

Workshop: Disability and Disaster Preparedness - Toolkit Release Brussels, Belgium 21 May 2015

DRR preparedness: Implementing an education and training strategy in case of earthquakes

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RISK

RISK =

(HAZARD PROBABILITY)*(<u>VULNERABILITY</u>)*(VALUE) VULNERABILITY (V) =

f (environment performance e.g. structures; people's behaviour (performance))

----> Reduce vulnerability

Low V = High structural performance (parameter 1) High people's behaviour (parameter 2)

MINIMISE RISK

Example: Minimise the risk as a ship is sailing

Parameter 1: Structural performance

- the ship will be strong enough not sink or be affected by storms

Parameter 2: People's behaviour

- the best reaction of the crew and passengers

EDUCATION and TRAINING

New (?) Concept: Design for all

Consider - Not only the general population

- All possible target groups

Account for the most vulnerable part of the population or the vulnerability characteristics of the target groups

EDUCATION and TRAINING

As an example from engineering thinking:

If in a structure there exists a vulnerable element such as a column or a beam, then the vulnerability will affect the integrity of the whole structure

Similarly, if in a community there exists a vulnerable group such as people with disabilities, children, the aged, migrants, etc., then vulnerability will affect the integrity of the whole community

EDUCATION and TRAINING

DESIGN FOR ALL: New Concept?

Part of a whole culture Part of a holistic education Part of a philosophy In the Greek Language, there are two different words instead of one for "education": Εκπαίδευση (Ekpethefsi) and Παιδεία (Petheia)

EDUCATION and TRAINING

Εκπαίδευση (Ekpethefsi):

- mainly knowledge offered at schools

Παιδεία (Petheia):

- also includes training
- general way of thinking
- philosophical global education
- build culture
- build behaviour
- build character

More intense for the very young Παιδεία (Petheia) = global education Παιδi (Pethei) = child And also Παίζω (Pezo) = to play $M \dot{o} \rho \phi \omega \sigma \eta$ (Morphosi) = to give shape, form (morphology) Design for all \longrightarrow Thinking as a community Not "me and mine" but "us and ours"

FATALITIES IN PEOPLE WITH DISABILITIES EARTHQUAKES

- 1982 COALINGA CALIFORNIA EARTHQUAKE, 38% OF INJURED PEOPLE CONTACTED AFTER THE EARTHQUAKE WERE DISABLED (ARONI AND DURKIN, 1985)
- 2011 GREAT EAST JAPAN EARTHQUAKE. MORTALITY RATE FOR REGISTERED PEOPLE WITH DISABILITIES DOUBLE THAT OF THE GENERAL POPULATION (KIYOSHI HARADA, JAPAN **DISABILITY FORUM, 2013)**
- THOSE WITH VISUAL OR MOBILITY LIMITATIONS EXPERIENCE THE MOST DIFFICULTIES (TIERNEY ET AL., 1988)

Parameter 1: Structural Performance

Design, Construct, Redesign, Retrofit,
Reconstruct in order to minimiseGOAL(attacking) effects of actions from
possible disaster sources (earthquakes,
floods, fires, windstorms, volcanoes,)

Parameter 1: Structural Performance

- In General → Provide ENOUGH RESISTANCE to withstand any possible disaster actions to an acceptable minimum level of damage
- In Particular → Depending on the disaster source e.g. for earthquakes MINIMISE DISPLACEMENTS

TOOLS:

EDUCATION and TRAINING

Parameter 1: Structural Performance <u>EDUCATION</u> and TRAINING

Obviously it is addressed to:

- Engineers
- Contractors
- Workers

- -> University studies
- -> Recommendations
- -> Technical Divisions
- -> Codes
- -> Seminars
- -> Research

Parameter 2: People's Behaviour

AFTER A DESTRUCTIVE EVENT:

- A WHOLE REGION IS AFFECTED
- EMERGENCY SERVICES WILL BE SEVERELY STRETCHED
- THERE WILL BE MANY OTHER HIGHER PRIORITY LIFE THREATENING SITUATIONS
- IT MAY BE SEVERAL DAYS BEFORE A NORMAL LEVEL OF EMERGENCY SERVICES CAN BE PROVIDED

Parameter 2: People's Behaviour

AFTER A DESTRUCTIVE ENENT:

THE WHOLE POPULATION

- CANNOT EXPECT ANY IMMEDIATE SPECIAL ASSISTANCE WITH EVACUATION
- THE WHOLE POPULATION MUST BE RESPONSIBLE FOR THEIR OWN EMERGENCY PLANNING AND EVACUATION

THEREFORE, MEASURES PERFORMED TO ASSIST PEOPLE WITH DISABILITIES MUST BE BASED ON EDUCATING THOSE AFFECTED TO BE SELF-RELIANT

Parameter 2: People's Behaviour

GOAL Educate and train people to minimise losses (mainly fatalities and injuries) from possible disaster sources (earthquakes, floods, fires, windstorms, volcanoes,)

Parameter 2: People Behaviour

- In General → Achieve the best effective reaction from people in any disaster
- <u>In Particular</u> → Specific measures depending on:
 - the disaster source
 - the different capabilities of the population
- TOOLS: EDUCATION and TRAINING

Parameter 2: People's Behaviour

 $\frac{General Framework}{Παιδεία}$ (Petheia): → Equality in all aspects of life Start by focusing on the very young

"Persons with disabilities have the right to live independently and participate fully in all aspects of life on an equal basis with others in information, communications and other services, including electronic services and emergency services."

(Source: Article 9.1, UN convention on the rights of persons with disabilities)

Specific Actions ACTION 1: PREPARE A STRATEGY ACTION 2: STRATEGY IMPLEMENTATION FEEDBACK REVISE

Parameter 2: People's Behaviour

ACTION 1: PREPARE A STRATEGY

Upper level task

Multidisciplinary Committee involving:

- Experts in disabilities
- Experts in earthquakes
- People with disabilities (at least one from every target group)
- Decision makers (politics)

Parameter 2: People's Behaviour

GOAL: PROPOSE AND PREPARE A WHOLE STRATEGIC PLAN

Under the obligatory rule: Design for all

- In general covering any possible disaster without distinguish which but with specific sessions for different disasters
- Specific parts (in any of the above sessions) for
 - People with disabilities
 - Other groups with special needs

CONSIDER

- Sources
- National Organizational Structure

Different possible disaster scenarios

Parameter 2: People's Behaviour

WORK PLAN (indicative)

- DATA Set up multiple WGs with specific objectives
 Collect, process, evaluate
- Statistics of different target groups (numbers, registered or not, where they live, how they live (independent, assisted), etc.,)
- Pilot applications (results) How react
- Research (results)
- Literature review
- Critical review
- findings

Parameter 2: People's Behaviour ACTION 2: STRATEGY IMPLEMENTATION

SET UP MULTIDISCIPLINARY WGs

- Prepare Educational Material
- Educate
- Train

Textbooks, Booklets, Leaflets

- Videos
- Posters
- TV spots
- e-learning
- Websites
- Seminars

Parameter 2: People's Behaviour

PREPARING EDUCATIONAL MATERIAL AND TRAINING

GUIDANCE PREPARED FOR THE GENERAL POPULATION IS NOT SUITABLE FOR
 PEOPLE WITH DISABILITIES

NECESSARY TO REWRITE CERTAIN MEASURES DEPENDING ON TARGETED DISABILITY

 MATERIAL IDENTIFIES SPECIFIC MEASURES AND BEHAVIOUR DEPENDING ON THE SPECIFIC CAPABILITIES OF THE TARGET GROUP

TWO MAIN CATEGORIES:

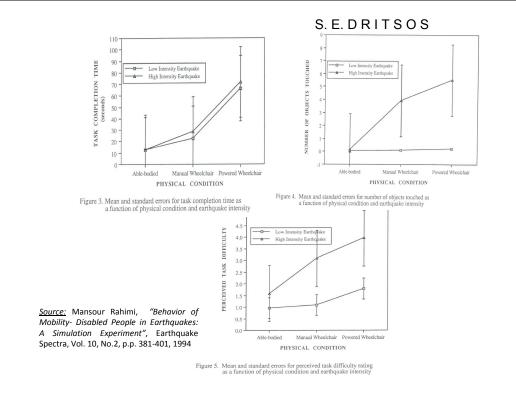
- 1. NO PROBLEM WITH UNDERSTANDING
- MOBILITY IMPAIRMENT
- VISUAL IMPAIRMENT/BLINDNESS
- HEARING IMPAIRMENT/DEAFNESS
- 2. PROBLEM WITH UNDERSTANDING
- COGNITIVE IMPAIRMENT SPEECH COMMUNICATION IMPAIRMENT
- BEFORE START DRAFTING

COLLECT GENERAL AND SPECIFIC DATA

PREPARING EDUCATIONAL MATERIAL AND TRAINING

PROCEDURE

- PREPARE FIRST DRAFT
- MAKE PILOT APPLICATION on the targeted disability group
- OBTAIN FEEDBACK concerning difficulties in implementation and better operation, EVALUATE and ASSESS
- REDRAFT ACCORDINGLY
- DISSEMINATE, EDUCATE, TRAIN
- OBTAIN FEEDBACK (permanent on-line form for comments)
- REGULAR REVIEW AND POSSIBLE REVISION



Parameter 1: Structural Performance - Education

EARTHQUAKES EDUCATE Engineers for Design for All

- GLOBAL APPROACH
- INVOLVES THE CONCEPTS OF ACCESSIBILITY, UNIVERSAL DESIGN AND INCLUSIVE DESIGN
- INCLUDES EVERYBODY REGARDLESS OF RESTRICTIONS
- NOT ONLY GENERAL POPULATION
 - INCLUDES PEOPLE WITH DISABILITIES
 - INCLUDES THE AGED AND CHILDREN
 - CROSSES LANGUAGE BARRIERS
 - MIGRANTS
 - REFUGEES
 - ASYLUM SEEKERS
- AT THE PRESENT MOMENT, MOST DESIGNERS, ENGINEERS AND ARCHITECTS IGNORE THE CONCEPT

Parameter 1: Structural Performance - Education

EARTHQUAKES PRIMARY DESIGN RULES FOR LIFE SAFETY

(Addressed at Education of Engineers and Decision Makers)

Parameter 1: Structural Performance - Education

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ROBUSTNESS - REDUNDANCY

Alternative load-paths

Parameter 1: Structural Performance - Education

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ROBUSTNESS - REDUNDANCY

Alternative load-paths

LIMITED DAMAGE ACCEPTABLE – FAILURE UNACCEPTABLE

Parameter 1: Structural Performance - Education

EARTHQUAKES PRIMARY DESIGN RULES FOR LIFE SAFETY

(Addressed at Education of Engineers and Decision Makers)

ROBUSTNESS - REDUNDANCY

Alternative load-paths

- LIMITED DAMAGE ACCEPTABLE FAILURE UNACCEPTABLE
- **PROVIDE SPECIFIC AREAS FOR SAFE REFUGE (overdesigned)** Earthquake proof shelters and rescue rooms accessible for all

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NEW DESIGN FOR ALL CONCEPT

NO DEAD ENDS
 SHORT TRAVEL DISTANCES
 (DESIGN OFFICE http://www.koumoulos.com, PATRAS, GREECE)

Parameter 1: Structural Performance - Education

- INDEPENDENT STRONG RESILIENT CENTRAL CORE
- SEISMIC GAP, SEPARATION OF BUILDINGS' STRUCTURES
- LARGE AREA FOR SAFE REFUGE "AGIOI ANARGYROI" GENERAL ONCOLOGY HOSPITAL KIFISIA (DESIGN OFFICE http://www.koumoulos.com, PATRAS, GREECE)

Parameter 1: Structural Performance - Education

EARTHQUAKES PRIMARY DESIGN RULES FOR LIFE SAFETY

(Addressed at Education of Engineers and Decision Makers)

ROBUSTNESS - REDUNDANCY

Alternative load-paths

- LIMITED DAMAGE ACCEPTABLE FAILURE UNACCEPTABLE
- PROVIDE SPECIFIC AREAS FOR SAFE REFUGE (overdesigned) Earthquake proof shelters and rescue rooms accessible for all
- DESIGN EVACUATION MEASURES FOR ALL

Emergency lifts, emergency doors, fire doors, specific evacuation tools for people with disabilities (in general term)

Parameter 1: Structural Performance - Education

DESIGN: Emergency Evacuation



(http://www.ilerisavunma.com/en/escape/chute/single.htm)



(http://www.snapitude.net/?p=1489) Spiral inside to limit descent speed

EARTHQUAKES PRIMARY DESIGN RULES FOR LIFE SAFETY

(Addressed at Education of Engineers and Decision Makers)

ROBUSTNESS - REDUNDANCY

Alternative load-paths

- LIMITED DAMAGE ACCEPTABLE FAILURE UNACCEPTABLE
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- DESIGN EVACUATION MEASURES FOR ALL

Emergency lifts, emergency doors, fire doors, specific evacuation tools for people with disabilities (in general terms)

 CONSIDER FUNCTIONALITY DURING AND AFTER AN EARTHQUAKE

Design earthquake resistant furniture depending on specific disabilities

EARTHQUAKES FATALITIES

MOST FATALITIES NOT FROM STRUCTURAL DAMAGE

It has been reported (Jones et al., 1990 for the Loma Prieta earthquake and Barque et al., 1991 for Whittier Narrows earthquake) that the majority of fatalities and injuries were mostly affected by how people behaved during or immediately after the earthquake and the fatalities and injuries were caused by people failing down or being hit by non structural elements and building contents.



Parameter 1: Structural Performance - Education

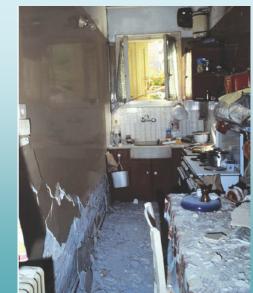


Parameter 1: Structural Performance - Education



Fatalities can also occur without serious damage to the building

Parameter 1: Structural Performance - Education



Fatalities can also occur without damage to the building



Fatalities can also occur without damage to the building

Parameter 1: Structural Performance - Education



Fatalities can also occur without damage to the building Mind to get under the table when you feel shaking from an earthquake

S. E. D R I T S O S

Parameter 1: Structural Performance - Education

Parameter 1: Structural Performance - Education

EXAMPLE: EARTHQUAKE RESISTANT BED

Four poster bed

Recommended for people with mobility impairments but also for other cases

Enclosed beds with a strong roof





(http://www.lifeguardstructures.com/order/index. php?dispatch=products.view&product_id=48)

IN CONCLUSION

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TWO MAIN APPROACHES IN EARTHQUAKE DESIGN EDUCATION:

1. CONVENTIONAL DESIGN

INCREASE IN STIFFNESS OF THE BUILDING TO MINIMISE THE DISPLACEMENT OF IT'S ELEMENTS

2. INNOVATIVE DESIGN

SEISMIC ISOLATION:

PROVISION OF "SEISMIC BREAKER" (AS A FUSE) INHIBITS THE TRANSFER OF MOTION TO THE STRUCTURE

BOTH PREVENT DAMAGE TO STRUCTURAL AND NON-STRUCTURAL ELEMENTS

Parameter 1: Structural Performance - Education

EARTHQUAKES EDUCATE ENGINEERS, DECISION MAKERS, CONTRACTORS, WORKERS

SOLUTION: SEISMIC ISOLATION



(https://mathspig.wordpress.com/category/topics/differentiation/)

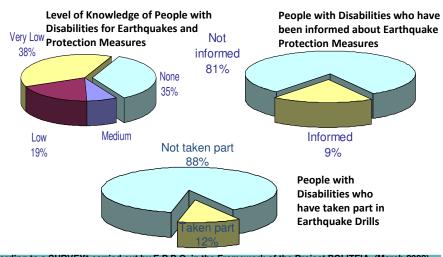
Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions

Working towards disability equality

- >> Research in the framework of the Project: POLITEIA
- Textbook : "Learning about earthquakes and Earthquake Protection Measures – Guidelines for People with Disabilities" (in Greek and in English)
- Booklet 1 : (in easy-to-read method), "Earthquakes often happen in Greece. All of us should know what to do when an earthquake strikes" (in Greek and in English)
- Booklet 2: (in Makaton language) "Learning what to do in an earthquake" (in Greek and in English)
- Leaflet 1: "Be prepared for an earthquake: instructions for people with mobility impairment" (in Greek)
- Leaflet 2: Be prepared for an earthquake: Instructions for the Network staff supporting people with mobility impairment" (in Greek)
- Information Dissemination (lectures, seminars, posters, e-learning Platform, etc.)
- Education Earthquake Drills

Parameter 2: People's Behaviour – Education

E.P.P.O. – E.C.P.F.E. Actions SURVEY



According to a SURVEY^{*} carried out by E.P.P.O, in the Framework of the Project POLITEIA, (March 2008) Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.

Parameter 2: People's Behaviour – Education

E.P.P.O. – E.C.P.F.E. Actions

TEXTBOOK

- addresses People with Disabilities
 - Mobility impairments
 - Visual impairments/Blindness
 - Hearing impairments/Deafness
 - Cognitive impairments Speech Communication impairments
- is divided into two parts:
 - information about earthquakes
 - earthquake protection measures
- specific guidelines for each type of disability are listed differently The textbook :
- has been translated into Braille by E.P.P.O. and the Organization: "Lighthouse for the Blind of Greece"

Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council. Paris. 2013.

Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions

TEXTBOOK

Classified into three sections:

Protection measures before earthquakes

(What you should do from this point onwards)

- Protection measures during an earthquake (What you should do during the few seconds that an earthquake lasts)
- >> Protection measures after an earthquake

(Which steps you should follow right after the earthquake finishes)

Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.

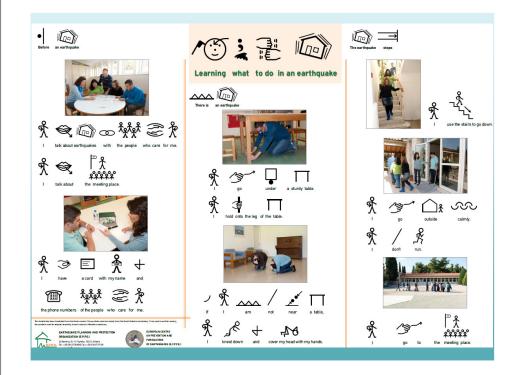




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EUR-OPA Conference on including people with disabilities in disaster preparedness and response, Brussels, December 2014

Vaia Arsenopoulou: Earthquakes: Guidelines for People with Intellectual Disabilities using the Easy-to-Read method and Makaton symbols

Why two different booklets?

Similarities:

- Simple language without losing essential information.
- Short sentences with a lot of repetition.
- Visual support using photographs.

Differences:

- Each method addresses people with different abilities in receiving written information –minimal reading skills for Easy to Read & pre-reading skills for Makaton.
- Vocabulary selection criteria
 - Reading difficulties related to the phonemic structure of words (Easy to Read)
 - Visualization difficulties of an abstract concept with a representational symbol (Makaton)

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Target Groups

- The **Easy to Read** booklet addresses people with mild to moderate intellectual disability.
- The **Makaton** booklet addresses people with moderate to severe intellectual disability with or without autism.
- Although the pilot studies were performed on these 3 target groups, the flexibility of both the Easy to Read method and the Makaton symbols makes it possible for both the booklets to be used by anyone who has minimum reading comprehension skills in the case of Easy to Read or pre-reading skills in the case of Makaton.

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Design Process

- Earthquake specialists outline the technical details essential to be included.
- Working group narrow down the information content considered essential to be included, keeping in mind the ease of conveying the message.
- Information processed in groups including PWD (various groups consisting of 10-15 teenagers or adults with varying degrees of intellectual disability).
- Information content was analyzed and separated into before, during & after an earthquake sections.
- Creation of the 1st draft of the text followed by trials.
- Difficulties were encountered with the structure of the text, with the significance of some points and with some of the symbols.⁵⁴

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Design Process

- Changes incorporated into the text. All information which caused comprehension difficulties was expressed with simpler words and less abstract words & symbols.
- Finalization of working draft which corresponds to reading and comprehension skills of target group.
- Trials with the target groups, check for understanding.
- Results and feedback from trials incorporated into 2nd working draft.
- Careful planning of new photographs to be taken (based on feedback from target groups to use photographs not sketches & also based on difficulties experienced with the previous edition's photos).
- The Easy-to-Read target groups specified which points needed to be supported by photos or sketches as well as the content of the photos.
- Re-trials with the new photos

• Final draft



Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions OTHER PUBLICATIONS



S. E. D R I T S O S Parameter 2: People's Behaviour – Education

E.P.P.O. – E.C.P.F.E. Actions

An e-learning platform was designed to host this educational material

Οργανισμός Α Οργανισμός Α Σχεδιασμού κα		Search
Basic Options	ECPFE - Asynchronous Teleteaching Platform	User login
» User Registration	The ECPFE designed this platform in order to include the educational material of the booklet "Learning about Earthquakes and Protection Measures", which was edited and published by EPPO. This booklet is addressed specifically to People with cognitive impairments, blindness, deafness and mobility impairments. The aim of this action is to educate and inform People with	Username Password
	Disabilities through e-learning about protection measures against earthquake.	Enter Forgot your password?

Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions ECPFE website – ON LINE QUESTIONNAIRE FOR INDIVIDUALS WITH DISABILITIES

A questionnaire for an e-learning application in Greek and English languages has been created, so as to educate and inform People with Disabilities



Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.

Parameter 2: People's Behaviour – Education

<u>E.P.P.O. – E.C.P.F.E. Actions</u> Earthquake Seminars and Drills

E.P.P.O.

European Council, Paris, 2013.

- Organise seminars workshops and training courses for students, teachers and educators in special schools
- is planning to create specific leaflets for each disability



- Many earthquake drills have to be held, for each type of disability, in order to:
- act correctly and instinctively in case of a real earthquake
- identify gaps and challenges
- >> create a culture of earthquake behaviour
- further earthquake-disaster reduction

Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.



Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.

S. E. DRITSOS Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions Training - Earthquake Drills



Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.



Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council. Paris. 2013.

Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions Training - Earthquake Drills



Source: C. Gountromixou, L. Pelli, E. Lekkas and S. Dritsos, "Earthquake Protection Policy for People with Disabilities" Workshop: Including People with Disabilities in Disaster Preparedness and Response, EUR-OPA, European Council, Paris, 2013.

Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions

Training - Earthquake Drills



Parameter 2: People's Behaviour – Education

E.P.P.O. – E.C.P.F.E. Actions

Training - Earthquake Drills

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Parameter 2: People's Behaviour – Education E.P.P.P. – E.C.P.F.E. Actions

Training - Earthquake Drills



Parameter 2: People's Behaviour – Education E.P.P.O. – E.C.P.F.E. Actions Training - Earthquake Drills

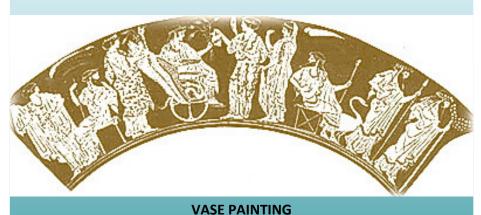


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Adamides Adamos "Education and Training Material for People with Disabilities – Data Collection", Part of Diploma Thesis, Dept. of Civil Engineering, University of Patras, 2015.

	Educational Material for Emergency Preparedness									
Country	Organization	Туре	Name	Beneficiaries targeted	Location	Ву	Comments			
USA	Federal Emergency Management Agency (FEMA) http://www.f ema.gov	Videos	"Preparedness" a video in sign language	Deaf or Hearing Impairment	https://www .fema.gov/m edia- library/asset s/videos/830 08	Robert Kaufmann - Jul 08, 2013	Annmarie Buraczeski represents the New Jersey Association of the Deaf and also the Community Emergency Response Team (CERT). In this video she shares her personal experience with Superstorm Sandy and talks about what steps to take in preparation for a storm.			
			Preparing Makes Sense for People with Disabilities and Other Access and Functional Needs	Deaf or Hearing, Blind or Visual, Mobility and Cognitive impairment	http://www. fema.gov/m edia- library/asset s/videos/788 27	Aaron Skolnik - Dec 30, 2011	A unique instructional video containing information specific to Americans with disabilities or other access and functional needs regarding emergency preparedness.			
			Emergency Preparedness Tips in Sign Language	Deaf or Hearing Impairment	https://www .youtube.co m/watch?v= ZAy9DVfgZp M&feature= youtu.be	Ready Georgia from GEMA				
			FEMA Community Relations Address Special Needs	Deaf or Hearing Impairment	https://www .fema.gov/m edia- library/asset s/videos/738 78	Mark Meytin - Nov 17, 2008	FEMA Community Relations Specialists attend a deaf and hard of hearing community event. Using American Sign Language translators, applicants who had been affected by Hurricane Ike speak with the CR personnel to have their FEMA related questions answered Location: Houston, TX			

MOBILITY IMPAIRED IN ANCIENT GREECE?



(http://www.crfaster.com.br/Cadeira%20Rodas.htm)

ANCIENT GREECE

PEOPLE WITH DISABILITIES

- ATTAINED HIGH SOCIAL POSITIONS OF RESPONSIBILITY (KINGS, POETS, ETC.)
- WERE NOT CONSIDERED AS BEING DISABLED
- MADE MAJOR WELL RECOGNISED CONTRIBUTIONS TO SOCIETY

THEY WERE REPRESENTED BY A GOD (HEPHAESTUS)

ANCIENT GREEK OLYMPIAN GOD HEPHAESTUS



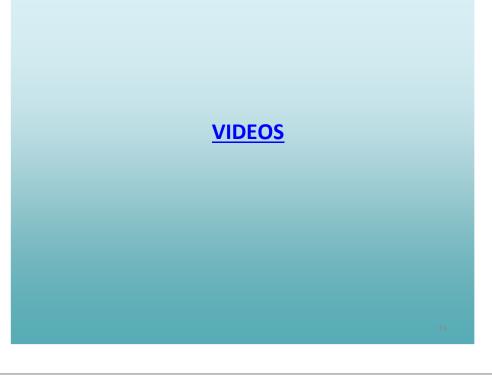
30 Hephaistos on a winged throne. Cup by the Ambrosios Painter, towards 5 to. Berlin, Pergamonmuseum F 2273.

Schefold, K., Gods and Heroes in Late Archaic Greek Art. English translation by A. Griffiths. (Cambridge, 1992))

- POSSIBLE FIRST RECORDED EXAMPLE OF A WINGED WHEELCHAIR OR CHARIOT
- INVENTOR: THE GOD HEPHAESTUS!

ANCIENT GREEK OLYMPIAN GOD HEPHAESTUS

Greek mythology did not involve special revelations or spiritual teachings. It had no formal structure such as a church hierarchy and there was no written code such as a sacred book (Guisepi, 2001). Greek Gods resembled humans and human behaviour. Their most striking features were their human traits such as anger, jealousy, love, wisdom, knowledge, etc. Consequently, it is easy to see that the Ancient Greek Gods reflected Ancient Greek society. In this light, contrary to modern day beliefs depicting the Gods as being at the peak of physical perfection, strength and beauty, it is not surprising to find that one of the twelve Olympian Gods was disabled. Disabled Greek God Hephaestus was the inventor God, he married the Goddess of beauty Aphrodite (Venus) making the God Jealous.



THANK YOU FOR YOUR ATTENTION