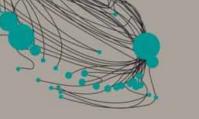
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CHANGES MID TERM MEETING DORTMUND **29 NOVEMBER 2012**

COORDINATORS REPORT







SNOIT



FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

MID TERM MEETING: PROGRAMME

- 08:30 09.30: Objectives and achievements of the CHANGES project. Part I: Coordinators report
- 09:30 12.30: Objectives and achievements of the CHANGES project. Part II: WP reports
- 12:40 13:40: Lunch
- 13:40 14:20: Objectives and achievements of the CHANGES project. Part II: WP reports
- 14:20 15.00: Meeting between the ESRs and the commission's representatives
- 15:00 15.45: Round Table– Strengths and weaknesses of the project. Recommendation by the Commission's representatives
- 15.45-16:00: Break: End of the mid-term meeting
- 16:00 17:00: Steering Committee Meeting



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INTRODUCTION OF EXTERNAL PARTICIPANTS

- EC, Research Executive Agency (REA) representatives:
 - SILVIA ABAD, Project Adviser, European Commission
 - Cathy SOUTO ENRIQUEZ
- External expert:
 - Jean-Louis Marchal (Doctor in Agricultural sciences) <u>www.inforstat.be</u>
- External advisory committee (not present but submitted report):
 - Prof. David Petley (Durham University, UK)
 - Dr. Suzanne Lacasse (NGI, Norway)



PART I: COORDINATORS REPORT

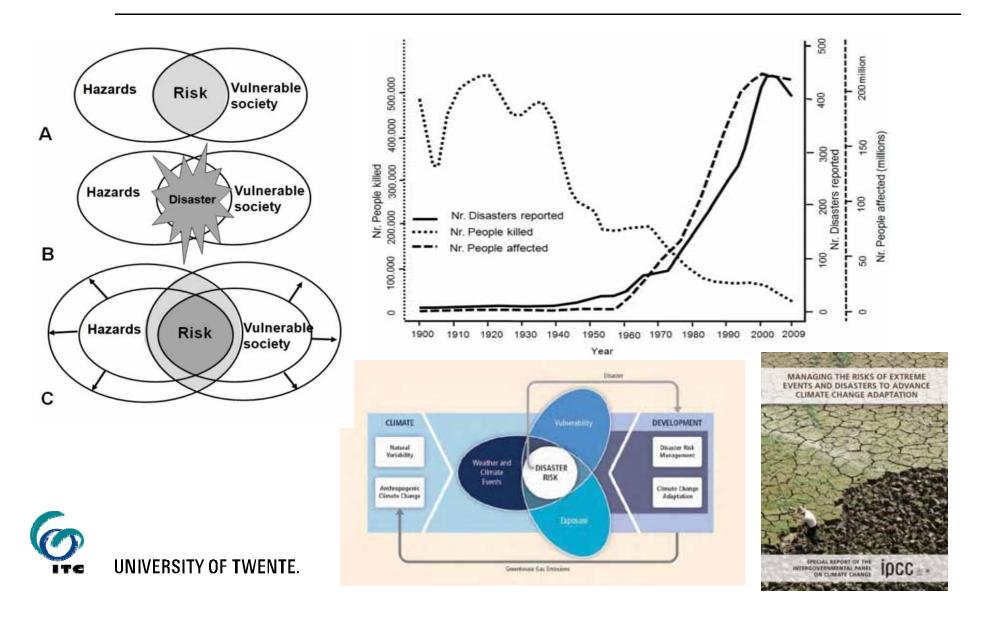
Scientific activities

- Reasons for carrying out the research
- Research objectives of the joint work
- Scientific highlights of the work so far
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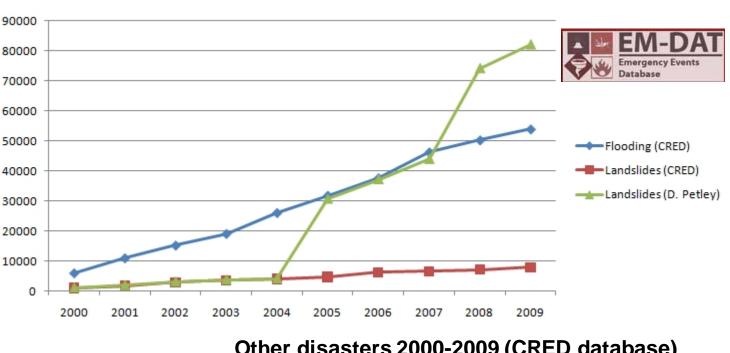
Management aspects UNIVERSITY OF TWENTE.

Part 1: reasons for carrying out this research: Increasing trends in disasters, hazards, vulnerability and risk



Comparing historical data on floods and landslides fatalities





Other disasters 2000-2009 (CRED database)

Earthquake: 453,626 Storm: 172,220

River flood: 54,012 Volcano: 237





BACKGROUND

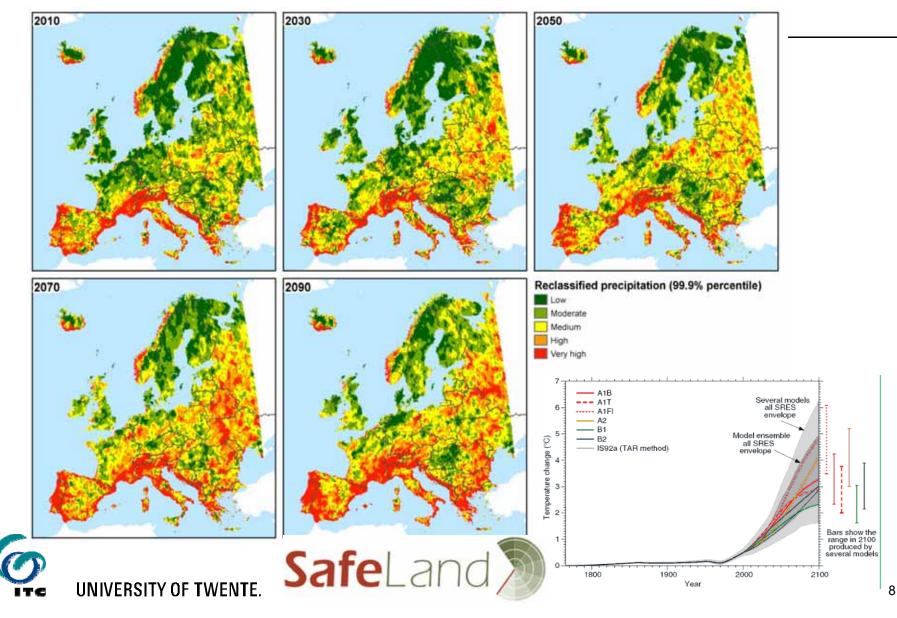


- The European Commission has identified the need for adaptations in risk management as a consequence to climate and environmental changes in several documents
- risk management measures such as disaster preparedness programmes, land-use planning, regulatory zoning and early warning systems are considered essential
- spatial planning is only one of many aspects in risk management and that it is, in general, not involved in risk assessment
- multi-risk assessment approaches are not used in planning practice: risk indicators are hardly used and vulnerability indicators are not at all used
- scientific advances in hazard and risk assessment and demands of stakeholders/end-users are still not well connected

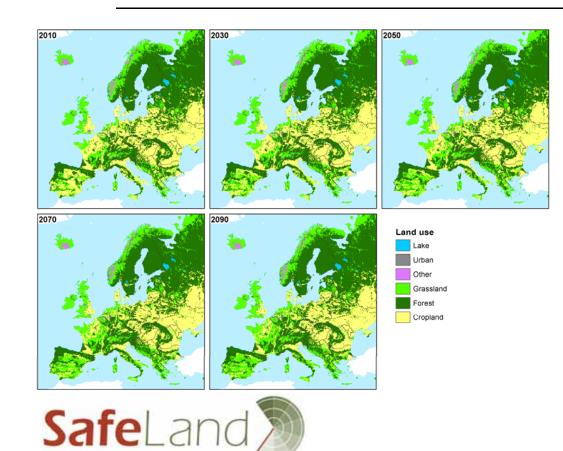


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WHAT IS AVAILABLE AT EUROPEAN SCALE: CLIMATE SCENARIOS

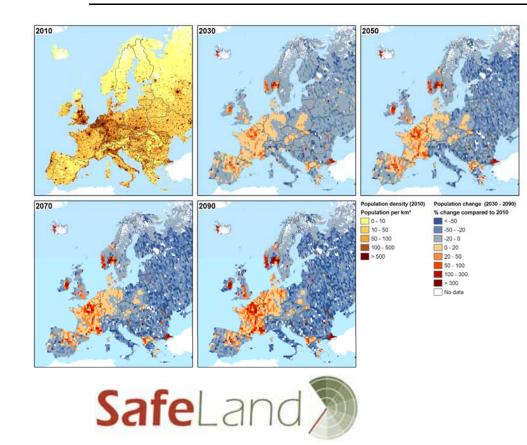


WHAT IS AVAILABLE AT EUROPEAN SCALE: LAND-USE CHANGE SCENARIOS



The data give a percentage of land cover for 6 classes, e.g. 6 different maps. To achieve one grid for land cover in Europe, the class with the highest percentage in each grid cell was selected to represent the grid cell in the calculations. For example if the grid cell would show (10% cropland, 10% forest, 30% grassland, 0% urban, 10% other, 40% water), the grid cell would be represented as water in the further analysis

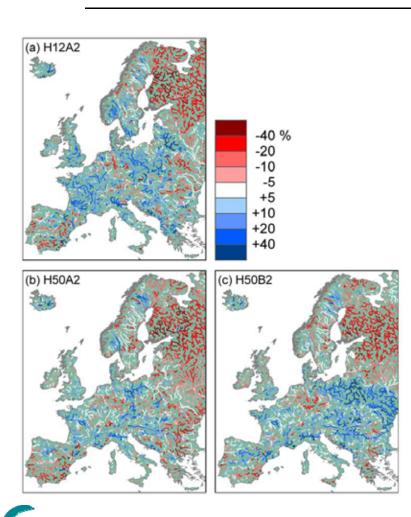
WHAT IS AVAILABLE AT EUROPEAN SCALE: POPULATION CHANGE SCENARIOS



This dataset was developed by The International Institute for Applied Systems Analysis (IIASA) based on the A2 scenario of the IPCC assessment report. the IISASA-FAO AWZ model is used to estimate the development of the global population (Tubiello and Fischer, 2007). The basis is the global population for the year 2000 which is then adjusted with climate and socio-economic forcing of the AWZ model.



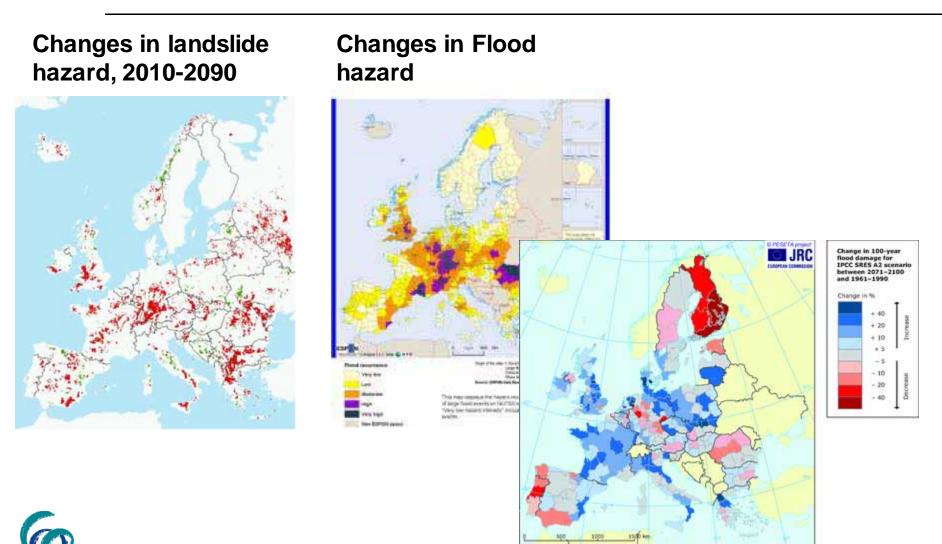
WHAT IS AVAILABLE AT EUROPEAN SCALE: CHANGES IN 100-YEAR DISCHARGE LEVEL



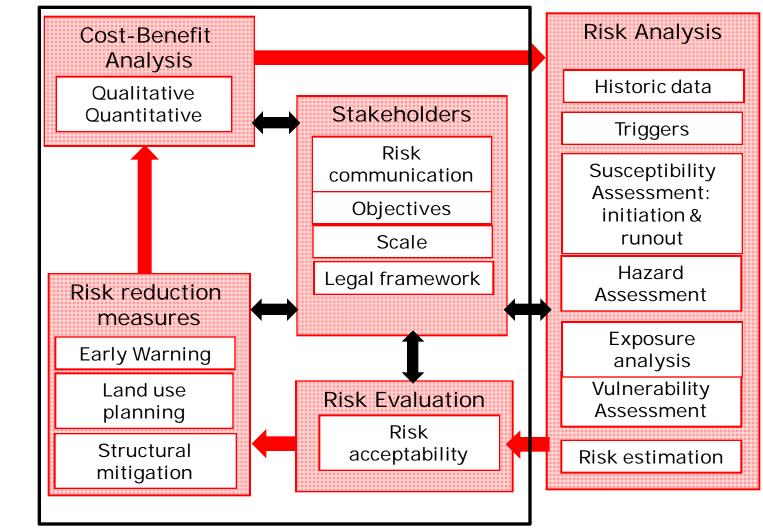
Dankers and Feyen, 2008

- Increase in magnitude and frequency of extreme precipitation events may lead to more intense and frequent river flooding
- Decrease in flood hazards in NE due to lower spring melt peak (warmer winters and shorter snow season)
- Effect of resolution is as large as greenhouse gas scenario

WHAT IS AVAILABLE AT EUROPEAN SCALE: CHANGES IN HYDRO-METEOROLOGICAL HAZARDS



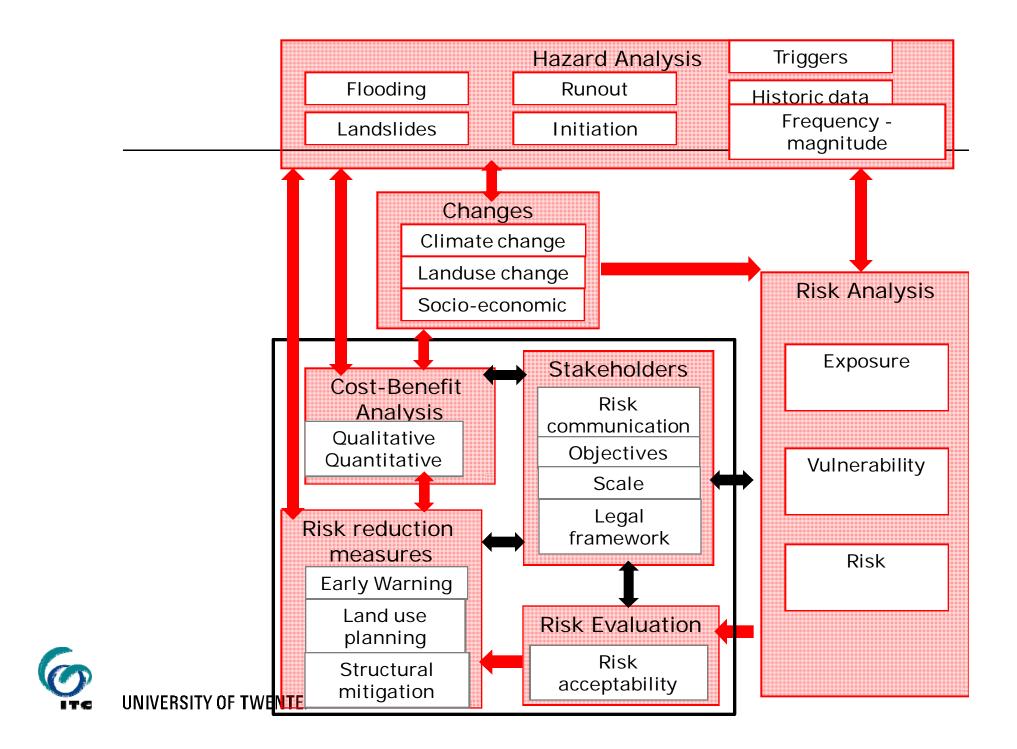
UT HOW TO TRANSLATE THE RESULTS TO A LOCAL SCALE? CHANGES IN HYDRO-METEOROLOGICAL HAZARDS & RISKS?



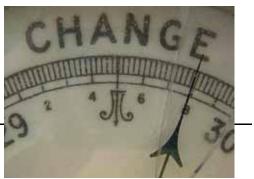


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Decision Making



OBJECTIVES OF CHANGES



- To provide high-level training, teaching and research in the field of hazard and risk management in a changing environmental context to a group of 12 Early Stage Researchers, of which at least 50% are females, which will be hired by the 11 participating partners before month 8 of the project, and 3 Experienced Researchers.
- To develop an innovative methodological framework combined with modelling tools for probabilistic multi-hazard risk assessment taking into account changes in hazard scenarios and exposed elements at risk and for increasing risk awareness. The project will incorporate risk governance strategies



OBJECTIVES OF CHANGES



- To strengthen and expand collaboration between the teams through the organization of a Collaborative Multi-disciplinary Research and Training Programme (CRTP) associating stateof-the-art experimental, methodological and computational advances to ensure Europe's leadership in this area
- To reduce the fragmentation of the research on hydrogeomorphic processes by using the complementary expertise of 11 excellent European academic teams in the fields of Geography, Geomorphology, (Engineering-) Geology, Land use planning, Social sciences, Geo-information and Computer Science, combined with 5 leading and innovative private companies, and 1 Civil Defence organisation



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KEY COMPONENTS OF THE CHANGES PROJECT

- Changing risk : what are the changes expected in risk levels due to:
 - Climate change
 - Land use change
 - Socioeconomic changes
- Multi-hazard risk: the probability of occurrence of potential damaging phenomena of different types and their interactions within a given area and a given time period
 - Cause effect relationships (concatenated hazards)
 - 'multi-risk' index may be often significantly higher than the simple aggregation of single risk indexes
 calculated considering each source as independent
 from the others

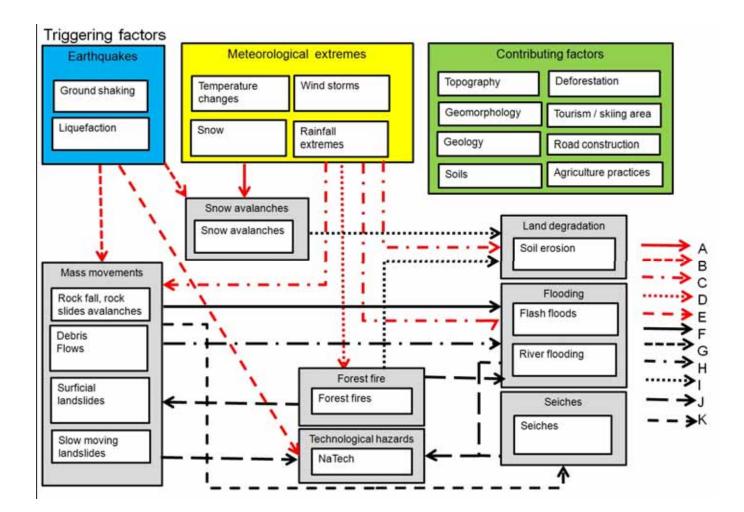








MULTI-HAZARD RISK ASSESSMENT

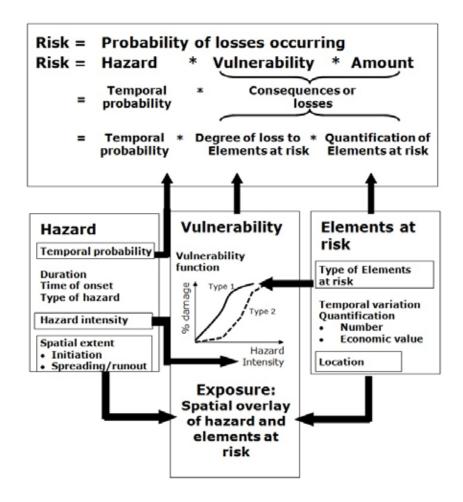




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RISK CONCEPT

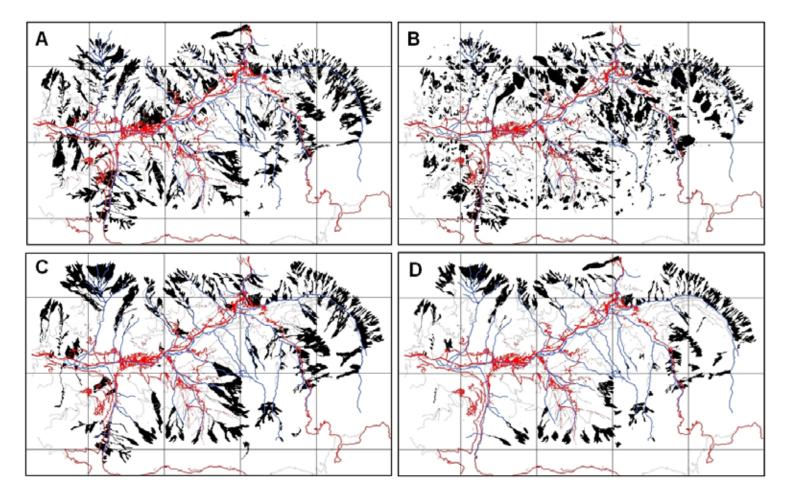






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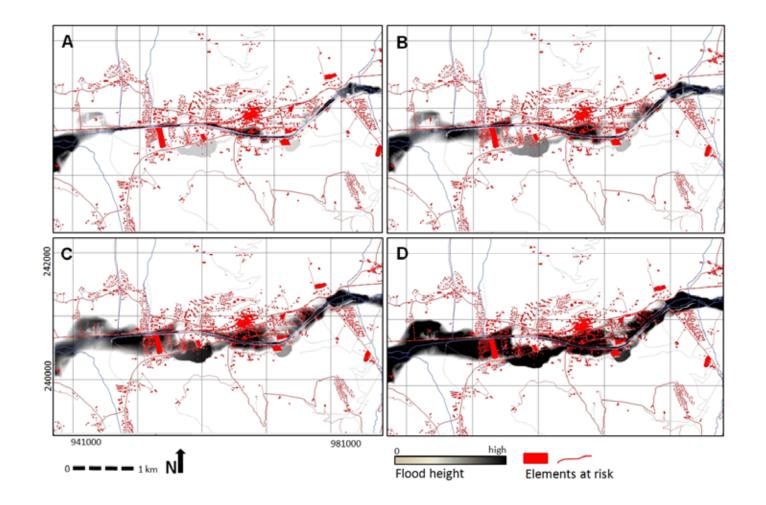
HAZARD MODELING: MASS MOVEMENTS DEBRIS FLOWS, LANDSLIDES, ROCKFALL, SNOW AVALANCHES





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HAZARD MODELLING: FLOODS

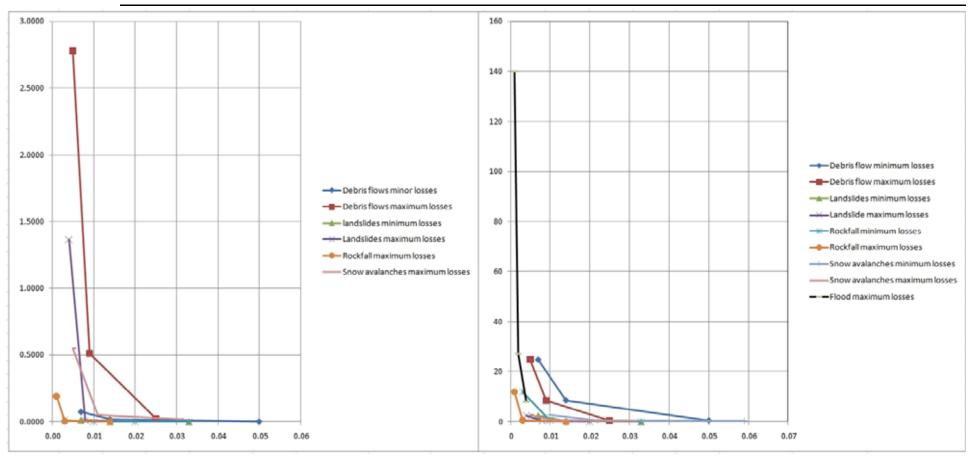




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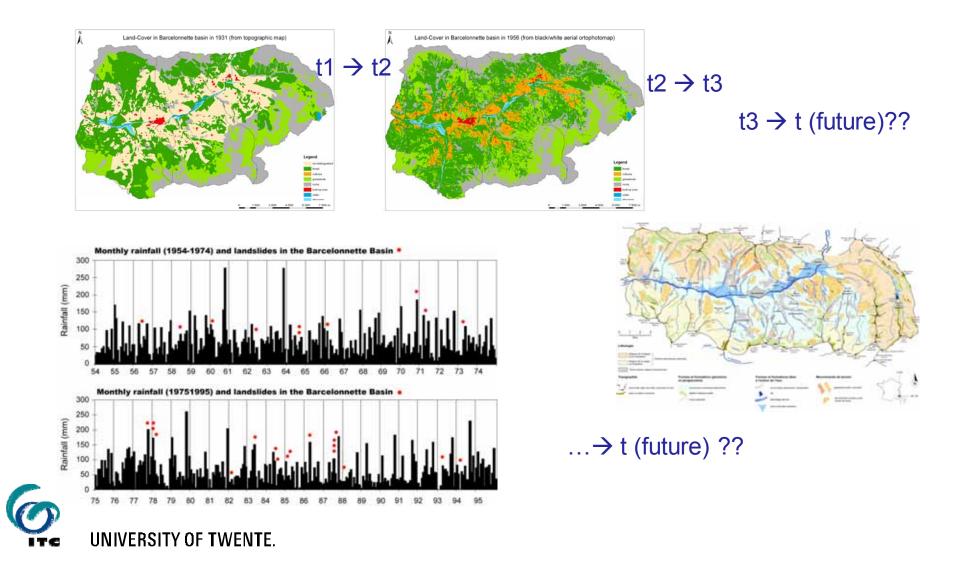
RISK CURVES

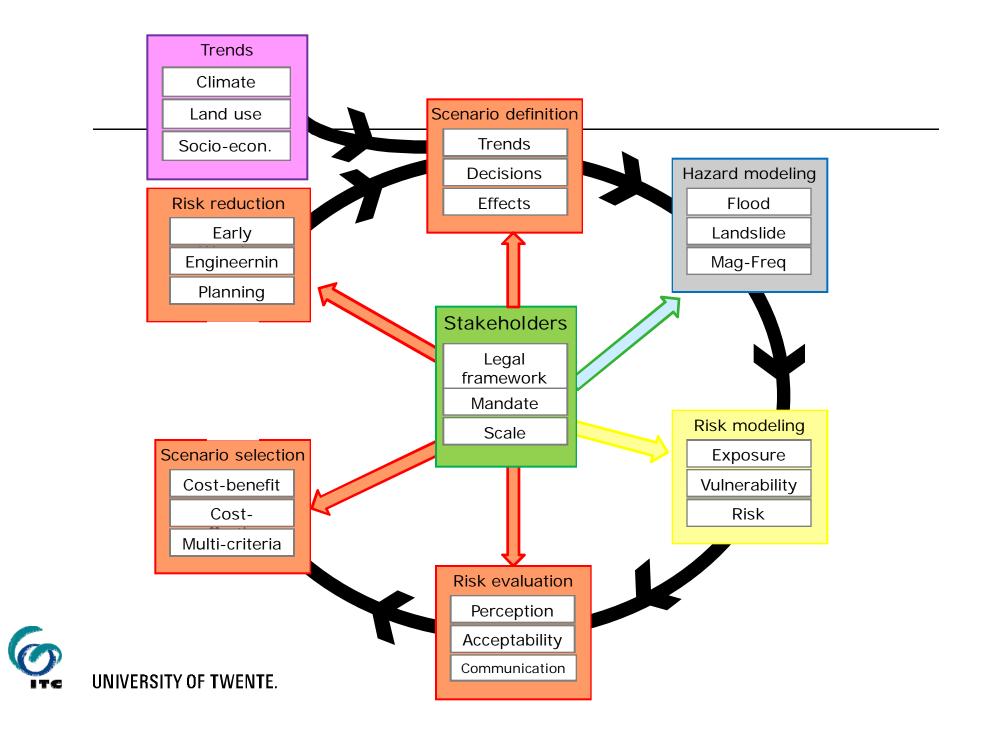




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MODELLING THE EFFECT OF CHANGES







KEY COMPONENTS CHANGES PROJECT

- Developing a risk assessment and management platform:
 - Flooding & Mass movements
 - Open source, Web-based
 - analyze the effects of different scenarios related to environmental changes in relation to planning
- Adapting risk management strategies to future changes: analyze the optimal instruments and tools for risk management, covering the whole disaster cycle and considering the complexity of changing environments.
 - Use of risk information in Strategic Environmental Assessment and spatial planning, cost-benefit analysis for the planning of risk reduction measures, and emergency management.
 - Development of an internet-based Decision Support System for change-proof planning..



MAIN CHALLENGES IN CHANGES CURRENT PROBLEMS

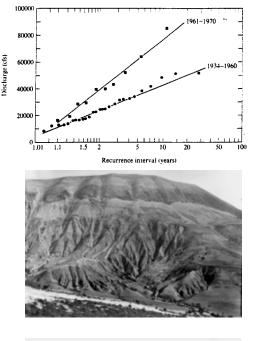
- How to model temporal probability of triggering events at the local level for different hazard types
- How to model initiation of hazard (hydrological modeling used both for flooding and mass movements)
- How to model multi-hazards: interaction of hydro-meteorological events (same trigger, cascading hazards, concatenated hazards)
- How to model uncertainties in all components that contribute to risk (temporal probability, spatial probability, intensity probability, vulnerability, costs etc..)
- How to model risk for multi-hazards at the local level, including direct and indirect losses (individual risk, societal risk, economic risk)
- How to link non-quantifiable aspects of vulnerability (indicators for social, economic and environmental vulnerability)



MAIN CHALLENGES IN CHANGES

MODELLING CHANGES IN MULTI-HAZARD RISK ASSESSMENT

- How to model changes in temporal probability of triggering events at the local level
- How to model changes in land use (both as input factors as well as elements at risk), also as interaction with climate change and planning decisions
- How to model changes in uncertainties in all components that contribute to risk (temporal probability, spatial probability, intensity probability, vulnerability, costs etc..)
- How to select relevant scenarios (climate change, land use change, risk reduction scenarios).
- How to build a decision support system that incorporates scenarios.







SCIENTIFIC PROGRESS MADE

- 12 ESRs have made extensive research proposals
- 7 ESRs have also presented their proposals in Young Researchers Forum, July 2012 in Salzburg
- Publictions have been written for conferences
- First ISI manuscripts have been submitted



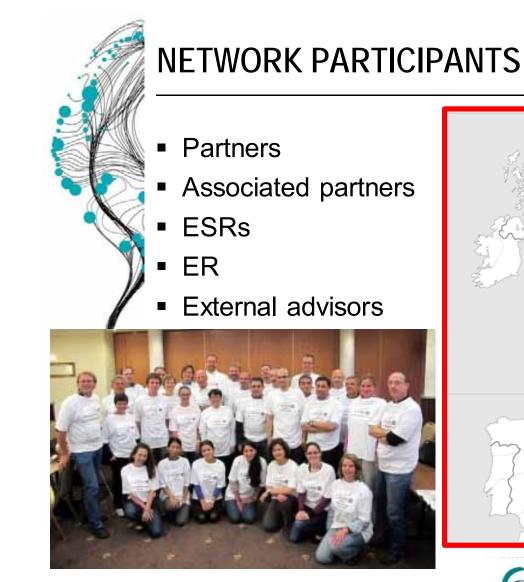
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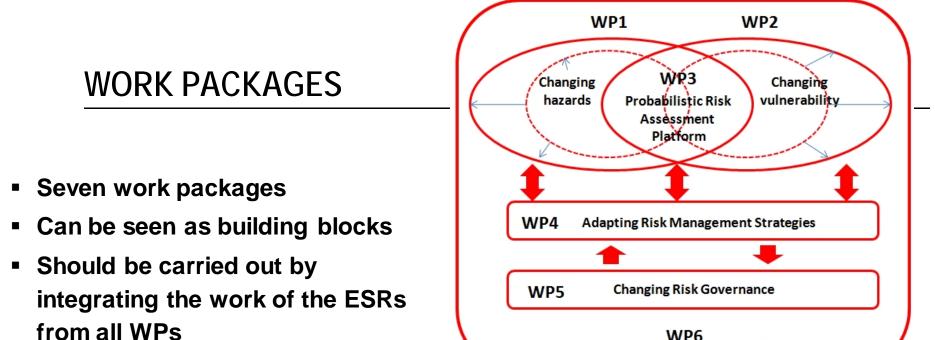
Management aspects

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WP6 Network coordination, training & Dissemination

WP	Work package title	Coordinating partner	Person- months ERS/ER
WP1	Modelling changes in hydro-meteorological multi-hazards	CNRS	108
WP2	Evaluating changes in exposed elements at risk and their vulnerability	UNIVIE	72
WP3	Development of a probabilistic risk assessment platform	CNR	96
WP4	Adapting risk management strategies to future changes	TUDO	132
WP5	Establishing the risk governance framework	TUD	96
WP6	Network training and dissemination	ITC	0
WP7	Network management	ITC	0



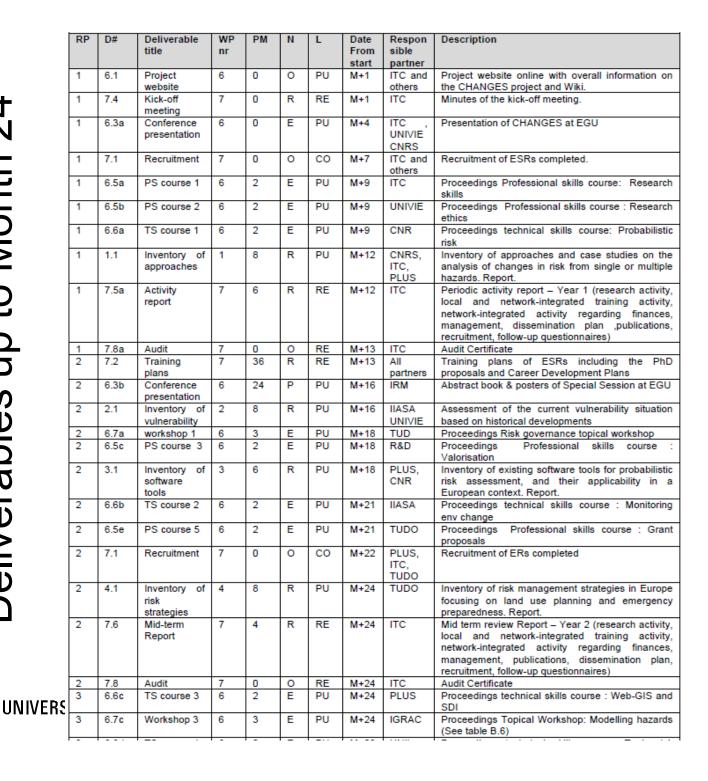
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WORKPLAN

- The Description of Work has a detailed description of the workplan, in terms of:
 - Workpackages, Deliverables, Milestone
- The Consortium Agreement also has a detailed annex with description of activities for each partner
- The web-site has a section for the network partners with all relevant information

Basic project information	1
Proposal	Download
Description of Work	Download
Contract	Download
Consortium Agreement	Consortium Agreement Annex 1: DOW Annex 2: EC contribution per partner Annex 3: Financial provisions Annex 4: Project tasks and budget per partner Annex 5: Foreground Annex 6: Background Annex 7: Background excluded
Project logo and templates	
	Download project powerpoint template Download project logo Download Marie Curie logo







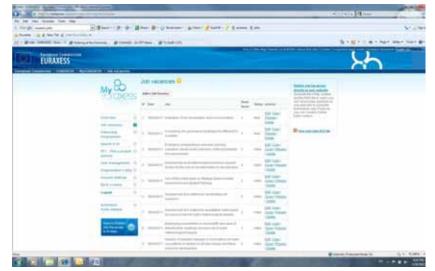
DELIVERABLES BEFORE MIDTERM: REPORTS

- M+12 (January 2012):Inventory of approaches and case studies on the analysis of changes in risk from single or multiple hazards. Report (CNRS, PLUS, ITC)
- M+16 (April 2012): Assessment of the current vulnerability situation based on historical developments (UNIVIE, IIASA)
- M+18 (June 2012): Inventory of existing software tools for probabilistic risk assessment, and their applicability in a European context. Report (PLUS, CNR)
- M+24 (December 2012): Inventory of risk management strategies in Europe focusing on land use planning and emergency preparedness. Report. (TUDO, CNR, R&D, AS)

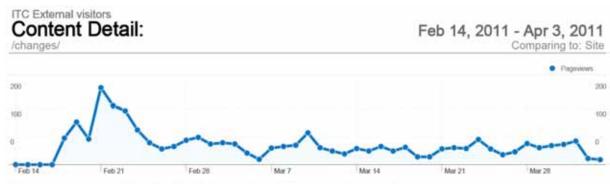


ADVERTIZING ESR POSITIONS

 The 12 ESR positions were widely advertized using Euroaxess, and other job-sites (e.g. Earthworks) as well as through the websites of the partners, and the project website. The table below list the number of views for the various positions from the Euroaxess platform. In total over 800 candidates applied for the 12 positions.



ESR	Euraxess:		
	Number of		
	times read		
01	240		
02	244		
03	191		
04	236		
05	164		
06	176		
07	164		
08	140		
09	213		
10	69		
11	83		
12	82		



This page was visited 2,304 times via 122 countries/territories



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ESRS SELECTED

Position	Host	Name	Gender		Country	Start date	Secondments	Photo
							<u>м</u>	
ESR01	ITC	Thea Turkington	F	New Zealand		1 Dec 2011	CCRM and PLUS	9
ESR02	Z-GIS	Korbinian Breinl	М	Germany		10 Oct 2011	ITC and Geomer.	
ESR03	CNRS	Romy Schlögel	F	Belgium		2 Nov 2011	CNR and IGRAC	
ESR04	IIASA	Ziga Malek	М	Slovenia		1 Aug 2011	<u>CCRM</u> , ITC and <u>PC-FVG</u> .	
ESR05	UNIVI E	Roxana Liliana Ciurean	F	Romania		1 Jan 2012	UNIL and R&D	<u></u>
ESR06	CNR	Haydar Hussin	М	Netherlands		15 Sep 2011	ITC and ERN	
ESR07	IGRAC	Veronica Zumpano	F	Italy		15 Oct. 2011	UNVIE and Geome	25
ESR08	IRM	Kathrin Prenger- Berninghoff	F	Germany		1 Sep 2011	TUDO and R&D	
ESR09	UNIL	Zar Chi Aye	F	Myanmar		1 Sept 2011	ERN and AS	-0-
ESR10	CNR	Vivian Juliette Cortes Arevalo	F	Colombia		1 Oct 2011	TUD and AS	
ESR11	TUDO	Teresa Sprague	F	USA		1 Oct 2011	IRM and IIASA	10
ESR12	TUD	Marie Charrière	F	Swiss		1 Oct 2011	CNRS and PC-FVG	



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10.000

Overview of ESR and exchanges

		Partners and months			
Nr.	Title of the position - ESRs	Hosting	Second ment		
ESR-01	Translation of the results of climate change models to expected changes in triggering conditions of hydro-meteorological hazards	ITC (26)	CCRM (5) PLUS (5)		
ESR-02	Development and application of probabilistic models for flood hazard assessment at regional and local scales.	PLUS (26)	ITC (5) GEOMER (5)		
ESR-03	Development and application of probabilistic models for mass movement hazard assessment at regional and local scales.	CNRS (26)	CNR (5) IGRAC (5)		
ESR-04	Analysis of expected changes in ecosystems and land use patterns in relation to climate change and future economic development.	IIASA (26)	CCRM (5) PC-FVG (5)		
ESR-05	Expressing uncertainties in vulnerability and value of infrastructure, buildings and land use to hydro-meteorological hazards	UNIVIE (26)	UNIL (5) R&D (5)		
ESR-06	Design of a tool for probabilistic risk assessment of hydro- meteorological hazards	CNR (26)	ITC (5) ERN (5)		
ESR-07	Development of a method for constructing risk scenarios and risk maps with associated uncertainties	IGRAC (26)	UNIVIE (5) GEOMER (5)		
ESR-08	Use of risk information in Strategic Environmental Assessment and spatial planning	IRM (26)	TUDO (5) R&D (5)		
ESR-09	Development of an internet-based Decision Support System for the use of risk information in risk reduction	UNIL (26)	ERN (5) AS (5)		
ESR-10	Emergency preparedness and early warning scenarios based on the outcomes of the probabilistic risk assessment	CNR (26)	TUD (5) AS (5)		
ESR-11	Comparing risk governance strategies for different EU countries,	TUDO (26)	IRM (5) IIASA (5)		
ESR-12	Risk communication with a focus on risk visualisation tools.	TUD (26)	CNRS (5) PC-FVG (5)		



ËSR01	27/02/2012	02/03/2012	Salzburg, Vienna Austria	Solidify collaboration for secondment (PLUS), met with researchers at ZAMG for potential collaboration
Thea Turkington	16/04/2012	18/04/2012	Barcelonnette	Field visit, Stakeholder meeting
Ū.	28/06/2012	06/07/2012	Salzburg, Austria	To attendance a course and conference (PLUS)
	01/10/2012	16/11/2012	Salzburg	Collaboration with ESR02 (PLUS)
	07/2013	10/2013	CCRM, UK	Coaching on the different downscaling techniques
	01/2014	03/2014	Salzburg,	To assess 'usability' of results, collaboration with ESR02 on a paper (PLUS)
SR02	12 Dec 2011	15 Dec	CNRS	Discussion of PhD topic and overlaps/collaboration with ESR03
orbinian Breinl	2 Mar 2012	12 Mar	Bristol University, JBA Trust, UK	Discussion of supervision and topic
Johnan Dienn				
	13 Apr 2012	19 Apr	Barcelonnette	Stakeholder Meeting with CNRS
	9 Jul 2012	10 Sep	Geomer	Development of weather generator, review of hydrological/hydraulic models
	1 Feb 2012	27 Apr	ITC	Setting up hydraulic and hydrological model, further development of statistical models, collaboration wit
				ESR01 on including climate component in hydrology
SR03	04/13	05/13	CNR	Statistical multivariate models
omy Schlögel	07/13	08/13		Field validation of InSAR analysis and preparation of data for hazard assessment
SR04	16.1.2012	27.1.2012	ITC Enschede	Discussing the land use modelling research approach
ga Malek	22.3.2012	22.3.2012	Zürich	Discussing land use modelling approaches with dr. Mark Rounsevell, University of Edinburgh
	18.6.2012	21.6.2012	ITCEnschede	Discussion on land use/ cover mapping approaches
	16.7.2012	20.7.2012	IGAR Bucharest	Discussion on land use/cover change trajectories in Romania in relation to socio-economic conditions
	Beginning of 2013		ITC Enschede	Planned visit to ITC
SR05	20.03.2012	25.03.2012	IGAR, Buzău, Romania	Field work, data collection, stakeholders meeting; joint work with ESR07
xana Liliana Ciurean	4.07.2012	5.08.2012	IGAR, Buzău, Romania	Field work, data collection, stakeholders meeting; joint work with ESR04, ESR07
	5.11.2012	16.11.2012	UNIL. Lausanne, Switzerland	Testing vulnerability/uncertainty assessment models: testing the implementation of the elements at risk
	0.11.2012	10.11.2012		parabase, joint work with ESR09
	February 2013			
SR06	12/12/2011	Notworking	j activities: many more	action Account of the EV/C major
aydar Hussin				En IN and a constant of the Civil Protection Agency of the FVG region
yuarriussii	28/02/2012		g douvidoo. many more	
	03/05/2012	Tor realizate		with the theat spion of the and supervisor
	12/08/2012		e L'Enschede Neihenands	Supervision and discussion on statistical approaches for probabilistic risk assessment
	30/11/2012	originally p		Landside susceptibility mapping
	13/01/2013			andstide Run out modeling
	04/03/2013	16/05/2010	Enverse Folle, tay	Elements at riskmapping and vulnerability assessment
SR07	22/04/2012	07/06/2012	Menna, Austria Univie	Developing the research proposal. Designing of the geo-DB for the El.at Risk for Buzau County
eronica Zumpano	10/06/2012	EN78EF	s with DoW:	Designing of the geo D6 for the Elfat Riscfor Buzau County
	19/11/2012	INTARANCA		Supervising on the ongoing work
	07/01/2013			Starting to develop a method for risk scenarios
	01/03/2013	30/04/2013	Fleidelberg Germany Geomer	Starting to develop a method for risk scenarios
	01/10/2013	31/10/2013	Vienns, Austria Univia	Modeling uncertainty in risk scenarios
	01/11/2013	30 12/072		Ne i se uperfamivin de scenados
	01/06/2013			
SR08	01/07/2013		with involving some of	SUP CONDENT
	01/07/2013 29.02.2012	29.02.2012	Delft, Netherlands	WP5 Discussion (Mane (ESR-12), Tess (ESR-11), Kathan (ESR-08), Stefan Greiving (TUDO), Thom
SR08 Cathrin Prenger-Berningho	01/07/2013 29.02.2012 off	29.02.2012	Delft, Netherlands	WP5 Discussion (Mane (ESR 12), Tess (ESR 11), Kathrin (ESR-08), Stefan Greiving (TUDO), Thom Bogaard (TUD), Enk Mostert (TUD), Sandra Junier (TUD))
	01/07/2013 29.02.2012 off 31.03.2012	29.02.2012	Delft, Netherlands	WPE Discussion (Mane (ESR 12), Tess (ESR-11), Kathrin (ESR-08), Stefan Greiving (TUDO), Thom Bogaard (TUD), EnkMostert (TUD), Sandra Junier (TUD)) Stakeholder meetingsand fieldste vists
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	01/07/2013 29.02.2012 31.03.2012 16.04.2012 11.06.2012 17.09.2012 14.01.2013		Pelft, Netherlands	WPE Discussion (Mane (ESR 12), Tere (ESR-11), Kathrán (ESR-08), Stefan Greiving (TUDO), Thom Bogaard (TUD), Enk Moster (TUD), Sandra Junier (TUD))) Stakeholder meetings and fieldate visits Stakeholder meetings and fieldate visits Stakeholder meetings and fieldate visits
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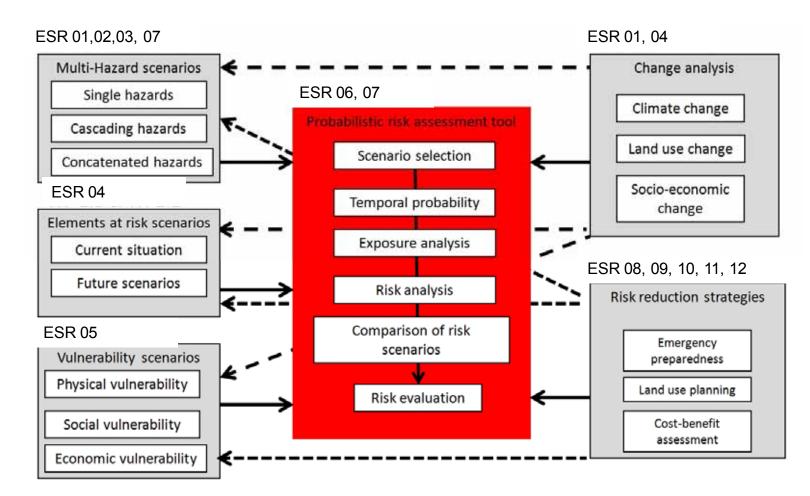
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FCD12	Maria Charriàna	advisor)	Condro lunion (TUDolft) Cisi Ziston sus (TUDolft) Dr. hom
ESR12	Marie Charrière	Dr. Thom Bogaard (TUDelft)	Sandra Junier (TUDelft), Sisi Zlatanova (TUDelft), Dr. Jean-
		Dr. Erik Mostert (TUDelft)	Philippe Malet (CNRS-Strasbourg), Dr. Simone Frigerio and Dr.
		Prof. Nick van de Giesen (TUDelft)	Alessandro Pasuto (IRPI), Prof. Dr. Stefan Grieving (TUDO)

RESEARCH PROPOSALS

- All ESRs developed extensive research proposals which were presented to the network partners on several occasions.
- The Young Researchers' Forum 2012, offered PhD students a unique possibility to present, discuss, receive feedback, and exchange comments and views on their doctoral research proposals and research in general. The forum consisted of PhD students from CHANGES, experienced researchers including keynote speakers from the GI_Forum, faculty members of the GIScience Doctoral College at the University of Salzburg, Doctorate School in Global Change Science and Policy (ChangeS), and other external PhD or MSc students participating.
- All proposals are available on the CHANGES website



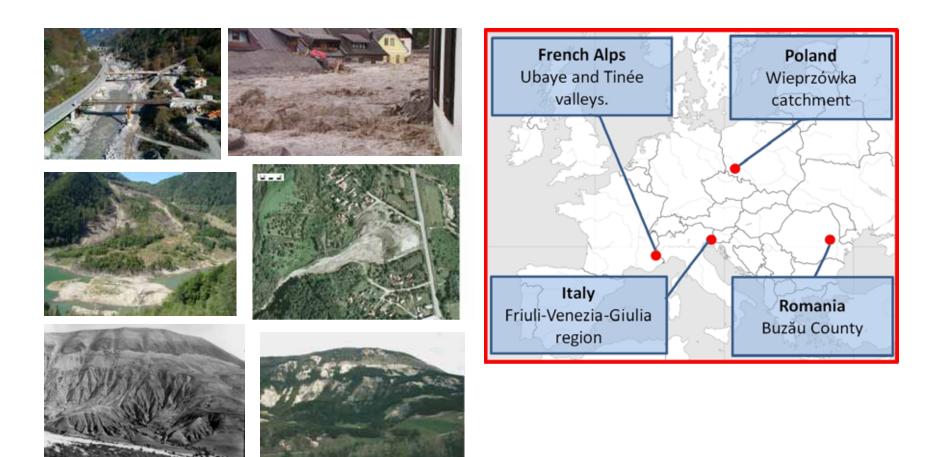
RELATION BETWEEN RESEARCH THEMES







STUDY AREAS





FIRST ATTEMPT

	FRANCE	ITALY	ROMANIA	POLAND
CLIMATE CHANGES	THEA	THEA	THEA	THEA
LANDUSE CHANGES		ZIGA	ZIGA	
FLOOD HAZARD	KORB.	KORB		
LANDSLIDE HAZARD	ROMY		ROMY	
VULNERABILITY FLOOD LANDSLIDE		ROXANA	ROXANA	ROXANA (?)
TOOL PRA	HAYDAR	HAYDAR	HAYDAR(?)	
RISK MAPS AND SCENARIOS		VERONICA	VERONICA	
S.E.A. AND SPATIAL PLANNING	KATRIN	KATRIN	KATRIN (?)	KATRIN
INTERNET BASED D.S.S.			ZAR CHI	ZAR CHI
EARLY WARNING SYSTEM		JULIETTE		
COMPERISON RISK GOVERNANCE	TESS	TESS	TESS	TESS
RISK VISUALIZATION TOOL	MARIE	MARIE	MARIE (?)	MARIE (?)



CONNECTIONS WITH OTHER RESEARCH ACTIVITIES

Mountain Risks

🚫 Mountain Risks

SafeLan

This was an earlier FP6 Marie Curie ITN.

SafeLand

Living with landslide risk in Europe: Assessment, effects of global change, and risk management strategies. EU FP7 project.

KULTURisk

This FP7 project aims at developing a culture of risk prevention by evaluating the benefits of different risk prevention initiatives.

CHANGINGRISK

Project between CNRS, UNIVIE and University of Zaragoza

- Move project
- InCREO

EU FP7 project with EADS Astrium, Geomer & ITC

UNIVERSITY OF TWENTE.

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ALLEES Exemplaire de sylvie.arnaud [Email:sylvie.arnaud@eonline.fr - IP:78.115.59.206]

CHANGES documentary CHANGES IN THE NEWS geolL001 O Abonneren 1 video



http://www.youtube.com/watch?v=t40bmLTkN30 BARCELONNETTE

L'Ubaye auscultée par des chercheurs

Ils ont partagé le résultat de leurs études sur les risques naturels de cette zone

You Tube

historique des recherches scientifiques me- nées depuis plus de vingt ans sur les aléas naturels obser vés sur le territoire, comme les indations et crues torrentielles, les coulées de boue, les glisements de terrain et les séis mes prouve que la vallée de l'Ubaye est une zone à risques particulière.

"Par le passé, ces recherches ont essentiellement concerné une meilleure connaissance des processus physiques et des conditions d'occurrence des dangers. Ce n'est que depuis quelques années que des estimations de risque sont proposées avec le développement de méthodologies d'analyse quantitative et de modèles numériques, indique Jean-Philippe Malet, chercheur à l'Institut de Physique du Globe de l'Université de Strasbourg, C'est dans ce ca dre que plusieurs jeunes cher cheurs doctorants, accompa gnés de leurs directeurs de thè-se, ont séjourné dans la vallée au centre Seolane, développé dans une partie des anciennes casernes du quartier Cranlet. pour initier des collaborations avec les acteurs de la gestion du

Ils collaborent à la prévention des risques

Deux projets de recherches deux cas, la vallée de l'Ubaye suropéens ont en effet com-mencé en 2011 : le projet KULest étudiée en tant qu'exemple représentatif de gouvernance TURisk qui vise au développe et de choix de mesures de pro-



ment d'une culture du risque en démontrant les avantages cation du territoire et pour la d'une programmation coorgestion de situations de crise. donnée des mesures de préven tion, et le projet CHANGES dont l'objectif est la réalisation de cartes d'aléas et de risques en prenant en compte de possi-

bles impacts du changement

du climat et de l'occupation du

sol à richéance 2100. Dans les

Les jeunes doctorants qu'il accompagnalt avec d'autres chercheurs ont visité certains dangers reconnus comme le glissement de La Valette, le cône torrentiel de Faucon-de-Barcelonnette et la plaine d'inondation de l'Ubave entre Jausiers et Les Thuiles. Ils ont nlamar

seront testés

tection, à la fois pour la planifiensuite présenté leurs objectifs de recherche aux différents acteurs des politiques de préven-Des échanges fructueux ont

De nouveaux outils eu lieu, et des programmes de travail concrets sont en cours d'élaboration, notamment en ce qui concerne les simulations de hauteurs d'eau par débordement de l'Ubaye. l'identification des secteurs susceptibles aux glissements de terrain, la mise en place des

L'Ubaye, terrain d'études pour Marie Charrière, doctorante

Elle étudie l'impact sur le public de la communication sur les risques naturels

LONNETTE

C éolane, le centre d'accueil b pour chercheurs en sciennatureis et en biodiversité, déve-loppé par Barcelonnette dans les anciennes casernes du quartier Craplet, accueille tout au long de l'année de nombreux chercheurs. Marie Charrière, native de Sulsse, fait partie de ces scientifiques venus profiter de ces installations et du formidable terrain de recherches qu'offre la vallée de l'Ubave. Dans le cadre d'un program-me européen qui facilite la moblité de jeunes chercheurs et de leurs formations, cette jeune Suisse étudie, avec douze jeunes doctorants répartis à travers l'Europe, l'impact socio-écononique et environnement des changements climatiques. Nous nous intéressons à la distribution spatiale et temporale des aléas hydro-métérolog comme les glissements de ter-rain, les coulées de boue, les la-



pourraient beaucoup apporter au plan d'évacuation établi pou le glissement de la Valette. /#H010 5.4.

à un risque naturel change les l'évaluation des moyens de com- l'augmentation de la sensibilisa-

Oui sont Projekt zarządzania kryzysowego omowiony z doktorantami Des cherch horizon, Lo

jeunes cherch Mis de Delft (1 sobota, 16, czerwiec 2012 08:45 Ireneusz Kowalczyk

ous torrentielles ... "explique-t-el-

Elle étudie si la servibilisation



Wizyta doktorantow w Starostwie Powiatowym w Wadowicach

Spraw Obronnych.

outils de con suelle (cartes, videos, jeux, ap plications pour téléphone por-table) pour l'éducation de divers publics, jeunes et moins jeunes, au risque.

cation regler

analyses écon

coûts des dor

mesures stru

structurelles Un importa

nera égalemer

Zadania w zakresie zarządzania kryzysowego w Powiecie Wadowickim stały się przedmiotem międzynarodowego spotkania. Doktoranci z Krakowa, ale i także z Lozanny i Dortmundu, biorący udział w projekcie: "Zmienne Zagrożenia Hydrologicznometeorologiczne Analizowane przez Nowa Generacje Europejskich Naukowców" gościli w Starostwie Powiatowym w Wadowicach w dniu 14 czerwca 2012 roku.

Celem tego spotkania było zapoznanie doktorantów z realizowanymi zadaniami w zakresie zarządzania kryzysowego w starostwie powiatowym. Zadania te przedstawił Jerzy Śniegowski - Kierownik Wydziału Zarządzania Kryzysowego i

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La préparation à une crise change-t-elle le comportement de la population?

augmente l'efficacité de la sensi billisation du grand public". Elle a commencé à travailler sur le sulet de la communication du risque depuis une an-née et va désormais orienter ses recherches en direction de deux groupes d'intérêt à savoir les enants et les vacanciers de la val lée. Tai choisi l'Ubaye car beau coup de données techniques y ont été collectées sur les risques naturels" explique Marie Charrière qui après avoir pris attache auprès des élus et le service de la Restauration des terrains de montagne notamment va pour suivre ses recherches auprès des écoliers de la vallée. "Je vai intervenir dans certaines écoles de la vallée et mesurer à l'aide de tests l'impact de la communi cation sur les risques naturels" indique la jeune femme qui mè ne ses recherches en lien avec Jean-Philippe Malet, cher cheur au CNRS, à l'École et Ob servatoire des Sciences de la Ter re et l'Institut de Physique du

Ð

CHANGES BROCHURE WAS MADE IN VARIOUS LANGUAGES

STAKEHOLDER MEETINGS WERE MADE IN EACH OF THE TEST SITES







Schimbări ale riscurilor hidro-meteorologice analizate de o nouă generație de tineri cercetători europeni

(Changing Hydro-meteorological Risks – as Analyzed by a New Generation of European Scientists)



Cambiamenti nei rischi idro-meteorologici analizzati da una nuova generazione di ricercatori europei

(Changing Hydro-meteorological Risks – as Analyzed by a New Generation of European Scientists)

Marie Curie Initial Training Network - Gen 2011 to Dic 2014.

Changing Hydro-meteorological Risks – as Analyzed by a New Generation of European Scientists

> A Marie Curie Initial Training Network January 2011 to December 2014



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PART I: COORDINATORS REPORT

- Scientific activities
 - Reasons for carrying out the research
 - Research objectives of the joint work
 - Scientific highlights of the work so far
- Networking activities
 - Methodological approach and work plan
 - Collaboration among the network participants Involvement and interaction among the recruited researchers
 - Connections to other research initiatives
- Training and Transfer of Knowledge activities
 - Training and ToK Programme of the project
 - Summary of recruitment, use of budget and projection until the end of the project



 Management aspects UNIVERSITY OF TWENTE.

COURSES AND WORKSHOPS

Professional skills course					
	Name	Time/Place			
PS-	Research work	M+9,Poland			
01	plan				
	development				
	and scientific writing				
PS-	Research	M+12,Netherla			
02	ethics	nds			
PS-	Valorisation of	March 2012,			
03	scientific	Italy			
D O	results	huhu 2010			
PS- 04	Dissemination	July 2012 Austria			
04	of scientific	Austria			
	results to the public				
PS-	Writing	September			
05	research grant	2012 Romania			
	proposals				
PS-	Project	M+43			
06	management	Switzerland			

Technical skills course				
	Name	Time		
TS- 01	Probabilistic risk assessment	M+9 Poland		
TS- 02	Monitoring and prediction of environmental changes.	Septembe r 2012 Romania		
TS- 03	Web-GIS and Spatial Data Infrastructure	M+24 Dordtmun d		
TS- 04	Tools for risk Management	M+28 Austria (&EGU)		
TS- 05	Use of risk information in Spatial Planning	M+33 Italy		

Topical workshops					
	Name	Time			
WS- 01	Risk governance implications of changing risks	March 2012 Italy			
WS- 02	Environmental changes	M+30 France			
WS- 03	Modelling changes in hazard and risk	M+24 Dordtmund			
WS- 04	Changes in Risk Management	M+33 Italy			
WS- 05	Web-based platform	M+43 Switzerland			



COURSES AND WORKSHOPS

	Name	Time/Place		Name	Time		Name	Time
PS- 01	Research work plan development and scientific	M+9,Poland	TS- 01	Probabilistic risk assessment	O K	WS- 01	Risk governance implications of	March 2012 It OK
	writing		TS-	Monitoring and	Septembe		changing risks	
⊃S-)2	Research ethics	M+42, Netherla	02	prediction of environmental changes.	OK	WS- 02	Environmental changes	M+30 France
PS- 03	Valorisation of scientific results	March 2012, Ita OK	ТS- 03	Web-GIS and Spatial Data Infrastructure	M+24	WS- 03	Modelling	M+24 Dordtmund
PS- 04	Dissemination of scientific results to the	July 2012	TS- 04	Tools for risk	Moved to		changes in hazard and risk	M+30 France
	public			Management	Austria (&EGU)	WS-	Changes in	M+33
PS-)5	Writing research grant	September 2012 Fernania	TS- 05	Use of risk information in	France M+33 Italy	04	Risk Management	Italy
<u> </u>	proposals			Spatial		WS-	Web-based	M+43
PS- 06	Project management	M+43 Switzerland		Planning		05	platform	Switzerland



TRAINING COURSES

HOME RESEARCH NETWORK PEOPLE STUDY AREAS MEETINGS TRAINING PUBLICATIONS RECRUITMENT CONTACT

Enter Title

ADMIN

Name of the course Technical skills course 2: Prediction and monitoring of environmental change

- Training courses were given as indicated in the DoW
- Additional training courses were also offered (e.g. in ITC and in UNIVIE)
- Training courses also included field projects.
- All materials presented in the training courses is available on the project website.

Flood height - Nehoiu river (2004-2005)





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RECRUITMENT OF 3 ER

ER- 01	Development of web-based tool for probabilistic risk assessment	PLUS (12)	CNRS (6) ERN (6)	3	M+22	M+48
ER- 02	Development of web-based decision support tool for risk management	ITC (12)	UNIVIE (6) GEOMER (3) R&D (3)	4	M+22	M+48
ER- 03	Development of a web-based risk communication and visualisation tool	TUDO (12)	TUD (6) AS (6)	5	M+22	M+48

Proposed procedure:

-Make job description & present in March meeting in Italy -Announcing April-May

-Selection before July, Salzburg meeting

-Start ultimately by 1 October 2012

-DELAY

Proposed background: -Geoinformatics -Programming -Web-GIS



ER HIRING WAS A MAJOR PROBLEM

- ER01: no applicants
- ER02: 38 applicants, 8 suitable candidates, this week interviews with 3 candidates
- ER03: 1 suitable applicant (from NL). Probable change in host: 2 years TUDO.
- Two candidates were selected for positions ER02 and ER03.
- However as no certainty could be obtained from Marie Curie officers on the mismatch with requirements, we couldn't hire them
- We are now reconsidering how to recruit the Ers
- The requirements with respect to years of experience are too strict.



PUBLICATIONS

- Presentations at International Conferences
- Abstract book & posters of Special Session at EGU or GI Forum...
- At least 22 joint scientific publications in ISI journals.
- Co-authorship between ESRs and research groups is considered very important
- So far: 48 ISI publications, but only 2 directly from ESRs
- Conference papers: 54, of which 17 from ESRs
- Book chapters: 6 of which 1 from ESR.



MANAGEMENT ASPECTS

- Change of EC officer: from Maria Silvia Giannoni to Silvia Abad
- Change of Project manager: from Sabine Maresch to Marleen Noomen
- Project coordinator (Cees van Westen), Deputy coordinator (Dinand Alkema)
- WP leaders
- Steering committee, with representatives of ESRs (Tess Sprague) and associated partners (Stefan Jager)
 - Regular meetings
 - Minutes on website
- External advisory committee

Steering Committee Meetings

Kick-off meeting : January 2011 Enschede	Download
April 2011, Vienna	Download
September 2011, Poland	Download
March 2012, Padova, Italy	Download
September 2012, Buzau, Romania	Download





WEBSITE

www.changes-itn.eu

