



## **MEMORANDUM OF UNDERSTANDING FOR THE EUROPEAN AVALANCHE WARNING SERVICES (EAWS)**

### **Preamble**

The cooperation between national, provincial or regional agencies in charge of avalanche warning (Avalanche Warning Services - AWSs) is important to improve public avalanche safety.

AWSs have been forming the European Avalanche Warning Services (EAWS) since 1983 in order to:

- exchange ideas, experiences and operational procedures for avalanche forecasting programs;
- develop standards, shared rules and regulations for such activities (e.g. the European Avalanche Danger Scale, the auxiliary "Bavarian Matrix");
- develop criteria, structure, and graphical output guidance of the forecasting products, delivered to different types of users;
- improve the efficiency of operation and foster the skills of forecasting staff.

EAWS commits to liaising with reliability and honesty and to establishing a knowledge-based consortium.

The Members of EAWS strive for providing the best service at the lowest cost.

This Memorandum of Understanding was established to further strengthen the cooperation among the European AWSs.

### **1. Scope and objectives**

This Memorandum of Understanding (hereafter referred to as MoU) describes the objectives agreed by the Members and the terms and conditions under which they will cooperate to achieve these objectives.

The primary purpose of EAWS is to support its Members in preventing the loss of lives and damages due to avalanches by providing the society with efficient and effective avalanche forecasting and warning services. In order to achieve this, EAWS is committed to:

- developing standards, best practice guidelines and recommendations for avalanche warning services;
- exchanging expertise and promoting staff training;

- fostering cooperation between neighbouring services and promoting collaboration between Members;
- enhancing the communication and awareness about the avalanche danger to all the categories of users through avalanche bulletins, new forecasting products and common standards and terminology;
- liaising with other relevant organisations and engaging in strategic relationships and alliances with those that share the objectives of the EAWS
- ensuring that all programs, services, and materials are based on current research and scientific evidence;

## **2. Standards**

The presently agreed standards are listed in Appendix A.

## **3. Membership**

### **3.1. Members**

The initial Members are the signatories of this MoU at the time of its entry into force.

### **3.2. Acceptance (or admission) of new Members**

This MoU is also open for signature to new Members who, alike the initial Members:

- comply with EAWSs standards;
- have stable institutions guaranteeing, through a minimum level of funding, the operational issuing of regular avalanche forecasting products;
- promote and practice regional cooperation and neighbourly relations with other avalanche warning services;
- have the ability to take on and implement effectively the obligations of membership, including adherence to the aims of scientific, technical and operational cooperation;
- have the ability to provide a minimum level of funding to assure the participation of its representatives in EAWS meetings and the fulfilment of the tasks deriving from EAWS activities.

An AWS wishing to join EAWS shall address its application to its Chairperson who will forward the application to the Membership Committee that will assess the ability of the applicant to meet the conditions for membership.

If the Membership Committee concludes that the applicant meets the main conditions of membership, the application is submitted (for vote) to the General Assembly.

If the application of the AWS is accepted by the General Assembly, it shall become Member after a qualifying period of maximum three years, during which it shall:

- implement, where appropriate, the required reforms;
- have no voting rights in any decision of the General Assembly;
- upon completion of this qualifying period, the candidate Member shall:
  - 1) confirm that it satisfies the conditions for membership, gain the status of Member and sign the MoU;
  - 2) as a result, have all rights and obligations of Members and acquire voting rights under the conditions specified in article 4.1;
  - 3) the accepted member and its share of votes are added to Appendix B
  - 4) in the event that the AWS candidate is not able to implement the required reforms, during the qualifying period, its position will shift to Observer without voting rights.

### 3.3. Suspension of membership

Should a Member cease to fulfil the terms and conditions for membership defined in this MoU, the General Assembly may decide on the recommendation of the Membership Committee to suspend its membership for two years. Within this period of time the Membership Committee shall explore possible recovery actions with that Member. If the negotiations fail the membership is definitely terminated by the next GA.

### 3.4. Observers

Observer status is granted to organizations not eligible for membership, either because they operate geographically outside Europe or operate in the field of avalanche forecasting but do not comply with the conditions described in article 3.2. Observer status is granted by the General Assembly upon recommendation by the Membership Committee.

## 4. Governance

### 4.1. General Assembly

The General Assembly (GA) is the supreme governing body of the EAWS. It meets at least every two years and is organized in turn by one or more of its Members.

The GA consists of representatives of each of the Members, candidate Members and Observers. Only Members shall have voting rights; the number of votes per Member is given in Appendix B. If one country has more than one Member, the AWSs/Members of that country have to agree on how to distribute the voting rights.

The GA is responsible for the implementation of this MoU, including the definition, follow-up and evaluation of all EAWS activities. An extraordinary GA can be held at the request of at least one third of the Members (according to their respective voting rights according to Appendix B).

The GA elects a representative of a Member as the Chairperson. The Chairperson shall represent EAWS between meetings and inform or liaise with Members as appropriate.

The GA elects, a representative of a Member as the Coordinator of the Technical Advisory Board. The Coordinator is entitled to act on behalf of the Chairperson if needed.

The GA monitors the progress of the EAWS activities, evaluates new challenges and upcoming issues.

With a qualified two-thirds majority vote, the GA:

- elects the Chairperson and the Coordinator;
- adopts and amends EAWS standards, guidelines or recommendations
- approves the reports by the Technical Advisory Board and its Working Groups;
- elects the members of the Technical Advisory Board and the Membership Committee
- approves the creation of new Working Groups and appoints their members;
- decides on admission and expulsion of Members on the recommendation of the Membership Committee.

The GA meetings are prepared by the Chairperson and the Coordinator with the help of the Technical Advisory Board. Only proposals approved by the Technical Advisory Board are submitted for voting to the GA. Proposals need to be supported by a report describing the proposed decisions and associated reasoning and should be distributed to Members at least four weeks prior to GA.

The GA can take decisions if at least 50% of the total voting rights of the Members are present or represented.

Candidate Members and Observers can attend the GA and may submit proposals and reports, but do not have voting rights.

#### 4.2. Chairperson and Coordinator

Chairperson and Coordinator are elected in two round voting system by the GA for a term of two years. The Coordinator and the Chairperson are eligible for re-election for one further consecutive term.

Nominations for these two positions can be submitted to the current Chairperson or Coordinator up to eight weeks prior to the GA. The nominations are forwarded to the Technical Advisory Board for approval. Nominations approved by the Technical Advisory Board are submitted to the Members four weeks prior to the GA.

The Chairperson represents the EAWS; he/she can delegate this duty to the Coordinator. The Chairperson and the Coordinator are responsible for carrying out all those routine duties and specific tasks that have to be fulfilled between meetings. All letters that bind the EAWS need to be signed by the Chairperson and the Coordinator.

The Chairperson:

- chairs the General Assembly;
- prepares for the GA in collaboration with the organizing Member and the Coordinator
- prepares an annual report on the activities of the EAWS, to be circulated to the Members at least four weeks prior to the GA
- assists, if needed, the Coordinator in managing the Technical Advisory Board and its Working Groups, and suggests solutions to the specific challenges identified by the GA;

The Coordinator is head of the Technical Advisory Board. She/he shall exercise coordinating, executive and management functions and she/he shall assist, if needed, the Chairperson.

The Coordinator:

- coordinates and assists the Technical Advisory Board and its Working Groups in finding solutions to the specific challenges identified by the GA;
- ensures that the Working Groups report on their work progress;
- prepares for the meetings of the Technical Board and its Working Groups to be held in between the GA;
- prepares an annual report on the activities of the Technical Advisory Board and the Working Groups, to be circulated to the Members at least four weeks prior to the GA
- supports the Chairperson in managing the GA in collaboration with the organizing Member;
- assists, if needed, the Chairperson in his/her tasks and duties;

#### 4.3. Technical Advisory Boards and Working Groups

The Technical Advisory Board (TAB) is a technical body elected in two round voting system by the GA. It shall consist of up to eight representatives of the Members and the Coordinator. Representatives are elected for a term of two years and are eligible for re-election. The Technical Advisory Board is chaired by the Coordinator. Participants of the Working Groups may attend the meetings of the Technical Advisory Board.

The TAB evaluates and approves the proposals by the Working Groups prior to discussion and vote at the GA.

The Working Groups (WGs) are established to discuss and address specific topics, identified by the GA; they seek to unanimously agree on proposals that will have to be approved by the GA.

WGs are established by the GA for a fixed period of time and with a clear mandate. Each Working Group has one chair who is member of the TAB. The chair of a WG shall report to the Coordinator about its activities. The expected output/deliverable shall be produced following plans/deadlines established by the Working Groups and the final proposal will be submitted to the TAB for evaluation and approval.

All Members, candidate Members and Observers can propose one representative for membership to each Working Group. Nominations shall be submitted at the GA and up to eight weeks afterwards to the Coordinator. The nominations are then forwarded to the Technical Advisory Board for approval.

The participants of the WGs shall have the required and proven expertise to actively contribute to the mandate of the WG.

The Coordinator shall ensure that the WGs act consistently, efficiently and as a collegiate body.

#### 4.4 Membership Committee

The Membership Committee is elected in two round voting system by the GA. It shall consist of up to five representatives of the Members. Representatives are elected for a term of two years and

are eligible for re-election. The Membership Committee shall elect one of its representatives as chair.

The Membership Committee evaluates applications for membership and submits applications to the GA that meet the main conditions of membership.

## **5. Liability**

Each Member or candidate Member is not liable to any other Member or candidate Member for damage or injury attributable to the execution of its responsibilities under this MoU. Each Member or candidate Member will bear the cost of compensation for damage or injury of any kind suffered by its personnel or property within the framework of the execution of this MoU except in case of gross negligence or wilful act.

Each Member or acceding Member will bear its own costs of this cooperation unless expressly otherwise agreed in writing for specific programmes and projects.

## **6. Entry into force, duration and amendments**

This MoU shall enter into force on 1 June 2017 and shall remain in force for a period of five years, and shall be extended for successive five-year periods unless otherwise decided by the Members.

The MoU can be terminated by a qualified majority of 75% of the Members (according to their respective voting rights according to Appendix B).

This MoU may only be amended in writing. Any amendments need the approval of a qualified majority of 75% of the Members (according to their respective voting rights according to Appendix B); amendments will take effect immediately after approval.

## **APPENDIX A – MAIN STANDARDS**

### **1. Evolution of standards**

Given that standards may evolve over time upon technology, scientific and methodology improvements, the EAWS website hosts the up-to-date status of the standards introduced below, which may differ from the version when this MoU entered into force.

### **2. The European Avalanche Danger Scale**

The avalanche danger describes the likelihood (expected probability) of occurrence and the possible size (and their damage potential) of avalanches in a specific region of at least 100 km<sup>2</sup>. However, the exact moment and location of an avalanche release and the actual size of its starting zone and fracture depth cannot be precisely determined.

The European Avalanche Danger Scale shall be used by Members when communicating the level of avalanche danger in a region, as well as a basis for determining the danger level in a region.

([www.avalanches.org](http://www.avalanches.org))

### **3. The Bavarian Matrix**

The Bavarian Matrix is a supplementary tool to determine the avalanche danger.

([www.avalanches.org](http://www.avalanches.org))

### **4. Information pyramid**

EAWS members shall present the information in the avalanche bulletin according to importance (according to the EAWS's "information pyramid" schema), ranked from the heading (top) of the bulletin to the bottom.

([www.avalanches.org](http://www.avalanches.org))

### **5. Glossary**

The bulletin should use a standardised terminology as an aid both to a better understanding and to a practical interpretation of its contents.

([www.avalanches.org](http://www.avalanches.org))

### **6. Avalanche size scale**

The size of avalanches shall be classified by their destructive potential, runout length and dimension.

([www.avalanches.org](http://www.avalanches.org))

## **7. Avalanche problems**

Typical avalanche situations or problems focus the user's attention on the current avalanche problem.

([www.avalanches.org](http://www.avalanches.org))

## **8. Warning regions**

Regions (geographical areas) used for issuing the warnings shall be clearly specified so the public knows exactly what area is being covered by the Avalanche Warning Service, typically by maps of the warning regions on the website where the bulletins are published.

## **9. Validity and Responsibility**

The bulletin shall also describe the geographical area of validity, the period of time it is valid, the time of publication or updating, and the name of the responsible or issuing agency.



## APPENDIX B – VOTING RIGHTS

Nation	Voting rights	Short name of Avalanche Warning Service	Official denomination of EAWS member ( <i>legal signatory</i> )
Andorra	84	SMA - OECC	Servei Meteorològic d'Andorra - OECC
Austria	12	Lawinenwarndienst Kärnten	Amt der Kärntner Landesregierung Abteilung 8 – Umwelt, Wasser und Naturschutz
	12	Lawinenwarndienst Niederösterreich	Amt der Niederösterreichischen Landesregierung, Abteilung Hydrologie und Geoinformation
	12	Lawinenwarndienst Oberösterreich	Amt der Oberösterreichischen Landesregierung, Direktion Umwelt und Wasserwirtschaft, Abteilung Oberflächengewässerrwirtschaft
	12	Lawinenwarndienst Salzburg	Lawinenwarndienst Land Salzburg
	12	Lawinenwarndienst Steiermark	Amt der Steiermärkischen Landesregierung, Fachabteilung Katastrophenschutz und Landesverteidigung
	12	Lawinenwarndienst Tirol	Lawinenwarndienst Tirol
	12	Lawinenwarndienst Vorarlberg	Amt der Vorarlberger Landesregierung, Abteilung Inneres und Sicherheit
Czech Republic	84	HS CR	Horská služba Č.R. o.p.s.
Finland	84	Finnish Meteorological Institute	Finnish Meteorological Institute
France	84	Météo-France	Météo-France
Germany	84	Lawinenwarnzentrale Bayern	Lawinenwarnzentrale im bayrischen Landesamt für Umwelt
United Kingdom	84	SAIS	Scottish Avalanche Information Service
Iceland	84	IMO	Icelandic Meteorological Office
Italy	42	AINEVA	Associazione interregionale di coordinamento e documentazione per i problemi inerenti alla neve e alle valanghe
	0	Livigno Avalanche Centre	ALPSOLUT S.R.L
	21	METEOMONT Carabinieri	Carabinieri METEOMONT
	21	METEOMONT Italian Army	Italian Army METEOMONT
Norway	0	NGI	Norwegian Geotechnical Institute
	84	NVE	Norwegian Water Resources and Energy Directorate
Poland	42	GOPR	Górskie Ochotnicze Pogotowie Ratunkowe
	42	TOPR	Tatrzańskie Ochotnicze Pogotowie Ratunkowe
Romania	84	Administrația Națională de Meteorologie	Administrația Națională de Meteorologie
Slovenia	84	ARSO	Agencija Republike Slovenije za okolje
Slovakia	84	SLP-HZS	Horská záchranná služba – Stredisko lavínovej prevencie


Spain	28	AEMET	Agencia Estatal de Meteorología
	28	Centre de Lauegi d'Aran	Conselh Generau d`Aran
	28	ICGC	Institut Cartogràfic i Geològic de Catalunya
Switzerland	84	SLF	WSL-Institut für Schnee- und Lawinenforschung SLF
Total	1344		

**Signature page of EAWS MoU**

Official denomination of EAWS member	
Short name of Avalanche Warning Service	
Area of responsibility (country / province / region)	
Name and position of the person with authority to sign on behalf of the member	
Date	
Signature	

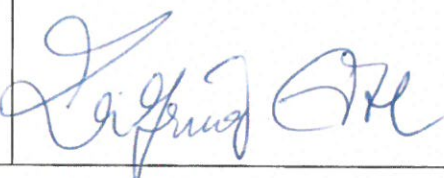


**Signature page of EAWS MoU**

Official denomination of EAWS member	Servei Meteorològic d'Andorra - OECC
Short name of Avalanche Warning Service	SMA - OECC
Area of responsibility (country / province / region)	ANDORRA
Name and position of the person with authority to sign on behalf of the member	Carles Miquel Garcia Cap de l'Oficina d'Energia I Canvi Climàtic Ministeri de Medi Ambient, Agricultura I Sostenibilitat Govern d'Andorra
Date	28 abril 2017
Signature	



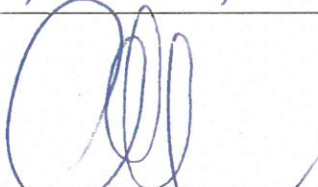
**Signature page of EAWS MoU**

Official denomination of EAWS member	Amt der Kärntner Landesregierung Abteilung 8 – Umwelt, Wasser und Naturschutz
Short name of Avalanche Warning Service	Lawinenwarndienst Kärnten
Area of responsibility (country / province / region)	Österreich, Kärnten Austria, Carinthia
Name and position of the person with authority to sign on behalf of the member	Wilfried Ertl
Date	20 <sup>th</sup> of April 2017
Signature	






**Signature page of EAWS MoU**

Official denomination of EAWS member	Office of the Lower Austrian Government Department "Hydrology and Geoinformation"
Short name of Avalanche Warning Service	Avalanche Warning Service Lower Austria
Area of responsibility (country / province / region)	Lower Austria
Name and position of the person with authority to sign on behalf of the member	DI Christian LABUT (Head of Department)
Date	21/3/2017
Signature	



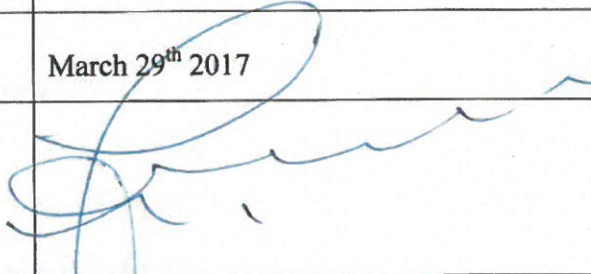
<b>Total</b>	<b>1344</b>		
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### Signature page of EAWS MoU

Official denomination of EAWS member	Amt der Oö. Landesregierung Direktion Umwelt und Wasserwirtschaft Abteilung Oberflächengewässerwirtschaft
Short name of Avalanche Warning Service	Lawinenwarndienst Oberösterreich
Area of responsibility (country / province / region)	Austria/Oberösterreich
Name and position of the person with authority to sign on behalf of the member	Florian Stifter DI Leiter Lawinenwarndienst
Date	15.05.2017
Signature	

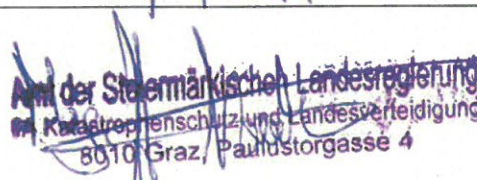


**Signature page of EAWS MoU**

Official denomination of EAWS member	Lawinenwarndienst Land Salzburg
Short name of Avalanche Warning Service	LWD Salzburg
Area of responsibility (country / province / region)	Province of Salzburg, Austria
Name and position of the person with authority to sign on behalf of the member	Mag. Norbert Altenhofer, MAS Head of office
Date	March 29 <sup>th</sup> 2017
Signature	



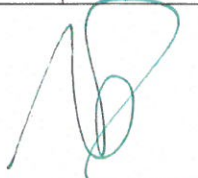
**Signature page of EAWS MoU**

Official denomination of EAWS member	Office of the Styrian Government Civil Protection Department
Short name of Avalanche Warning Service	Avalanche Warning Service Styria
Area of responsibility (country / province / region)	Styria
Name and position of the person with authority to sign on behalf of the member	Mag. Helmut KREUZWIRTH (Dep. Head of Department)
Date	22/3/2017
Signature	 Amt der Steiermärkischen Landesregierung Katastrophenschutz und Landesverteidigung 8010 Graz, Paulustorgasse 4






**Signature page of EAWS MoU**

Official denomination of EAWS member	LAWINEN WARN- DIENST TIROL
Short name of Avalanche Warning Service	LWD TIROL
Area of responsibility (country / province / region)	AUSTRIA - TIROL
Name and position of the person with authority to sign on behalf of the member	RUDI MAIER HEAD
Date	10/04/17
Signature	

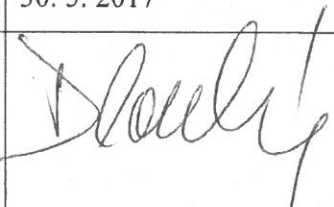


# Signature page of EAWS MoU

Official denomination of EAWS member	Landeswarnzentrale Vorarlberg Landhaus Römerstrasse 15 A-6901 Bregenz
Short name of Avalanche Warning Service	Lawinenwarndienst Vorarlberg
Area of responsibility (country / province / region)	Vorarlberg
Name and position of the person with authority to sign on behalf of the member	Ing. Franc Magnes
Date	28.3.2017
Signature	




**Signature page of EAWS MoU**

Official denomination of EAWS member	Horská služba Č.R. o.p.s. Mountain rescue service of Czech republic
Short name of Avalanche Warning Service	HS CR
Area of responsibility (country / province / region)	Czech republic
Name and position of the person with authority to sign on behalf of the member	Robert Dlouhý
Date	30. 5. 2017
Signature	



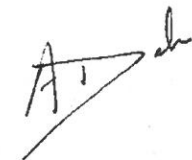
**Signature page of EAWS MoU**

Official denomination of EAWS member	Finnish Meteorological Institute
Short name of Avalanche Warning Service	Finnish Meteorological Institute
Area of responsibility (country / province / region)	Finland
Name and position of the person with authority to sign on behalf of the member	Prof. Juhani Damski Director General Finnish Meteorological Institute
Date	24 May 2017
Signature	






**Signature page of EAWS MoU**

Official denomination of EAWS member	METEO-FRANCE
Short name of Avalanche Warning Service	METEO-FRANCE
Area of responsibility (country / province / region)	France
Name and position of the person with authority to sign on behalf of the member	Anne DEBAR – Deputy Director General
Date	15/03/2017
Signature	




**Signature page of EAWS MoU**

Official denomination of EAWS member	Lawinenwarnzentrale im Bayerischen Landesamt für Umwelt
Short name of Avalanche Warning Service	Lawinenwarnzentrale
Area of responsibility (country / province / region)	Bayern
Name and position of the person with authority to sign on behalf of the member	Claus Kumutat Präsident
Date	15.03.2017
Signature	




**Signature page of EAWS MoU**

Official denomination of EAWS member	Scottish Avalanche Information Service
Short name of Avalanche Warning Service	SAIS
Area of responsibility (country / province / region)	Scottish Highlands, UK
Name and position of the person with authority to sign on behalf of the member	Co-ordinator
Date	4.4.17
Signature	



**Signature page of EAWS MoU**

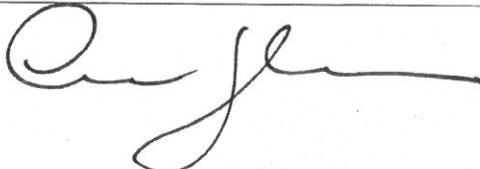
Official denomination of EAWS member	Icelandic Meteorological Office
Short name of Avalanche Warning Service	IMO
Area of responsibility (country / province / region)	Iceland
Name and position of the person with authority to sign on behalf of the member	Árni Snorrason, Director-General
Date	31-05-2017
Signature	






<b>Total</b>	<b>1344</b>	
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Official denomination of EAWS member	<p>AINEVA – Associazione interregionale di coordinamento e documentazione per i problemi inerenti alla neve e alle valanghe</p> <p>(AINEVA - Interregional Association of coordination and documentation for problems concerning snow and avalanches)</p>
Short name of Avalanche Warning Service	AINEVA
Area of responsibility (country / province / region)	<p>Italian Associated Regions and Provinces (Regione Autonoma Valle d'Aosta, Regione Piemonte, Regione Lombardia, Provincia Autonoma di Bolzano, Provincia Autonoma di Trento, Regione del Veneto, Regione Autonoma Friuli Venezia Giulia, Regione Marche)</p>
Name and position of the person with authority to sign on behalf of the member	Cristiano Shaurli President
Date	May 11 <sup>th</sup> 2017
Signature	

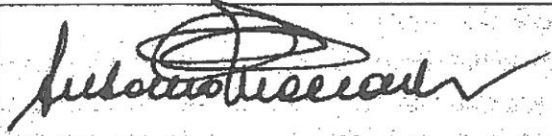


Signature page of EAWS MoU

Official denomination of EAWS member	ALPSOLUT S.R.L.
Short name of Avalanche Warning Service	LIVIGNO AVALANCHE CENTRE
Area of responsibility (country / province / region)	LIVIGNO , SONDRIO , ITALY
Name and position of the person with authority to sign on behalf of the member	FABIANO MONTI , CEO
Date	25-05-2017
Signature	 ALPSolut S.r.l. - Start-Up innovativa SPIN-off Università dell'Insubria Sede legale: via Saffoch, 1098/B; c/o Plaza Pischèda 23030 Livigno (SO) - c.s. euro 10.000 Registro Imprese di Sondrio P. IVA / C.F. 00964580146 <b>ALPSolut</b>



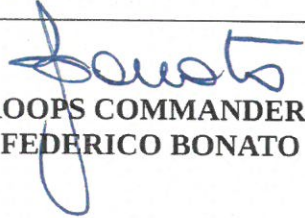
**Signature page of EAWS MoU**

Official denomination of EAWS member	CARABINIERI METEOMONT
Short name of Avalanche Warning Service	METEOMONT CARABINIERI
Area of responsibility (country / province / region)	ITALY
Name and position of the person with authority to sign on behalf of the member	<i>Gen. C.A. ANTONIO RICCLARDI</i> CHIEF OF CARABINIERI COMMAND FOR FOREST, ENVIRONMENTAL AND AGRI-FOOD PROTECTION
Date	30/05/2017
Signature	





**Signature page of EAWS MoU**

Official denomination of EAWS member	<b>ITALIAN ARMY METEOMONT</b>
Short name of Avalanche Warning Service	<b>METEOMONT</b>
Area of responsibility (country / province / region)	<b>ITALY</b>
Name and position of the person with authority to sign on behalf of the member	<b>ALPINI TROOPS COMMANDER GEN. C.A. FEDERICO BONATO</b>
Date	<b>31/05/2017</b>
Signature	 <b>ALPINI TROOPS COMMANDER GEN. C.A. FEDERICO BONATO</b>



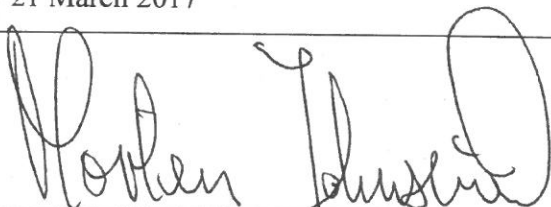


**Signature page of EAWS MoU**

Official denomination of EAWS member	Norwegian Geotechnical Institute
Short name of Avalanche Warning Service	NGI
Area of responsibility (country / province / region)	Selected local and regional areas in Norway
Name and position of the person with authority to sign on behalf of the member	Dr. Anders Solheim Director, Natural Hazards
Date	21.04.2017
Signature	<i>Anders Solheim</i>




**Signature page of EAWS MoU**

Official denomination of EAWS member	Norwegian Water Resources and Energy Directorate
Short name of Avalanche Warning Service	NVE
Area of responsibility (country / province / region)	Norway
Name and position of the person with authority to sign on behalf of the member	Morten Johnsrud Director Hydrology Department
Date 2017 / 03 / 21	21 March 2017
Signature	

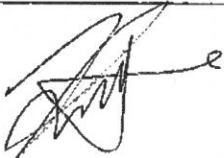


**Signature page of EAWS MoU**

Official denomination of EAWS member	Górskie Ochotnicze Pogotowie Ratunkowe (Polish Voluntary Mountain Rescue Service)
Short name of Avalanche Warning Service	GOPR
Area of responsibility (country / province / region)	<p>Country: <b>POLAND</b>  Voivodeships:</p> <ul style="list-style-type: none"> <li>• Dolnośląskie (Lower Silesian),</li> <li>• Śląskie (Silesian Voivodeship),</li> <li>• Małopolskie (Lesser Poland Voivodeship),</li> <li>• Podkarpackie (Podkarpackie Voivodeship)</li> </ul> <p>Region: all Polish mountains except Tatra mountains  Areas where full avalanche bulletins are published:</p> <ul style="list-style-type: none"> <li>• Karkonosze (South-western part of Lower Silesian Voivodeship),</li> <li>• Babia Góra (South-western part of Lesser Poland Voivodeship),</li> <li>• Bieszczady (South-eastern part of Podkarpackie Voivodeship)</li> </ul>
Name and position of the person with authority to sign on behalf of the member	Jacek Dębicki Naczelnik (Head of Service)
Date	25.04.2017
Signature	





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Official denomination of EAWS member	TATRZANSKIE OCHOTNICZE POGOTOWIE RATUNKOWE
Short name of Avalanche Warning Service	TOPR
Area of responsibility (country / province / region)	POLAND/MALOPOLSKA/TATRY
Name and position of the person with authority to sign on behalf of the member	JAN KRZYSZTOF HEAD OF TOPR
Date	2017/03/20
Signature	



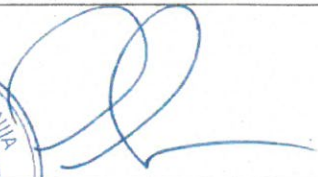


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Official denomination of EAWS member	Administrația Națională de Meteorologie
Short name of Avalanche Warning Service	Administrația Națională de Meteorologie
Area of responsibility (country / province / region)	ROMANIA
Name and position of the person with authority to sign on behalf of the member	Dr Elena MATEESCU DIRECTOR GENERAL
Date	18.05.2017
Signature	 




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Official denomination of EAWS member	Agencija Republike Slovenije za okolje
Short name of Avalanche Warning Service	ARSO
Area of responsibility (country / province / region)	Slovenia
Name and position of the person with authority to sign on behalf of the member	mag. Joško Knez, director general
Date	19.5.2017
Signature	





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Official denomination of EAWS member	Horská záchranná služba – Stredisko lavínovej prevencie
Short name of Avalanche Warning Service	SLP-HZS
Area of responsibility (country / province / region)	Slovensko
Name and position of the person with authority to sign on behalf of the member	plk. Ing Jozef Janiga, riaditeľ HZS
Date	15.5.2017
Signature	





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**The present instrument does not constitute a source of international obligations**

Official denomination of EAWS member	Agencia Estatal de Meteorología
Short name of Avalanche Warning Service	AEMET
Area of responsibility (country / province / region)	Spain
Name and position of the person with authority to sign on behalf of the member	Sr. D. Miguel Ángel López González President of Agencia Estatal de Meteorología del Reino de España
Date	May 31th 2017
Signature	



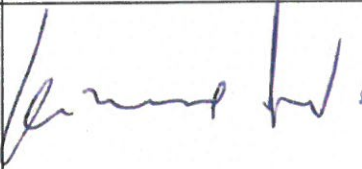


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Official denomination of EAWS member	Conselh Generau d'Aran
Short name of Avalanche Warning Service	Centre de Lauegi d'Aran
Area of responsibility (country / province / region)	Val d'Aran
Name and position of the person with authority to sign on behalf of the member	Mg. Sr. Carlos Barrera Sánchez. Sindic d'Aran
Date	10/04/2017
Signature	



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Official denomination of EAWS member	Institut Cartogràfic i Geològic de Catalunya (ICGC)
Short name of Avalanche Warning Service	Institut Cartogràfic i Geològic de Catalunya (ICGC)
Area of responsibility (country / province / region)	Catalonia
Name and position of the person with authority to sign on behalf of the member	General Director
Date	9 May 2017
Signature	



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Official denomination of EAWS member	WSL Institute for Snow and Avalanche Research SLF
Short name of Avalanche Warning Service	SLF
Area of responsibility (country / province / region)	Switzerland
Name and position of the person with authority to sign on behalf of the member	Jürg Schweizer, Head of Institute
Date	Tavor, 7 Apr 2017
Signature	J. Schweizer

