MATRIX

SEVENTH FRAMEWORK PROGRAMME

Project number: 265138
Project name: New methodologies for multi-hazard and multi-risk assessment methods for Europe
Project acronym: MATRIX
Theme: ENV.2010.6.1.3.4 Multi-risk evaluation and mitigation strategies

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Signature 17.05.11
Date

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Date

Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

MATRIX Project
Kick-Off Meeting Report
GFZ – Potsdam, Germany
October 11-12, 2010

1. INTRODUCTION

The MATRIX Kick-off meeting was attended by participants representing all the project partners, except for the University of British Columbia for justified reasons.
Prof. Anne S. Kiremidjian (Stanford University), a member of the Advisory Board, attended the whole meeting.
Dr. Andrew Maskrey **(**Disaster Reduction Unit of the UNDP Bureau for Crisis Prevention and Recovery), a member of the Advisory Board, could not attend the meeting.

2. AGENDA

October 11th, 2010
09:00 Opening
09:30 General outline of the project (coordinator)

1. - General objectives
2. - Project structure
3. - Test sites/Virtual city
4. - Time table
5. - Budget

10:00 Presentation of Work Packages
10:00 **WP1**: Management (coordinator)
10:15 **WP2**: Single-type risk assessment and comparability (Parolai)
10:35 **WP3**: Cascade effects in a multi-hazard approach (Marzocchi)
10:55 **WP4**: Time-dependent vulnerability (Modaressi)
11:15 Coffee-break
11:45 **WP5**: Framework for multi-type risk assessment (Nadim)
12:05 **WP6**: Decision support for mitigation and adaptation in a multi-hazard environment (Patt)
12:25 **WP7**: "Virtual City" and test cases (Wiemer)
12:45 **WP8**: Dissemination/end users (Wenzel)
13:05 Interaction with other EU-projects (Gasparini)
13:30 Lunch
14:30 Parallel meetings of work packages (single or grouped)
16:00 Coffee break
16:30 Parallel meetings of work packages (single or grouped)
18:30 Close
20:00 Dinner

October 12th, 2010
09:00 General Meeting
09:00 Report on the separate WP-meetings (15 minutes each)
11:00 Coffee-break
11:30 General discussion and decision making

13:00 Close of General Meeting
13:30 Lunch
14:30 Meeting of the Management Team
15:30 Close

3. LIST OF PARTICIPANTS

	Name	Institution	e-mail
1.	Paolo Gasparini	AMRA	paolo.gasparini@na.infn.it
2.	Alfonso Rossi Filangieri	AMRA	alfonso.filangieri@na.infn.it
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5.	Tony Patt	IIASA	patt@iiasa.ac.at
6.	Stefan Hochrainer	IIASA	hochrain@iiasa.ac.at
7.	Friedemann Wenzel	KIT	friedemann.wenzel@gpi.uni-karlsruhe.de
8.	Eike Nolte	KIT	Eike-marie.nolte@kit.edu
9.	Michael Kunz	KIT	kunz@kit.edu
10.	Bernhard Mühr	KIT	muehr@kit.edu
11.	Pieter van Gelder	TU Delft	P.H.A.J.M.vanGelder@tudelft.nl
12.	Birgit zum Kley-Fiquet	DKKV	zum.kley@dkkv.org
13.	Roger Mrzyglocki	DKKV	mrzyglocki@dkkv.org
14.	Anne Kiremidijan	Standford University	ask@stanford.edu
15.	Arnaud Mignan	ETHZ	arnaud.mignan@sed.ethz.ch
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18.	Audrey Baills	BRGM	a.baills@brgm.fr
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28.	Reinhard Lohmann	GFZ	lohmann@gfz-potsdam.de
29.	Massimiliano Pittore	GFZ	pittore@gfz-potsdam.de

During the first part of the meeting, the following presentations were given:

- Project Outline (Jochen Zschau)
- Work-Package 1 Presentation (Jochen Zschau - GFZ)
- Work-Package 2 Presentation (Stefano Parolai - GFZ)
- Work-Package 3 Presentation (Warner Marzocchi - AMRA)
- Work-Package 4 Presentation (Arnaud Reveillere, Audrey Baills - BRGM)
- Work-Package 5 Presentation (Farrokh Nadim - NGI)
- Work-Package 6 Presentation (Tony Patt - IIASA)
- Work-Package 7 Presentation (Arnaud Mignan - ETHZ)

- Work-Package 8 Presentation (Eike Nolte – CEDIM/KIT)

All the aforementioned presentations will be available, with the consensus of the speakers, on the MATRIX webpage.

The WP Leader names have been officially communicated. They are as follows:

- Work-Package 1 (Jochen Zschau - GFZ)
- Work-Package 2 (Stefano Parolai - GFZ)
- Work-Package 3 (Warner Marzocchi - AMRA)
- Work-Package 4 (Arnaud Reveillere - BRGM)
- Work-Package 5 (Farrokh Nadim - NGI)
- Work-Package 6 (Tony Patt - IIASA)
- Work-Package 7 (Arnaud Mignan - ETHZ)
- Work-Package 8 (Friedemann Wenzel – CEDIM/KIT)

The second part of the first day was devoted to parallel meetings of the WPs.

The main outcomes of the WP meetings were presented during the second day of the meeting and can be summarized as follows:

4. Work-Package 1 Internal Meeting (Management Team Meeting)

The following points have been discussed and confirmed:

- An email will be sent to the WP Leaders to outline their responsibilities.
  The name of the leader of each task of the WPs must be given.
  The name of the researcher in charge of each deliverable must be given.
- The Project Management Team (PMT) will meet on a four-month basis. The meetings will be based on WP Leader Reports (2 pages) highlighting the main results of the period and the main problems.
- It is strongly recommended that, in case of problems, the WP Leaders inform the PMT as soon as possible.
- The first Management Team will be held in February, 2011.The first WP Leader reports should at least indicate what deliverables have been started and the name of the researchers hired specifically for the MATRIX project.
- The first Progress Meeting (Executive Committee) will be held in Vienna in April 2011 during the EGU Assembly.
- The First Year General Meeting will be held in Naples in Sept/Oct 2011.

5. Work-Package 2 Internal Meeting

The first half of the WP2 meeting was done in a joint session with WP3 in order to clarify a few issues about goals and aims of the different work packages. In particular, a clear link between the two work packages was identified and strategies for avoiding confusion and overlapping proposed.

In agreement with what discussed during the writing of the proposal, it was decided that risk, for each single type of hazard, as well as hazard, will be assessed without considering time dependence (for example, in the case of wind storms, the effect of climate change will not be considered). This would make easier the comparability of the results, especially with respect to the outcomes from other work packages where multi-risk and time-dependent vulnerability are considered.

The single type-risk comparison will be done considering whole risk curves and taking into account spatial variability of risk. That is, for the test sites, risk curves will be calculated considering the spatial variability of hazard and vulnerability. The spatial scale will be agreed with WP3.

It was proposed, and it will be investigated to see if this is possible, to also consider in the uncertainty propagation the effect of the spatial correlation of hazard and damages.

The risk comparison will be carried out in terms of economical losses for residential buildings and, if possible, for infrastructure.

Since different groups dealing with different natural hazards proposed different techniques for dealing with uncertainty estimation, it was decided that there will be a preliminary phase (~6 months) in which each group will test the method they propose. After this phase, based on the comparison of the obtained results, it will be decided if a common strategy can be used and which methods appear to be more suitable when dealing with the harmonized comparison of single type risk assessment.

The following Task Leaders have been appointed:

Task 2.1 S. Vorogushyn (GFZ)
Task 2.2 A. Reveillere (BRGM)
Task 2.3 S. Parolai (GFZ)

Researchers in charge of the deliverables are as follows:

Del. 2.1 S. Vorogushyn (GFZ)
Del. 2.2 A. Reveillere (BRGM)
Del. 2.3 S. Parolai (GFZ)

6. Work-Package 3 Internal Meeting

In this meeting, the participants to WP3 have discussed and agreed upon some starting points and actions to be taken.:

- The first part of the meeting was held with WP2 in order to define a common platform for hazard and risk assessment. We have agreed that, for each specific application made in WP7, we need to establish a common space and time grid. This has been identified as the first basic requirement in order to make different risks (and single risk versus multi-risk assessment as well) comparable.
- We agreed to release prototype versions of the deliverables before the scheduled deadline in order to facilitate the collaboration and interconnection with other WPs.
- We have identified the responsible persons for each partner of the WP3. Warner Marzocchi and Alexander Garcia Aristizabal for AMRA, the MATRIX team for BRGM, Sergey Vorogushyn for GFZ, Pieter van Gelder for TU Delft, Francisco Rego for ISA-CEABN, and Farrokh Nadim for NGI.
- Together with the responsible person for WP5 (multi-risk assessment), Farrokh Nadim (NGI), we agreed that deliverables D3.1 and D5.1 will be coordinated by AMRA in order to make them homogeneous.
- Warner Marzocchi will send to the participants a first version of the deliverable D3.1 for starting a feedback iterative process.
- Warner Marzocchi will send soon a template of each deliverable to the participants. The aim is to clarify the contribution expected by each partner.

The following Task Leaders have been appointed:

Task 3.1 W. Marzocchi (AMRA)
Task 3.2 W. Marzocchi (AMRA)
Task 3.3 W. Marzocchi (AMRA)
Task 3.4 BRGM MATRIX team

Researchers in charge of the deliverables are as follows:

D3.1 W. Marzocchi/ A. Garcia-Aristizabal (AMRA)
D3.2 W. Marzocchi/ A. Garcia-Aristizabal (AMRA)
D3.3 W. Marzocchi/ A. Garcia-Aristizabal (AMRA)
D3.4 W. Marzocchi/ A. Garcia-Aristizabal (AMRA)

7. Work-Package 4 Internal Meeting

The following main issues were discussed:

- Task 4.1.1: Time dependency
  - Mechanical issues
    - Ageing: distinguish seismic codes to material ageing
    - Accumulation of repeated damages
  - Modelling issues
    - Discrete events (e.g., disasters)
      - Positive effects (e.g., forest burnt)
      - Post-disaster time evolution
    - Continuous ones
      - Urban development
      - Reparation, reinforcement rates
      - Natural evolution (e.g., forest growth)
- Task 4.1.2: Vulnerability to conjoint hazards
  - Has to focus on realistic cases
    - Ash (or snow load) and earthquake
    - Taking into account saturated soils into landslide vulnerability
- Uncertainties
  - Idea was to make curves evolve (statistical evolution). Can we also model the way the knowledge of a system evolves with time?
- Relevant hazards
- Difficult calibration
- Task 4.3 Social and economical vulnerability
- Scaling up spatial impact with time
- Coping capacity = f(history of disasters)
- Evolution of different kinds of vulnerability (physical, functional, social, economical, identity etc.)

The following Task Leaders have been appointed:

Task 4.1 - Arnaud Reveillere – BRGM
Task 4.2 - Arnaud Reveillere - BRGM
Task 4.3 - Stefan Hochrainer – IIASA

Researchers in charge of the deliverables are as follows:

Del.4.1 Arnaud Reveillere – BRGM

Del.4.2 Arnaud Reveillere – BRGM
Del.4.3 Arnaud Reveillere – BRGM

8. Work-Package 5 Internal Meeting

The following main points have been discussed

- What natural hazard can cause what type of loss?
- Tangible and intangible losses
- Rational basis for comparing loss of life and economic loss.
- Experiments to determine what focus groups think in terms of priorities (risk perception). Naples would be a good case study.
- Ecological and environmental issues, e.g., biodiversity.
- Distribution functions for risk, especially the tails, are very interesting. Can we develop multi-variant distribution functions from the results of questionnaires from the focus groups?
- The human dimension of risk (WP 6) is essential in the decision-making process.
- We should do something interesting rather than something routine.
- Multi-risk assessment framework should be consistent with the multi-hazard (WP2) and time-dependent vulnerability (WP4) assessment methods (or vice-versa).
- WP5 meeting in Vienna, April 2011 (week of 3-8 April).
- Arranging the allocation of person-moths to each deliverable by the partners.

WP5 (**NGI**, name Farrokh Nadim), total PMs=49										
Deliverable	NGI	GFZ	AMRA	IIASA	ASPIN.	TU-D	ISA	UBC	**Total**	Lead
D5.1	0.5								**5**	AMRA
D5.2	4	5		1*	1	1			**15**	NGI
D5.3	0.5			3	1				**10**	IIASA
D5.4	0.5					3			**10**	TU-D
D5.5	2.5	5							**9**	NGI
total	8	10	8	3	2	4	12	2	**49**	

The following Task Leaders have been appointed:

Task 5.1 W. Marzocchi (AMRA)
Task 5.2 F. Nadim (NGI)
Task 5.3 T. Patt (IIASA)
Task 5.4 P. van Gelder (TU Delft)
Task 5.5 F. Nadim (NGI)

Researchers in charge of the deliverables are as follows:

Del. 5.1 W. Marzocchi (AMRA)
Del. 5.2 F. Nadim (NGI)

Del. 5.3 T. Patt (IIASA)
Del. 5.4 P. van Gelder (TU Delft)
Del. 5.5 F. Nadim (NGI)

9. Work-Package 6 Internal Meeting

- Task 6.1: Review of decision analytic methods for multi-hazards. This will basically be a literature review, bringing in insights from practice. KIT (Friedemann as contact point) will lead this Task, with support from TU-Delft (Pieter as contact point). There will be a telephone call between KIT and TU-Delft to discuss table of contents and assign writing tasks, by the end of 2010. They will produce a rough draft by month 8, June 2011, for review and comment by other partners. Final deliverable is due in Month 12, September 2011.
- Task 6.2: This will start with a literature review on risk perception and decision making heuristics and biases relevant to a multi-hazards case, and then lead into a decision-making experiment on individual decision-making in multi hazard situations. IIASA (Tony as contact point) will lead this. Gordon Woo from Aspinall expressed an interest in contributing to the experiment, while TU-Delft indicated that there is a PhD student there working on risk perception, and KIT indicated that a sociologist there might be interested in contributing, at least to the literature review part. Pieter and Friedemann will forward contact details for these two by the end of October, 2010. Tony will discuss with them by March 2011, and complete literature review by Month 12, i.e. September 2011. He will discuss the experiment with Gordon Woo at the first annual meeting.
- Task 6.3: This will be an empirically-based evaluation of the institutional context for multi-hazard risk management in two case study locations. IIASA (Tony contact point, Anna Scolobig as second researcher) will lead, with substantial support from BRGM (Audrey as contact point). Audrey will first check within BRGM on staff availability to help with the French West Indies case study, potentially involving staff at the local office. Tony will schedule a IIASA/BRGM conference call in month 6, April 2011. Following this, IIASA will a draft research protocol, by month 9 (July, 2011). Fieldwork will commence shortly after, and be finished and documented by month 21 (July, 2012). IIASA will the draft report by month 24, September 2012.
- Task 6.4: This will combine the institutional review from the previous task, the insights gained from tasks 6.1 and 6.2, and the case-study specific physical models assembled in WP7 to two cases, Naples and French West Indies. The purpose will be to gain insights into the value added from a multi-hazards perspective, relative to a single hazards perspective. It would likely to be valuable to include stakeholder involvement in the evaluation, such as a workshop. IIASA (Tony) will lead this task with greatest amount of support from KIT (Friedemann), as well as support from other partners (TU-Delft, BRGM, ETH, UBC). The first step will be to develop a more detailed scoping paper for the task; Friedemann will write a rough draft by month 6, Tony will organize a conference call to discuss it shortly after, and then revise by month 12, in time for consultation with other WPs at the annual meeting. One issue to investigate is the potential for local workshops, falling under the budget of WP7.

Estimated partner commitments in person months
IIASA: 19 total. 6 in task 6.2, 7 in task 6.3, 6 in task 6.4
KIT: 12 total. 6 in task 6.1, potentially 1 in task 6.2, 5 or 6 in task 6.4

BRGM: 5 total. 4 in task 6.3, 1 in task 6.4
TU-Delft: 4 total. 2 in task 6.1, 2 in task 6.4
ETH: 2 total. 2 in task 6.4
UBC: 2 total. 2 in task 6.4

To still think about
Synergies with the case studies work package, for tasks 6.3 and 6.4

Deadlines
October 2010
• TU- Delft and KIT to send risk perception contact details to IIASA
December 2010
• KIT and TU-Delft to scope out D6.1
March 2011
• IIASA will have discussed D6.2 with KIT and TU-Delft
• Audrey will have checked on BRGM staff for French West Indies case
April 2011
• KIT will have written draft scoping paper for task 6.4
• IIASA to schedule conference call to discuss
• IIASA / BRGM conference call for task 6.3
May 2011
• IIASA will lead conference call to discuss task 6.4 scoping paper
June 2011
• KIT and TU-Delft will have finished D6.1 first draft, partners to comment.
July 2011
• IIASA will finish task 6.3 research protocol for IIASA and BRGM
September 2011
• KIT and TU-Delft complete D6.1
• IIASA finishes literature review for D6.2
• IIASA revises scoping paper for task 6.4

The following Task Leaders have been appointed:

Task 6.1 F. Wenzel (Cedim/KIT)
Task 6.2 T. Patt (IIASA)
Task 6.3 T. Patt (IIASA)
Task 6.4 T. Patt (IIASA)

Researchers in charge of the deliverables are as follows:

Del. 6.1 F. Wenzel (Cedim/KIT)
Del. 6.2 T. Patt (IIASA)
Del. 6.3 T. Patt (IIASA)
Del. 6.4 T. Patt (IIASA)

10. Work-Package 7 Internal Meeting

- Task 7.1: The task corresponding to the building of a common IT platform for the MATRIX project has been discussed in term of its feasibility. Due to the limited resources and the still unidentified general end-users, it has been agreed that the

platform should not be a multi-risk modelling software. However, the platform should focus on the implementation, analysis and visualization of multi-hazard and multi-risk for the 3 test sites and the virtual city, where multi-hazard/multi-risk scenarios will be clearly defined in advance.

To develop a common IT platform means to build a homogeneous framework linking all WPs (on the tasks where test cases are used). First, focus should be made on the implementation of common databases and data exchange procedures. Regarding the implementation of hazard and risk calculators, concerns emerged on the fact that the different partners will use different kind of software, different programming languages and that some models (e.g. flood modelling) can be highly complex. The question still remains on how to resolve this issue. Options could include a direct plug-in of the software used by the different partners ("black boxes") or the development of result databases, supplied by the partners.

The cascading of multi-hazard/multi-risk effects and of uncertainties through the different risk modules (hazard WP3 / vulnerability WP4 / risk WP5) and therefore its impact on the IT platform architecture were not discussed.

Regarding the visualization of multi-hazard/multi-risk analyses, it was agreed that it should be part of the platform. It was suggested that it should be based on existing GIS solutions (which have to be reviewed) and that the visualization of uncertainty analyses should be possible. There was no discussion about compatibility between web-based visualization on the common IT platform and the website to be developed by WP8.

It was finally proposed that there should be an assessment of the IT requirements and a review of the existing solutions in the first 6 months of the project.

- Task 7.2: Depends directly on task 7.1 – On the creation of a Virtual City, it was agreed that a city should not be built from scratch, which would require a tremendous amount of work and deviate from the main purpose of the MATRIX project. It was proposed that the Virtual City should be based on an existing city, to keep it as realistic as possible, but with possible tuning of different parameters and input of different data sets. This could have two main purposes: sensitivity tests and analysis of cascading scenarios not possible in the 3 test sites but plausible in other European cities. While it seems more efficient to build the Virtual City at the building level, problems of aggregation/disaggregation might arise later on.

Finally, it was proposed that there should be an evaluation of the role of the Virtual City expected by the different partners, in the first 6 months of the project.

- Tasks 7.3 to 7.5: These directly depend on task 7.1 - Preliminary work on single hazard and single risk analysis exists for the 3 test cases. These results will be reviewed to understand what are the basic requirements for the development of the common IT platform.

Deadlines prior to month 6

- October 2010: ETHZ to contact ISA-CEABN, NGI, ASPINALL, UBC and IIASA to obtain the names of the primary contacts for WP7 and their expected roles in tasks

7.1 and 7.2

- October 2010: GFZ, BRGM and AMRA to send all available documentation regarding the 3 test cases to ETHZ (to get a first idea of the IT requirements for the 3 test sites and in extension, for the Virtual City)

- November 2010: ETHZ to send a questionnaire to the WP7 partners (users' needs assessment focusing on data and data exchange between different WPs and on the expected role of the Virtual City)

- November 2010: ETHZ to contact other WPs to agree on participation of WP7 in discussions/meetings related to tasks 2.1 (gathering of data for test cases), 2.3 (harmonization of hazard and risk), 3.4 (multi-hazard referencing system with interoperability with other modules) and 8.1 (web portal)

- December 2010: ETHZ to send 1-2 page progress report to Management Team

- January-April 2011: ETHZ to hire new IT staff (18 person-months) to build IT platform?

- April 2011 (meeting in Vienna): (1) Report on IT platform feasibility and proposed options. A prototype or at least a sketch of a simplified platform should be presented to illustrate the proposed common IT platform framework. (2) Report on Virtual City, how to create it and what are the applications offered to the other WPs

Task 7.1: Common IT framework for test case analysis
Coupled to D7.1: Report on the MATRIX common IT platform (M12)
Resp.: Arnaud Mignan (ETHZ) on scientific side + Phillip Kastli (ETHZ) on IT side

Task 7.2: Implementation and analysis of the Virtual City
Coupled to D7.2: Implementation and analysis of the Virtual City (M24)
Resp.: Arnaud Mignan (ETHZ)

Task 7.3: Implementation and analysis of the Naples test case
Coupled to D7.3: Report on Naples test case (M30)
Resp.: Warner Marzocchi (AMRA)

Task 7.4: Implementation and analysis of the French West Indies test case
Coupled to D7.4: Report on French West Indies test case (M32)
Resp.: Audrey Baills (BRGM)

Task 7.5: Implementation and analysis of the Cologne test case
Coupled to D7.5: Report on Cologne test case (M34)
Resp.: Kevin Fleming (GFZ)

The following Task Leaders have been appointed:

Task 7.1 Arnaud Mignan (ETHZ)
Task 7.2 Arnaud Mignan (ETHZ)
Task 7.3 Warner Marzocchi (AMRA)
Task 7.4 Audrey Baills (BRGM)

Task 7.5 Kevin Fleming (GFZ)

Researchers in charge of the deliverables are as follows:

D7.1 Arnaud Mignan (ETHZ)
D7.2 Arnaud Mignan (ETHZ)
D7.3 Warner Marzocchi (AMRA)
D7.4 Audrey Baills (BRGM)
D7.5 Kevin Fleming (GFZ)

11. Work-Package 8 Internal Meeting

The following points have been discussed

D8.1 MATRIX web site and web portal (KIT)

- Contact Helmut Wenzel (Syner-G) for web portal software
- Contact design & layout group at KIT for MATRIX LOGO and web site design
- Status of EU-MEDIN (Alfonso Filangieri, AMRA)

D8.2 Communication strategy (KIT)

- Project brochure according to the design developed in D8.1
- Annual newsletter according to the design developed in D8.1
- Presentation materials such as ppt on the MATRIX project
- Potential for other dissemination option such as multi-media presentation and social network will be explored

D8.8 Contacts to National Platforms I (DKKV)

- List of National Platforms and contact persons in EU countries
- First contacts established

D8.3 Guidelines for reference reports (KIT)

- List of reference reports to be developed within MATRIX
- Draft version of reference reports template disseminated

D8.6 Design of Semantic MediaWiki (KIT)

- Multi-Hazard / Multi-Risk Taxonomy for MATRIX
- Online template for reports and knowledge base content in general

D8.16 Material to the public (AMRA)

- Recommendations for the general public (AMRA: earthquakes, volcanoes; GFZ: Tsunamis) to be extended to different kinds of hazards

D8.9 Contacts to National Platforms II (DKKV)

- Progress in the interaction with international communities and platforms
- Meetings, presentations etc.

D8.4 MATRIX results I and reference reports

D8.7 MATRIX Semantic Wiki platform (KIT)

- Semantic platform up and running with ontology-based content

- Online template for reports and knowledge base content in general

D8.10 Contact with National Platforms III (DKKV)
- Progress in the interaction with international communities and platforms

D8.13 DRM Profiles (DKKV)
- Disaster management profiles for selected European Countries
- Selection depends on the cooperation of the relevant institutions and will be adapted in the course the project
- Development of questionnaire to obtain information of disaster management strategies on national level e.g. one country – one hazard

D8.11 Contact to National Platforms IV (DKKV)

D8.17 Course design and material (AMRA)
- Educational material for students and teachers, tested in selected schools
- E-learning and online tools

D8.18 Virtual laboratory (AMRA)
- Booklet on case study experiments for educational purposes to improve the prevention situation

D8.12 Contact to National Platforms V (DKKV)

D8.14 MATRIX result to Disaster Management Community (DKKV)
- Presentation of MATRIX results to selected platforms on national level
- Feedback from user community

D8.5 MATRIX results II and reference reports (KIT)

D8.15 Platforms and MATRIX community (DKKV)
- Performance evaluation of interaction between platforms and MATRIX community

D8.19 Vision paper (KIT)
- Identify knowledge gaps in the field of Multi-Risk and Multi-Hazard
- Serves as a road map for new EU research projects

The following Task Leaders have been appointed:

Task 8.1 Friedemann Wenzel (KIT)
Task 8.2 Friedemann Wenzel (KIT)
Task 8.3 Friedemann Wenzel (KIT)
Task 8.4 Roger Mrzyglocki (DKKV)
Task 8.5 Aldo Zollo (AMRA)