap for Application of IT to strengthen / streamline codes enforcement & speed construction

- Electronic Plan Review & Automated Code Checking Tools – Reduce costs & time by 80% - Green Benefits & enable cities to build secure databases of electronic as-builts to provide to first responders – Portland, ME
RECOMMENDATIONS FROM THESE EFFORTS

- Bring together public & private sector leaders from EM, Economic Development & Sustainability Community to research & establish list of policy actions & best practices that promote sustainability & disaster resiliency - Share across nation & use financial, insurance & tax incentives & legislation to put in place!

- Expand # of jurisdictions streamlined processes & using IT – updated codes, ePlan Review, interoperable mobile inspections & regional damage assessment networks
Recommendaions from March 2-3 ENR Conference

Recommendations to Congress, the Administration and the Private Sector to Mitigate Impacts of Disasters by Planning and Building for Resiliency

Insights Drawn from the ENR Mitigating Disaster through Design and Construction Conference

March 2-3, 2011
Washington, DC
RECOMMENDATIONS – Private Sector

- Banking, accounting & insurance – provide financial incentives for retrofitting homes & businesses for both sustainability & disaster resiliency
- Establish a venue for national coordination of changes in codes to better coordinate them to reduce adverse impact on sustainability and disaster resiliency – Lack of predictability keeping owners & developers from putting needed improvements in place.
FORCES DRIVING OWNERS & DEVELOPERS – IMPACTING COSTS, ECONOMIC RECOVERY & DISASTER RESILIENCY

*Things that can be changed through better coordination/holistic approach to regulations, codes & standards*
RECOMMENDATIONS TO CONGRESS & ADMINISTRATION

- Congress fund a national Infrastructure Renewal Readiness effort to ensure our codes/standards/permitting systems are able to guide Nation in most consistent & efficient way possible over lifetime of these national assets.
RECOMMENDATIONS TO CONGRESS & ADMINISTRATION

- Study possibility of funding mitigation thru savings incurred from reduced cost of disaster relief
- Review, identify and reduce regulatory barriers to rapid disaster response and recovery - What will be identified also will aid in more efficient system during non-disaster times!
ACTIONS WE CAN TAKE

Work Together To:

1. Gain Congressional hearings on the Report & its Recommendations to Public & Private Sector
2. Establish national venue for identifying & recommending actions that link sustainability & resiliency
3. Work together to better inform elected officials, public & business community about effectiveness & cost efficiency of investments in mitigation & sustainability
4. End piecemeal & patchwork approaches to resiliency
QUESTIONS & DISCUSSION

- Comments on linking Sustainability & Resiliency
- Comments on recommendations & proposed actions
- What other actions should be taken?
- Timeframes & Stakeholders – who all must be involved? How do we get involved?

“It will be the companies, communities, & countries that are most resilient who will have the competitive advantage over those that are not!” Stephen Flynn - President Center for National Policy 3/3/11
THANK YOU - CONTACT

- Robert Wible & Associates  rcwible@comast.net  &
  www.natlpartnerstreamline.org

- FIATECH at  www.FIATECH.org