

Rapid Disaster Recovery Housing Program



What kind of flooding problems do you have? [¿Qué tipo de problemas de inundación tiene?]



How Often?
[Cuán frecuente?]

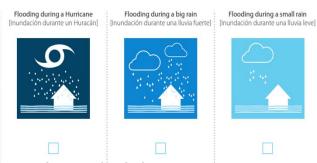
Once every month
[Una vez cada mes]
Once every 2-6 months
[Una vez cada 2-6 meses]
Once every 6-12 months
[Una vez cada 6-12 meses]
Once every year
[Una vez cada año]
Once every 2 years
[Una vez cada 2 años]

Other

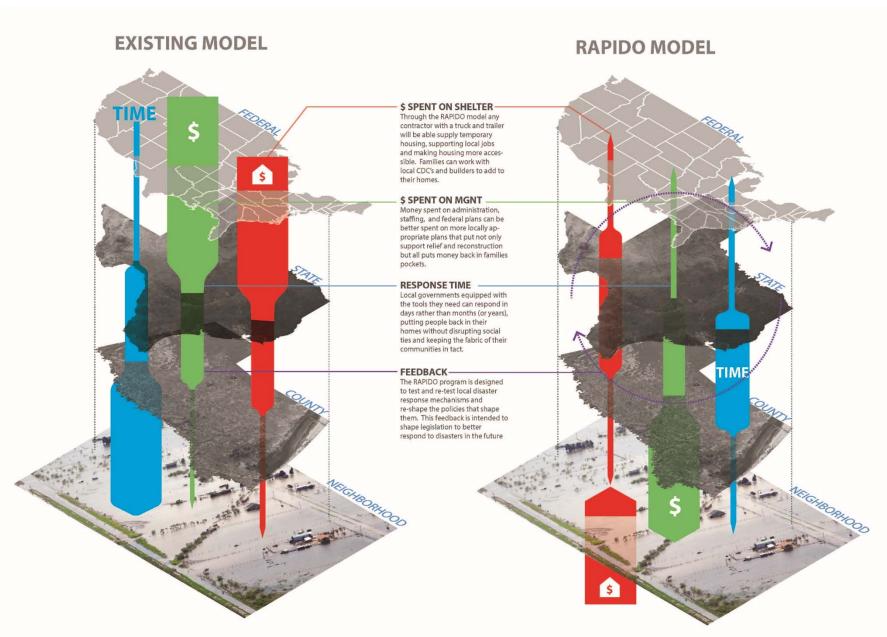




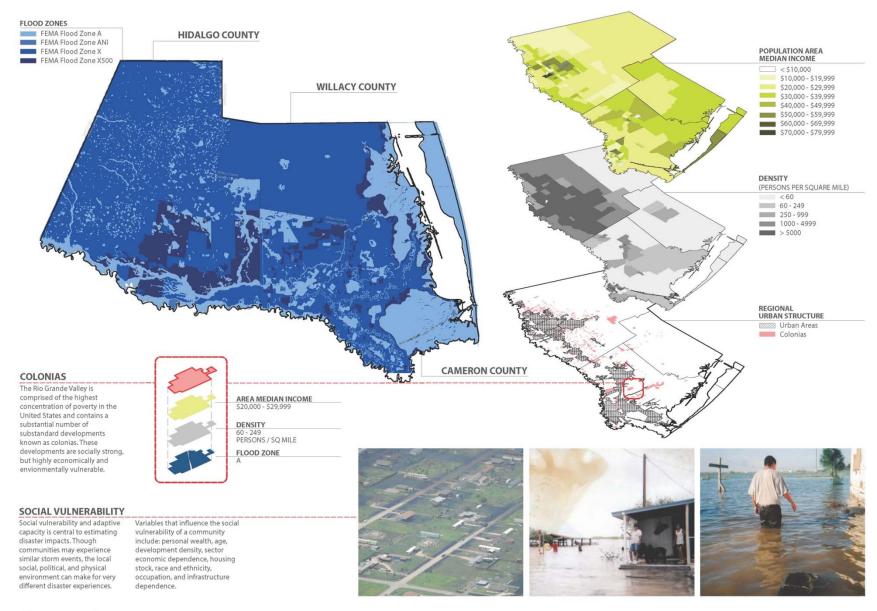




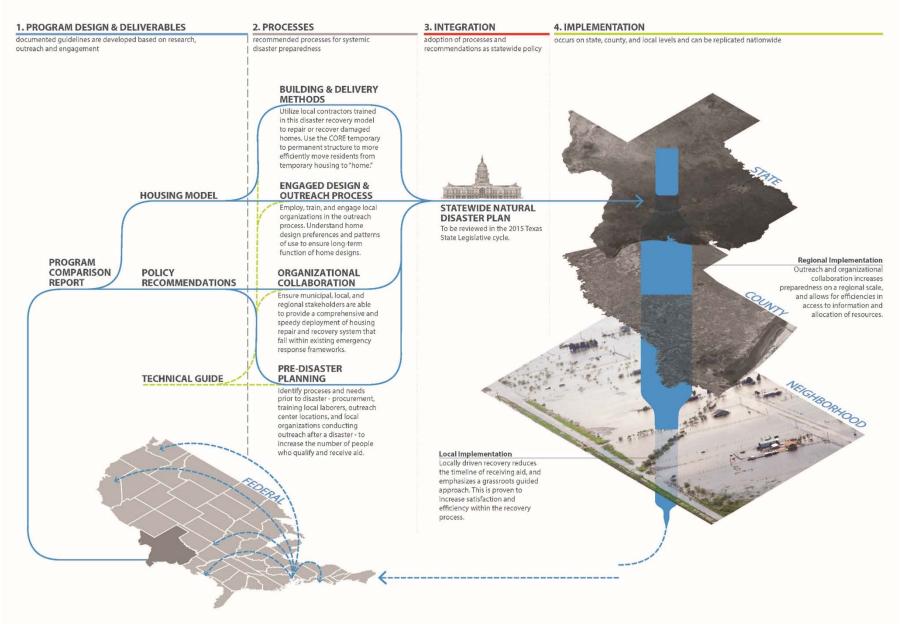
Photos from bcWORKSHOP/Texas Low-Income Housing



the idea



the place



policy design and implementation

Housing Recovery- State

Four typical phases of housing recovery, identified by researcher EL. Quarantelli, are:

- emergency sheltering,
- temporary sheltering,
- temporary housing, and
- permanent housing (1995; see Figure 3).

States have been referred to as the 'linchpin' between federal policies and funding and local need during disasters (Sandler and Smith 2013; Smith and Flatt 2011).

- First, states can influence resources to address local needs. States take the role
 of distributing federal funds and their own share of funds to local governments.
- Second, states affect the timing of recovery through their own pre-event capacity, their ability to address and assist socially vulnerable populations, and the equitable access and distribution of funding (Smith 2011).
- Third, states can influence resources through the vertical and horizontal linkages they connect with.

Housing Recovery-Local

Local governments take the lead role in managing disaster recovery.

- From an emergency response perspective, disasters occur at the level.
- At the local level, residents interact with their government more frequently. Local governments also play a key role in executing and implementing plans.
- The majority of mitigation measures and state and federal requirements are adopted, codified and enforced at the local level.
- local government to adopt and enforce state and federal standards (i.e. NFIP, IBC, IRC).
- Unfortunately, the capacity of local governments varies widely. No established standards or mandates for local governments to play a role in recovery. According to standard emergency management actions by phases, recovery for local governments entails:
 - Identifying unsafe structures and the recommendation of structures for condemnation,
 - monitoring restoration activities,
 - reviewing building codes and land use regulations for possible improvements, and
 - communicating effectively with disaster victims

Housing Recovery Gaps

Damage assessment

- Map areas of likely damage
- Connect to local organizations to train volunteers for damage assessment

Outreach

- Identify and work with community based organizations
- Develop a long-term outreach process
- Develop inter-organizational partnerships and collaborations

Case management

- Use local community based organizations
- Use inter-organizational partnerships
- Streamline application process

Design Decisions

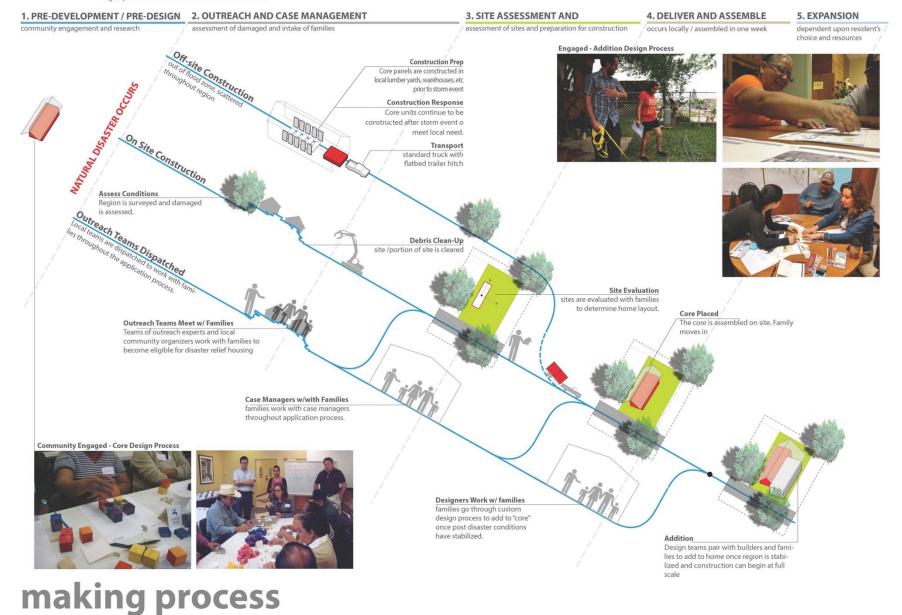
- Grow Home Approach
- Local aesthetics

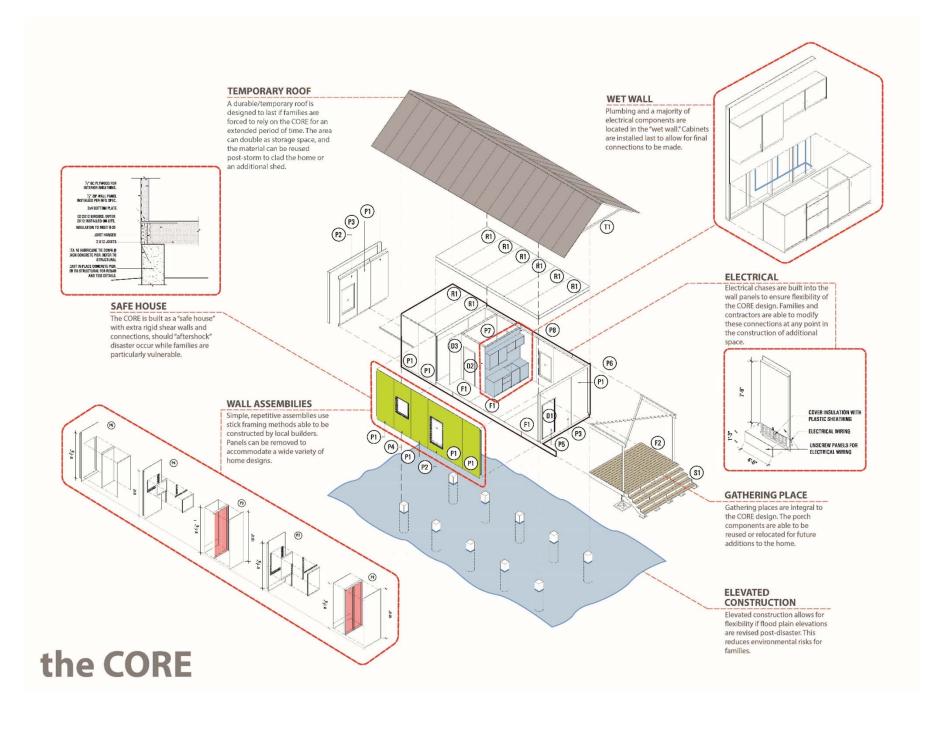
Construction

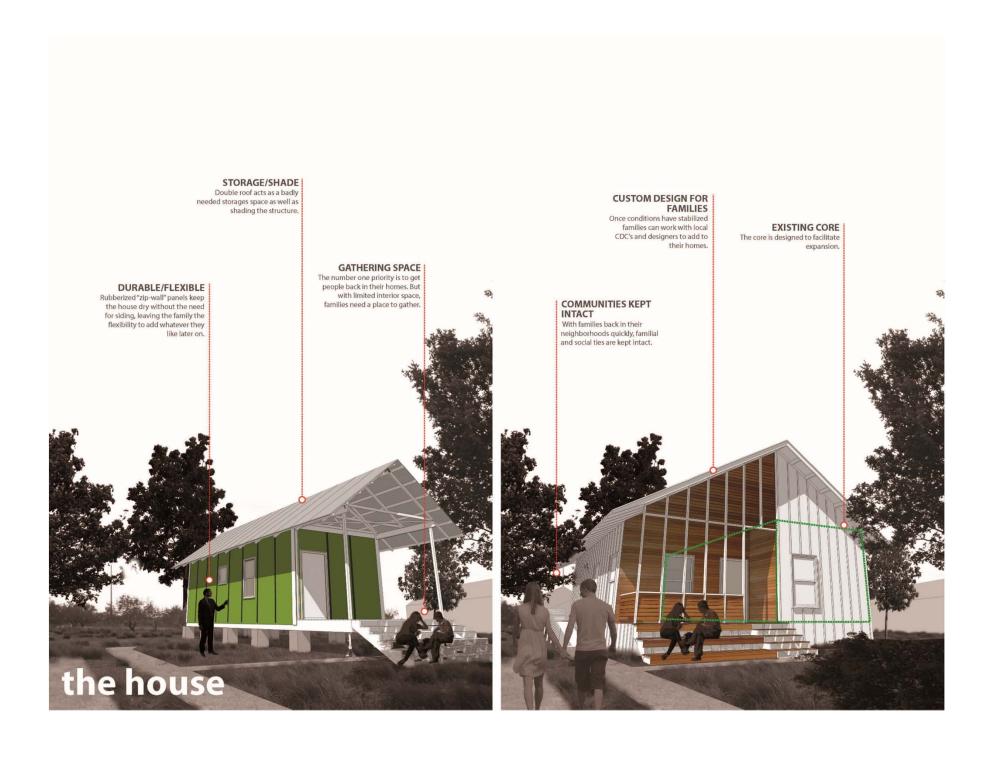
- Local contractors
- Pre-procurement
- Resilient and sustainable homes

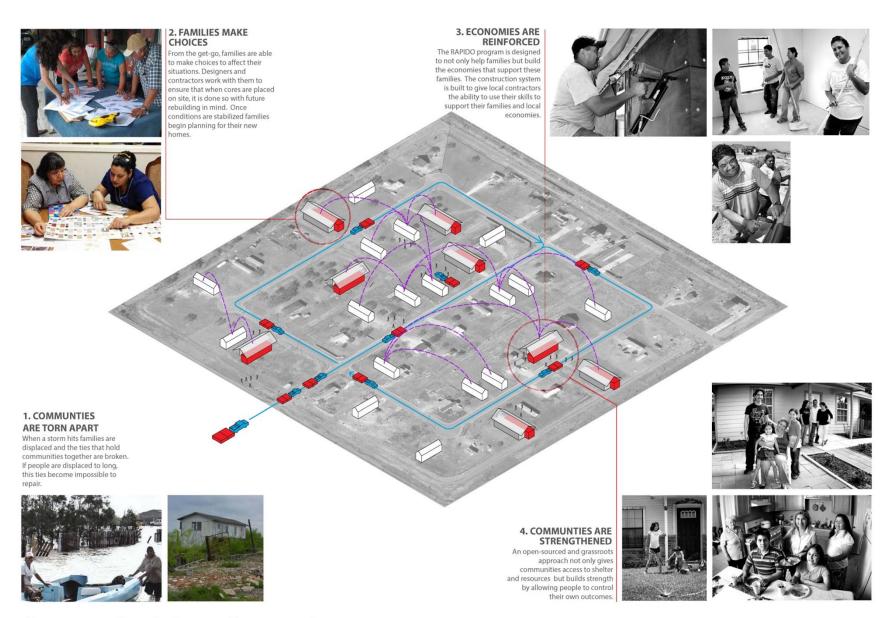
OFF-SITE CONSTRUCTION

begins prior to construction and continues after storm









the neighborhood



GENERAL PRINCIPLES

- Interject the term "social vulnerability" into existing and new disaster-related policies. Use it to prioritize support and funding.
- Enhance local capacity to anticipate, prepare for, respond to, and recover from disasters through identification of responsible parties and ongoing training and education.
- Improve and institutionalize regular and ongoing data gathering and reporting on risk and vulnerability (social and physical).
- "Pre-covery" planning institutionalizes temp-to-perm solutions. Enhances resilience by mitigating population displacement, maintaining social networks, speeding recovery and rebuilding, and providing cost-effective solutions.
- Make mitigation and pre-covery planning part of regular and ongoing comprehensive planning efforts.

MITIGATION AND PRE-DISASTER PLANNING

- Encourage (i.e., incentivize through a grant program) pre-disaster planning in highrisk regions (COGs). Integrate hazard mitigation into comprehensive planning efforts. Emphasize recovery for socially vulnerable populations to address preexisting inequities. Extend existing Local Emergency Management Plans to include plans for long-term housing reconstruction policies and guidelines.
- Develop advisory board of engineers, design experts, and insurance risk assessors to evaluate the cost-benefit tradeoffs between insurance provision and construction of hardened structures.
- Empower counties with more regulatory authority over land use, zoning, and building codes to allow them to enact stronger and locally-appropriate hazard mitigation techniques
- Fund and coordinate the collection and availability of geospatial data capturing risk and vulnerability (e.g., Community Planning Atlas) to facilitate resilience and recovery planning. Data must include socio-demographic data to assess social vulnerability, as well as physical vulnerability including critical and environmental infrastructure that can facilitate recovery and reduce vulnerability.

MITIGATION AND PRE-DISASTER PLANNING

- Prioritize through funding mechanisms infrastructure investments that will reduce vulnerability and increase resilience, emphasizing/prioritizing investments that serve socially vulnerable populations.
- Create incentives and/or requirements that high-capacity COGs in high-risk regions work with local architects to prepermit a set of housing designs and pre-bid winning designs to contractors under the Emergency Housing Procedures Manual.
- Create training and continuing education programs at the state level to identify, pre-train, and pre-qualify professionals (inspectors, assessors, case managers, navigators, grants managers, designers, builders, etc.) for disaster recovery teams.

RECOVERY

- Fund communities with higher levels of vulnerability. In application for funds, community (or unit requesting funding) must demonstrate partnerships and capacity that will lead to the allocation of funds based on need. Formula should be weighted to emphasize socially vulnerable households.
- Create appointment guidelines to establish administrative infrastructure for recovery, including a recovery committee, grant manager/disaster manager, case management team (including navigators), design team.
- Create recovery program for locally-owned businesses that serve and employ local residents. The expedient return of these businesses will have spillover effects in helping local residents return and rebuild homes.
- Streamline case management to be based on needs assessment triage to determine clients' severity of needs and capacity to recover.
- Create a centralized (state-level) list of case managers to access all community resources available (e.g., One-stop-shop).