

Safe Kids
WELTWEIT

Skiing Accidents and Injury Prevention

The Styrian Certificate for Skiing Slopes

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Partners

Government of Styria
Dept. of Tourism

Styrian Chamber of Economics
Dept. of Transport

Das Land Steiermark

Styria

WKO

Styria

Safe Kids Austria

Skiing Resorts

The Styrian Certificate for Skiing Slopes

Max Kleinoscheg und Toni Schruf
1890s

100 years

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Indicators

Safety standards for skiing slopes and cable railways
(preparing of slopes, closure, permanent check and service)

Information
(weather, snow, rescue facilities, FIS-rules)

Orientation
(Panorama boards, number of slopes, guidance of skiers)

Documentation
(rescue team, first aid facilities, standardized recording, safety circle)

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History

1999/2000

Certificate – Version 1: Marketing Tool

Certificate – Version 2: Quality Tool

2011

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Timeline

Primary check of the skiing area:

- Member of the Styrian government
- Technician (cable-railway expert)
- Approved expert for skiing slopes (FS)
- Member of „Safe Kids Austria“

Get the certificate

- for 3 years

Site visits

- without announcement

Analysis of accident data

- Annually
- During and after the season

Regular check (after 3 years)

- for renewing the certificate

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Information




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Safety facilities






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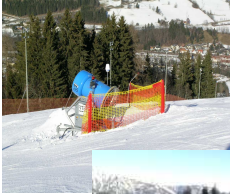
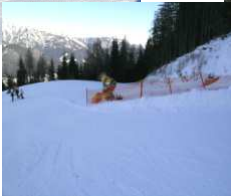

Orientation

Panorama boards
Slopes: open – closed
Lifts: in-out of order
Location of rescue teams

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Securing of Snow guns

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On Slopes





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Slope boarder




Nets




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Entrance to lifts




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Recording of accidents

Name: _____ Vorname: _____ Nachname: _____ Geburtsdatum: _____ Geburtsort: _____ Beruf: _____ Wohnort: _____ Telefon: _____ E-Mail: _____		Unfallort: _____ Datum: _____ Uhrzeit: _____ Wetter: _____ Sichtweite: _____ Temperatur: _____ Windrichtung: _____ Windstärke: _____ Schneehöhe: _____ Schneefestigkeit: _____ Eisbildung: _____ Frost: _____ Nebel: _____ Regen: _____ Schneehaube: _____ Schneehöhe: _____ Schneefestigkeit: _____ Eisbildung: _____ Frost: _____ Nebel: _____ Regen: _____ Schneehaube: _____	
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Personal data Location, altitude Date, time slope name

Activity: Ski, Snowboard Cause of accident: Fall, collision Consciousness: normal - unconsciousness




Transport: AKG, Skibus, Heli Slope: normal, icy, deep snow Body part: Head, Chest, etc.

Further transport: RKW, NAW Weather: sunny, cloudy, fog, snowing

Injury: fracture, brain conc. etc. Hospital: transferred Location of accident: slope, border line, free area route


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Ski-Kindergarten

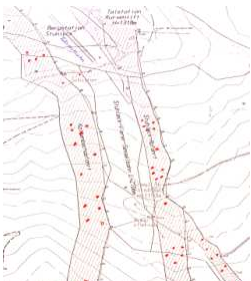
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Documentation






Rescue teams

- First aid -- definite treatment (Notfallkoffer, AGN)
- Accident documentation
- Safety circle



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Safety measures

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Results Seas on 2009/2010

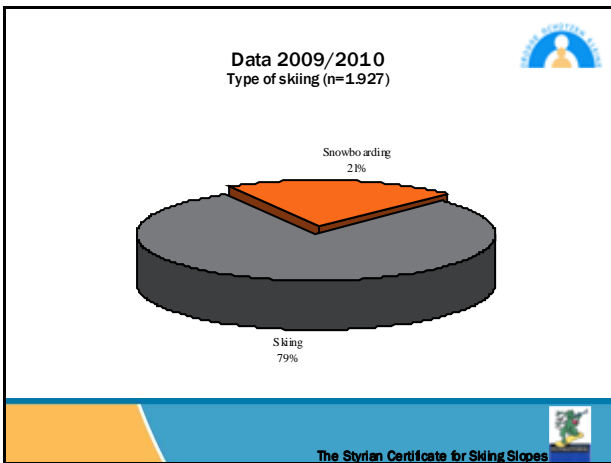
Analyses of the Data

Season 2009 - 2010

13 skiing areas / 85% skiing facilities

N= 1.999 accident data

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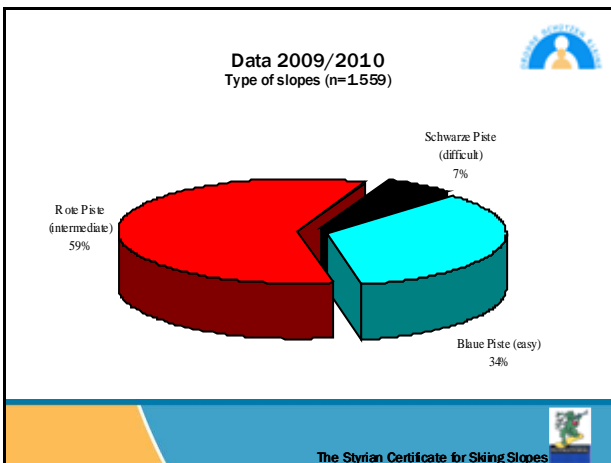
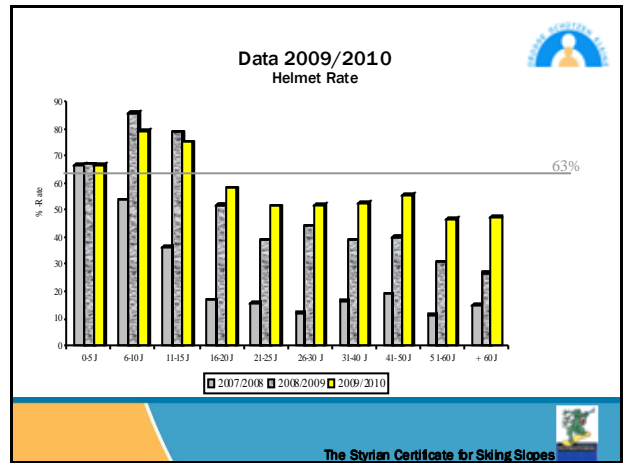
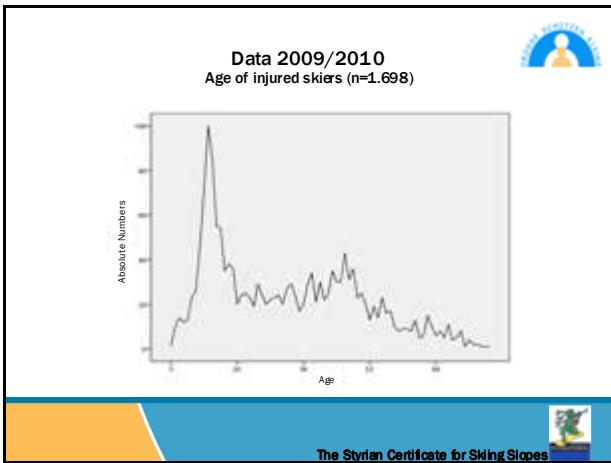


Data 2009/2010

Average Age

Injured People	32a	Single fall	31a
Wearing Helmets	29a	Crash with persons	39a
Head Injuries	35a	Crash with obstacles	28a
Upper Limbs	29a	Skier	35a
Lower Limbs	33a	Snowboarder	21a
		Guest for a day	32,4a
		Tourist	32,4a

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Results after 10 years

Analysis of 4 Skiing Resorts

(Changing of Accidents per Skier days)

Resort	Season Start	Season Last	Effect
Resort 1:	since 2000/01	2009/10	-40%
Resort 2:	since 2000/01	2009/10	-21%
Resort 3:	since 2002/03	2009/10	- 3%
Resort 4:	since 2002/03	2009/10	-11%

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Benchmarking



Austria	1997/98	1,43 Injuries per 1,000 Skier days
	2002/03	1,30
South Tyrol	2001/02	2,05
Styria	2008/09	1,16

