

References

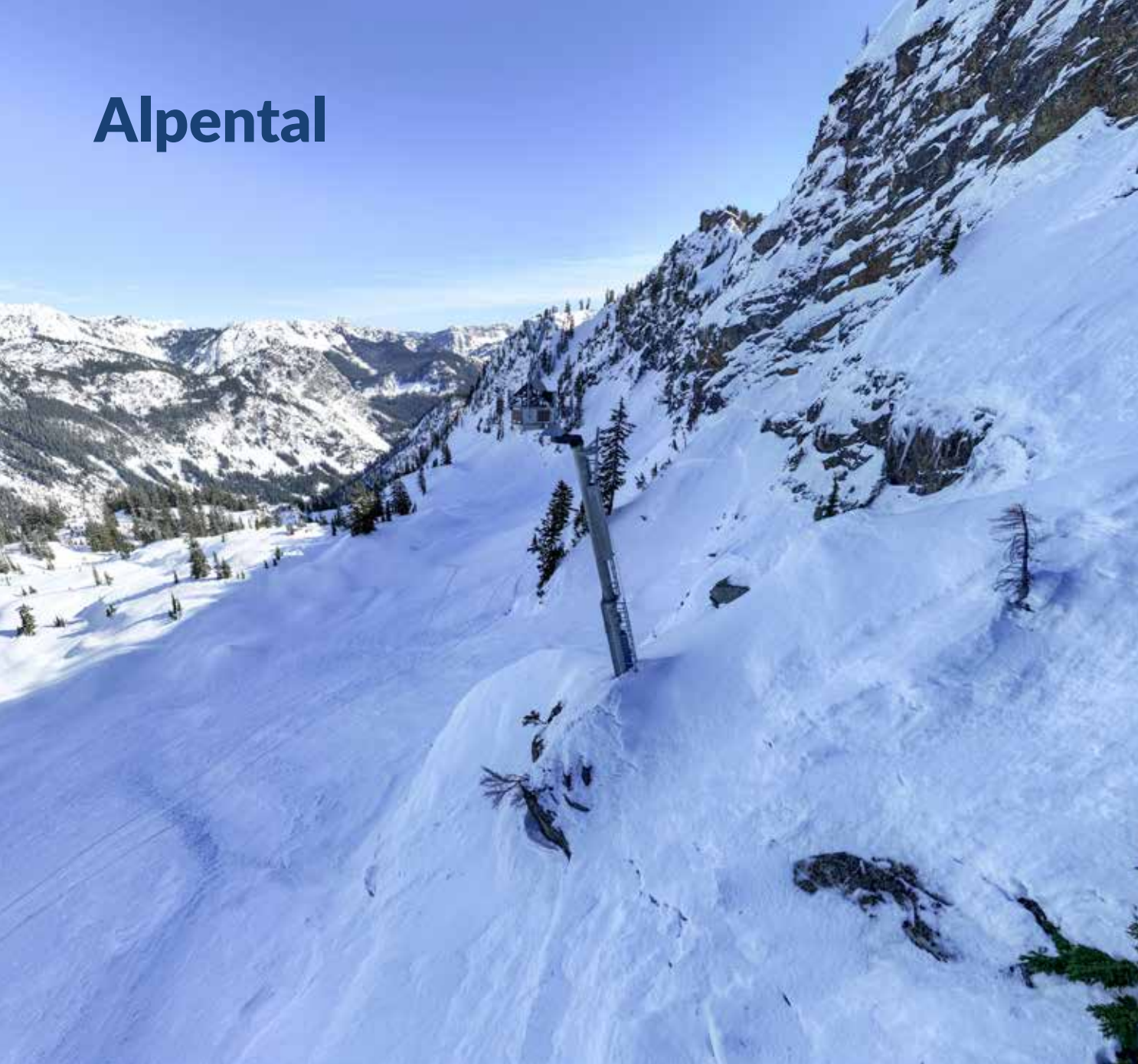
Wyssen Avalanche Control AG



Safety through **innovation**

wyssen *avalanche*
switzerland **control**

Alpentel



Place: Alpentel, WA

Country: USA

Protected Object(s):

Ski resort

Installed Systems:

2x Avalanche Tower LS12-5

Year:

Installed in 2024

Photo credits: © Alpentel

Alta Ski Area



Place: Alta, Utah

Country: USA

Protected Object(s):

Ski Resort

Installed Systems:

18x Avalanche Tower LS12-5

Year:

Projects since 2021

Andermatt-Sedrun Sport AG



SkiArena
ANDERMATT + SEDRUN

Place: Andermatt, UR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

19x Avalanche Tower LS12-5

WAC.3® operational software:
Cockpit, Assessment, Piste
inspection, Explosives, Accidents,
Helicopter control via digital
radio device

Year:

Projects 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 Towers LS12-5

7x GINA® Geophones in
Avalanches

11x LIA® Laser Scanner

Construction:

Construction installation of all
Wyssen RACS in high altitude

Year: Projects since 2018



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[®] 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® Infrasonnd Detection System
WAC.3® 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:

10x Avalanche Tower LS12-5

WAC.3[®] 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[®] 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

The logo for KitzSki, featuring the brand name in a white, bold, sans-serif font on a red rectangular background.

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 Adelboden -Lenk



Place: Adelboden/Lenk BE

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Explosives,
Piste inspection

Year:

Installed in 2024

Photo credits: © Phil Wenger

Bergbahnen Disentis



Place: Disentis/Mustér GR

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Assessment,
Explosives

Year:

Installed in 2024

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

WAC.3[®] Cockpit

Year:

Projects since 2000

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[®] operational Software:
Cockpit, Assessment,
Explosives, Helicopter control,
Accidents

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 Meiringen-Hasliberg AG



Bergbahnen Meiringen-Hasliberg



Place: Hasliberg, BE

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Assessment,
Explosives, Helicopter control,
Piste inspection

Year:

Installed in 2024

Photo credits: © Bergbahnen Meiringen-Hasliberg AG

Bergbahnen Obertauern GmbH



Place: Obertauern

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

8x Avalanche Tower LS12-5

3x Signal horn

WAC.3[®] operational software:
Explosives

Year:

Projects since 2012

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
2x Avalanche Tower LS24-5

WAC.3[®] operational software:
Cockpit Pro, Assessment,
Explosives, Piste inspection,
Helicopter control, Accidents

Year:

Projects since 2001

Bergbahnen Scuol



Place: Scuol, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

WAC.3[®] operational software:
Cockpit Pro, Assessment,
Piste inspection, Accidents
Helicopter control

Year:

Projects since 2025

Bergbahnen See Ges.m.b.H.



BERGBAHNEN SEE

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 and
2016

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

Bergbahnen Sörenberg AG



Place: Sörenberg, LU

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Explosives

Year:

Installed in 2024

Bergbahnen Wildhaus AG



Place: Wildhaus, SG

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Explosives

Year:

Installed in 2024

Photo credits: © Bergbahnen Wildhaus AG

Canadian National Railway Company



Place: Valemount

Country: Canada

Protected Object(s):

Railway

Installed Systems:

2x Avalanche Tower LS12-5

Communication:

Radio and satellite

Year:

Installed in 2019 and 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[®] Cockpit

Year:
Installed in 2023

Codelco Andina



Place: Los Andes, V Región
Country: Chile

Protected Object(s):
Copper Open Pit Mine

Installed Systems:
53x Avalanche Towers LS12-5
3x IDA®, 10x GINA®, 4xLIA®
WAC.3® operational software:
Cockpit, Assessment, ComTool

Construction:
Construction installation of 33x
Wyssen RACS in high altitude

Services:
Winter operation in Andina Mine
2018-2030

Year: Various installations from 2018-
2024

Colorado Department of Transportation, CDOT



Place: Lizard Head Pass, CO

Country: USA

Protected Object(s):

Highway 145

Installed Systems:

8x Avalanche Tower LS12-5

Year:

Projects since 2020

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: Projects 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:

14x 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, Piste inspection, NxD

Year: Projects 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[®] operational software:
Cockpit , Assessment,
Explosives, Helicopter control,
Piste inspection, Accidents

Year:
Projects since 2003

Engadin St. Moritz Mountains



Place: St. Moritz, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

5x Avalanche Towers LS12-5

1x Mini Tower LS6-5

2x Bomb Tramway

WAC.3[®] operational software:

Cockpit, Helicopter control

Year:

Projects since 2008

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[®] Laser Scanner

WAC.3[®] operational software:

Cockpit, Explosives Pro, Helicopter

control, Piste inspection

Year:

Projects since 2016

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[®] operational software:
Cockpit Pro, Assessment,
Explosives Pro, Helicopter control
NxD, Piste Inspection

Year:
Projects since 2023

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

Gasteiner Bergbahnen

www.skigastein.com



Place: Gasteiner Valley

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

6x Avalanche Tower LS12-5

Year:

Various installations from
2006-2012

Gemeinde Bergün Filisur



Place: Bergün Filisur GR

Country: Switzerland

Protected Object(s):

Hiking trails, Cross-country ski trails, Snowshoe trails, Toboggan runs, Roads, Railway

Installed Systems:

WAC.3® operational software:
Cockpit, Assessment,
Piste inspection, ComTool

Year:

Installed in 2024

Remark:

Operator of the 4 Avalanche Towers LS12-5 of the Rhaetian Railway (RhB) in the municipal area



Gemeinde Davos



Place: Davos, GR
Country: Switzerland

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

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

Year:
Installed in 2010, 2017 and 2019

Gemeinde Disentis



Place: Disentis, GR

Country: Switzerland

Protected Object(s):

Infrastructure

Installed Systems:

WAC.3[®] 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[®] Geophones in
Avalanches

1x Alert system

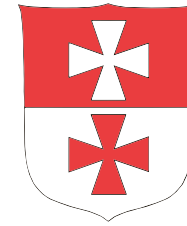
WAC.3[®] Cockpit

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[®] Infrasonnd Detection System

1x GINA[®], 1x SARA[®]

WAC.3[®] operational Software:
Cockpit and Assessment

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

Raphael Imsand and the avalanche
warning service

Year:

Projects since 2008

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[®] 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[®] 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 und Bergbahnen Leukerbad



LEUKERBAD
GEMEINDE

Place: Leukerbad, VS

Country: Switzerland

Protected Object(s):

Ski resort, Road and Settlement area

Installed Systems:

WAC.3[®] operational software:
Cockpit, Explosives and NxD

Year:

Installed in 2024

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[®] Laser Scanner

2x Wind Station

2x Webcam

WAC.3[®] Cockpit

Year:

Projects 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[®] Infrasonnd Detection System

WAC.3[®] operational software:
Cockpit and Assessment

Year:

Projects since 2015

Gemeinde Scuol



CUMÜN DA SCUOL

Place: Scuol, GR

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

WAC.3[®] 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[®] operational software:
Cockpit Pro, 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 Vordernberg



Place: Vordernberg, Steiermark

Country: Austria

Protected Object(s):

Road & Ski Resort

Installed Systems:

1x Mini Tower LS6-5

1x GINA® Geophones in
Avalanches

Year:

Installed in 2026

Gemeinde Walenstadt



Place: Walenstadt, SG

Country: Switzerland

Protected Object(s):

Road, Residential area

Installed Systems:

7x Avalanche Tower LS12-5

WAC.3[®] operational software:

Cockpit, Communication,
Explosives

Year:

Projects 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 and 2021

Glacier 3000



GLACIER 3000

High level experience.

Place: Les Diablerets, VD

Country: Switzerland

Protected Object(s):

Road and Ski resort

Installed Systems:

2x Avalanche Towers LS12-5

WAC.3[®] operational software

Cockpit Pro, Explosives Pro,

Helicopter control, Piste

inspection

Year:

Projects since 2017

Photo credits: © Glacier 3000

KITZSTEINHORN

Gletscherbahn Kaprun AG



Place: Kaprun

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

14x Avalanche Towers LS12-5

5x Mini Towers LS6-5

Year:

Projects 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[®] operational software:
Cockpit Pro, Assessment,
Explosives, NxD, Accidents and
Piste inspection

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

Grossglockner Hochalpenstrassen AG



Place: Grossglockner High
Alpine Road

Country: Austria

Protected Object(s):
Road

Installed Systems:
2x Avalanche Tower LS12-5
1x Weather station

Year:
Installed in 2024

Hinterstoder-Wurzeralm Bergbahnen AG



WURZERALM

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[®] 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:

10x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

1x Avalanche Tower LS6-5

1x LIA® Laser Scanner

WAC.3® operational software:

Cockpit, Explosives, Helicopter

control, Piste inspection, Accidents

Year:

Projects since 2002

Photo credits: © JUNGFRAU - TOP OF EUROPE

Kaunertaler Gletscherbahnen GmbH



Place: Kaunertal, Tyrol

Country: Austria

Protected Object(s):

Ski Resort & Access Road

Installed Systems:

24x Avalanche Tower LS12-5

6x Weather stations

Year:

Projects since 2021

*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[®] operational software:
Cockpit, Assessment, Explosives,
Helicopter control, Piste inspection
and integration of external
avalanche systems

Year:

Projects 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[®] Infrasond Detection System

2x monitoring cameras

Communication:

fully remote satellite communication

Year:

Installed in 2021 and 2023

Lauchernalp Bergbahnen



Lauchernalp
LÖTSCHENTAL

Place: Lauchernalp, VS

Country: Switzerland

Protected Object(s):

Road and winter hiking trail

Installed Systems:

3x Avalanche Towers LS24-5

WAC.3® operational software:

Cockpit, Assessment,

Explosives, Piste inspection

Year:

Projects since 2023

Lenzerheide Bergbahnen AG



Lässt Herzen höher schlagen.

Place: Lenzerheide, GR

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

9x Avalanche Tower LS12-5

4x Bomb tramway

WAC.3[®] Cockpit

Year:

Projects since 2003

Lötschental, VS



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

Country: Switzerland

Protected Object(s):
Road, Residential area

Installed Systems:
1x IDA[®] Infrasonnd Detection
System
2x GINA[®] Geophones in
Avalanches
WAC.3[®] 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[®] Laser Scanner

WAC.3[®] operational software:

Cockpit and Assessment

Year:

Projects 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[®] Infrasound Detection system
2x LIA[®] Laser Scanner

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

Year:

Projects since 2004

Ministry of Transportation and Transit, BC



Ministry of
Transportation
and Transit

Place: Trans-Canada Highway,
Rocky Mountain District

Country: Canada

Protected Object(s):
Road, Buildings

Installed Systems:
13x Avalanche Tower LS12-5

Communication:
Mobile network communication,
backup radio

Year:
Projects since 2016

Newmont Corporation



Place: Brucejack mine

Country: Canada

Protected Object(s):

Road

Installed Systems:

12x Avalanche Tower LS12-5

Communication:

Permanent radio linked internet connection

Backup: Direct radio, satellite.

Year:

Installed in 2019

NVRM



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

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

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

Year:

Projects since 2023

Parks Canada

An aerial photograph of a mountain valley. The mountains are covered in snow and have rocky slopes. A road and railway tracks run through the valley. The sky is overcast.

Place: Glacier National Park
Country: Canada

Protected Object(s):
Road, Railway

Installed Systems:

5x Avalanche Tower LS12-5
1x LIA[®] Laser Scanner
1x Weather Station
13x IDA[®]
4x LARA[®]

WAC.3[®] operational software:
Cockpit, Assessment

Communication:

Towers: Mobile network, backup
direct radio
Detection systems: mobile
network

Year:

Projects since 2017

Parks Canada



Place: Yoho National Park

Country: Canada

Protected Object(s):

Road, Railway

Installed Systems:

3x Avalanche Tower LS12-5

Communication:

Mobile network

Backup: Direct radio and tower to tower radio links

Year:

Installed in 2019 and 2020

Pitztaler Gletscherbahn GmbH & CO KG

 **PITZTAL**
**GLETSCHER
RIFFLSEE**

Place: St. Leonhard im Pitztal

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

4x Avalanche Towers LS12-5

1x Mini Tower LS6-5

1x Weather Station

WAC.3® operational software:

Explosives

Year:

Projects since 2002

Pizolbahnen AG



pizol
Bad Ragaz – Wangs

Place: Bad Ragaz, SG

Country: Switzerland

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] operational software:
Cockpit, Assessment,
Helicopter control, Piste
inspection

Year:

Installed in 2024

Photo credits: © Pizolbahnen AG

Pro Lucmagn



Place: Lukmanierpass,
GR-TI

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

2x Avalanche Tower LS12-5

WAC.3[®] operational Software:
Cockpit, Assessment, Helicopter
control

Year:

Projects since 2021

Rhätische Bahn RhB

 **Rhätische Bahn**

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

Country: Switzerland

Protected Object(s):
Railway

Installed Systems:

10x Avalanche Tower LS12-5
1x LIA[®] Laser Scanner
WAC.3[®] operational Software:
Cockpit, Assessment

Year:

Projects since 2014


RSD Fully



Place: Commune de Fully, VS

Country: Switzerland

Protected Object(s):
Road and settlement area

Installed Systems:
WAC.3[®] 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[®] operational software:
Cockpit, Assessment, Explosives,
Helicopter control, Piste
inspection, Accidents

Year:

Projects 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[®] operational software:
Cockpit, Explosives, Helicopter
control, Accidents, Piste inspection

Year:

Projects since 1992

Photo credits: © Schilthornbahn AG

Schweizerische Bundesbahnen SBB



Place: Gotthard Nord UR,
Solco TI

Country: Switzerland

Protected Object(s):

Railway

Installed Systems:

2x GINA[®] Geophones in
Avalanches

WAC.3[®] operational software:
Cockpit, Assessment, Explosives

Year:

Projects since 2024

Photo credits: © SBB CFF FFS

Seilbahn Komperdell GmbH (Serfaus-Fiss-Ladis)



Place: Serfaus, Tyrol

Country: Austria

Protected Object(s):

Ski Resort

Installed Systems:

14x Avalanche Towers LS12-5

3x Mini Tower LS6-5

Year:

Various installations from
2011-2017

Photo credits: © Andreas Kirschner

Silvrettaseilbahn AG, Ischgl



Place: Ischgl, Tyrol
Country: Austria

Protected Object(s):
Ski Resort

Installed Systems:
83x Avalanche Tower LS12-5
1x Weather station
3x Temperature sensors
WAC.3[®] operational Software:
Cockpit Pro, Assessment Pro,
Explosives, Helicopter control, Piste
inspection, Accidents, Snowprofiler

Year:
Projects 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:

21x Avalanche Tower LS12-5

Year:

Projects since 2021

Photo credits: © Chris Bremer, Snowbird, Utah

Solitude Mountain Resort



Place: Solitude, BCC Utah

Country: USA

Protected Object(s):

Ski Area

Installed Systems:

8x Avalanche Tower LS12-5

WAC.3[®] operational software:

Cockpit, Assessment Pro

Year:

Projects since 2022

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

WAC.3[®] operational software:

Cockpit , Explosives, Piste

inspection, Accidents

Year:

Projects since 2017

Photo credits: © Sportbahnen Melchsee-Frutt

Stadtgemeinde Saalfelden



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

Protected Object(s):
Road

Installed Systems:
5x Avalanche Towers LS12-5
1x LIA® Laser Scanner

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

WAC.3® operational Software:

Helicopter control

Year:

Installed in 2002 and 2013

Sun Peaks



Place: Sun Peaks, BC

Country: Canada

Protected Object(s):

Ski resort

Installed Systems:

WAC.3[®] Cockpit

Year:

Installed in 2024

Photo credits: © Sun Peaks Resort/ Reuben Krabbe

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:

Various installations from
2004 - 2021

Photo credits: © Nicolas Falquet

Téléovronnaz SA



Place: Ovronnaz, VS

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

10x Avalanche Tower LS12-5

1x Avalanche Tower LS24-5

WAC.3[®] operational Software:

Cockpit, Explosives

Year:

Various installations from

2001-2018

Tiefbauamt Kanton Bern



Place: Guttannen, BE

Country: Switzerland

Protected Object(s):

Road

Installed Systems:

1x IDA[®] Infrasonnd Detection System

WAC.3[®] operational software:

Cockpit and Assessment

Year:

Installed in 2018

Remark:

Operated by the Community of Guttannen from 2018-2021

Tiefbauamt Kanton Graubünden



Place: Bernina & Maloja pass -
Sils, Gonda, Val Funtana,
Samnaun & Zernez Street, GR

District: 3 Samedan, 4 Scuol,
6 Ilanz

Country: Switzerland

Protected Object(s):
Road, Settlement area

Installed Systems:

4x Avalanche Tower LS24-5
30x Avalanche Tower LS12-5
5x LIA® Laser Scanner
4x Webcams

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

Year:
Projects since 2001

TITLIS Bergbahnen



Place: Engelberg, OW

Country: Switzerland

Protected Object(s):

Ski Resort

Installed Systems:

8x Avalanche Tower LS12-5

3x Mini Tower LS6-5

1x Bomb Tramway

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

Year:

Projects since 1987

Remark:

Cockpit and Piste inspection are also in use
in the summer (to ensure bike trails)

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:

Various installations from
2019 - 2021

Utah Department of Transportation, UDOT



Place: Alta, UT

Country: USA

Protected Object(s):

Road and town

Installed Systems:

29x Avalanche Tower LS12-5

2x LIA® Laser Scanner

1x Weather Station

Year:

Various installations from 2017 -
2024

Photo credits: © UDOT's LCC Avalanche Team

Val de Bagnes



COMMUNE DE
VAL DE BAGNES

Place: Val de Bagnes, VS

Country: Switzerland

Protected Object(s):

Settlement area (Verbier)

Installed Systems:

3x Avalanche Towers LS12-5

1x LIA[®] Laser Scanner

Year:

Installed in 2025

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[®] operational Software:
Cockpit and Assessment

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

Year:

Installed in 2019

Photo credits: © Vallée du Trient

Washington DOT



Place: Snoqualmie Pass, WA
Country: USA

Protected Object(s):
Road (Interstate 90)

Installed Systems:
6x Avalanche Towers LS12-5

Year:
Installed in 2025

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:

Projects 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[®] 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: Projects since 2004

Photo credits: © Christian Pfammatter



Safety through innovation



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