

# References

## Wyssen Avalanche Control AG



**Safety** through **innovation**

**wyssen** *avalanche*  
switzerland **control**

# Alta Ski Area



**Place:** Alta, Utah

**Country:** USA

**Protected Object(s):**

Ski Resort

**Installed Systems:**

14x Avalanche Tower LS12-5

**Year:**

Installation 2021 - 2023

**Future:**

5 more towers are planned for 2025!

# Andermatt-Sedrun Sport AG

**SkiArena**  
ANDERMATT  SEDRUN

**Place:** Andermatt, UR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

6x Avalanche Tower LS12-5

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, Explosives,  
Helicopter control via digital  
radio device

**Year:**

Installation since 2003

*Photo credits: © Andermatt-Sedrun  
Sport AG*

# Anglo American División Los Bronces



**Place:** Los Bronces

**Country:** Chile

**Protected Object(s):**

Copper Open Pit Mine

**Installed Systems:**

43x Avalanche Tower LS12-5

7x GINA® Geophones in  
Avalanches

9x LIA® Laser Scanner

**Construction:**

Construction installation of all  
Wyssen RACS in high altitude

**Year:** Installed in 2018-2023



ASFINAG

A|S|F|i|N|A|G

**Place:** Flachauwinkl, Salzburg

**Country:** Austria

**Protected Object(s):**

A10 Tauern Highway

**Installed Systems:**

3x Avalanche Tower LS12-5

1x Weather station

1x LIA<sup>®</sup> Laser Scanner

1x Stand Alone Weather station

**Year:**

Installed in 2020

# ASTRA

## Lawinendienst 2TG - Brückenbaustelle Simplonpass



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Bundesamt für Strassen ASTRA


**Place:** Airolo TI, Göschenen UR  
Simplon pass VS

**Country:** Switzerland

**Protected Object(s):**

Road, Construction site  
second tube Gotthard, Bridge  
construction site

**Installed Systems:**

1x Avalanche Tower LS12-5  
IDA<sup>®</sup> Infrasonnd Detection System  
WAC.3<sup>®</sup> operational Software:  
Cockpit and Assessment  
Safety Concept from  **geoformer**  
INGENIEURE, GEOLOGEN, PLANER

**Year:**

Installed in 2021 and 2022

*Photo credits: © Andrea Dotta*

# Arosa Bergbahnen AG



*Arosa*   Lenzerheide

Lässt Herzen höher schlagen.

**Place:** Arosa, GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

4x Avalanche Tower LS12-5

WAC.3<sup>®</sup> operational software:  
Cockpit and Explosives

**Year:**

Installed in 2020 and 2021

*Photo credits: © Arosa Tourismus, Nina Mattli*

# Avers Skibetriebs AG



**Place:** Cresta (Avers), GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

2x Weather Station

WAC.3<sup>®</sup> Cockpit

**Year:**

Installed in 2017 and 2020

*Photo credits: © demateo.com*



# Berg- & Skilift Hochsöll GmbH & Co. KG



**Söll**

**Place:** Söll, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

**Year:**

Installed in 2012

*Photo credits: © Berg- & Skilift Hochsöll  
GmbH & Co. KG*

# Bergbahn AG Kitzbühel



**KitzSki**

**Place:** Kitzbühel, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

4x Avalanche Tower LS12-5

**Year:**

Installed in 2015 and 2018

*Photo credits: © KitzSki\_werlberger*

# Bergbahnen Engstligenalp AG

Adelboden  
**Engstligenalp**

**Place:** Adelboden, BE

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

2x Avalanche Tower LS12-5

1x Bomb Tramway

**Year:**

Installed in 2000 and 2015

**Remark:**

The very first Avalanche Tower installed worldwide!

# Bergbahnen Hohsaas AG

**Saas-Grund**  
Hohsaas Bergbahnen

**Place:** Saas-Grund, VS

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

WAC.3<sup>®</sup> operational Software:  
Cockpit, Assessment,  
Explosives, Helicopter control

**Year:**

Installed in 2021

*Photo credits: © Bergbahnen Hohsaas AG*

# Bergbahnen Kühtai GmbH & Co KG



**Place:** Kühtai, Stubai Alps

**Country:** Austria

**Protected Object(s):**

Access Roads and Ski Resort

**Installed Systems:**

3x Avalanche Tower LS12-5

**Year:**

Installed in 2013 and 2018

# Bergbahnen Obertauern GmbH



**Place:** Obertauern

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

8x Avalanche Tower LS12-5

3x Signal horn

**Year:**

Installed in 2012 and 2013

*Photo credits: © Bergbahnen Obertauern GmbH*

# Bergbahnen Samnaun AG & Gemeinde Samnaun



**Place:** Samnaun, GR

**Country:** Switzerland

## **Protected Object(s):**

Ski Resort, Road and Residential Area

## **Installed Systems:**

90x Avalanche Tower LS12-5  
1x Avalanche Tower LS24-5 in test

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment,  
Piste inspection

## **Year:**

Installation since 2001

# Bergbahnen See Ges.m.b.H.



**Place:** See, Paznaun Valley

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

5x Avalanche Tower LS12-5

1x Signal horn

**Year:**

Installed in 2016 and 2022

*Photo credits: © www.bergbahn.com*



# Bergbahnen Silvretta Galtür GmbH & CO Kg

SILVAPARK.AT



**Place:** Galtür, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

4x Avalanche Tower LS12-5

**Year:**

Installed in 2009, 2011, 2016

*Photo credits: © Bergbahnen Silvretta  
Galtür GmbH & Co Kg*

# Canadian National Railway Company



**Place:** Valemount

**Country:** Canada

**Protected Object(s):**

Railway

**Installed Systems:**

2x Avalanche Tower LS12-5

**Year:**

Installed in 2019-2022



# Clearance of former ammunition storage Mitholz VBS



**Place:** Kandergrund, BE  
(Mitholz)

**Country:** Switzerland

**Protected Object(s):**  
Construction site / clearance  
of former ammunition storage

**Installed Systems:**  
WAC.3<sup>®</sup> Cockpit

**Year:**  
Installed in 2023

# Codelco Andina



**Place:** Los Andes, V Región

**Country:** Chile

**Protected Object(s):**

Copper Open Pit Mine

**Installed Systems:**

51x Avalanche Tower LS12-5  
8x SARA®, 12x GINA®, 4xLIA®

WAC.3® operational software:  
Cockpit, Assessment and Explosives

**Construction:**

Construction installation of 33x  
Wyssen RACS in high altitude

**Services:**

Winter operation in Andina Mine  
2018-2024

**Year:** Installed in 2018-2024

# Colorado Department of Transportation, CDOT



**Place:** Lizard Head Pass, CO

**Country:** USA

**Protected Object(s):**

Highway 145

**Installed Systems:**

5x Avalanche Tower LS12-5

**Year:**

Installed in 2020

**Future:**

3 more Towers are planned for 2025 and 12 additional in 2026!

*Photo credits: © Roz Reynolds*

# Commune d'Evölène



**Place:** Evölène, VS  
**Country:** Switzerland

**Protected Object(s):**  
Residential area and road

**Installed Systems:**  
5x Avalanche Tower LS24-5  
1x LIA® Laser Scanner  
WAC.3® operational Software:  
Cockpit, Helicopter control

**Year:**  
Installed in 2023

**Future:**  
Total Tower project: 16x Avalanche  
Towers LS24-5 (2020-2032)

# Comune di Acquarossa



**Place:** Acquarossa, IT  
**Country:** Switzerland  
**Operator:** Amici del Nara

**Protected Object(s):** Ski Resort,  
Residential area (holiday huts)

**Installed Systems:**

4x Avalanche Tower LS12-5  
3x LIA® Laser Scanner  
1x Weather Station  
1x Camera

WAC.3® operational Software:  
Cockpit, Helicopter control,  
Communication

**Year:** Installation since 2021

*Photo credits:*

© Belinzona e Valli Turismo Luca Crivelli

# Davos Klosters Mountains



**Place:** Davos/Klosters, GR  
**Country:** Switzerland

**Protected Object(s):**  
Ski Resort

**Installed Systems:**

13x Avalanche Tower LS12-5  
1x Avalanche Tower LS24-5  
2x Mini Towers LS6-5  
1x Bomb tramway

WAC.3® operational software:  
Cockpit, Assessment, Helicopter control,  
Explosives

**Year:** Installation since 1974

**Remark:**

The very first installed bomb  
tramway in 1974



# Diavolezza



**Diavolezza 2978**  
Corvatsch  Lagalb

**Place:** Pontresina, GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

WAC.3<sup>®</sup> operational software:  
Cockpit , Explosives, Helicopter  
control

**Year:**

Installed in 2003

# Engadin St. Moritz Mountains



**Place:** St. Moritz, GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

5x Avalanche Tower LS12-5

2x Bomb Tramway

WAC.3<sup>®</sup> operational software:  
Cockpit, Helicopter control

**Year:**

Installed in 2008, 2018, 2021

# Fisser Bergbahnen GmbH (Serfaus-Fiss-Ladis)



**Place:** Fiss, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

5x Avalanche Tower LS12-5

1x Weather station

1x Wind sensor

1x LIA<sup>®</sup> Laser Scanner

WAC.3<sup>®</sup> Cockpit

**Year:**

Installed in 2016 - 2020

*Photo credits: © Fisser Bergbahnen GmbH*

# Fügen Bergbahnen Ges.m.b.H & Co KG



**Place:** Fügen im Zillertal

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

5x Avalanche Tower LS12-5

**Year:**

Installed in 2015

*Photo credits: © rieder - zillertal.at*

# Gargellner Bergbahnen GmbH & Co KG



**Place:** Gargellen, Vorarlberg  
**Country:** Austria

**Protected Object(s):**  
Ski Resort

**Installed Systems:**

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, Explosives  
Helicopter control, NxD

**Year:**  
Installed in 2023

*Photo credits: © Gargellner Bergbahnen GmbH & Co KG,  
Sebastian Leitner*

# Gasteiner Bergbahnen

[www.skigastein.com](http://www.skigastein.com)



**Place:** Gasteiner Valley

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

6x Avalanche Tower LS12-5

**Year:**

Installed in 2006, 2007,  
2008, 2012

# Gemeinde Davos



**Place:** Davos, GR  
**Country:** Switzerland

**Protected Object(s):**  
Road, Railway, Settlement area

**Installed Systems:**  
8x Avalanche Tower LS12-5  
1x LIA<sup>®</sup> Laser Scanner  
6x GINA<sup>®</sup> Geophones in Avalanches  
1x Webcam  
WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, Explosives

**Year:**  
Installed in 2010, 2017, 2019

# Gemeinde Disentis



**Place:** Disentis, GR

**Country:** Switzerland

**Protected Object(s):**  
Infrastructure

**Installed Systems:**

WAC.3<sup>®</sup> operational software:  
Cockpit and Assessment

**Year:**

Installed in 2023

*Photo credits: © Simon Cathomen*



# Gemeinde Frutigen



**Place:** Frutigen, BE

**Country:** Switzerland

**Protected Object(s):**

Road

**Installed Systems:**

2x GINA<sup>®</sup> Geophones in  
Avalanches

1x Alert system

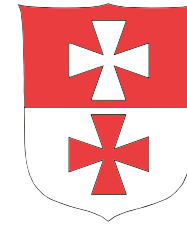
WAC.3<sup>®</sup> Cockpit

**Year:**

Installed in 2018 and 2019

*Photo credits: © Gemeinde Frutigen*

# Gemeinde Goms



GEMEINDE  
GOMS

**Place:** Gluringen, VS

**Country:** Switzerland

**Protected Object(s):**

Road and Railway

**Installed Systems:**

8x Avalanche Tower LS12-5

4x IDA<sup>®</sup> Infrasonnd Detection System

1x GINA<sup>®</sup>, 1x SARA<sup>®</sup>

WAC.3<sup>®</sup> operational Software:  
Cockpit and Assessment

Safety Concept from  **geoformer**  
INGENIEURE, GEOLOGEN, PLANER

Raphael Imsand and the avalanche  
warning service

**Year:**

Installed in 2008 - 2009, 2015 - 2020

*Photo credits: © RSD Goms*

# Gemeinde Ischgl



**Place:** Ischgl, Tyrol

**Country:** Austria

**Protected Object(s):**

Road, Edge of Settlement area

**Installed Systems:**

8x Avalanche Tower LS12-5

1x LARA® Long range  
avalanche radar

**Year:**

Installed in 2011

*Photo credits: © Christian Schmid*

# Gemeinde Kappl



**Place:** Kappl, Tyrol

**Country:** Austria

**Protected Object(s):**

Road, Edge of Settlement area

**Installed Systems:**

3x Avalanche Tower LS12-5

1x LARA<sup>®</sup> Long range  
avalanche radar

**Year:**

Installed in 2013

*Photo credits: © Tourismusverband  
Paznaun - Ischgl*

# Gemeinde Kaunertal



**Place:** Kaunertal, Tyrol

**Country:** Austria

**Protected Object(s):**

Road

**Installed Systems:**

1x Avalanche Tower LS12-5

1x LARA<sup>®</sup> Long range  
avalanche radar

**Year:**

Installed in 2012

*Photo credits: © TVB Tiroler Oberland  
Kaunertal / Martin Lugger*

# Gemeinde Klosters-Serneus



Gemeinde  
Klosters-Serneus

**Place:** Klosters-Serneus, GR

**Country:** Switzerland

**Protected Object(s):**

Roads and residential area

**Installed Systems:**

6x Avalanche Tower LS12-5

1x Weather station

**Year:**

Installed in 2012

*Photo credits: © Destination Davos Klosters*

# Gemeinde Maishofen



**Place:** Maishofen  
**Country:** Austria  
**Operator:** Land Salzburg  
(Staßenmeisterei Pinzgau)

**Protected Object(s):**  
Road

**Installed Systems:**  
2x Avalanche Tower LS12-5  
1x Signal horn

**Year:**  
Installed in 2019

*Photo credits: © Gemeinde Maishofen*

# Gemeinde Pontresina



**Gemeinde Pontresina**  
Vschinauncha da Puntraschigna

**Place:** Pontresina, GR

**Country:** Switzerland

## **Protected Object(s):**

Road and Settlement Area

## **Installed Systems:**

10x Avalanche Tower LS12-5

3x LIA<sup>®</sup> Laser Scanner

2x Wind Station

2x Webcam

WAC.3<sup>®</sup> Cockpit

## **Year:**

Installation since 2020



# Gemeinde Prato-Leventina and Gemeinde Quinto



**Place:** Prato Leventina  
and Quinto, TI

**Country:** Switzerland

**Protected Object(s):**

Road, Railway

**Installed Systems:**

3x Avalanche Tower LS12-5

1x IDA<sup>®</sup> Infrasonnd Detection System

WAC.3<sup>®</sup> operational software:  
Cockpit and Assessment

**Year:**

Installation since 2015

# Gemeinde Scuol



CUMÜN DA SCUOL

**Place:** Scuol, GR

**Country:** Switzerland

**Protected Object(s):**

Road

**Installed Systems:**

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment

**Year:**

Installed in 2020 and 2021

# Gemeinde Tschagguns



**Place:** Tschagguns, Vorarlberg

**Country:** Austria

**Protected Object(s):**

Road & Residential Area

**Installed Systems:**

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, NxD

**Year:**

Installed in 2023

*Photo credits: © Simon Vorhammer*

# Gemeinde Tujetsch



**Place:** Tujetsch, GR

**Country:** Switzerland

**Protected Object(s):**

Road, Railway

**Installed Systems:**

3x Avalanche Tower LS12-5

**Year:**

Installed in 2010

*Photo credits: © Gemeinde Tujetsch*

# Gemeinde Walenstadt



**Place:** Walenstadt, SG

**Country:** Switzerland

**Protected Object(s):**

Road, Residential area

**Installed Systems:**

7x Avalanche Tower LS12-5

WAC.3<sup>®</sup> operational software:

Cockpit, Communication,  
Explosives

**Year:**

Installations since 2021

# Gemeinde Zuoz



**Place:** Zuoz, GR

**Country:** Switzerland

**Protected Object(s):**

Road, Residential area

**Installed Systems:**

9x Avalanche Tower LS12-5

1x LIA® Laser Scanner

1x Wind station

1x Weather station

WAC.3® operational software

Cockpit, Assessment, Helicopter control, Communication

**Year:**

Installed in 2013, 2020, 2021

# Glacier 3000



GLACIER 3000

*High level experience.*

**Place:** Les Diablerets, VD

**Country:** Switzerland

**Protected Object(s):**

Road

**Installed Systems:**

2x Avalanche Tower LS12-5

**Year:**

Installed in 2017

*Photo credits: © Glacier 3000*

# KITZSTEINHORN

## Gletscherbahn Kaprun AG



**Place:** Kaprun

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

14x Avalanche Tower LS12-5

5x Mini Tower LS6-5

**Year:**

Installation since 2007

*Photo credits: © GBK*



# Golm Silvretta Lünersee Tourismus GmbH



**Place:** Golm, Vorarlberg

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

7x Mini Tower LS6-5

WAC.3<sup>®</sup> operational software:

Cockpit, Assessment,  
Explosives, NxD

**Year:**

Installed in 2023

# Gondelbahn Kandersteg-Oeschinensee



  
**KANDERSTEG**  
OESCHINENSEE

**Place:** Kandersteg, BE

**Country:** Switzerland

**Protected Object(s):**

Ski Resort, Hiking Trail

**Installed Systems:**

1x Avalanche Tower LS12-5

**Year:**

Installed in 2012

# Hinterstoder-Wurzeralm Bergbahnen AG



## WURZER<sup>ALM</sup>

**Place:** Wurzeralm

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

2x Avalanche Tower LS12-5

4x Mini Tower LS6-5

1x Weather station

1x LIA<sup>®</sup> Laser Scanner

1x Signal horn

**Year:**

Installed in 2019 and 2023

# illwerke vkw AG

**illwerke vkw**  
Energie für Generationen.

**Place:** Schruns

**Country:** Austria

**Protected Object(s):**

Access Road

**Installed Systems:**

3x Avalanche Tower LS12-5

**Year:**

Installed in 2012

# JUNGFRAU - TOP OF EUROPE

## Jungfrau Ski Region



**Place:** Grindelwald, BE  
**Country:** Switzerland

**Protected Object(s):**

Railway, Ski Resort, the famous int. Lauberhorn Race in Wengen

**Installed Systems:**

9x Avalanche Tower LS12-5  
1x Avalanche Tower LS24-5  
1x LIA® Laser Scanner

WAC.3® operational software:  
Cockpit, Explosives, Helicopter control, Piste inspection, Accidents

**Year:**

Installation since 2002

*Photo credits: © JUNGFRAU - TOP OF EUROPE*

# Kaunertaler Gletscherbahnen GmbH



**Place:** Kaunertal, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

24x Avalanche Tower LS12-5

6x Weather stations

**Year:**

Installed in 2021 and 2022

*Photo credits: © TVB Tiroler Oberland Kaunertal,  
Severin Wegener*

# Kleinwalsertaler Bergbahn AG



**Place:** Riezlern  
(Kanzelwand)

**Country:** Austria

**Protected Object(s):**  
Ski Resort

**Installed Systems:**  
4x Avalanche Tower LS12-5

**Year:**  
Installed in 2019 and 2021

*Photo credits: © Oberstdorf Kleinwalsertal  
Bergbahn AG*

# Klosters-Madrisa Bergbahnen AG



**MADRISA**  
GENIESSE DEN MOMENT

**Place:** Klosters, GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, Explosives,  
Helicopter control and integration  
of external avalanche systems

**Year:**

Installation since 2022

*Photo credits: © Klosters-Madrisa Bergbahnen AG*



# KSM Mining ULC

**KSM MINING ULC**  
A SUBSIDIARY OF SEABRIDGE GOLD INC.

**Place:** KSM Project, BC

**Country:** Canada

**Monitored Object(s):**

Remote Valley

**Installed Systems:**

2x IDA<sup>®</sup> Infrasonnd Detection System

2x monitoring cameras

**Year:**

Installed in 2021 and 2023

# Lauchernalp Bergbahnen



**Lauchernalp**  
L Ö T S C H E N T A L

**Place:** Lauchernalp, VS

**Country:** Switzerland

**Protected Object(s):**

Road and winter hiking trail

**Installed Systems:**

1x Avalanche Tower LS24-5

WAC.3® operational software:

Cockpit, Assessment,

Explosives, Piste inspection

**Year:**

Installed in 2023

# Lenzerheide Bergbahnen AG



*Arosa*   Lenzerheide

Lässt Herzen höher schlagen.

**Place:** Lenzerheide, GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

3x Avalanche Tower LS12-5

4x Bomb tramway

WAC.3<sup>®</sup> Cockpit

**Year:**

Installation since 2003

# Lötschental, VS



**Place:** Lötschental, VS  
(Communities Blatten, Wiler,  
Kippel, Ferden)

**Country:** Switzerland

**Protected Object(s):**  
Road, Residential area

**Installed Systems:**

1x IDA<sup>®</sup> Infrasonnd Detection  
System

2x GINA<sup>®</sup> Geophones in  
Avalanches

WAC.3<sup>®</sup> Cockpit

**Year:**

Installed in 2021

# Marktgemeinde Rauris



**Place:** Rauris  
**Country:** Austria  
**Operator:** Land Salzburg  
(Staßenmeisterei Pinzgau)

**Protected Object(s):**

Road

**Installed Systems:**

1x Avalanche Tower LS12-5  
1x Signal horn

**Year:**

Installed in 2019

# Matterhorn Gotthard Bahn Oberalppass



**Place:** Oberalppass, GR-UR

**Country:** Switzerland

**Protected Object(s):**

Railway

**Installed Systems:**

4x Avalanche Tower LS12-5

1x LIA<sup>®</sup> Laser Scanner

WAC.3<sup>®</sup> operational software:

Cockpit and Assessment

**Year:**

Installation since 2021

# Mattertal, VS



**Place:** Mattertal, VS  
(Community Randa,  
Täsch, St. Niklaus)

**Country:** Switzerland

**Protected Object(s):**

Road, Railway, Residential area

**Installed Systems:**

16x Avalanche Tower LS12-5  
1x IDA<sup>®</sup> Infrasonnd Detection system  
2x LIA<sup>®</sup> Laser Scanner

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, Helicopter  
control

**Year:**

Installation since 2004

# Ministry of Transportation and Infrastructure MoTI, BC



**Place:** Trans-Canada Highway,  
Rocky Mountain District

**Country:** Canada

**Protected Object(s):**  
Road, Buildings

**Installed Systems:**  
11x Avalanche Tower LS12-5

**Year:**  
Installed in 2016-2018

**Future**  
2 more towers will be installed in  
2024



# Newmont Corporation



**Place:** Brucejack mine

**Country:** Canada

**Protected Object(s):**

Road

**Installed Systems:**

12x Avalanche Tower LS12-5

**Year:**

Installed in 2019

NVRM



**Place:** Nendaz, Veysonnaz,  
Siviez, Mt-Fort, VS

**Country:** Switzerland

**Protected Object(s):**  
Ski resort

**Installed Systems:**

WAC.3<sup>®</sup> operational software:  
Cockpit, Explosives, Helicopter  
control

**Year:**  
Installation since 2023

# Parks Canada



**Place:** Glacier National Park

**Country:** Canada

**Protected Object(s):**

Road, Railway

**Installed Systems:**

5x Avalanche Tower LS12-5

1x LIA<sup>®</sup> Laser Scanner

1x Weather Station

13x IDA<sup>®</sup>

4x LARA<sup>®</sup>

WAC.3<sup>®</sup> Cockpit

**Year:**

Installed in 2017-2020

# Parks Canada



**Place:** Yoho National Park

**Country:** Canada

**Protected Object(s):**

Road, Railway

**Installed Systems:**

3x Avalanche Tower LS12-5

**Year:**

Installed in 2019 - 2020

# Pitztaler Gletscherbahn GmbH & CO KG

 **PITZTAL**  
**GLETSCHER  
RIFFLSEE**

**Place:** St. Leonhard  
im Pitztal

**Country:** Austria

**Protected Object(s):**  
Ski Resort

**Installed Systems:**  
3x Avalanche Tower LS12-5  
1x Mini Tower LS6-5  
1x Weather Station

**Year:**  
Installed in 2002 and 2021

# Pro Lucmagn



**Place:** Lukmanierpass,  
GR-TI

**Country:** Switzerland

**Protected Object(s):**

Road

**Installed Systems:**

2x Avalanche Tower LS12-5

WAC.3<sup>®</sup> operational Software:  
Cockpit, Assessment, Helicopter  
control

**Year:**

Installations since 2021

# Rhätische Bahn RhB

 **Rhätische Bahn**

**Place:** Val Bever, Sassal  
Masone (Bernina pass),  
Muot, Bergün GR

**Country:** Switzerland

**Protected Object(s):**

Railway

**Installed Systems:**

10x Avalanche Tower LS12-5

1x LIA<sup>®</sup> Laser Scanner

WAC.3<sup>®</sup> operational Software:  
Cockpit, Assessment

**Year:**

Installation since 2014


# RSD Fully



**Place:** Commune de Fully, VS

**Country:** Switzerland

**Protected Object(s):**  
Road and settlement area

**Installed Systems:**  
WAC.3<sup>®</sup> operational Software:  
Cockpit and Assessment  
Safety Concept from  **geoformer**  
INGENIEURE, GEOLOGEN, PLANER

**Year:**  
Installed in 2022

*Photo credits: © Cheseaux Gaylord*



# Saastal Bergbahnen AG und Gemeinde Saas-Fee

**Saas-Fee**  
Saastal

**Place:** Saas-Fee, VS

**Country:** Switzerland

**Protected Object(s):**

Ski Resort, Residential area

**Installed Systems:**

8x Avalanche Tower LS12-5

1x Bomb Tramway

WAC.3<sup>®</sup> operational software:  
Cockpit, Assessment, Explosives,  
Helicopter control, Piste  
inspection

**Year:**

Installation since 1994

# Schilthornbahn AG



**Place:** Mürren, BE  
**Country:** Switzerland

**Protected Object(s):**  
Ski Resort

**Installed Systems:**  
6x Avalanche Tower LS12-5  
2x Bomb tramway  
WAC.3<sup>®</sup> operational software:  
Cockpit, Explosives, Helicopter  
control, Accidents

**Year:**  
Installation since 1992

*Photo credits: © Schilthornbahn AG*

# Seilbahn Komperdell GmbH (Serfaus-Fiss-Ladis)



**Place:** Serfaus, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

5x Avalanche Tower LS12-5

3x Mini Tower LS6-5

**Year:**

Installed in 2011-2017

*Photo credits: © Andreas Kirschner*

# Silvrettaseilbahn AG, Ischgl



**Place:** Ischgl, Tyrol  
**Country:** Austria

**Protected Object(s):**  
Ski Resort

**Installed Systems:**  
74x Avalanche Tower LS12-5  
1x Weather station  
3x Temperature sensors  
WAC.3<sup>®</sup> operational Software:  
Cockpit, Assessment, Explosives  
and Helicopter control

**Year:**  
Installation since 2009

# Skiliftgesellschaft Hochfügen GmbH

**HOCHFÜGEN**  
ZILLERTAL

**Place:** Fügen, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

**Year:**

Installed in 2015

# Skiliftgesellschaft links der Breitach GmbH & CO KG, Ifen



**Place:** Riezlern

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

2x Mini Tower LS6-5

**Year:**

Installed in 2016 and 2019

*Photo credits: © Oberstdorf Kleinwalsertal  
Bergbahn*

# Skizentrum St. Jakob i.D. GmbH & Co KG



**Place:** St. Jakob i.D.

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Mini Tower LS6-5

**Year:**

Installed in 2023

*Photo credits: © Skizentrum St. Jakob i.D. GmbH & Co KG*

# Snowbird



**Place:** Snowbird, LCC Utah

**Country:** USA

**Protected Object(s):**

Ski Resort

**Installed Systems:**

17x Avalanche Tower LS12-5

**Year:**

Installation 2021 - 2023

**Future:**

6 more Towers are planned for 2025!

*Photo credits: © Chris Bremer, Snowbird, Utah*



# Solitude Mountain Resort



**Place:** Solitude, BCC Utah

**Country:** USA

**Protected Object(s):**

Ski Area

**Installed Systems:**

4x Avalanche Tower LS12-5

**Year:**

Installation 2022 - 2023

**Future:**

2 more Towers are planned for 2024!

*Photo credits: © Solitude Mountain Resort*

# Sportbahnen Melchsee-Frutt



**Place:** Kerns, OW

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

3x Avalanche Tower LS12-5

2x Mini Towers LS6-5

**Year:**

Installed in 2017 - 2020

*Photo credits: © Sportbahnen Melchsee-Frutt*

# Stadtgemeinde Saalfelden



**Place:** Saalfelden  
**Country:** Austria  
**Operator:** Land Salzburg  
(Staßenmeisterei Pinzgau)

**Protected Object(s):**  
Road

**Installed Systems:**  
3x Avalanche Tower LS12-5

**Year:**  
Installed in 2023

*Photo credits: © Stadtgemeinde Saalfelden*

# Stubai Bergbahnen



**Place:** Neustift, Tyrol

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

7x Avalanche Tower LS12-5

**Year:**

Installed in 2002 and 2013

# Télé Marécottes S.A. et Commune de Salvan



**TÉLÉ MARÉCOTTES**  
vallée du trient

**Place:** Les Marécottes, VS

**Country:** Switzerland

**Protected Object(s):**

Residential Area, Ski Resort

**Installed Systems:**

4x Avalanche Tower LS12-5

**Year:**

Installed in 2004 - 2021

*Photo credits: © Nicolas Falquet*

# Téléovronnaz SA



# OVRONNAZ

**Place:** Ovronnaz, VS

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

10x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

WAC.3<sup>®</sup> operational Software:  
Cockpit, Explosives, Helicopter  
control

**Year:**

Installed in 2001-2018

# Tiefbauamt Kanton Bern



**Place:** Guttannen, BE

**Country:** Switzerland

**Protected Object(s):**

Road

**Installed Systems:**

1x IDA<sup>®</sup> Infrasonnd Detection System

WAC.3<sup>®</sup> operational software:  
Cockpit and Assessment

**Year:**

Installed in 2018

**Remark:**

Operated by the Community  
of Guttannen from 2018-2021

# Tiefbauamt Kanton Graubünden



**Place:** Bernina and Maloja pass - Sils, Gonda, Samnaun and Zernez Street, GR

**District:** 3 Samedan, 4 Scuol, 6 Ilanz

**Country:** Switzerland

**Protected Object(s):**  
Road, Settlement area

**Installed Systems:**  
30x Avalanche Tower LS12-5  
3x LIA® Laser Scanner  
2x Webcams  
WAC.3® operational software:  
Cockpit, Assessment, Explosives

**Year:**  
Installation since 2001



# TITLIS Bergbahnen



**Place:** Engelberg, OW  
**Country:** Switzerland

**Protected Object(s):**  
Ski Resort

**Installed Systems:**

4x Avalanche Tower LS12-5  
2x Mini Tower LS6-5  
1x Bomb Tramway

WAC.3<sup>®</sup> operational software:  
Cockpit, Explosives, Helicopter control,  
Piste inspection

**Year:**

Installation since 1987

*Photo credits: © TITLIS Bergbahnen*

# TIWAG

## Tiroler Wasserkraft AG



TIWAG

**Place:** Kühtai, Tyrol

**Country:** Austria

**Protected Object(s):**

Access Road

**Installed Systems:**

23x Avalanche Tower LS12-5

2x Weather station

5x Signal horn

**Year:**

Installed in 2019 - 2021

# Utah Department of Transportation, UDOT



**Place:** Alta, UT

**Country:** USA

**Protected Object(s):**

Road and town

**Installed Systems:**

13x Avalanche Tower LS12-5

2x LIA® Laser Scanner

**Year:**

Installation 2017 - 2021

**Future:**

14 more Towers are planned for 2024!

*Photo credits: © UDOT's LCC Avalanche Team*

# Vallée du Trient



**VALLÉE DU TRIENT**  
espace mont-blanc

**Place:** Vallée du Trient, VS


**Country:** Switzerland

**Protected Object(s):**

Road, Cross-Country Circuit,  
Hiking Trail

**Installed Systems:**

WAC.3<sup>®</sup> operational Software:  
Cockpit and Assessment

Safety Concept from  **geoformer**  
INGENIEURE, GEOLGEN, PLANER  
in collaboration with Jean-Luc Lugon

**Year:**

Installed in 2019

*Photo credits: © Vallée du Trient*

# Weisse Arena Bergbahnen AG



WEISSE ARENA GRUPPE

**Place:** Laax, GR

**Country:** Switzerland

**Protected Object(s):**

Ski Resort

**Installed Systems:**

5x Avalanche Tower LS12-5

1x Mini-Tower LS6-5

**Year:**

Installation since 2021

*Photo credits: © LAAX / Danuser Gaudenz*

# Weißsee Gletscherwelt



**Place:** Uttendorf

**Country:** Austria

**Protected Object(s):**

Ski Resort

**Installed Systems:**

1x Avalanche Tower LS12-5

**Year:**

Installed in 2010

# Zauchensee Liftgesellschaft Benedikt Scheffer GmbH



**Place:** Zauchensee  
**Country:** Austria

**Protected Object(s):**  
Access Road

**Installed Systems:**  
1x Avalanche Tower LS12-5  
1x Signal horn  
1x LIA® Laser Scanner

**Year:**  
Installed in 2019



zb Zentralbahn AG

 Die Zentralbahn.

**Place:** Brienergrat, BE

**Country:** Switzerland

**Protected Object(s):**

Railway, Road, Residential Area

**Installed Systems:**

WAC.3<sup>®</sup> operational Software:

Cockpit and 2x Assessment

Integration of external avalanche  
detection systems

**Year:** Installed in 2021

**Remark:**

in collaboration with the  
community of Brienz &  
department of transportation  
canton bern



# Zermatt Bergbahnen AG



**Place:** Zermatt, VS

**Country:** Switzerland

**Protected Object(s):**

Railway, Ski Resort

**Installed Systems:**

55x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

1x PETRA® People Tracking  
Radar

1x LIA® Laser Scanner

WAC.3® operational software:  
Cockpit, Explosives, Helicopter  
control

**Year:** Installation since 2004

*Photo credits: © Christian Pfammatter*



# Safety through innovation



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