



Applying HAZUS Internationally

HAZUS Users Conference, August 6, 2008

Using HAZUS Overseas

- **HAZUS set up only for use in the U.S.**

- **Overseas use requires:**
 - **Software reprogramming based on the HAZUS platforms**
 - **Characterizing hazards**
 - **Modifying databases**
 - **Adding to or modifying functions and parameters**
 - **Graphic user interface translation**

HAZUS Software – MR3

- **ArcGIS 9.2 SP5**
- **Windows XP SP2**
- **Visual Studio 2005**
- **C++ and VB 6.0**

HAZUS Software – MR4

- **ArcGIS 9.3**
- **Windows XP SP3**
- **Visual Studio 2008**
- **C++ and VB 6.0**
- **Release in late Winter 2009**

Hazard Characterization

- **Earthquake probability maps, fault locations and magnitudes**
- **Hurricane storms based on regional tracks, wind speeds, pressures, translation speeds and radii**
- **Topographic and hydrologic data for flood modeling**

Boundary Data

- **Country**
- **Provinces, prefectures, states**
- **Precincts, counties, cities**
- **Census tract equivalents**
- **Census block equivalents**

Inventory Data

- **Building inventory data**
- **Essential facility data**
- **Occupancy types**
- **Building types**
- **Building valuation data**

Other Data

- **Demographic data – population, age, sex, race, income**
- **Transportation data**
- **Utility data**
- **Vehicles and crops (Flood)**

Damage Functions

- **Country specific building stock**
- **Bridges**
- **Pipelines**

Parameters

- **Parameters for shelter**
- **Country specific building types for casualties modeling**
- **Country specific building materials and trees for debris modeling**
- **Repair times, income loss, content damage for economic modeling**

Conclusion

- **HAZUS software should be reconfigured to develop a universal model**
- **Each county would be able to add its data through a data portal**
- **Each country would be able to readily add country specific damage functions**



Questions?