A group of cross-country skiers are racing down a snowy slope in a forest. The skiers are wearing various colored bibs and are in various stages of their stride. The background is filled with snow-covered evergreen trees under a clear blue sky. The text is overlaid on a semi-transparent white box in the upper left quadrant.

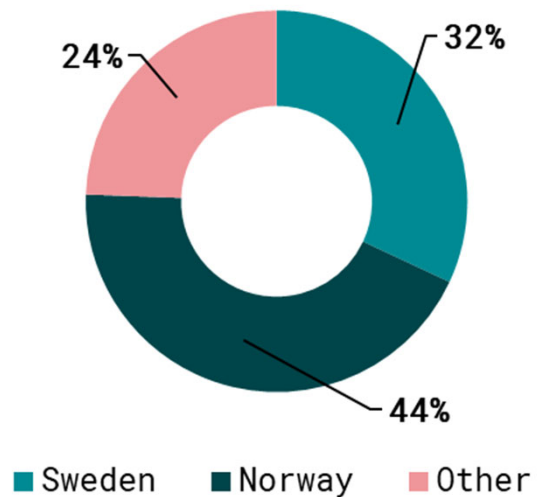
Summary of results from survey: Competitive skiing and fluorinated ski waxes 190826

Lisa Skedung (RISE) & Joel Svedlund (Peak Innovation)
Project Webpage POPFREE Ski Goes Global

Survey responses

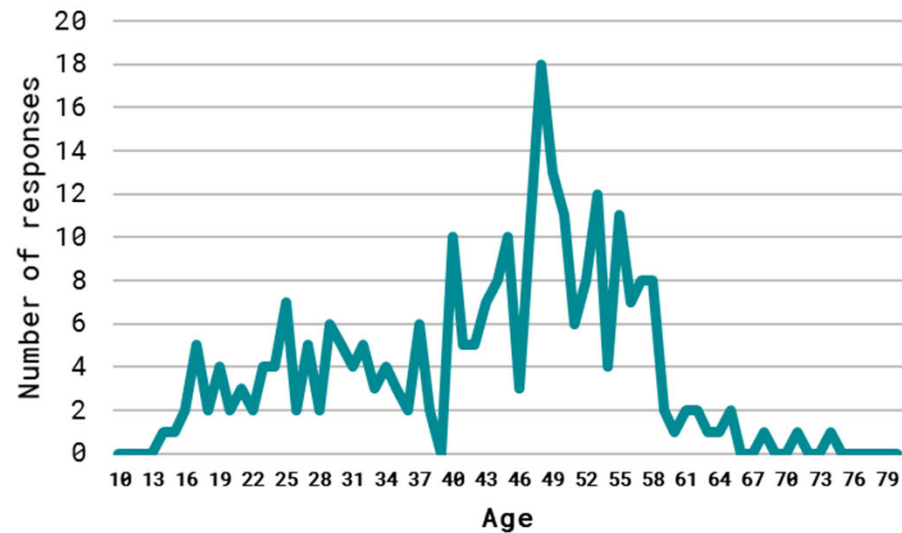
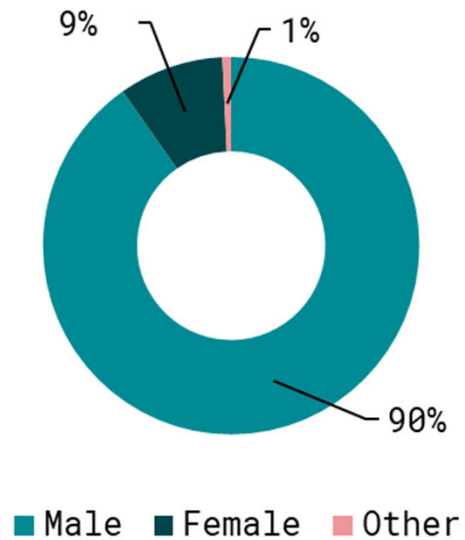
- Distribution of survey using project network
- 266 responses where 212 stayed to the last question (79% completion rate)
- Possible to extend the survey after this workshop

Norway, Sweden and others...

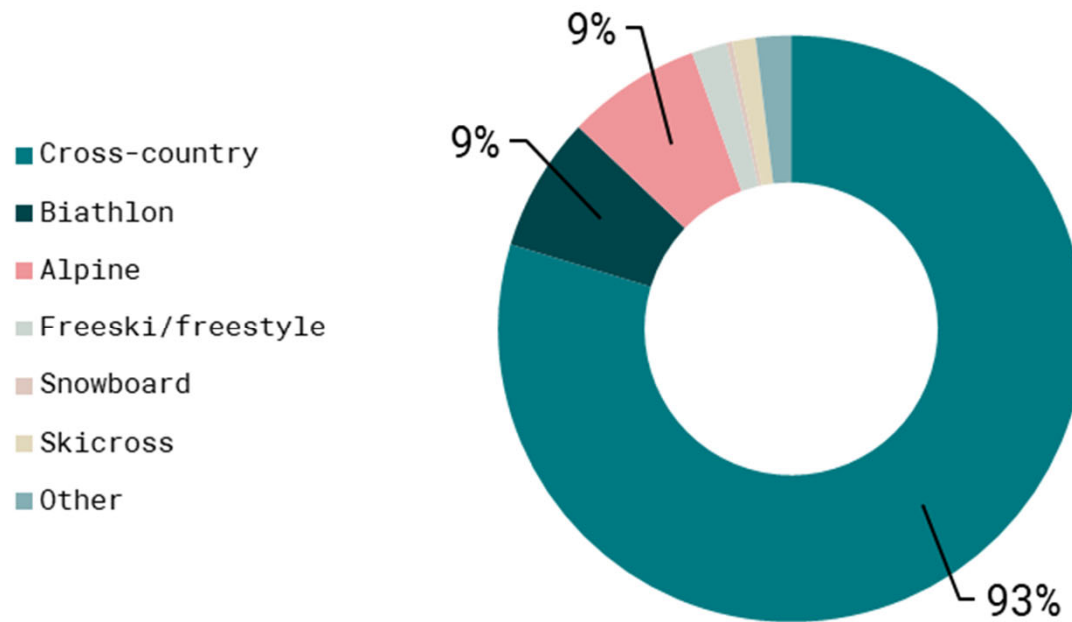


NO - Norway	43,61%	116
SE - Sweden	31,95%	85
US - United States	6,77%	18
DE - Germany	3,38%	9
AT - Austria	2,26%	6
EE - Estonia	1,88%	5
CH - Switzerland	1,50%	4
IT - Italy	1,50%	4
CZ - Czech Republic	1,13%	3
FI - Finland	0,75%	2
GB - United Kingdom	0,75%	2
LT - Lithuania	0,75%	2
LV - Latvia	0,75%	2
AZ - Azerbaijan	0,38%	1
BG - Bulgaria	0,38%	1
CA - Canada	0,38%	1
ES - Spain	0,38%	1
FR - France	0,38%	1
FX - France, Metropolitan	0,38%	1
GH - Ghana	0,38%	1
MZ - Mozambique	0,38%	1

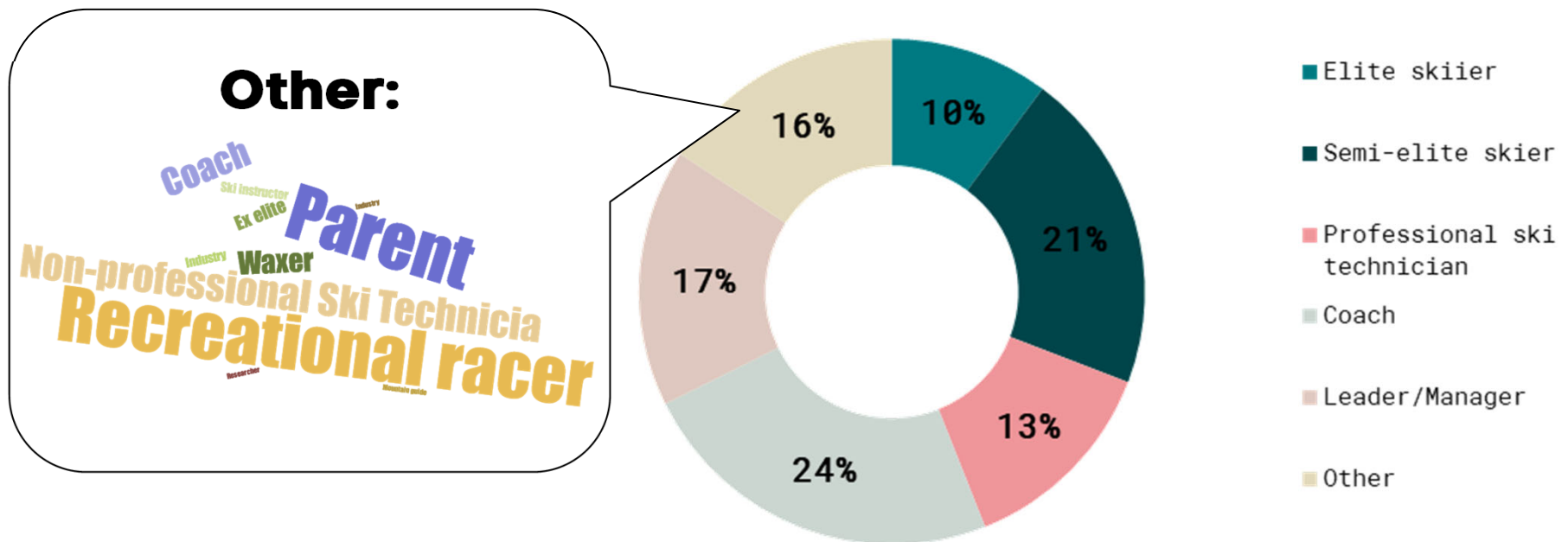
The middle-aged male in majority



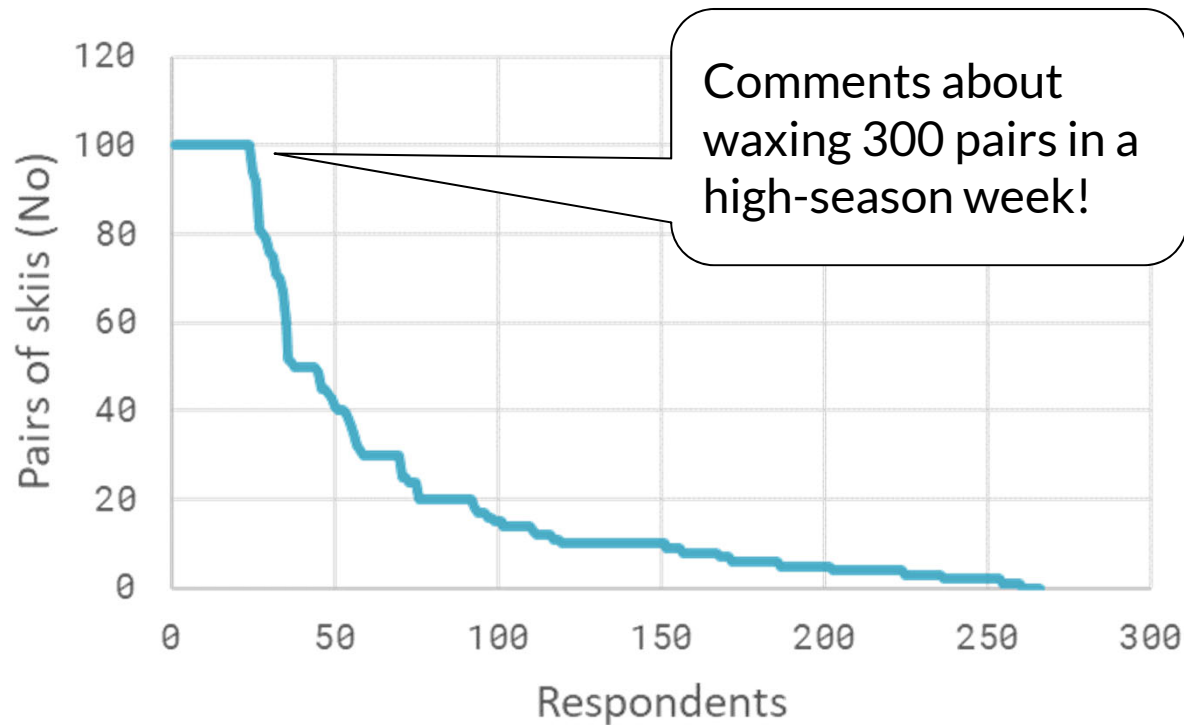
Cross-Country in majority



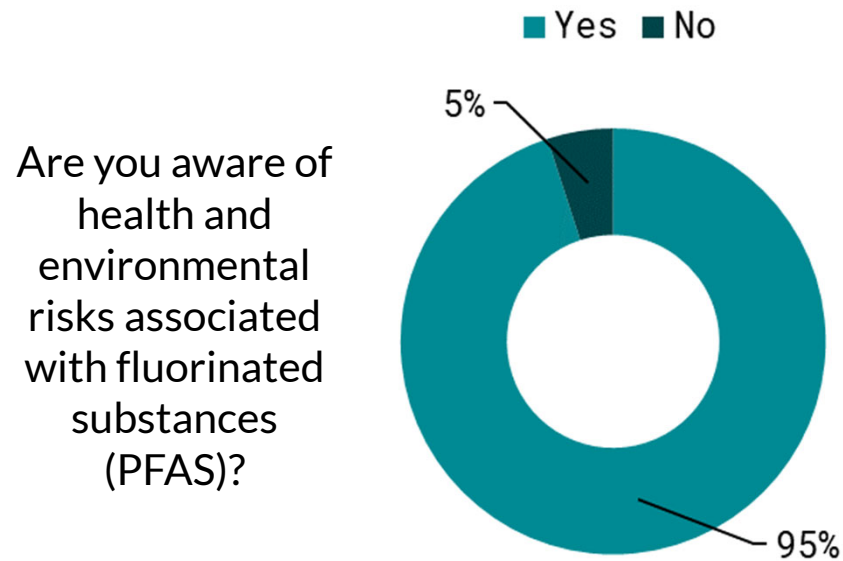
All types of roles in ski sports



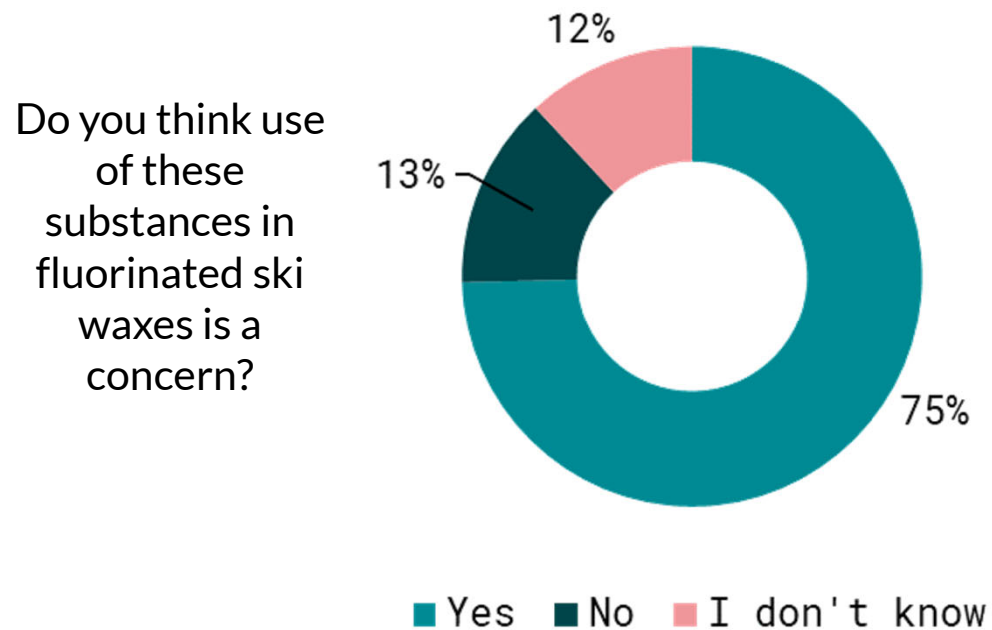
A couple of really serious waxers...



95% are aware of PFAS risks



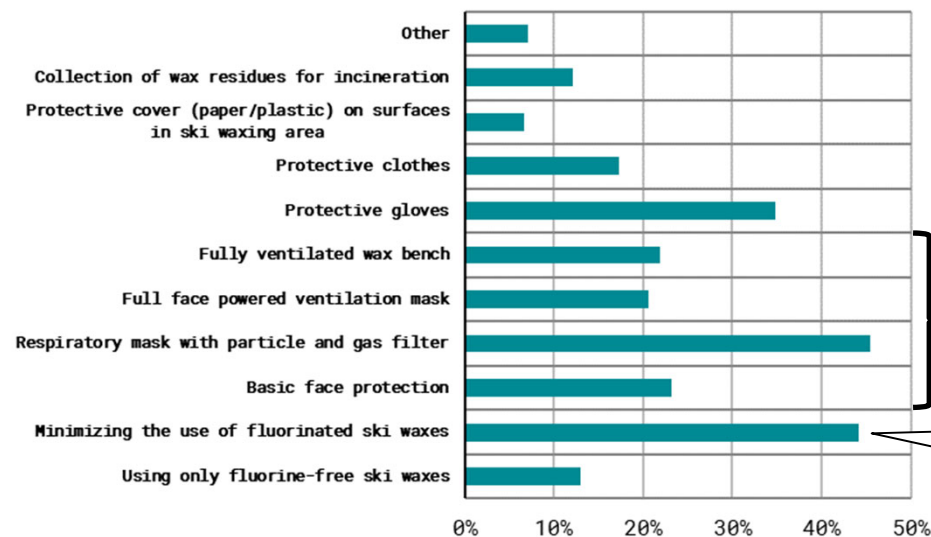
75% think that PFAS in skiing is a concern



Main concerns with fluorinated ski waxes



Ways to protect environment and health during ski waxing



78% use some kind of airways protection

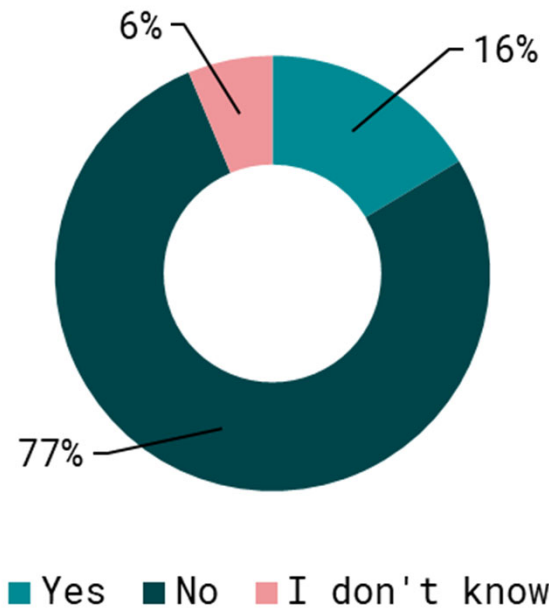
44% try to minimize PFAS use

Multiple actions could be chosen



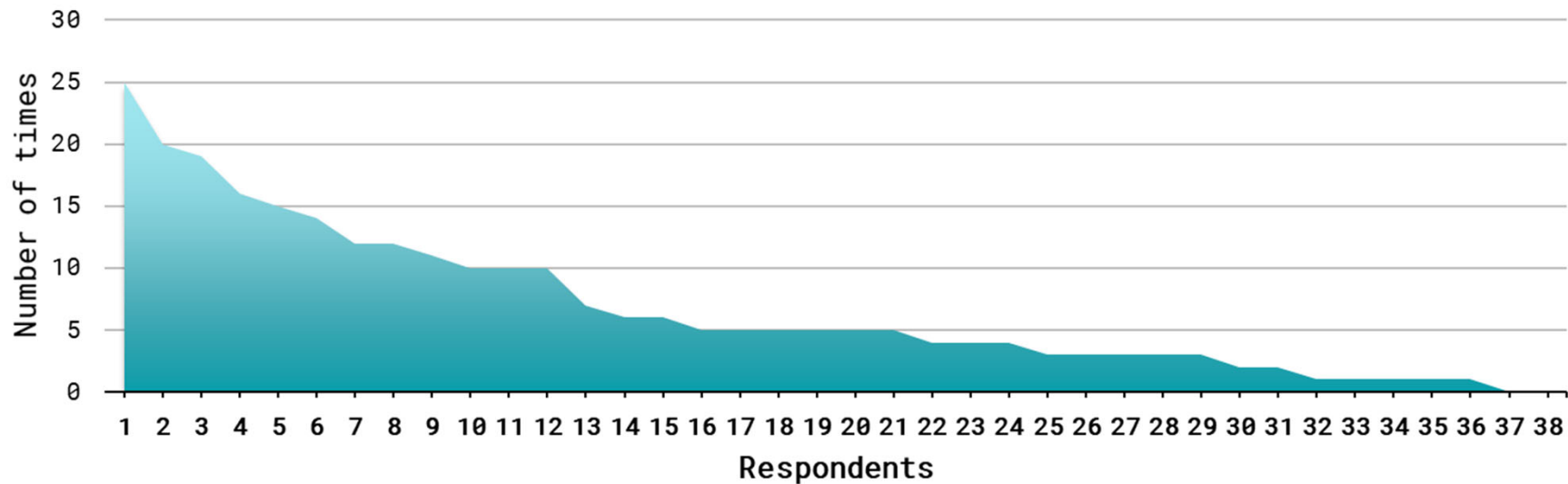
16% have experienced health problems from ski waxes

Have you ever experienced any health problems after being exposed to fluorinated ski waxes, e.g. "fluorine fever", a flu-like condition with fever, dyspnea and aching?

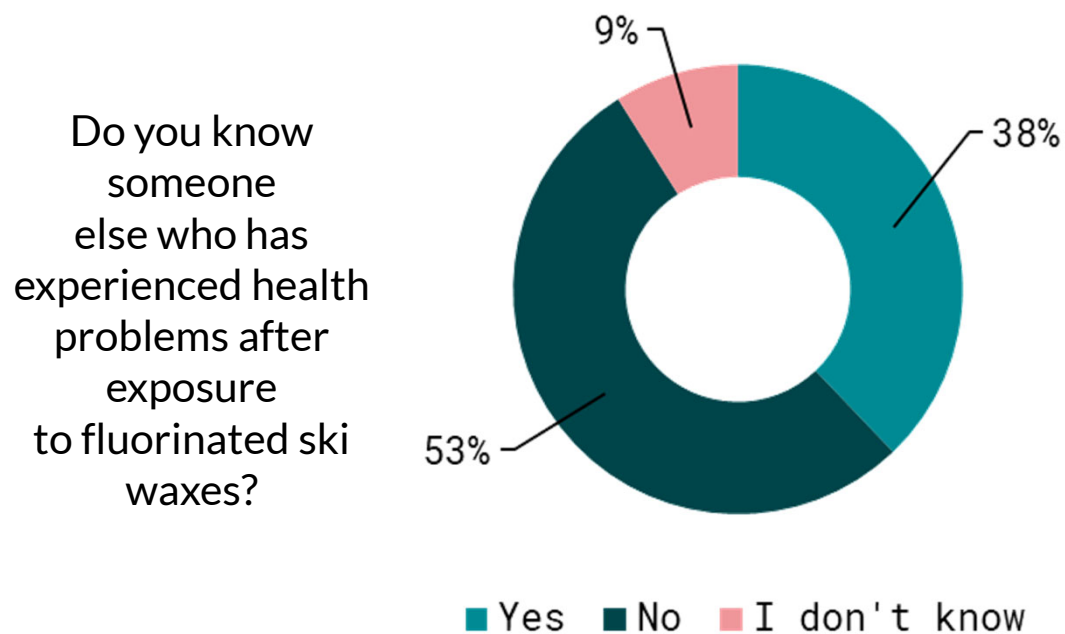


35% of them more than 10 times

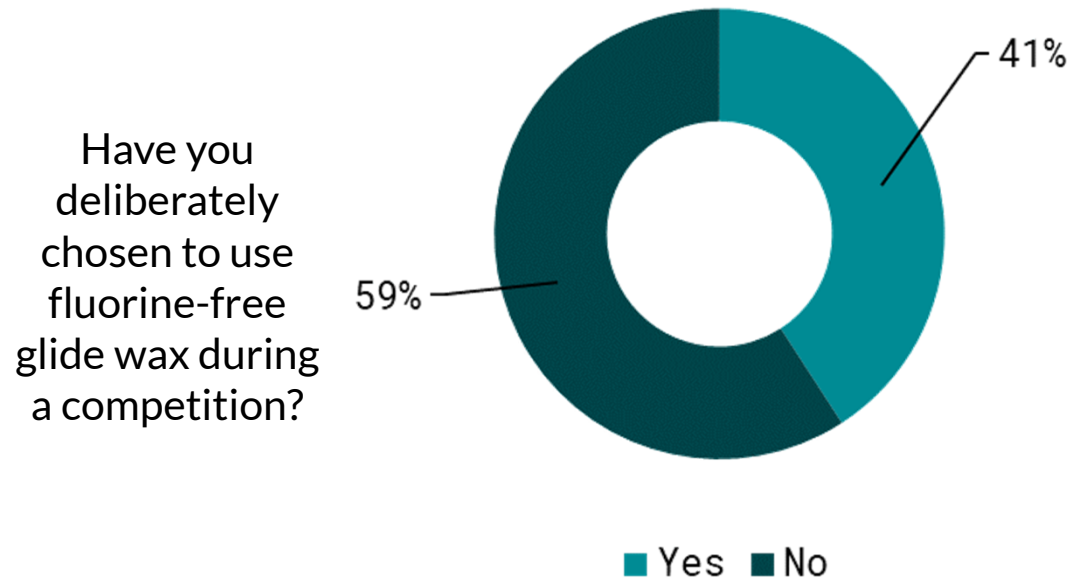
Approximately how many times have you experienced health problems caused by fluorinated ski waxes?



38% know someone who has had health problems from ski waxes



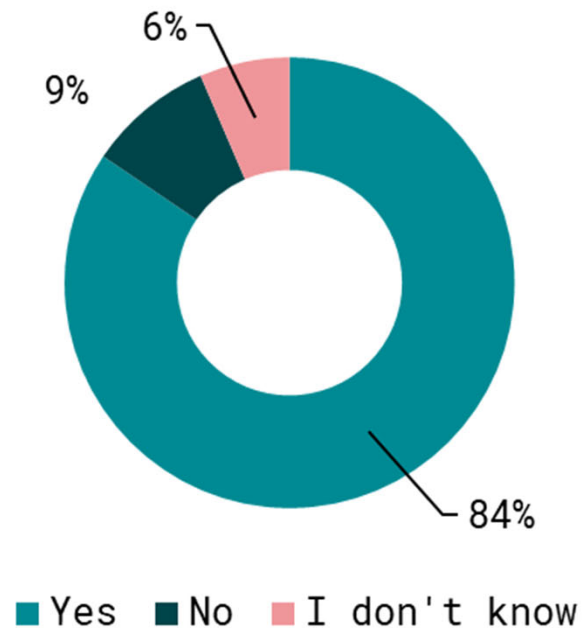
41% have chosen fluorine-free competition glide



Glide impressions from PFAS-free

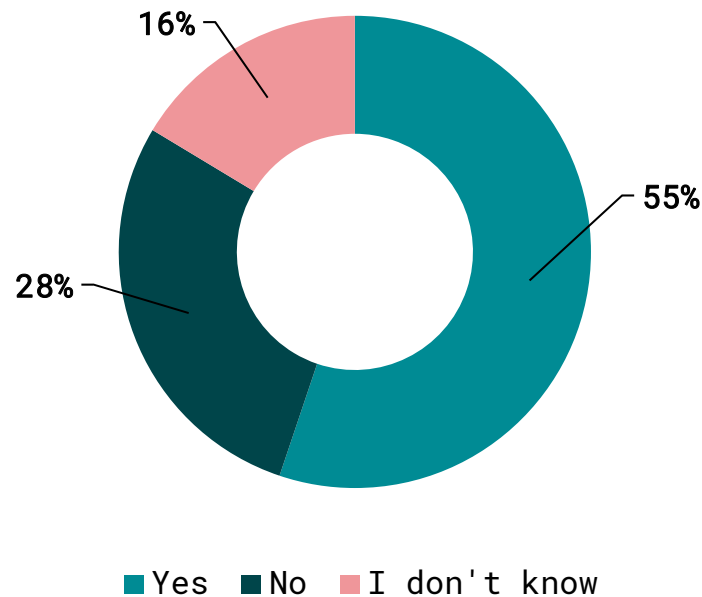
Small difference
big difference
No difference
shorter lasting
Placebo
Moisture dependent
More work
Good enough
Temperature
needs equal regulation
Fluor better

84% would consider fluorine-free if competitors played by the same rules



Would you consider using only fluorine-free ski wax in competitions, if your competitors played by the same rules?

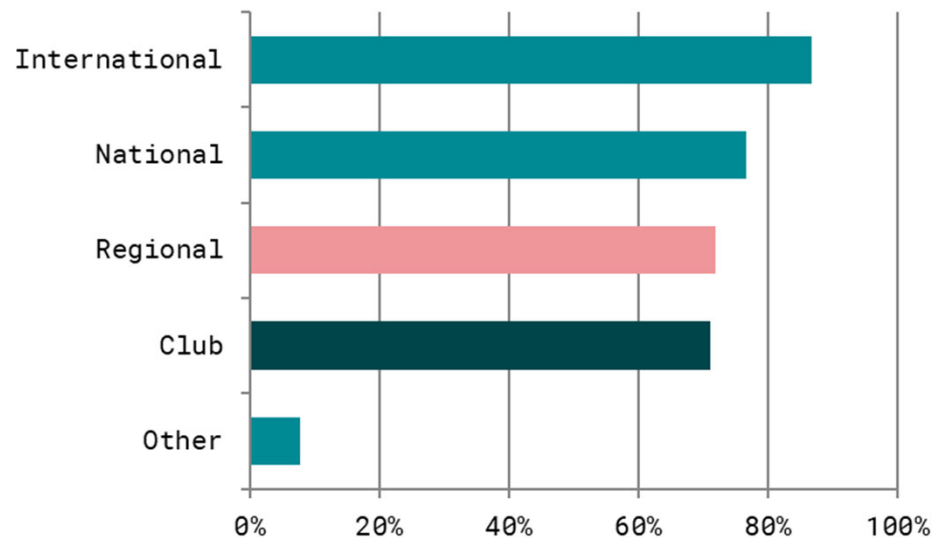
55% Would like a general regulation of fluorinated ski waxes in competitions



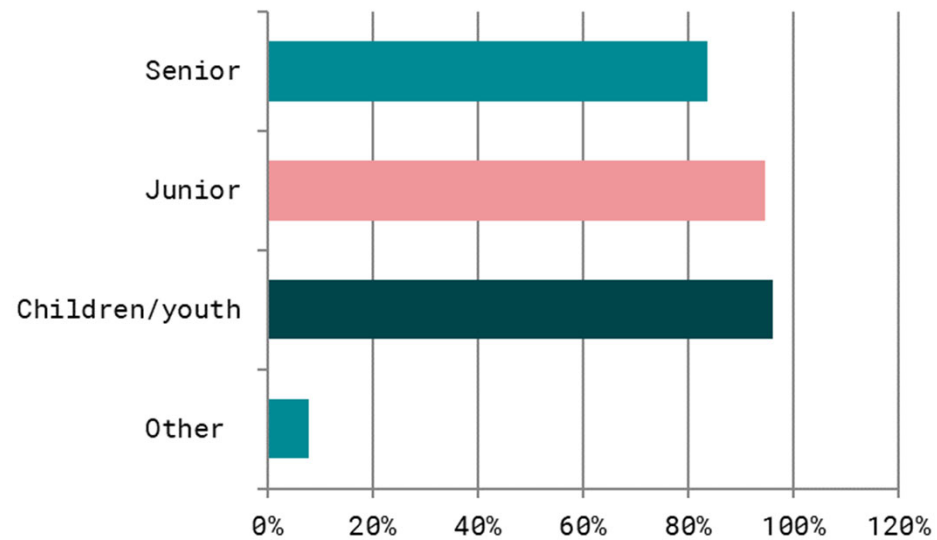
Would you like to see a general regulation/ban of fluorinated ski waxes in competitive skiing?

All levels of competitions are relevant for regulations

On which levels would you like to see a general regulation/ban of fluorinated ski waxes in competitive skiing? You can select more than one answer.

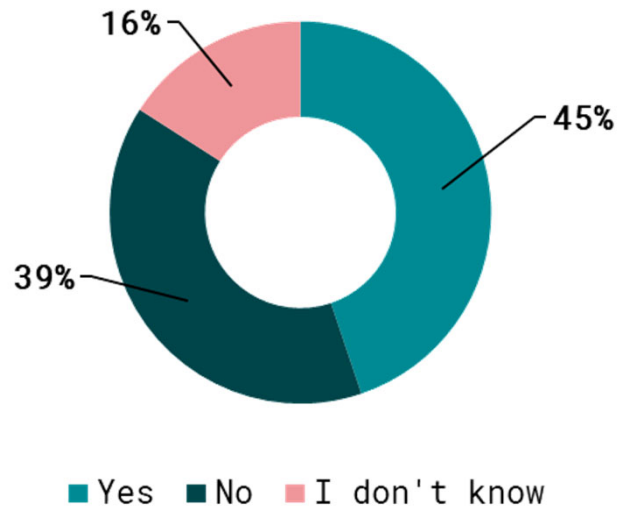


All athlete groups are relevant for regulations

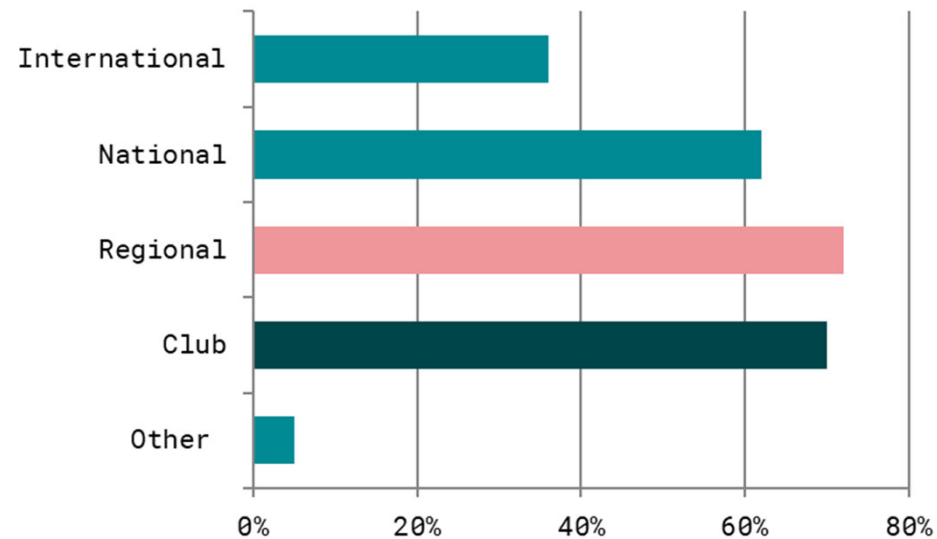


Voluntary bans by clubs and competition organisers may be a first step forward...

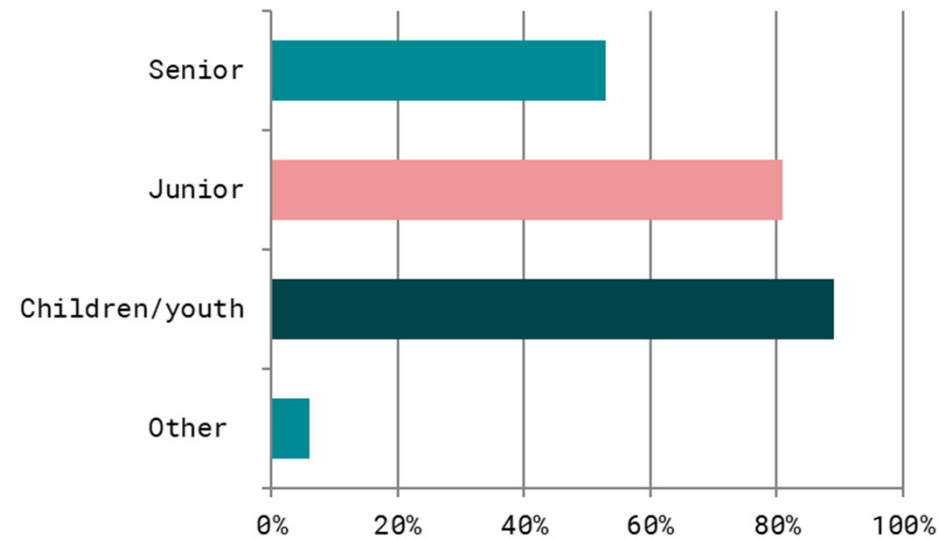
Could voluntary regulations/bans by clubs and competition organisers at specific competitions be a first step forward?



First steps are better taken on national or lower levels



Young skiers are favoured for first steps



Measures and actions for successful enforcement?



Ski associations and Industry should lead the way

Competition organisers
Universities
Authorities
Elite skiers
Parents
Youth skiers
Wax Teams
Ski Associations
Resorts
Industry
Coaches
FIS
Clubs
National Teams
NGOs



**Knowledge gap:
55% do not know of other uses for
PFAS.**

