

Deliverable 1.7

D1.7 Minutes of Meeting of the RISE management board conducted

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Summary

This document is the third deliverable (D1.7), which summarizes the Management Board Meetings' Minutes. It contains the collection of six Management Board (MB) Meetings during the period between September 2020 and August 2021. It has been prepared by WP1 and reviewed by the MB.

MB meets every two months via teleconference. The following MB Meetings have been held during the abovementioned period:

- 6th MB Meeting on 07/09/2020
- 7th MB Meeting on 09/11/2020
- 8th MB Meeting on 11/01/2021
- 9th MB Meeting on 12/03/2021
- 10th MB Meeting on 01/07/2021
- 11th MB Meeting on 23/08/2021

The MB is in charge of the operational management (decision process, risk assessment, information flows) of the RISE implementation and of ensuring the cohesion of the whole RISE community. The members of the Management Board are as follows:

- Stefan Wiemer, ETH Zurich (RISE Coordinator)
- Banu Mena Cabrera, ETH Zurich (RISE Manager & WP1 Leader)
- Ian Main, UEDIN (WP2 Leader)
- Warner Marzocchi, UNINA (WP3 Leader)
- Iunio Iervolino, UNINA (WP4 Leader)
- Remy Bossu, EMSC (WP5 Leader)
- Helen Crowley, EUCENTRE (WP6 Leader)
- Danijel Schorlemmer, GFZ (WP7 Leader)
- Michele Marti, ETH (WP8 Leader)
- ❖ Florian Haslinger, ETH (EPOS Representative, present in some of the MB meetings)
- ❖ Max Werner, UNIVBRIS (Replacement for WP7 in the absence of D. Schorlemmer)

On some of the MB meetings, we invite RISE researchers for their contribution to specific topics. Such cases, guest attendees will be listed under each meeting agenda.

This deliverable is structured in six sections, each section dedicated to one MB meeting.

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1. MB Meeting 07.09.2020 - Meeting Minutes

1.1 Agenda

1. Update on the Amendment Package with RISE extension
2. Status of the Deliverables and Milestones
3. Work Package Update
4. Updated RISE Risk Register
5. EPOS Integration
6. Enhancing the involvement of Scientific Advisory Board in RISE (Mid-Term Report from SAB on RISE Progress)
7. Feedback to ZOOMing into RISE
8. Varia
9. Next MB Meeting

1.2 Meeting Minutes

1.2.1 Update on the Amendment Package with RISE extension

The amendment package is officially submitted to the EC, waiting for approval. It includes a number of items:

- The change in PMs of INGV and UNINA due to Warner Marzocchi's move from INGV to UNINA.
- Termination of STM from being a RISE Beneficiary
- Termination of OGS as linked third party, linked to INGV
- OGS Joining RISE as Beneficiary
- Request for 6 Months non-paid extension to RISE due to Covid19.
- Some other minor changes/corrections

1.2.2 Status of the Deliverables and Milestones

Deliverables submitted in August 2020

- D1.6 Minutes of the RISE MB Meetings
- D1.2 Project Management Plan Updated
- D2.2 Deployment of Prototype Array
- D8.2 Update PEDR

Milestones achieved in August 2020:

- MS08: Deployment of experimental arrays, effects of coupling, instrument characteristics and detectability of regional earthquakes

- MS13: Acquisition of portable impact generator and eccentric mass shaker; improvements to the capacity of the vibroseis truck
- MS23: Scheme of OEF model to include anomalies
- MS24: Defining testing experiments
- MS30: First draft of communication measures
- MS51: Review of ensemble modelling procedures in other fields
- MS46: Data object and format definition for exchange between modules

Deliverables and Milestones delayed:

As of September 2020, RISE has 1 delayed deliverable from WP5:

- D5.1 Review of best practice in communication of dynamic risk in all fields (delivery date May 2020) – Covid19 related delay

Milestones with delays:

- MS42: National Swiss Stakeholder Board Established (delivery date April 2020) – Covid19 related delay
- MS56: Community Agreement on requirements and technical baseline (delivery date May 2020) -- WP8 deliverable by P. Kastli
- MS37: Sensors set up and collecting data in buildings in Tokyo, Lourdes, Turkey, Valais (delivery date August 2020)—Covid19 related delay
- MS39: Upgraded EEW in Iceland Operational – IMO, not being able to reach the beneficiary
- MS48: Software development for tailored experiments completed (UNIVBRIS + GFZ)

1.2.3 Work Package Update

WP1:

Two deliverables of this WP has been submitted last month.

- D1.6 Minutes of the RISE MB Meetings
- D1.2 Project Management Plan Updated

WP2:

D2.2 Deployment of Prototype Array is submitted.

ZOOMing in to RISE on 3 September covered the progress of WP2 widely. The presentations will be shared in Alfresco.

WP3:

W. Marzocchi was in contact with modellers and he emphasizes that one year from now they should be able to release a code. WP3 works in close contact with WP7.

They discuss:

- How the model could be tested in purely prospective way
- Contacted with the person in INGV who is looking into impact of directivity in forecasting
- Task1: Not much interaction with non-seismic anomalies, need to keep them engaged.
- All models should be in a testable format

WP4:

WP4 had a meeting with OGS, as OGS will interact in a series of tasks in WP4. In October WP4 will present in ZOOMING into RISE. H. Crowley, E. Chioccarelli and E. Chatzi will present their work.

WP5:

Cambridge has a new hire currently working in Italy, out in the field making interviews. S. Dryhurst is having virtual interviews in Iceland.

WP6:

MS37 is delayed by 3 months - Task 6.1 is planning a tele-conference on 30th September to discuss progress. IMO partner is not responsive and issues with IMO are still not resolved. Task 6.4, Swiss Risk Model, lots of efforts are done in this task (e.g. Ms. Student working on landslides and impact on dynamic risk) but they need integration. For European Shake Map System S. Wiemer will talk to C. Cauzzi regarding hosting and next steps. S. Wiemer will look into how Google wants to do early warning.

WP7:

CSEP Toolbox first version is available. Currently tried by few modellers. Italy experiments are being prepared. 2 tailored experiments are ongoing at GFZ. One is b-value tailored experiment with hazard perspective in mind, to understand how can b-values be used to improve hazard assessment. Generic GMPE testing procedures ongoing. Large part of CSEP1 coming from USC. www.csep.org website is not mentioning of RISE, and the improvement of the website has to be discussed.

WP8:

D8.2 Update PEDR is submitted. Internal newsletter is released in June. External newsletter is being prepared. Irina is working on how to deal with misinformation. They drafted some guidelines. Testing of the webpage: INGV needs to contact with the civil protection. Not yet allowed to release the results of the testing.

1.2.4 Updated RISE Risk Register

The updated Risk Register is presented to the MB by the PM and the updates are discussed. MB keeps track of the risk register, raises red flags when there are foreseen risks, and seeks for ways to mitigate these risks. The text in bold shows the updates to the original risk register.

Risk number	Description of risk	WP Number	Proposed risk-mitigation measures "Update on measures taken during the first 12-Month of the project (see in bold)"
1	Technical risk -- Project duration of 3 years too short Potential Impact -- Failure to deliver in time and quality	WP1, WP2, WP3, WP4, WP5, WP6, WP7, WP8	Mature communities and partners; the time available before grant initiation sufficient to secure all required resources; MB monitors timely delivery implementation status. Use CE principles. Regular tracking is done by the MB and all WP leaders.
2	Technical risk -- Dependencies too strong between WPs Potential Impact -- Delayed delivery in one WP hindering progress in other WPs	WP2, WP3, WP4, WP5, WP6, WP7, WP8	Frequent communication and exchange between WP; alternative models/sensors available, MB monitors timely delivery implementation status. All tasks are performed in parallel in RISE, so far no interruptions due to dependencies are observed. The Implementation Plan supports the link between tasks and WPs. WP and joint WP meetings ensure the communication and coordination of inter-linked tasks.
3	Financial risk -- Underestimation of required resources for scientific developments (medium) Potential Impact - - Scientific contributions fail to be integrated, tested or distributed	WP2, WP3, WP4, WP5	RISE design based on the experience of past successful projects of comparable class; monitor spending closely, increase in-kind contributions if needed. RISE project benefits from in-kind contributions where needed.
4	Financial Risk -- Available resources spread too thinly, with too many WPs and beneficiaries (medium) Potential Impact -- Failure in maintaining the planned workflow and timeline	WP2, WP3, WP4, WP5, WP6, WP7	RISE design based on the experience of past successful projects of comparable class; monitor efficient and appropriate management, redistribute tasks between partners. RISE Office collects annual financial updates from all partners, to ensure the workflow, the timeline and the budget are maintained as planned.

5	Strategic risk -- Failure to integrate RISE services in EPOS (small) Potential Impact -- Long-term sustainability may not be achieved	WP8	RISE design done in close coordination with EPOS-IP, many individuals also have responsible roles in EPOS.
6	Strategic risk -- Disconnect between earthquake engineers & seismologist (small) Potential Impact -- Limited integration and reduced impact on risk reduction.	WP2, WP3, WP4, WP5	Each WP designed to be interdisciplinary. Use meetings for exchange and community building, rely on stakeholder panel to adopt end-user perspective. Regular WP and joint WP meetings are held.
7	Strategic risk -- Disconnect between natural scientists, social scientists and economists (small) Potential Impact -- Limited integration and reduced socio-economic impact	WP5, WP8	WPs designed to be interdisciplinary. Use meetings for exchange and community building, rely on stakeholder panel to adopt end-user perspective. Regular WP and joint WP meetings are held.
8	Strategic risk -- Failure to timely identify and mitigate risks (small) Potential Impact -- Potential risks are discovered too late to enable efficient recovery	WP1, WP2, WP3, WP4, WP5, WP6, WP7, WP8	Benefit from experienced WP leaders; MB to regularly update the Risk Register; monitor mitigation measures. MB meets every 2-months and discusses the status of the WPs, the pending deliverables and milestones for the next months ahead, discusses any issues that may cause potential delays and ensures the timely implementation of the project.
9	Strategic risk -- Underestimate ethical or privacy related risks (small) Potential Impact -- Improper use of data and products, lack of acceptance.		Rigorous application of the Ethical standards and guidelines of Horizon2020; monitor by MB and SAB. We prepared a Data Management Plan (DMP) and submitted to the Commission as D 1.16, which sets the rules for data used and produced in RISE. DMP is shared by all RISE partners.
10	Strategic risk -- Over-dependence on key individuals (medium) Potential Impact -- Lack of community building, poor involvement of partners	WP1, WP8	Adopt a management plan tailored to the complexity of the project and use MB, ExeCom to monitor overdependence. MB closely follows the proper involvement of all partners. Necessary actions are taken, when facing poor involvement of a RISE partner.
11	Strategic risk -- Reduced visibility and impact (medium) Potential Impact -- Failure in maximizing the impact	WP8	Use and regularly monitor key performance indicators, alert MB if goals are not met. PEDR (D 8.1) listing the KPIs and the updated PEDR (D8.2) which lists the improvement of KPIs by time are submitted to the EC.
12	Covid 19 – Delay in certain tasks, milestones and deliverables due to lock-down period	WP1, WP2, WP3, WP4, WP5, WP6, WP7, WP8	6 months project extension will be requested from the EC through an amendment.

1.2.5 EPOS Integration

Integration of RISE activities into EPOS services is widely stated in the RISE GA. We need to determine; which RISE services will be integrated into EPOS. There are a number of people in RISE who are involved in EPOS:

EPOS Service / TCS representatives, who are also part of RISE:

Florian Haslinger (EPOS TCS for Seismology)

Kristin Vogfjord (EPOS Volcanology)

Lauro Chiaraluce (NFO)

Stefan Wiemer, Hazard and Risk Service (EFEHR)

Remmy Bossu, Parametric Data (EMSC)
Carlo Cauzzi, Waveforms (ORFEUS)
Danijel Schorlemmer (CSEP)
Laurentiu Danciu (EFEHR Secretary, representative in EPOS-Seismology Consortium)
Helen Crowley (EFEHR ExeCom, representative in EPOS-Seismology Consortium)

We will organize an “EPOS-RISE Integration Meeting” in October/November, where people above will be invited to discuss a roadmap for future work. This meeting will also provide the basis for D1.13, which is due Month-18.

1.2.6 Enhancing the involvement of Scientific Advisory Board in RISE

RISE Annual Meeting had to be cancelled because of Covid19. SAIPB meeting was going to take place during the Annual RISE Meeting. As a replacement to the annual RISE Meeting, we hold a new meeting series ZOOMing into RISE, where every two weeks a WP updates the RISE community of certain activities of that WP. Members of the SAIPB are invited to join these virtual meetings, however the timing is not favourable for most of the international partners. SAIPB is an important part of RISE, and it is necessary that our international partners are aware of our research and activities. There is also a deliverable D1.13 at Month 18, which is “Mid-term report of the Scientific Advisory Board”. We therefore will offer a special virtual meeting to the SAIPB, where all WP leaders will present their work and answer questions. PM will organize such meeting and will send a doodle to all WP leaders to pick a date.

1.2.7 Feedback to ZOOMing into RISE

Overall, we have positive opinions from all WP leaders about this meeting. An hour long meeting is found efficient, with 2-3 short presentations and time for questions. There were quite a few questions for all three presentations from WP2, which justifies the importance of allowing time for Q&A.

1.2.8 Varia

The financial summaries are requested from all Beneficiaries. We aim to collect this data from all Beneficiaries by the end of September, and will share the outcome in the next MB meeting.

1.2.9 Next MB Meeting

The next MB meeting will be on the 9th November at 10 am.

2. MB Meeting 09.11.2020 - Meeting Minutes

2.1 Agenda

1. Changes that come with the Amendment Package being accepted and fully in force
2. Work Package Update
3. Financial Summary for the first 12 Months and the Cumulative Expenditure Report
4. Horizon Results Booster
5. Preparation for the SAB Meeting on December 17
6. Plan for the next round of ZOOMing into RISE and RISE General Assembly
7. Various Items
8. Next MB Meeting

2.2 Meeting Minutes

2.2.1 Changes that come with the Amendment Package being accepted and fully in force

The Amendment Package submitted to the EC is fully signed on 29.09.2020. The Amendment Package includes the following items:

- The RISE Project is extended by 6 months, because of delays in certain tasks and milestones due to Covid lockdown. The new end date of the project is 28.02.2023. As a consequence, the following changes are made to the GA:
- All the deliverables and milestones starting from M12 are shifted by 6 months.
- The first reporting period is moved to M24.
- Three new deliverables (D1.17, D1.18, D1.19) "Cumulative Expenditure Report" are added, with deadlines in December 2020, 2021, 2022.
- The role of OGS as a linked third party, linked to INGV, is terminated. OGS became a full Beneficiary. In addition to their original work plan in WP2, OGS has now more PMs with new tasks within WP4.
- The Beneficiary STM is terminated. Their role in RISE is shared by QUAKE, ETH and GFZ.
- Due to the change in faculty position of Prof. Warner Marzocchi from INGV to UNINA, transfer of tasks, milestones and related PMs has been applied to the GA.
- Due to the retirement of Prof. David Spiegelhalter from UCAM, his role is replaced by A. Freeman.

2.2.2 Work Package Update

WP2:

- A paper is published on earthquake recurrence models.
- Extended discussions ongoing with WP3 for using high resolution catalogues
- For exposure model, D. Schorlemmer will soon have the first product ready.

WP3:

- In close collaboration with WP7, working on a common format for models
- Designing new style experiment for Italy:
What is the best way to deliver the output for the new suit of tests?
Once format is defined, the modellers will have a template to use for the first experiment

- A document is prepared, where there is the input data for the Italian experiment. Main features such as “where can every modeller download catalogues from”, are documented.

WP5:

- Working on finalising the analysis for the Albanian earthquake.
- Working on-site for EEW.
- UCAM will deliver D5.1 in mid-November, for revision by R. Bossu.

WP6:

- There is progress on European Shake Map System
- WP6 presented in last week’s ZOOMing into RISE, and activities are going well on track.
- Task 6.1 meeting was held and C. Nievas prepared a template to collect data from all partners on the sensors in buildings that will be used in RISE project. There is an upcoming Milestone on sensors in buildings, which is delayed to Feb 2021, with the project being extended.
- A meeting with K. Vogfjord from IMO has been held, discussing various future work IMO will be doing in RISE. IMO will hire a post-doc soon, to start working for RISE.

WP7:

- Distribution of the CSEP software will be released soon.
- Premature results on resolution of tests
- Pablo is working on implementation of testing software for the Italian experiment
- Working with WP3 on ensemble modelling, reviewing the ensemble models for other cases such as Covid.
- CSEP website still needs improvement, and emphasis on RISE. Actions need to be taken.
- Damage information on Greek buildings from the recent Turkey-Greece quake, can be used for the Greek exposure model.
 - H. Crowley informed us after the MB Meeting that she has asked A. Pomonis, who is working with the World Bank’s GFDRR on this event, if he has any Greek damage data. We will follow on this request.

WP8:

- 2nd External newsletter was released.
- Turkey-Greece earthquake will be added as news to the next external newsletter.
- Internal newsletter will soon be released. Any contributions or news to share can still be sent to M. Marti or N. Valenzuela.
- MS56 is delayed, and communication between M. Marti, B. Mena and P. Kastli will be planned to resolve it.

2.2.3 Financial Summary for the first 12 Months and the Cumulative Expenditure Report

- Feedback from QUAKE is needed for the financial update. D. Schorlemmer will get in touch with QUAKE.
- Some of the partners used too little of their funding such as IMO, GFZ, UBRIS. We need to make sure that necessary new hires will happen, and the budgets are used as planned over the timeline of the project.
- Some partners (EUCENTRE, EMSC) used almost or more than half of their budget but gave reassurance that the work will be done as planned throughout the entire project.
- Every December we will deliver a “Cumulative Expenditure Report”, and we will ask all partners to provide their data.

2.2.4 Horizon Results Booster

This is a support service for H2020 Projects from the EC, mainly focusing on dissemination and exploitation of the projects. We applied to this service in a joint application, together with TURN-Key, and recently got the acceptance. We will be supported by an external company hired by the EC in creating a common Results Portfolio. The service includes a comprehensive mapping of the relevant stakeholders/targeted audience for the particular portfolio. This support will start in April 2021, and will continue throughout the project. Both project's PMs and Communication/Dissemination Officers will be involved.

2.2.5 Preparation for the SAB Meeting on December 17

2.2.6 Various Items

The main idea for this meeting is to update the SAB members of RISE activities and progress, in replacement to the Annual RISE meeting, which had to be cancelled. SAB has a deliverable report, which will summarize their opinion on RISE project and our performance, due before the end of the first reporting period. This meeting aims to support this deliverable.

PM will send to the MB a draft Agenda for this upcoming 2-hour meeting (17:00-19:00 CET). The meeting will be recorded for the Japanese partners, who will not be able to attend because of the time difference.

2.2.6 Plan for the next round of ZOOMing into RISE and RISE General Assembly

ZOOMing into RISE first round will end in November 2020 with WP7 and WP8 presentations. All members of the MB find these meetings very successful and useful for the progress of the project, therefore we decided to keep these meetings going. The 2nd round of ZOOMing into RISE will start with WP2 in January 2021. We will keep with similar timing (every other Thursday at 10 AM). A draft schedule for the 2nd round of ZOOMing into RISE will be sent to the MB by the PM.

2.2.7 Various Items

No further topics were raised.

2.2.8 Next MB Meeting

The next MB meeting will be on the 11th January at 10 am (CET).

3. MB Meeting 11.01.2021 - Meeting Minutes

3.1 Agenda

1. Update on milestones and deliverables
2. Work Package Update
3. Plan for the 2nd round of ZOOMing into RISE
4. Planning for RISE Mid-Term Conference on 26-27-28 May 2021 in Florence, Italy
5. Various Items (views on SAB meeting, change of PO, etc.)
6. Next MB Meeting

3.2 Meeting Minutes

3.2.1 Update on milestones and deliverables

<input type="checkbox"/>	MS39: Upgraded EEW capability in Iceland operational	System operational, check ExeCom	Sun 28 Feb 2021		Normal	Not Started	0	Lead Beneficiary: IMO, Linked to WP6 Old deadline: 31/8/2020	DELATED.docx	
<input type="checkbox"/>	MS48: Software development for tailored experiments completed	Software tested, check WP lead	Sun 28 Feb 2021		Normal	In Progress	0	Lead Beneficiary: UNIVBRIS, Linked to WP6 & WP7 DELAYED Old deadline: 31/8/2020	DELATED.docx	
<input type="checkbox"/>	MS37: Sensors set up and collecting data in buildings in Tokyo, Lourdes, Turkey and Valais	Stations online, data streaming, check by WP lead	Sun 28 Feb 2021		Normal	Not Started	0	Lead Beneficiary: QUAKE, Linked to WP2 & WP6 DELAYED DUE TO COVID19 Old deadline: 31/8/2020	DELATED.docx	
<input type="checkbox"/>	MS24: Defining testing experiments	Test defined and checked by ExeCom	Sun 28 Feb 2021		Normal	Not Started	0	Lead Beneficiary: GFZ, Linked to WP3 Old deadline: 31/8/2020	MS24.docx	
<input type="checkbox"/>	MS10: Hardware and software for indoor and outdoor sensor, first test deployment	Prototype running and validated by WP leader	Mon 31 May 2021		Normal	Not Started	0	Lead Beneficiary: QUAKE, Linked to WP2 & WP6 Old deadline: 30/11/2020		
<input type="checkbox"/>	43) D5.1 Review of best practice in communication of dynamic risk in all fields	Risk communication is an important part of many fields, from healthcare to health and safety, and there are many pockets of good practice and research that have been stuck within the silos of one field before being discovered and applied in another. It is thus particularly important in this field for the team to carry out a systematic review of all academic literature and as much grey literature as possible to ensure that all lessons are learned from any prior work in the communication and quantification of dynamic risk. The resulting review will be prepared for publication in an academic journal as well as being made publicly available online.	Mon 30 Nov 2020		Alexandra Freeman	Normal	Complete	100	Report [Initially M9, new deadline M15]	Deliverable_5.1.pdf
<input type="checkbox"/>	79) D1.17 Cumulative Expenditure Report 1		Thu 31 Dec 2020		Banu Mena Cabrera	Normal	In Progress	50		Deliverable1.17.pdf
<input type="checkbox"/>	20) D2.4 Field ready internal next generation sensors	A new generation of affordable, connected seismic sensors will be developed within the RISE project. The delivered IoT devices will be field-ready for self-sufficient outdoor and indoor deployment, and bring easy installation to many different working environments.	Mon 31 May 2021		Marius Isken	Normal	Not Started	0	Other [M15] Old deadline: 30/11/2020	

- **MS48: Software development for tailored experiments**
The discussion on this milestone is going on, and there is not yet a complete view. b value estimation and future observations need tailored experiments. W. Marzocchi will talk to L. Gulia if they can test the model. D. Schorlemmer will set up a meeting involving M. Werner (UNIVBRIS), L. Gulia and S. Wiemer.
- **MS39: Upgraded earthquake early warning capability in Iceland.**
A reminder email sent to IMO by the PM. No response yet, Stefan will contact Kristin this week, to check on the status on the hiring process and the pending milestone.
- **MS37: Sensors set up and collecting data in buildings in Tokyo, Lourdes, Tokyo and Valais**
C. Nieves is leading this milestone and will deliver timely.
- **MS24: Defining testing experiments**
The tests were defined (Italy and global/Europe).
- **Hardware and software for indoor and outdoor sensors, first test deployment**
No delays are foreseen.
- **D5.1: Review of best practice in communication of dynamic risk in all fields**
Submitted by UCAM in November 2020.

- D1.17: Cumulative Expenditure Report 1
Submitted by WP1 in December 2020.
- D2.4: Field ready internal next generation sensors
No delays are foreseen.

3.2.2 Work Package Update

WP2:

There will be 3 speakers for the next ZOOM meeting.
Ready to submit a paper on testing protocols as part of the innovation.

WP3:

WP3 is working with WP2 and WP7. A joint meeting is planned in February which will provide basis for the next deliverable.

WP4:

Ongoing work on state dependent fragilities for Europe in good progress.
All tasks are progressing well in general, however I. Iervolino raised some concerns on the lack of progress for Task 4.5 and the leading Turkish partner being not very responsive.
There will be a Task 4.6 CBA meeting on 20 January, focusing on building instrumentation.

WP5:

Collected 15k felt reports for the mainshock of Croatian earthquake. App crashed many times. It was a good test for dynamic risk communication.
There is an SRL paper under preparation on felt reports with M. Boese.
There will be a session in SSA on how to integrate USGS Shakemaps.
Remy will prepare an article for the next RISE Newsletter.

WP6:

WP6 is progressing well. Quake sensors are deployed in Grenoble and Montenegro. European Shakemap system is up OELF application is progressing. IMO's participation is pending.

WP7:

Italy testing centre is progressing, manuscript is being written on 10 years of testing for Italy.
There will be special session at SSA and EGU coming up, encouraging modellers to participate.
Joint workshop with WP2 and WP3 is planned for February. There will be 3 step workshop on 3 Tuesdays in Feb. There will be update from modellers as well as how to put the models into testing in CSEP will be discussed.

WP8:

WP8 is progressing on track.

3.2.3 Plan for the 2nd round of ZOOMing into RISE

The following plan is decided:

	Time
WP2	4 Feb @ 11 AM
WP3	18 Feb @ 10 AM
WP4	4 March @ 10 AM
WP5	18 March @ 10 AM
WP6	1 April @ 10 AM
WP7	15 April @ 10 AM
WP8	29 April @ 10 AM

3.2.4 Planning for RISE Mid-Term Conference on 26-27-28 May 2021 in Florence, Italy

The meeting will likely be virtual. B. Mena, S. Wiemer and M. Marti will come together and discuss on how to plan a successful virtual meeting. There are plenty of tools available for virtual meetings. We will search and evaluate different tools. We will plan breakout sessions. Project Management team will work on a draft agenda in the coming weeks.

3.2.5 Various Items (views on SAB meeting, change of PO, etc.)

SAB meeting aimed at informing the international partners of our activities since the start of the project. Overall there was positive feedback from the SAB members on this meeting.

B. Mena informed the MB of the change of Project Officer in the EC.

3.2.6 Next MB Meeting

Next MB meeting will be on 12 March at 10 AM.

4. MB Meeting 12.03.2021 - Meeting Minutes

4.1 Agenda

1. Update on milestones and deliverables, with focus on delayed milestones:
2. Work Package Update
3. Planning for an online RISE Mid-Term Conference on 26-27-28 May 2021
 - Draft Agenda, timing, parallel sessions, SAB Meeting, Stakeholder Panel Meeting, General Assembly Meeting
4. Next MB Meeting

4.2 Meeting Minutes

4.2.1 Update on milestones and deliverables

- MS39: Upgraded earthquake early warning capability in Iceland.
The issues with IMO have not yet been resolved. Stefan tried to reach out K. Vogfjord with a few options such as redirecting the IMO budget etc. There has not been any correspondence yet.
- MS42: S. Wiemer, B. Mena and M. Marti will meet to discuss how to move forward in the SP.
- MS56: S. Wiemer will talk to P. Kastli about the status of this milestone.

4.2.2 Work Package Update

WP2:

- They are installing OEF system instruments.
- They are collaborating with WP7 in organizing the joint meeting. WP3 will present the new CSEP experiment in Italy.
- There has been progress in developing basic reference model. There is a need for a reasonable community agreed model, which can be used for regions with different levels of seismicity. The goal is to have consensus on a European Reference Model.

WP4:

- Tasks 4.1 and 4.2 are working on developing state-dependent fragility curves to update the OELF procedure to account for damage accumulation. It is done for RC buildings in Italy, now they are working on masonry buildings. After the state-dependent vulnerability, they will work on including dynamic exposure.
- Task 4.3: Working towards including resilience assessment in OELF.
- Task 4.4: Monitoring of structures. They are working with OGS.
- Task 4.5: Progress is made by BOUN. They are starting dynamic modelling of the building in Istanbul.
- Task 4.6: CBA work can be applied for the building in Grenoble, which is instrumented by conventional instruments and new Quake sensors will be deployed for comparison. Potential study on CBA and SHM has been investigated. The challenge is how to monetarize the time. QUAKE-Saver gave an update on their production line, and the timeline.

WP5:

13.08.2020

- UCAM is developing OEF visualisation and communication products. They don't have any useful data to run surveys. Shyam and Leila can produce forecasts for Switzerland and Warner can provide for Italy.
- UCAM will run an expert experiment on the next ZOOMing into RISE meeting of WP5, to start the discussions with expert audience.
- We need to reach out the SP (Civil defence, disaster prevention, risk managers,) with products.

WP6:

- MS37 is delivered (Task 6.1).
- Problems with communication with IMO are discussed.
- They are preparing for the next ZOOMing into RISE.
- S. Wiemer will present dynamic risk activities in Switzerland.
- Helen will present how they are using the ShakeMap System for European RLA.

WP7:

- Preparing for WP2-3-7 modelling & testing workshop. They will meet every Tuesday evening.
- There will be discussions on Py-CSEP experiment.
- There will be updates from modellers.
- Aim is to get the modellers start testing their models using CSEP framework.
- Bristol is doing prospective testing of hybrid models. They are investigating high-resolution catalogues for physics based models. They are working on ETAS type models for induced seismicity.
- Italy experiment is finished for time independent models. Now they start implementing short term model.

WP8:

- WP8 is going to publish the next Internal Newsletter in April.
- Mid-Term Conference will be announced on the Newsletter.

4.2.3 Planning for an online RISE Mid-Term Conference on 26-27-28 May 2021

S. Wiemer, B. Mena and M. Marti will prepare a draft and will circulate it to the MB in the next two weeks.

4.2.4 Next MB Meeting

14 April at 10 AM (CET). The next MB meeting will focus on the organization of the Mid-Term Conference and the Stakeholder Panel Meeting.

5. MB Meeting 01.07.2 021 - Meeting Minutes

5.1 Agenda

1. Upcoming deliverables and milestones due 31 August 2021
2. RISE services to be integrated in EPOS
3. Work Package Update
4. Mid-Term Report
5. Plan for the next RISE Meetings
6. Issues with IMO
7. Varia
8. Next MB Meeting

5.2 Meeting Minutes

5.2.1 Upcoming deliverables and milestones due 31 August 2021

Deliverables:

- D1.7 Minutes of Meeting of the RISE management board conducted (B. Mena)
- D1.14 Mid-term report, including impact assessment and updated risk register (B. Mena & All)
- D1.13 Strategic integration of RISE activities with EPOS-IP (B. Mena)
- D2.1 Large-scale DAS logistic feasibility study on new applications (A. Fichtner)
- D2.8 Progress of new generation catalogues for public dissemination (L. Chiaraluce)
- D2.11 Technical solutions on open, dynamic, high volume, cloud-based services (C.Cauzzi)
- D5.2 Evaluation of current communications pathways to public and to policy-makers in Italy, Switzerland, and France (A. Freeman)
- D5.3 Designing & implementing the seismic portion of dynamic risk communication for long-term risks, variable short-term risks, early warnings (A. Freeman)
- D8.4 Description of standards for dynamic risk services (P. Kastli) -> possible delay
- D8.11 External Newsletter released (M. Marti)

Milestones:

- MS10: Hardware and software for indoor and outdoor sensor, first test deployment (pending, due May 2021, Quake, WP2 & WP6)
- MS62: First Training workshop conducted (ETH, WP8)
- MS31: Launch Field evaluation (UCAM, WP5)
- MS04: Midterm-conference (Done)
- MS18: Finalisation of the whitepaper and selection of the preferred technical solutions (KNMI, WP2&WP8)
- MS57: First version of standardized exchange protocol released (ETH, WP4,5,6,7,8)
- MS34: Development of a new version of Boxer code particularly suited for web questionnaires (UNIBO, WP5&6)
- MS09: Urban DAS array fully operational in a city (ETH, WP2&6)
- MS60: 15th publication related to RISE submitted (Oct, 2021)

5.2.2 RISE services to be integrated in EPOS

- S. Wiemer explained the discussion he had recently with a few other researchers on the next European call that is supposed to build the next generation European services. He mentioned that RISE related services should be integrated.

- D1.13 Strategic integration of RISE activities with EPOS-IP (due August 2021)

Will summarize how RISE is interacting with EPOS, providing a quick update on which services will potentially be integrated to EPOS.

RISE Connection with EPOS:

F. Haslinger explained how we can plan for some of the RISE services to be integrated to EPOS.

Compatibility with the EPOS-ICS Architecture: IT standards and protocols should be in parallel with ICS developments.

There are mainly two EPOS Thematic services we will be looking at:

1) Seismology

2) New Fault Observatories (NFO)

In this deliverable, we will write an integration plan with ICSC. We will focus on integration with Thematic Core Services (TCS) that are relevant; seismology and NFOs. From there we take it into ICSC integration. S. Wiemer mentioned some concerns on the scale of services developed within RISE that can be integrated into EPOS. EPOS has services at European level. Some RISE services will be at national level such as (OELF in Italy, or EEW in Switzerland...). F. Haslinger stated that in EPOS there are also some services with very small geographical coverage, so it is the decision of the RISE community, whether to bring such national level services and integrate to EPOS. If a national service may be useful for others in terms of data/information etc. it could be integrated.

In this deliverable we will look at each potential service: Shakemap (WP6), European Rapid Impact Assessment (WP4), Crowd Services (WP5), Validation services (WP7).

Some of these services are for scientists, some of them are for other stakeholders such as civil protection, agencies... Software may be targeted more to scientists, while some of the services will target nationally like national RLA, national Shakemap etc. The services can be operational or at prototype level.

W. Marzocchi raised some concerns on providing real time services that intersect with national services. Releasing data in real time could be sensitive. For example, if we release real time out-comes of OEF, that are delivered by INGV or other national agencies, it is a problem. International services that overlap with national services may create conflicts. But this issue is ongoing discussion in EPOS as well and not fully resolved.

S. Wiemer and F. Haslinger will write a vision document and will circulate a draft to relevant people (R. Bossu, H. Crowley, M. Werner).

5.2.3 Work Package Update

WP2:

WP3 team is working on the Mid-Term Report. All activities are on track. Model development forecasting testing workshops were very useful. There can be another one, focusing on velocity changes, interferometry, standard techniques to detect an anomaly.

WP3:

WP3 is working on the Mid-Term Report. Main WP3 deliverable is in February, that is mainly the codes. There will be a report and the codes. The report will include where to retrieve the data for Italy, with different catalogs, rules of the game for testing the models in Italy.

Task 3.4: what can we get from Bedretto experiment for OEF. Antonio will start making a first comparison of differences between induced and natural seismicity.

Task 3.1 Precursors. It is a bit pre-mature. Not ready for prime-time to be included for OEF.

Task 3.5 workshop will be the main deliverable for this task.

WP4:

There are 7 deliverables for WP4, first one is in February next year. WP4 is working on the mid-term report.

They are working on the list of exploitable results:

- Database of European Building Exposure Models
- Database of European Capacity Curves
- Open-source tools for the aggregating exposure models for higher resolution
- Open-source software to develop fragility and vulnerability models using European capacity curves

WP5:

WP5 completed their part on the Mid-Term report. D5.8 is submitted (a joint deliverable with TURN-KEY) earlier than the deadline (August 2022). Paper on early warning was rejected for a lack of ethical oversight" related to an online EQN users' survey although no private data were collected and having provided the positive evaluation of the ethical committee of the Bergamo University. The paper is now submitted to SRL. Two deliverables are expected from Cambridge that are due August (D5.2, D5.3), one is already finalized under the review of Remy. There are no concerns if delays for these two deliverables.

WP6:

After the Mid-Term Conference WP4-WP6 had a meeting on the developments to the European ShakeMap with C. Cauzzi, I. Iervolino, E. Chioccarelli to discuss additional intensity measure types we need and implications of that from the software point of view. H. Crowley raised the question of what WP6 should produce within RISE in terms of European RLA? For Switzerland P. Kastli is putting together the software and workflow to store data and data-bases of the shakemap data, exposure and vulnerability, losses...

How are we going to do this also at European scale?

The next step is to use this database to produce web services, maps, dashboard or pdf with results etc. H. Crowley initiated a discussion on how the product of WP6 will look like in the end. Shall we consider extending what P. Kastli is doing for Switzerland to the European scale and have that as a product within RISE? We can demonstrate that we have all the pieces (Shakemap, expo-sure, vulnerability RLA maps...). S. Wiemer mentioned that we may not have everything operational, but we can offer various solutions.

WP7:

Work is ongoing with psCSEP python toolkit for earthquake forecast modellers. Another tutorial is now available for modellers of WP3. There is a paper at an advanced stage that s describing the toolkit. Another paper will be written describing the tutorial component of the toolkit (SRL).

They are working on a plan for a reproducibility package: papers that publish CSEP results will have access via Zenodo to reproduce results.

WP7 had a meeting on definition of global CSEP experiment. The Italian experiment is making good progress. CSEP experiment at the European level is still an ongoing discussion.

WP8:

WP8 is on track regarding communication part. Michele mentioned her concern about the IT deliverable Philipp is in charge:

D8.4 Description of standards for dynamic risk services (P. Kastli)

5.2.4 Mid-Term Report

All WPs started contributing to the live google document with a few exceptions. So far WP7 contribution is lacking due to D. Schorlemmer not being active at the moment. M. Werner agreed to take over that leadership and reach out WP7 task leaders to provide input to the Mid-Term report. Part of IMO will be left empty. The PO is aware of the issues we are having with IMO's participation in RISE. In the next MB meeting in August, we will have a complete version of this deliverable. We aim to finalize it a week before the deadline so we can review the document and provide an executive summary before submission.

5.2.5 Plan for the next RISE Meetings

- 3rd round of ZOOMing into RISE

We will keep on with ZOOMing onto RISE in September 2021. We will limit it to 2 presentations to allow time for discussion. We will also focus on cross-cutting tasks.

- Early Career Scientists Meeting in Autumn-Winter 2021 (Naples or Berlin):
focus on models, testing, implementation (WP2,3,7)

It is decided to hold such meeting in Naples in November/early December.

- Meeting on Products & Services (maybe combined with the SP meeting)
Stakeholder Panel (SP) Meeting in Autumn-Winter 2021 (combined meeting for international + Swiss Stakeholders, virtual)

Banu, Michele and Stefan will have an initial plan and will then include Helen to work on the logistics.

- RISE General Meeting in April/May 2022 (Florence)

This is accepted by everyone.

- Plan for the workshop on experts' judgments in OEF (preparation for D3.5 due Nov 2022)

Warner and Stefan will discuss the details for this workshop.

- RISE Final Conference in January 2023 (Davos)

This is accepted in principle by all.

5.2.6 Issues with IMO

B. Mena had a call with K. Vogfjord. She promised to respond to the latest email of Stefan and will provide some suggestions on IMO's participation.

5.2.7 Varia

No other issues were raised.

5.2.8 Next MB Meeting

Next MB meeting will be on 23 August @ 10 AM (CEST).

6. MB Meeting 23.08.2021 - Meeting Minutes

6.1 Agenda

1. Upcoming deliverables and milestones due 31 August 2021
2. Work Package Update
3. Mid-Term Report Review
4. Periodic Reporting due 31 October 2021
5. Review of the next RISE Meetings
6. Varia
7. Next MB Meeting

6.2 Meeting Minutes

6.2.1 Upcoming deliverables and milestones due 31 August 2021

We discussed the status of the deliverables and milestones to be submitted end of August. The leading persons for each deliverable reported that they will be able to submit on time. We only expect a possible delay for D8.4, however IT team is working on it.

This month's milestones are mostly achieved with a couple of exceptions. MS62 is delayed due to Covid, as it was related to a 3-day workshop for young researchers. The details of this milestone and how to best achieve that is further discussed under agenda item 5. MS57 is under preparation and may be slightly delayed.

Deliverables:

- D1.7 Minutes of Meeting of the RISE management board conducted (B. Mena)
- D1.14 Mid-term report, including impact assessment and updated risk register (B. Mena & All)
- D1.13 Strategic integration of RISE activities with EPOS-IP (B. Mena)
- D2.1 Large-scale DAS logistic feasibility study on new applications (A. Fichtner)
- D2.8 Progress of new generation catalogues for public dissemination (L. Chiaraluce)
- D2.11 Technical solutions on open, dynamic, high volume, cloud-based services (C. Cauzzi)
- D5.2 Evaluation of current communications pathways to public and to policy-makers in Italy, Switzerland, and France (A. Freeman)
- D5.3 Designing & implementing the seismic portion of dynamic risk communication for long-term risks, variable short-term risks, early warnings (A. Freeman)
- D8.4 Description of standards for dynamic risk services (P. Kastli)
- D8.11 External Newsletter released (M. Marti)

Milestones:

- MS10: Hardware and software for indoor and outdoor sensor, first test deployment (pending, due May 2021, Quake, WP2 & WP6)
- MS62: First Training workshop conducted (ETH, WP8): Not done, early career scientists meeting can include the @winter school?

@winter school: A 3-day workshop focused on training of young scientists in interdisciplinary and dynamic risk assessment, presenting introductions to the methodologies, and tools. This workshop will be hosted in the form of a summer or winter school.

- MS31: Launch Field evaluation (UCAM, WP5)
- MS04: Midterm-conference (Done)
- MS18: Finalisation of the whitepaper and selection of the preferred technical solutions (KNMI, WP2&WP8)
- MS57: First version of standardized exchange protocol released (ETH, WP4,5,6,7,8)
- MS34: Development of a new version of Boxer code particularly suited for web questionnaires (UNIBO, WP5&6)
- MS09: Urban DAS array fully operational in a city (ETH, WP2&6)
- MS60: 15th publication related to RISE submitted (Oct, 2021)

6.2.2 Work Package Update

WP2: All deliverables are up to date. The team was working on the Mid-Term report which is complete now.

WP3: W. Marzocchi is in contact with individual modellers, for now all modellers are on track and delays are not foreseen.

WP4: All activities are on track.

WP5: All activities are on track. Paper on early warning is accepted with minor revision.

WP6: The only outstanding issue is with IMO. S. Wiemer had some exchange with K. Vogfjord, she promised to provide an update by email which she hasn't done yet.

WP7: They have been working on a collaborative electronic seismologist article that describes some of the pyCSEP functionality that involves early career scientists from various institutions.

Max mentioned the need for supporting the modellers in terms of which format they will deliver their models. GFZ involvement is essential as they have the IT people. Having the codes without the formats and right protocols will be a problem. W. Marzocchi mentioned that modellers are aware that they should be ready to provide synthetic catalogues. M. Werner, Warner and D. Schorlemmer will try and meet to discuss these issues to support the modellers to deliver the right format.

WP8: N. Valenzuela sent an invitation to contribute to the external newsletter.

6.2.3 Mid-Term Report Review

The Mid-Term report is almost complete with a few exceptions (Tasks 8.2, 8.3). All WP leaders will go through the document until Thursday 26 August, and provide their feedback on the google-doc. Then PM will transfer it to the correct format for the submission of this deliverable (31 August).

6.2.4 Periodic Reporting due 31 October 2021

The reporting template will be provided by the EC in the beginning of September and Banu will share it with the WP leaders. On September 1st, the web portal will release the reporting function and all partners will be able to have access to this. All partners will provide their financial reporting on this portal, which will be part 1 of the periodic reporting. Part 2 is the technical report, where WP leaders will need to provide summary of the work achieved. Mid-Term Report (D1.14) will provide the basis for preparing this technical report. The deadline for submitting the periodic reporting is 31 October.

In November or December, there will be EC review meeting. The details of this meeting will be shared by the MB in the next MB meeting.

6.2.5 Review of the next RISE Meetings

- 3rd round of ZOOMing into RISE
There was consensus on the following dates and times for the Fall seminars:

WP2: 9 September @ 10AM

WP3: 30 September @ 10AM

WP7: 7 October @ 10AM

WP4: 21 October @ 11AM

WP6: 4 November @ 10AM

WP5: 18 November @ 10AM

WP8: 9 December @ 10AM

- Early Career Scientists Meeting focus on models, testing, implementation (WP2,3,7) in Autumn-Winter 2021 (Naples in November/early December).
Suggestion: Combined with the winter-school? (MS 62)

We decided to not only limit such workshop to WP2,3,7 but broaden the scope to cover all topics of RISE. Therefore, we rephrase the meeting as "Young Scientists School on dynamic risk"

Actions to take: All WP leaders will give a name or two from their team of young researchers (PhD/Post-doc), who will represent that WP, will take part in the organization of such workshop. The names will be shared with PM and we will organize a meeting with the young scientists for organizing the meeting. We plan this meeting to take place in Naples in November/December 2021. We will plan this as a physical meeting.

- Stakeholder Panel (SP) Meeting on RISE Products and Services: in Autumn-Winter 2021 (virtual).
Stefan, Banu and Michele will meet this week.
- RISE General Meeting in Spring 2022 (Florence): Best date based on doodle: 11-13 May
The dates 11-13 May will be announced to the whole RISE community
- Plan for the workshop on experts' judgments in OEF (preparation for D3.5 due Nov 2022)
- RISE Final Conference in January 2023 (Davos)

6.2.6 Varia

- The Horizon Europe Work programme, Civil Security for Society, Disaster-Resilient Society for Europe call, deadline 23 November 2021

The call is on multi hazard. I. Main will send the link to this call.

6.2.7 Next MB Meeting

27 September 2021 @10 AM