



INTERNATIONAL SKI INSTRUCTORS ASSOCIATION
INTERNATIONALER SKILEHRERVERBAND
ASSOCIATION INTERNATIONALE DES MONITEURS DE SKI

The ISIA Minimum Standard

Guidelines for Safety

And something more

Vittorio CAFFI





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Why safety?

As every human activity, snowsports involve a certain degree of risk





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Snowsports teachers' role

To make sure
that the risk level is
close to 0 and the
customers enjoy their
activities and stay safe





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ISIA Minimum Standard for Safety

- **2.2. Safety on and off-piste**
(ISIA performance **level 2**)



- **3.2. ISIA test safety**
(ISIA performance **level 3**)





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ISIA Safety events 2011-12

Budapest – 10th – 11th of October 2011

- 22 Nations

Andorra, Argentina, *Bulgaria*, Czech Republic, Finland, *Germany*, *Great Britain*, Greece, Hungary, *Ireland*, *Italy*, Japan, Poland, *Romania*, Russia, *San Marino*, Slovakia, *Slovenia*, Spain, Switzerland, *The Netherlands*, United States of America

- *Proceedings* on line on the ISIA events page 2011

<http://www.isiaski.org/en/6/2011.html>

Andorra

Denmark

Finland



Italy



Japan



Liechtenstein



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Safety areas in snowsports



Davos ISIA Safety Event





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ISIA Safety events 2011-12

Davos – 29th of March – 1st of April 2012

- 19 Nations

Andorra, Bulgaria, Czech Republic, Finland, Germany, Great Britain, Ireland, Israel, Italy (South Tyrol), Montenegro, New Zealand, Norway, Poland, Romania, Russia, San Marino, Slovenia, Switzerland, The Netherlands

- 2 days meeting on snow and by the SLV





Questions to address

- What are the skills to assess in the ISIA Minimum Standard for Safety?
- How to assess such skills?
- How long the courses should be?
- Who can deliver safety courses and assess?
- Outcomes for the Snowsports Teacher?



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ISIA Minimum Standard for Safety



2.2. Safety on and off-piste

The candidate must be able to assess winter and mountain hazards (weather, avalanches and terrain) correctly, respond and behave appropriately, and be able to take immediate action in the event of an accident.

The candidate will be familiar with and able to implement FIS rules.

(ISIA performance level 2)



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ISIA Minimum Standard for Safety



3.2. ISIA test safety

The candidate will be able to plan and undertake off-piste runs with guests (not glacier or rock runs) **independently**.

S/he will be familiar with the necessary equipment (compass, altimeters, geographic maps, avalanche transceivers, probe poles etc.) and methods for analysing the avalanche situation, and will be able to draw the necessary conclusions. S/he will be able to read, understand and interpret avalanche bulletins and weather forecasts. In the event of an accident, s/he will be able to respond immediately, coordinate the rescue and provide first aid.

(ISIA performance **level 3**)



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ISIA Stamp – skills for Safety



FIS rules knowledge

Ability to evaluate winter and mountain hazards

- weather
- terrain
- avalanches

Ability to behave in the proper way in case of accident

- group management and emergency calls
- support to rescue team (probing and heli platform preparation under guidance of experts)

(ISIA performance level 2)



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ISIA Card – skills for safety



Ability to lead off piste independently

Ability to evaluate winter and mountain hazards

- weather
- terrain
- avalanches

Ability to behave in the proper way in case of accident

- group management and emergency calls
- **organise** rescue team (probe line and heli platform)

(ISIA performance **level 3**)



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ISIA Safety– assessment

Equipment knowledge

- Using touring equipment
- Maps and orienteering tools (compass, GPS...)



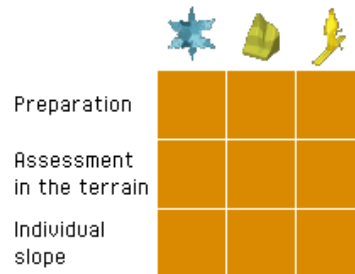
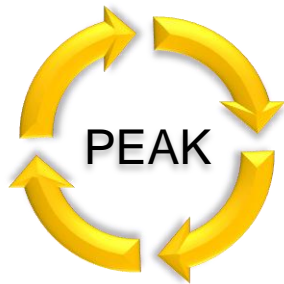


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ISIA Safety– assessment

Leading a group off piste

- PEAK method
- 3X3 method
- Route selection and safe stopping spots.
- Basic navigation with instruments
- Being able to read a map, identify position and route on it
- Navigation without instruments





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ISIA Safety– assessment

Avalanche and meteo awareness:

- Being able to interpret meteo forecast
- Being able to interpret avalanche report (1-5 scale)
- Graphic Reduction Method
- 3X3 method
- Interpreting on site info, including snow profile and
- Rutsch block test

5 Extreme	
4 High	
3 Considerable	
2 Moderate	
1 Low	



Weather

How will the weather develop and what influence will it have on the avalanche danger?

Snow/snowpack

How much snow is there? What is the layering of the snowpack?



Danger plot

On which slope aspects, altitudes and terrain are the dangerous areas mostly located?





ISIA Safety– assessment

Transceiver Search

- Searching 1 transceiver, in 50x50m area, buried in sac 50-70cm deep, start out of range, search and probe for it in 4mins
- Searching 2 transceiver, in 25x25m area, buried in sac 100cm deep, start out of range, search and probe for it in 6 mins

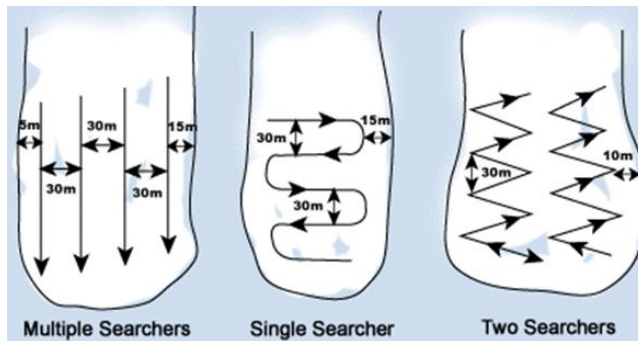




ISIA Safety– assessment

Avalanche Search Organisation

- Being able to participate and collaborate in rescue operations, involving probe line, helicopter and incident report
- First aid
- Being able to organise and coordinate rescue Operations





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ISIA Safety– assessment

Personal Performance off piste

- Continuous linked turns controlling speed and line in all off piste snow(powder, crust etc)
- Legal aspects





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ISIA Safety– courses duration



6 days of practical course
+
2 days of first aid course



6 days practical course
and
possibly a logbook of ski touring experience



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ISIA Stamp – outcomes



Instructors have the skills enabling them to

- lead off piste, inside the boundaries of an **organised ski area** (excluding glaciers), meaning the area served by lifts, and where it is possible to be back on piste directly, at any moment, with no need for other equipment, and where patrollers can easily intervene with an alpine sledge;
- lead on marked ski itineraries.

NB: ALWAYS INSIDE THE LIMITS IMPOSED BY THE LOCAL LAWS!



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ISIA Card – outcomes



Instructors have the skills enabling them to

- lead ski tours anywhere in the mountains on non-glacial terrain not involving the use of ice axe, crampons, rope or overnight stays.
- organise and lead rescue operations in case of need.

NB: ALWAYS INSIDE THE LIMITS IMPOSED BY THE LOCAL LAWS!



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ISIA Safety – who can deliver

Courses organised under the National Snowsports Teacher Association (ISIA member),

Coordinated by

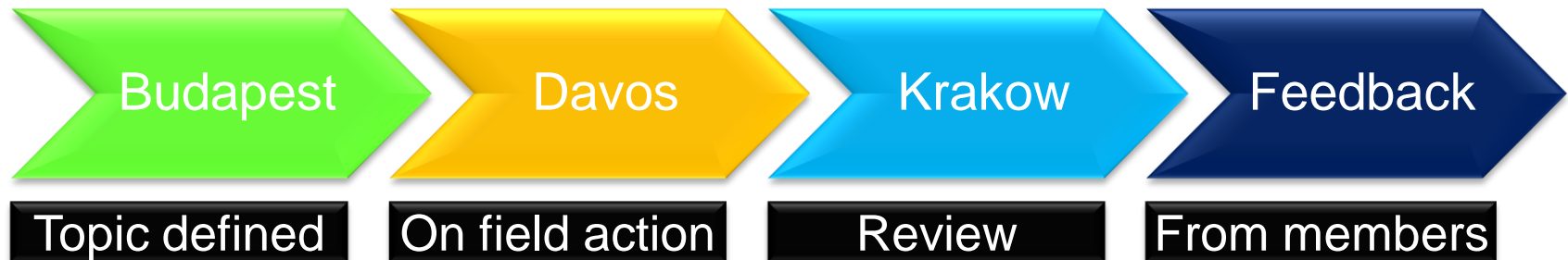


•International Mountain Guides




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Summary ISIA Safety 2011-12



References

- *Proceedings* of the ISIA safety event in Budapest
<http://www.isiaski.org/en/6/2011.html>
- DSLV  Protocol for the safety test
- This presentation



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Feedback



To be submitted in writing

Deadline: 1st September 2012

Adoption: 1st November 2012



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Minimum Standard Control

Quality control of the Professional Ski teachers with

1. ISIA Stamp
2. ISIA Card
3. ISIA Database

Outcome

Increase the professional level all over the world

Improve the profession image

Promote the reciprocal respect and trust



Members' status 2008

NATION	STAMP	CARD
Argentina	Yes	Yes
Austria	Yes	Yes
Belgium	Yes	Yes
Denmark	Yes	Yes
France	Yes	Yes
Germany	Yes	Yes
Great Britain	Yes	Yes
Japan	Yes	Yes
Italy	Yes	Yes
Netherland	Yes	Yes
Spain	Yes	Yes
Switzerland	Yes	Yes



Inspections 2011-12

Member NATIONS	STAMP	CARD
Andorra	Yes	Candidate
Finland	Yes	Candidate
Japan	Yes	Yes
Ireland	Yes	Yes
New Zeland	Yes	Candidate
Russia	Yes	Candidate

Observer NATIONS	STAMP	CARD
Korea	Yes	No
Latvia	Candidate	No
Macedonia	No	No
Ukraine	No	No



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Applicants

Applicant NATIONS	Expressed interest	Handed in documents
Bosnia	Yes	YES
Albania	Yes	No
South Africa	Yes	No



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The ISIA Database project

State at the 17th of May 2012

- Part of the Minimum Standard identification tools for the professional snowsports teachers
- Ratified by the ISIA DA – Jesolo, 22.05.2008





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The ISIA Database project

~22000 names already inserted

1. Argentina



2. Bulgaria



3. Czech Republic



4. Denmark



5. Finland



6. Germany



7. Great Britain



8. Hungary



9. Ireland



10. Italy



11. Japan



12. New Zealand



13. Poland



14. Russia



15. San Marino



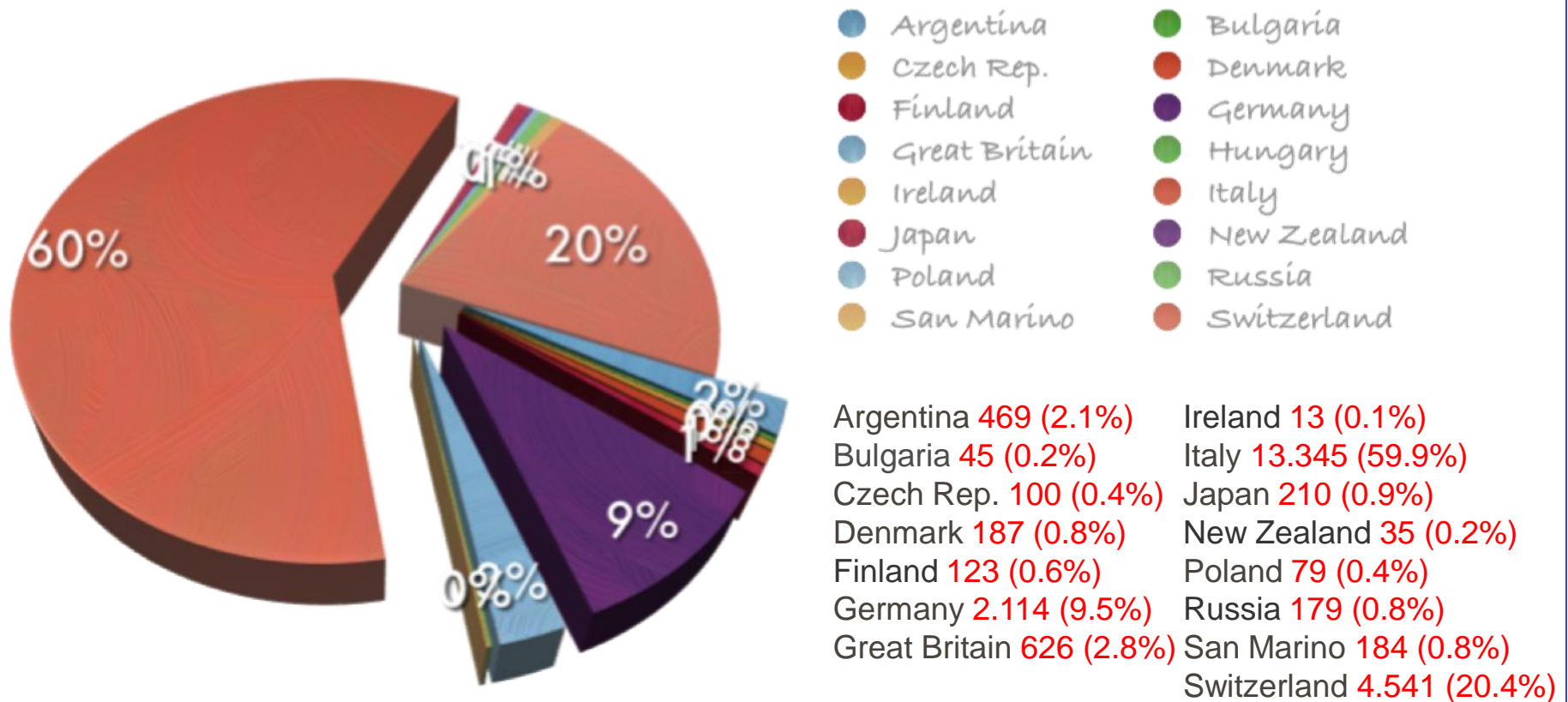
16. Switzerland





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Distribution by country

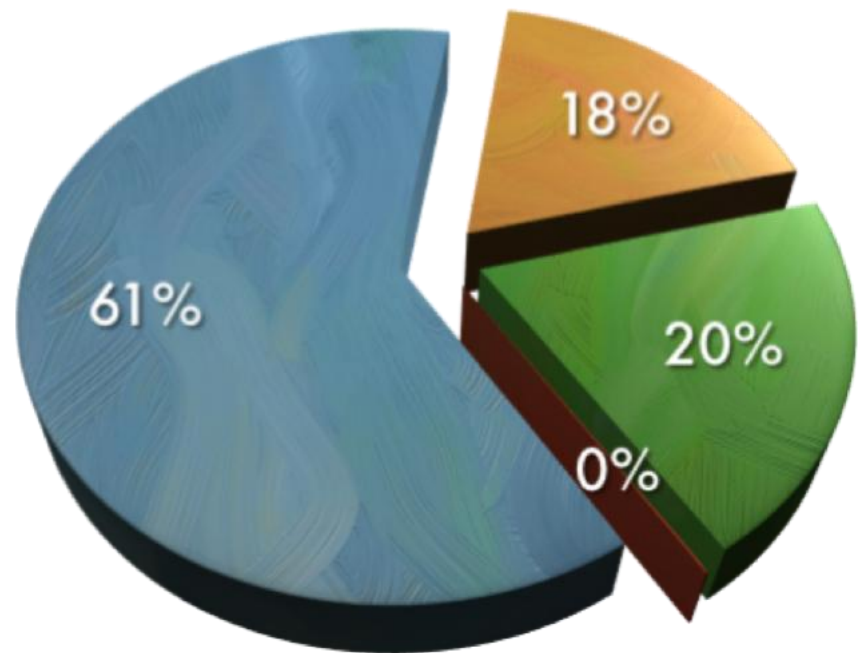




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Distribution by discipline

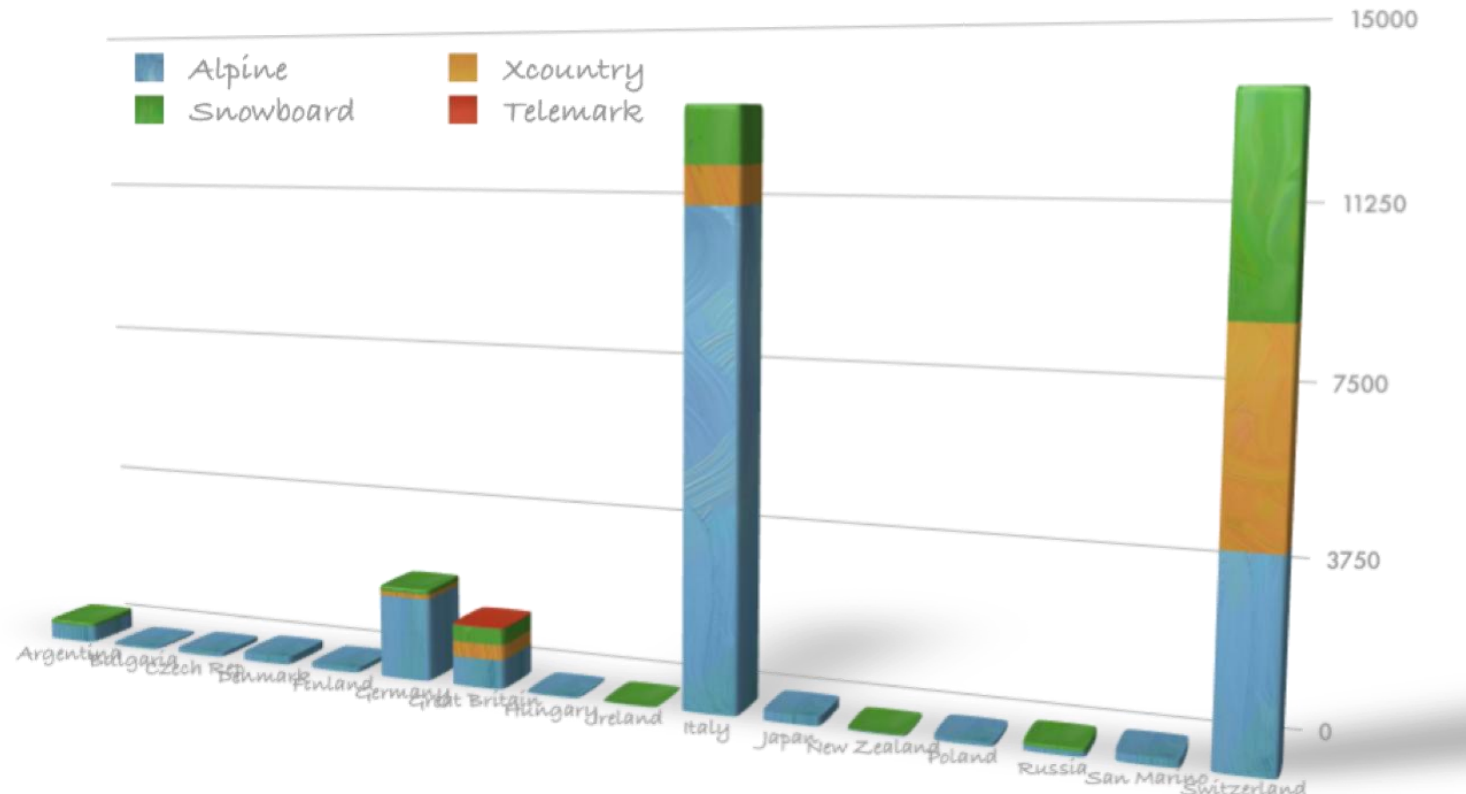
Alpine 19.796 (61.6%)
Xcountry 5.872 (18.3%)
Snowboard 6.493 (20.2%)
Telemark 16 (0.1%)





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Discipline distribution per country





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Planned improvements

- Define the data access policy
- Allow association to insert and update their own data
- Statistics implementation
- Development of an app for mobile systems in order to interrogate the database.



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The ISIA Technical Commission

- Vittorio Caffi - Coordinator
- Dino Degaudenz – Coordinator Europe
- Yuichi Mabuchi – Coordinator Asia
- Justo Olivieri – Coordinator America
- Mario Fabretto
- Jan Kindschi
- Sandi Murovec
- Edoardo Roldan
- Eichi Kodama
- Riet Campell
- Hugo Reider



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Thank you