



Bridging the gap between
Knowledge and Action

Non-profit
Virtual corporation
Incorporated in California in 2006
Consultants worldwide
Flagship Project: DREAMS
Disaster Reduction Education Learning
Management System

Policy Consultations, Research, Guidelines:

UN International Strategy for Disaster Reduction, InterAgency Network for Education in Emergencies, Organization for Economic Cooperation and Development, World Bank, IFC, IFRC

INEE

Research and Social Networks:

Coalition for Global School Safety & Disaster Prevention Education

EDU4DRR Teacher's Network

The Great California ShakeOut

Program Evaluations for Disaster Risk

Reduction:

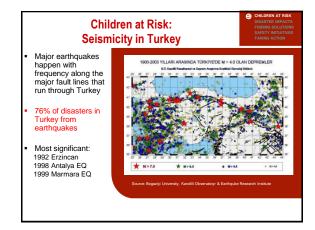
UNICEF, DipECHO, World Visions, SEEDS of India

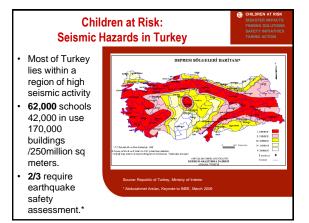
Contents

Risk RED
Risks in Turkey
Children at Risk
Safety Initiatives in Turkey
Findings for DRR Education















#### Turkey: Since the 1999 Kocaeli Earthquake

- **New School Construction Oversight** included changes in design, construction, procurement mechanism and processes.
- Retrofit of Existing Schools: US\$320 million was budgeted for comprehensive retrofit and replacement program of more than 1,800 buildings (80% of building stock predated the 1998 Building Code)
- Non-Structural Mitigation: Production and distribution of 80,000 steel desks to more than 500 schools. Education in non-structural risk reduction initiated.



## Turkey:

### **Disaster Preparedness Education**

#### 1999-2000: School Outreach

- Ministry of Education and Bogaziçi University, Kandilli Observatory and Earthquake Research Institute sign protocol to provide disaster education in public schools.
- KOERI Director makes year-long outreach tour to schools, nationwide.
- Children's books on disaster awareness
- Cartoon Series: "Grandpa Quake and Nature" developed.



B.U. K.O.E.R.I. Initiatives with T.C. Ministry of Education and USAID/ OFDA

2000 - 2005:

**Istanbul Community Impact Project** (2000-2003) Marmara Region: 4 Provinces - Istanbul and Bursa,

Sakarya, Çanakkale

**Basic Disaster Awareness Projects** 

**Basic Disaster Awareness in Turkish** Schools (2003-2005 ) 1st and 2nd degree Earthquake Hazard Zones: 50 Provinces



### 2000 - 2003**Istanbul Community Impact Project**

- Family Disaster Plan and Earthquake Hazard Hunt as core consensual messages.
- Disaster Preparedness Education in program with USAID/OFDA support provides ABCD Basic Disaster Awareness Curriculum and Instructor Training.
- Program reaches 3,600 school-based instructors, 121,000 school personnel, 1.8 million students and 700,000 parents in 4 provinces.
- ABCD Instructor Support Materials developed.
- Non-Structural Mitigation education piloted.
- Earthquake Preparedness Day held on Nov. 12th anniversary.
- S.O.S. Fairs held
- · Models and hands-on activities developed.

2004-2005:

**Basic Disaster Awareness in Turkish Schools** 

- 130 Instructor Trainers trained 26,000 school-based BDA instructors in 50 provinces.
- Basic Disaster Awareness education
  - 245,000 teachers
  - 33,000 school personnel
  - 3.6 million students
  - 1 million parents in 50 provinces.
- Non-Structural Mitigation and Structural Awareness for Seismic Safety curricula piloted in Istanbul trade high schools.



Basic Disaster Awareness in Turkish Schools Goals and Objectives

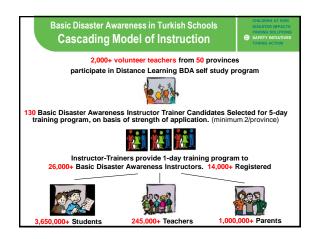
To create a sustainable infrastructure for the Ministry of Education in Turkey, to implement Basic Disaster Awareness Training at schools throughout Turkey.



- 1. CURRICULUM MATERIALS DEVELOPMENT
- 2. MASTER INSTRUCTOR TRAINING
- 3. CASCADING IMPLEMENTATION
- 4. INFORMATION TECHNOLOGY INFRASTRUCTURE

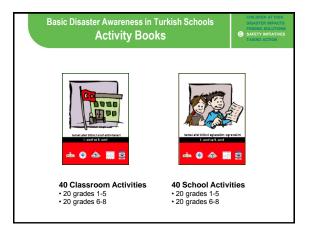


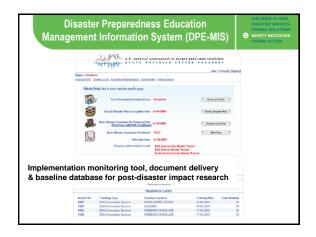
5. STRUCTURAL AWARENESS AND NON-STRUCTURAL MITIGATION for TRADE HIGH SCHOOLS (pilots in İstanbul)



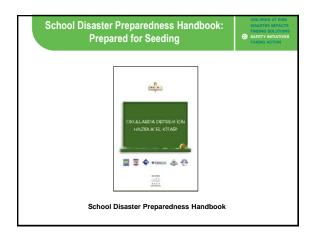


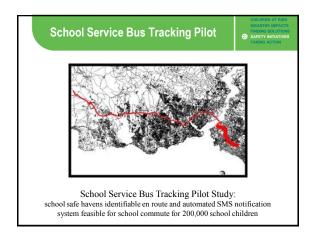








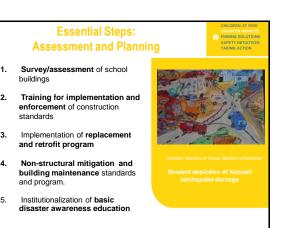












#### **Essential Steps: Structural Risk Reduction**

Appropriate: site selection, design, and construction and non-structural risk

- 1. Enforcement or compliance with existing regulations.
- 2. Adequate construction materials
- 3. Construction training
- 4. Good construction quality
- 5. Resistance to corruption
- 6. Structural awareness and building maintenance education

### **Essential Steps: Non-structural Risk Reduction**

- Appropriate guidelines and regulations for fastening non-structural building elements and building contents against wind and shaking.
- Engineered solutions for safety
- 3. User-implemented solutions
- 4. Fire safety
- Clear exit pathways 5.



## **Essential Steps:**

#### **Community Response Capacity Development**



- Mutual aid systems
- Skills for local first response
  - conducting regular drills organization of functional response (eg. incident command response (eg. incident commis systems)

    disaster first aid and disaster medical response

    communications

    light search and rescue

    - fire suppression shelter and security
    - public health nutrition
- Organization of local resources for first response water, food,
  - medical supplies

  - power generation communications equipment

### **Essential Steps: Response Capacity Development in Schools**



- Administrator and staff orientation and training in first response skills.
- Conduct regular drills
- Keep emergency medical, water, food and shelter supplies in container on-site.
- Include emergency contact information for secure release.
- Maintain "go-bag" in each classroom.



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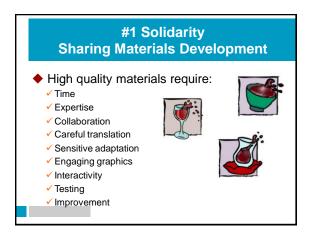
## Scaling-Up

#1 Solidarity SHARING MATERIALS DEVELOPMENT

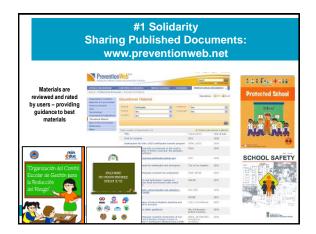
#2 Mass Dissemination

#3 Test and Improve Materials & System for BEHAVIOR-CHANGE IMPACT

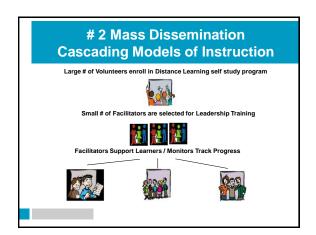
Annual Worldwide Community Disaster Simulation Drills for CREATE SPONTANEUS WISE REACTION and IMPROVE THE SYSTEM





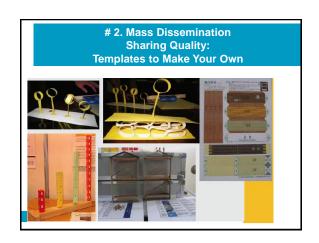




















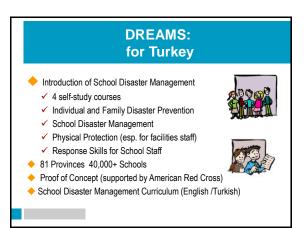












# DREAMS: Customized Dissemination Portal

- Customized e-learning dissemination site based on Moodle, including:
  - ✓ Courses
  - ✓ Action-planning area to cooperate on real school disaster management milestones.
  - ✓ Monitoring progress
  - ✓ Recognizing achievements
  - ✓ Easily adapted

# DREAMS: Customized Dissemination Portal

- ◆ E-learning Management System
  - ✓ Moodle
  - √ Virtual Classroom
  - ✓ Learning Objects Repository
  - ✓Skype
- Multilingual
- ◆Shared Learning Object Repository
- ◆Shared Collaborative Authoring Tools

# #1. Essential Values for Disaster Reduction in Schools

- ♦ We share the commitment to protect our children.
- We must be pledged to fearless advocacy and leadership at all levels:
  - ✓ national government
  - ✓ provincial government
  - ✓ local government
  - ✓ school
  - ✓ Community civic organizations
  - ✓ academic and scientific institutions
- We are committed to sharing knowledge, experience and expertise to bridge the gap between knowledge and action.

