



Rijksinstituut voor Volksgezondheid
en Milieu
*Ministerie van Volksgezondheid,
Welzijn en Sport*

A 'nice idea' or an 'effective' intervention

*Developing a database for
effective safety interventions*

Jakko van Kampen

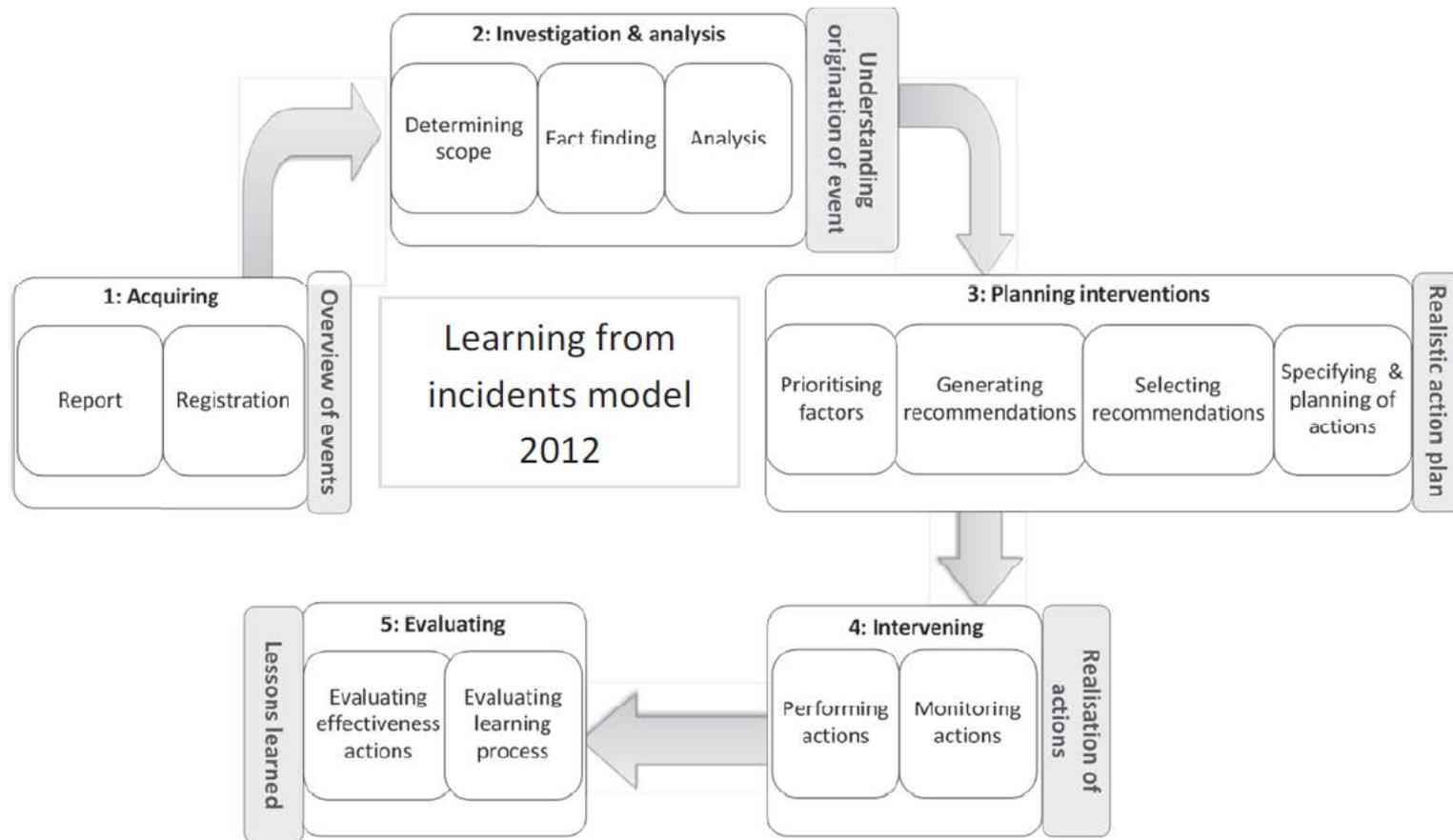


Project on effective interventions

- Some background
- Survey results: interventions in practice
- Moving forward: an intervention database



Learning from incidents is a process





Beyond 'safety voodoo'?

- Limited scientific information is available on the effectiveness of safety interventions.
 - Johnny Dyreborg of the Danish NRCWE and his colleagues are working on a systematic 'Campbell review' of the literature.
 - Review is almost published, looked at 60.000 papers identifying 111.
 - Some first results were shared at the WOS.NET conference and recently at RIVM
- There is a need for more accessible information:
 - Safety professionals express a strong desire for more "*information on the effectiveness of safety interventions*"





Working definition

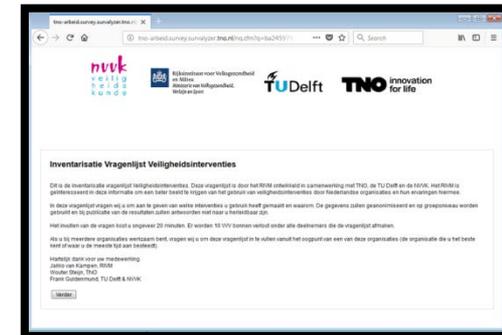
An intentional effort to systematically improve 'safety' within a work organisation through a series of actions, measures and/or steps which are seen as related to each other

- Safety in this definition generally but not exclusively references accidents/incidents
- An intervention is not the same as:
 - A single measure
 - An individual action at a particular point in time



Surveying Dutch Safety professionals

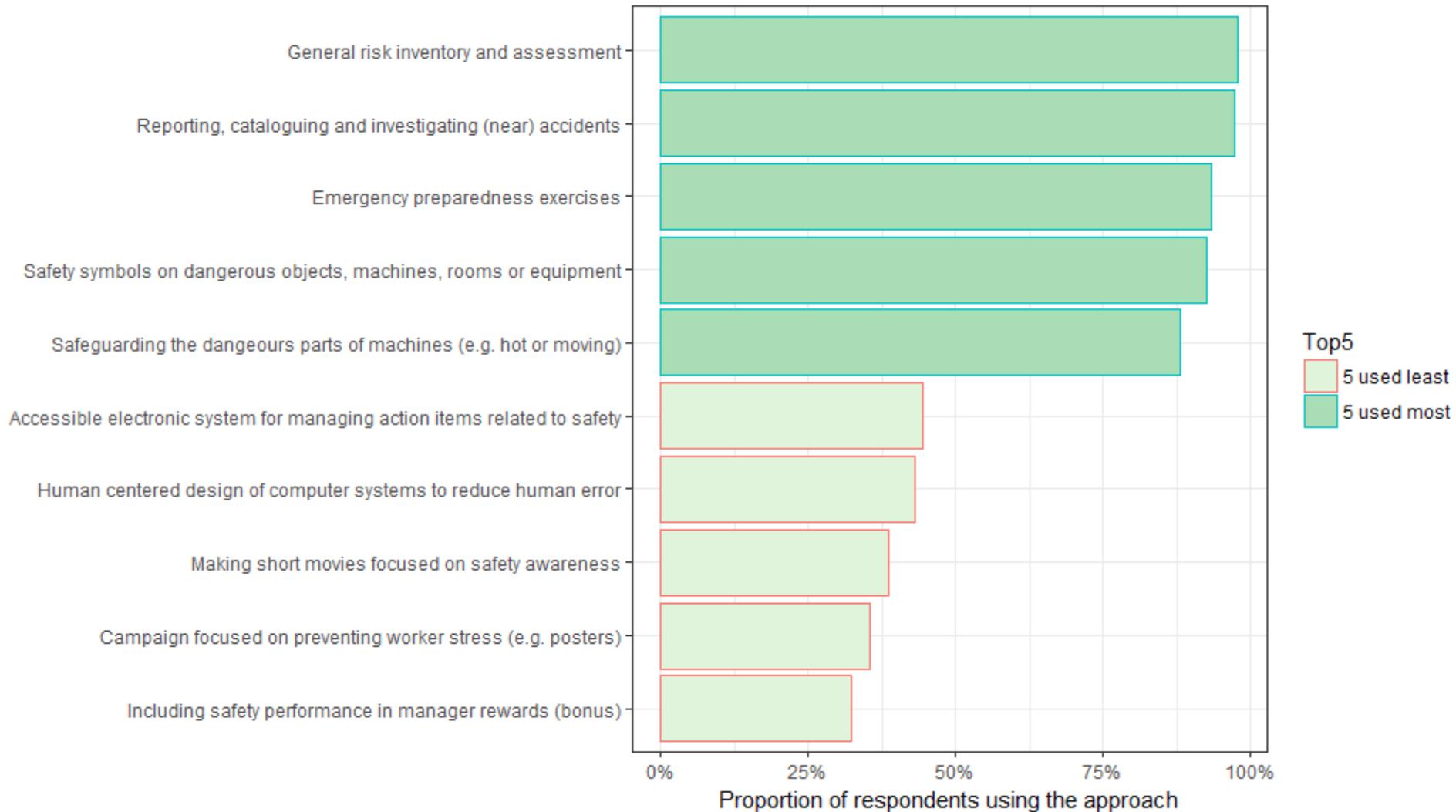
- NVVK is a professional body for Dutch safety professionals
- Focused on knowledge sharing and professional development
- All members were approached 297 participated
 - Inventory: *What does your company do?*
 - Effect: *What has most improved safety?*
 - Top&flop: *What do you suggest for others?*





Inventory of interventions and approaches

Relatively common (top 5) and relatively uncommon (bottom 5) interventions and approaches

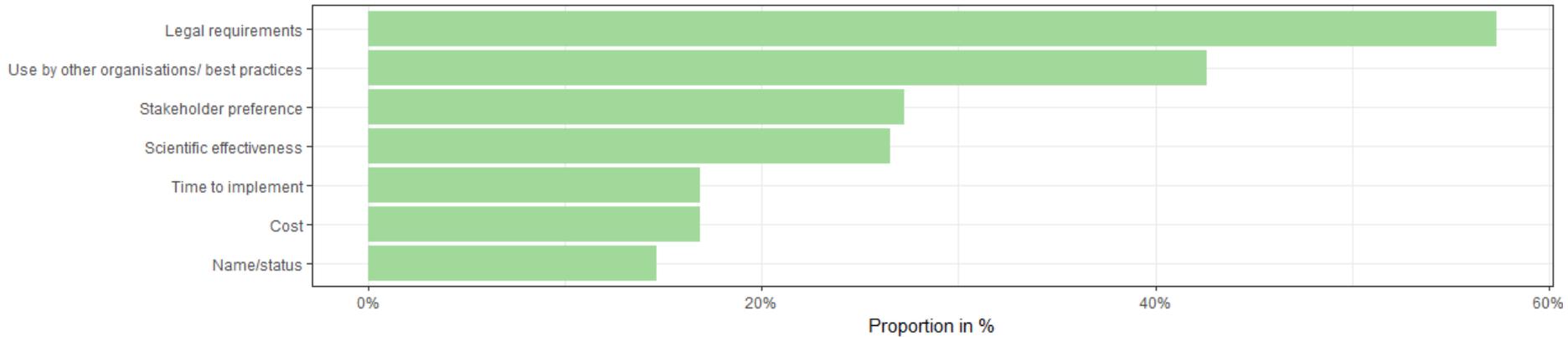


Based on a list of 48 intervention types viewed by 297 Dutch safety specialists



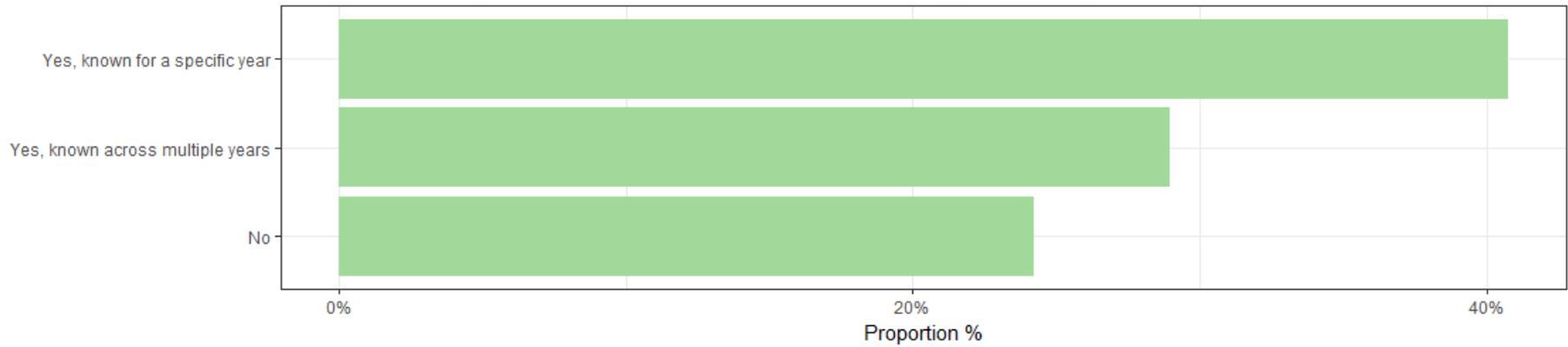
Choosing a particular intervention

What was the main reason for your organisation to choose a particular intervention?
(max. 3 choices)



Intervention programs (multifaceted)

Is there clear interdependence/coherence between the different interventions applied by your organisation?





But what works best?

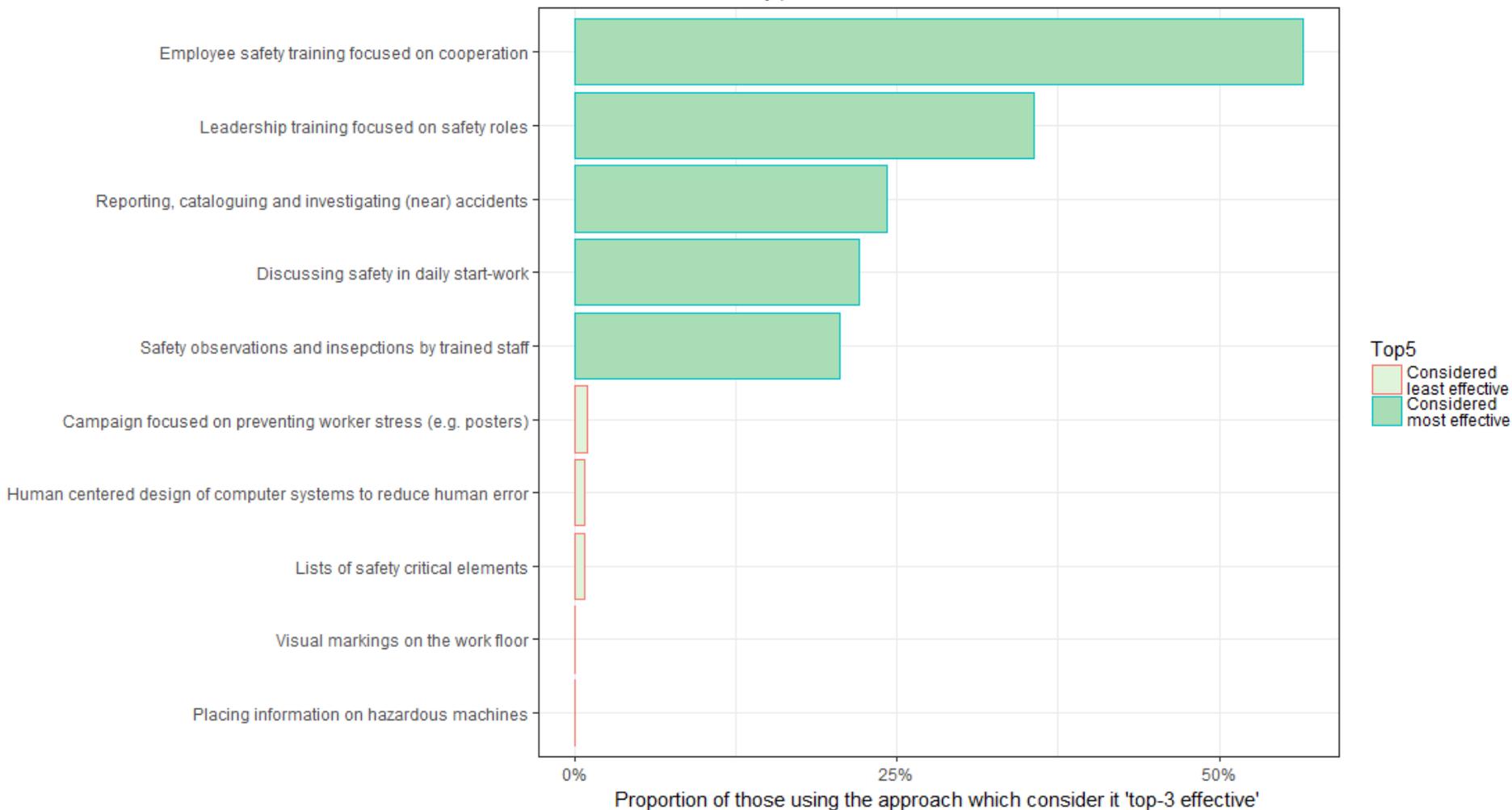
- Only when a particular respondent uses a particular intervention (has chosen 'Ja')
- Then we asked: choose the three interventions which have improved safety most in your opinion

“ Selecteer de veiligheidsinterventies (maximaal drie) waarvan u vindt dat die de veiligheid het meest hebben verbeterd”



Interventions and approaches considered 'top 3 effective' by their users

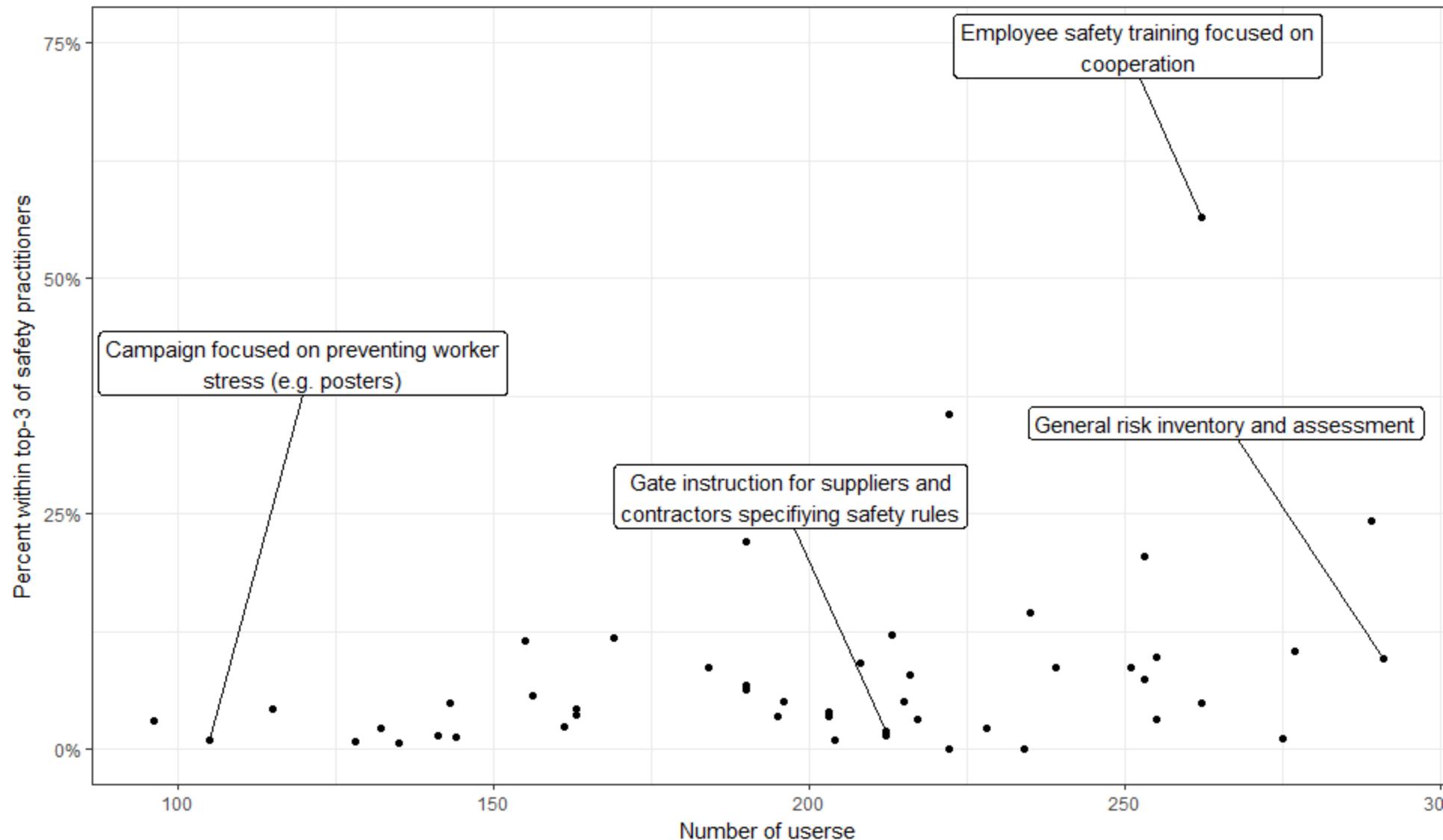
Three choices for each safety practitioner





Most effective intervention types according to users

Select up to three intervention types which have provided most safety improvements





In summary

- Safety professionals are very active within their organisations, driven most strongly by:
 - Legal requirements
 - Success stories
- Professionals have a clear preference for certain types of interventions within their 'top 3'
- Top perceived effectiveness:
 - Employee training
 - Training for leaders
 - Accident investigation



In summary

- There are many common interventions which are not considered to be at the forefront of effectiveness (e.g. gate instructions, auditing, safeguarding, safety symbols)
 - ‘Hierarchy of control’ based thinking did not seem to shape expressed preference.
- Implementation details matter a lot:
 - How do you do it rather than what you do
- Next step: Moving from perceived effectiveness to proven effectiveness?



The safety intervention database

- Building a database of safety interventions to:
 - Learn about interventions in HSE practice
 - Encourage and support a more evidence based approach
 - Learn about the possible effectiveness of these interventions
 - › Systematic descriptions of intended effect(s)
 - › Additional evaluations when possible
- In addition:
 - Start small, start now: utilising existing infrastructure
 - Work with academic partners (Guldenmund, Bellamy & Groeneweg)

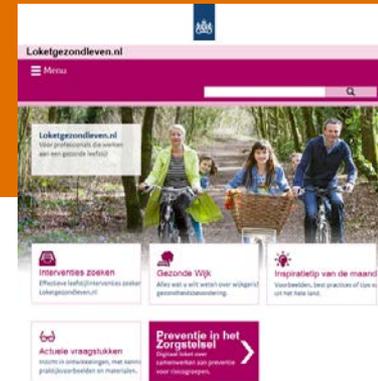




An example from health: tobacco use

Overzicht Aanbevolen interventies voor Tabak

Naam	Eigenaar	Doel	Setting	Leeftijd	Specifieke doelgroep	Pijler	Beoordeling
Steun bij Stoppen 1.0	Universiteit Maastricht Vakgroep Gezondheidsvl	Rokers stimuleren om te stoppen met roken en hen te begeleiden bij hun stoppoging en het volhouden van het stopgedrag via persoonlijke feedback.		18-65	Algemeen publiek	Educatie; Ondersteuning	IV
Actie Tegengif	Trimbos-instituut	Het doel van de interventie is het voorkómen dat jongeren beginnen met roken en het terugdringen van het aantal jongeren dat experimenteert met roken.	Onderwijs: voortgezet onderwijs	12-14	Kinderen / jongeren; Scholieren/studenten	Educatie	III
Jellinek Online Zelfhulp	Arkin, afdeling Jellinek	Het doel van de Jellinek Online Zelfhulp is het op een laagdrempelige wijze ondersteunen van deelnemers bij het zelfstandig minderen of stoppen met gebruik van alcohol, cannabis, cocaïne, tabak of gokken.	Thuis / gezin; Werk	18-99	Algemeen publiek; Verslaafden	Ondersteuning	III



The intervention database for Health promotion interventions is operated by the RIVM centre for healthy living with its partners. It is mainly in Dutch but see <https://www.loketgezondleven.nl/over-ons/english> for more English info.



Some examples so far within safety

- A reward program for a good safety effort as conducted by a major energy company.
 - Employees who are rewarded for having identified a risk in practice (a good LMRA) can choose a charity to 'write a check to' and are praised in internal communications.
- A shift to autonomous local work teams, as conducted within a large manufacturing company.
 - In each autonomous work team (with up to 12 people) one employee is given a specific safety role.



View on the future

- Accessible online database for safety interventions
 - Input: Submit systematic descriptions of an intervention
 - Output: intervention search by theme, sector, etc.
 - Feedback: Feedback by peers and other users.
- A system by and for companies, in cooperation with particular sectors.
- Rating for scientific effectiveness (after submission)

