

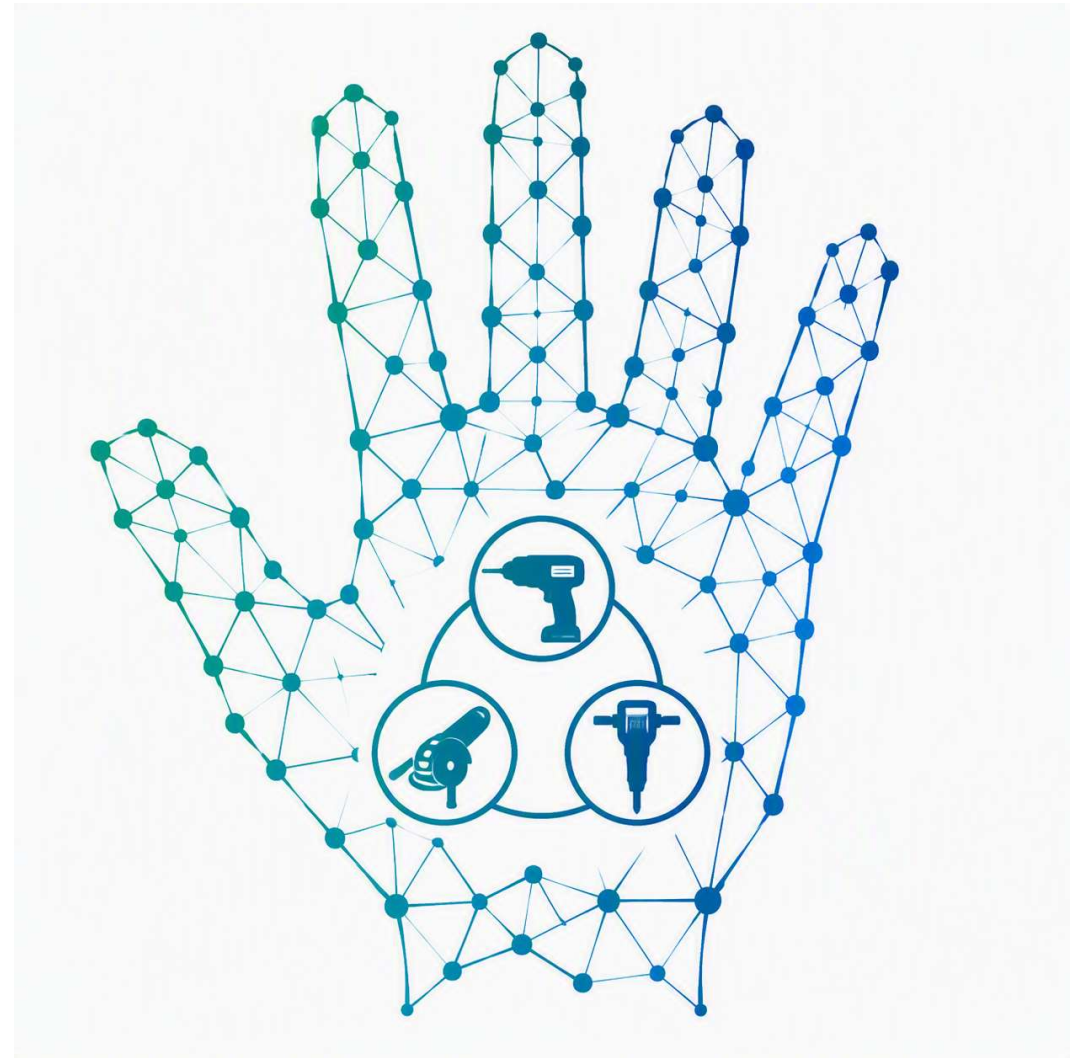
Share solutions, Save resources, Stop HAVS

Call for Local Authorities to **Join the HAV Pledge**

Chris Steel

Principal Specialist Inspector (Noise & Vibration)

**I am talking to
You because I
want you to join
the utilities
sector with their
hand-arm
vibration Pledge**



Commitment Statement

We, the undersigned, affirm our commitment to protecting our employees from the risks associated with hand arm vibration. We will allocate the necessary resources, provide ongoing support, and strive for best practice in managing vibration risks in our workplace. We are dedicated to embracing innovation and a continuous desire to find new and better ways of working, ensuring the highest standard of safety for all.

Signed:

Company Name: _____

Authorised Signatory: _____

Position: _____

Date: _____

PREVENTING ILL HEALTH TOGETHER

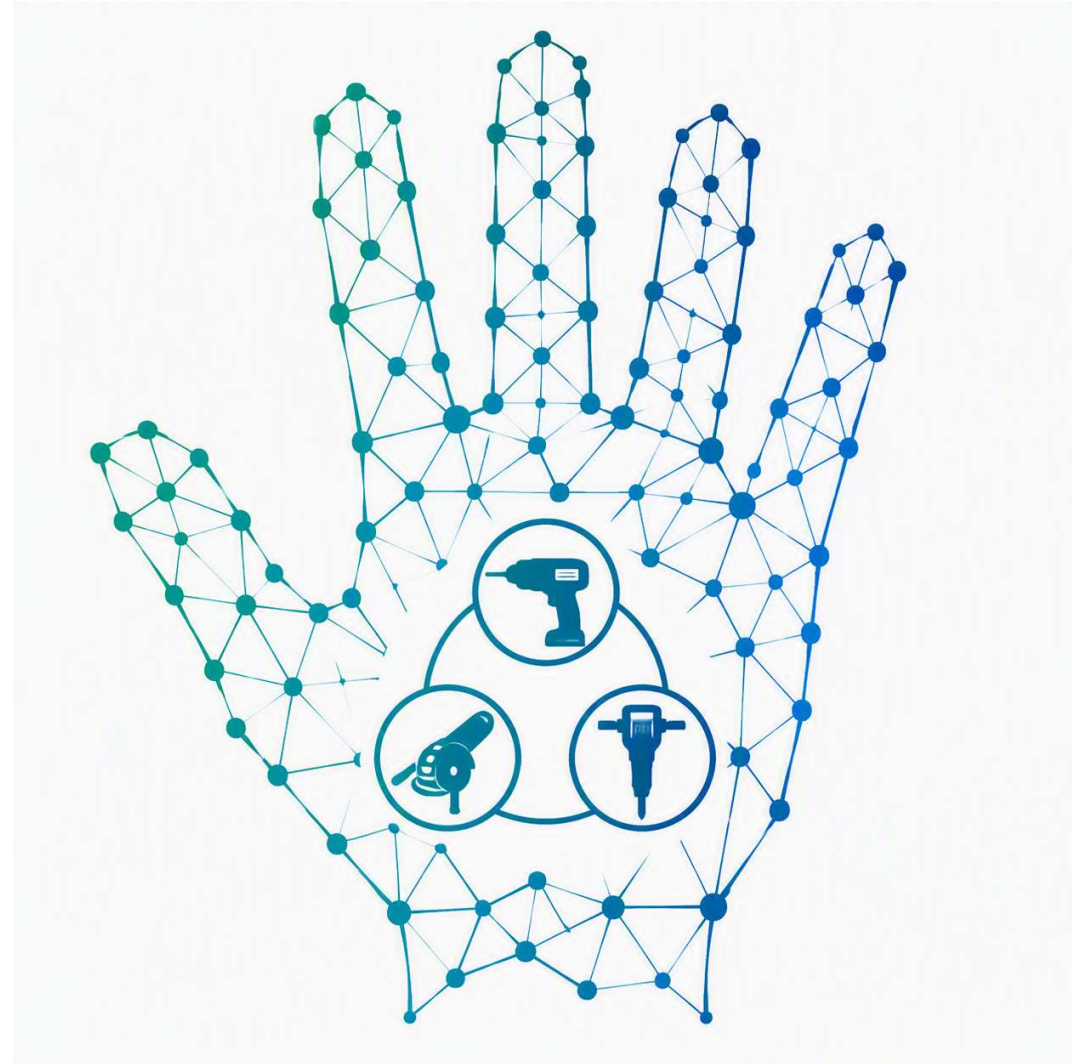
**PROTECTING PEOPLE
AND PLACES**



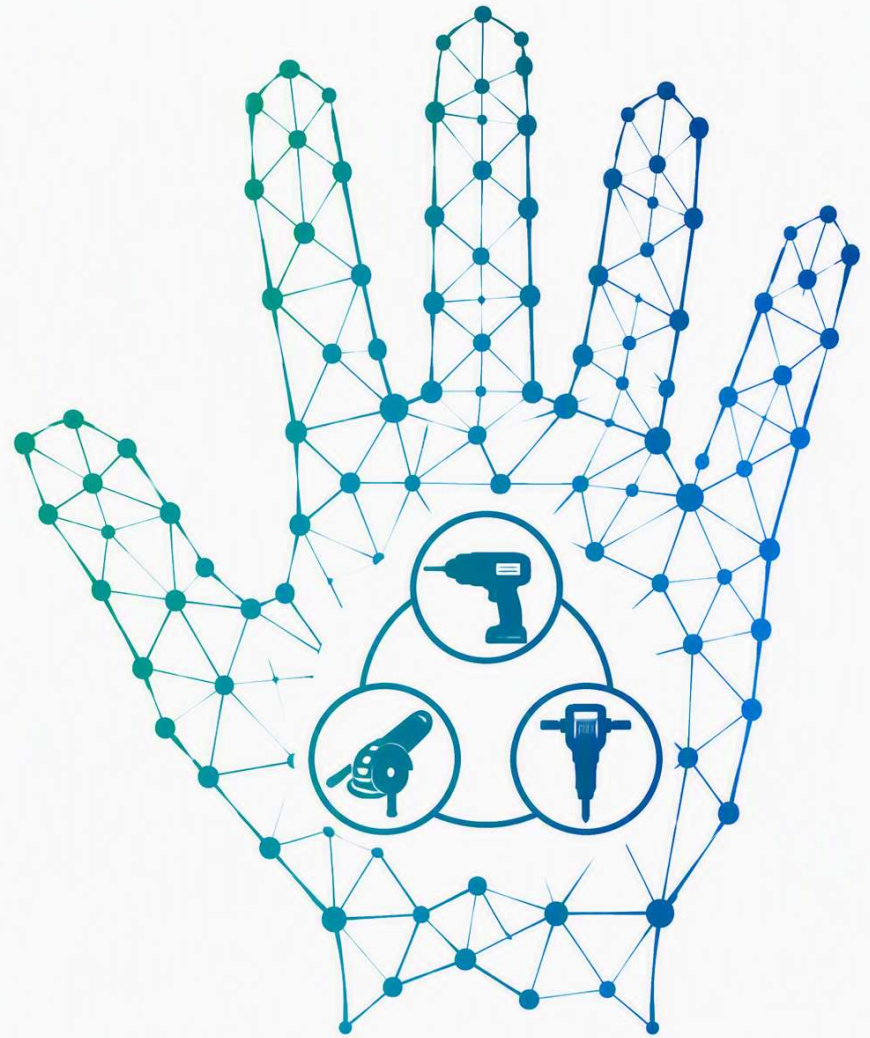
Hand Arm Vibration Risk Reduction Pledge

HAV Pledge:

1. **You share** good practice
2. **You share** the cost data (stop measuring the same thing and paying for the same answers)
3. **You** put pressure on suppliers



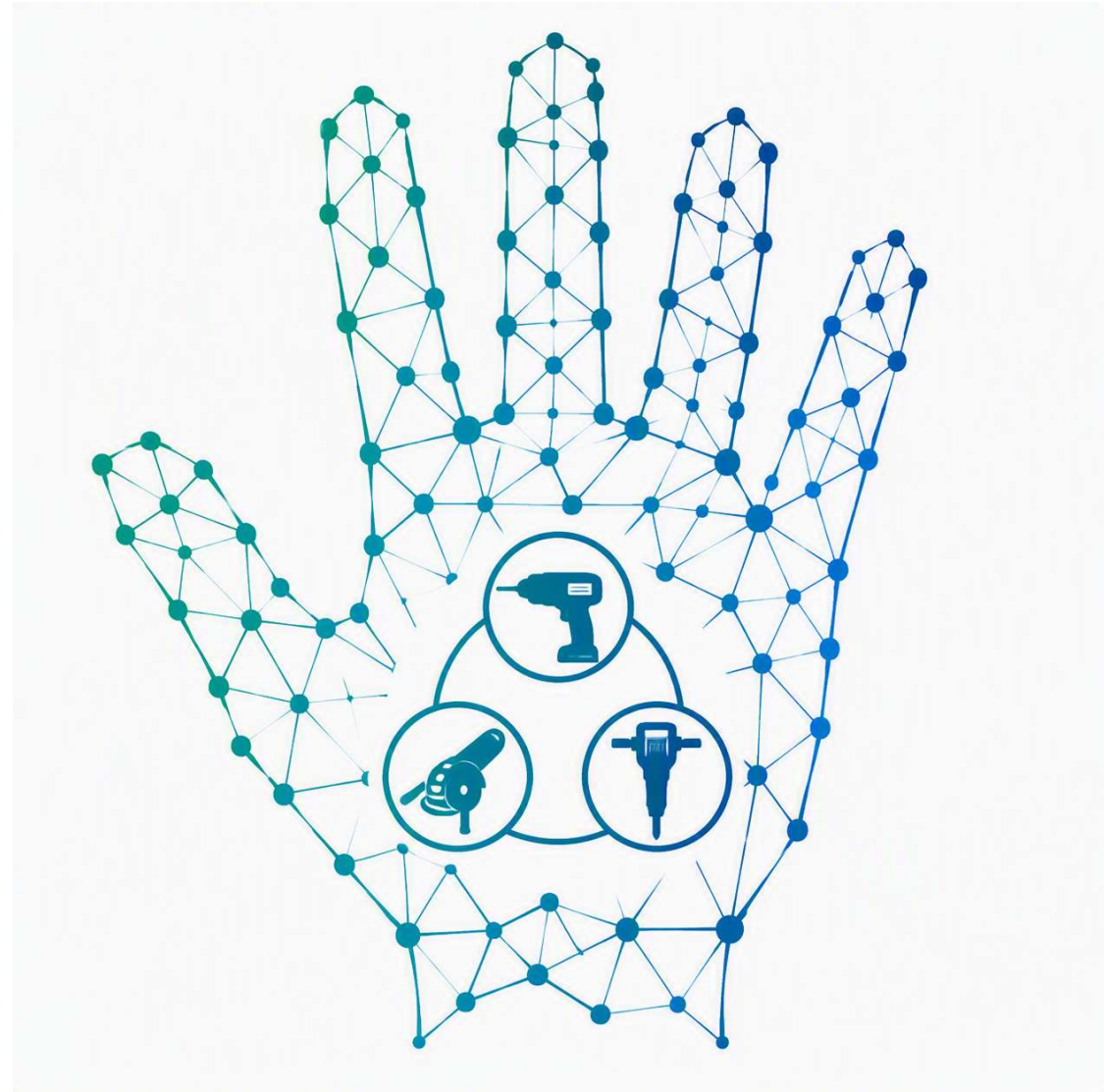
**Do you
want to
take part**



***“£165,000 vehicle can speed up
pothole repair by 700%”***

Claim made by machinery manufacturer – *is this true?*

During a follow up visit to a Local Authority, we found that they have gone beyond what HSE asked for to comply with the Regulations



Before HSE intervention

Local Authority's journey to low vibration on pothole repair. Showing difference in exposure when repairing 3 potholes	Daily Exposure Points	Percentage of original exposure
Original method: Three potholes a day; minimal controls in place	290	100%

After HSE intervention

Local Authority's journey to low vibration on pothole repair. Showing difference in exposure when repairing 3 potholes	Daily Exposure Points	Percentage of original exposure
Original method: Three potholes a day; minimal controls in place	290	100%
Managed Method: Three potholes a day; tool purchasing policy, job rotation, direct supervision of work.	55	19%

After Local Authority went further

Local Authority's journey to low vibration on pothole repair. Showing difference in exposure when repairing 3 potholes	Daily Exposure Points	Percentage of original exposure
Original method: Three potholes a day; minimal controls in place	290	100%
Managed Method: Three potholes a day; tool purchasing policy, job rotation, direct supervision of work.	55	19%
Case study method: Three potholes a day; no longer using a cut-off saw or breaker. Low vibration compactor in use.	3	1%

**PROTECTING PEOPLE
AND PLACES FOR**



Vehicle mounted Pothole repair system



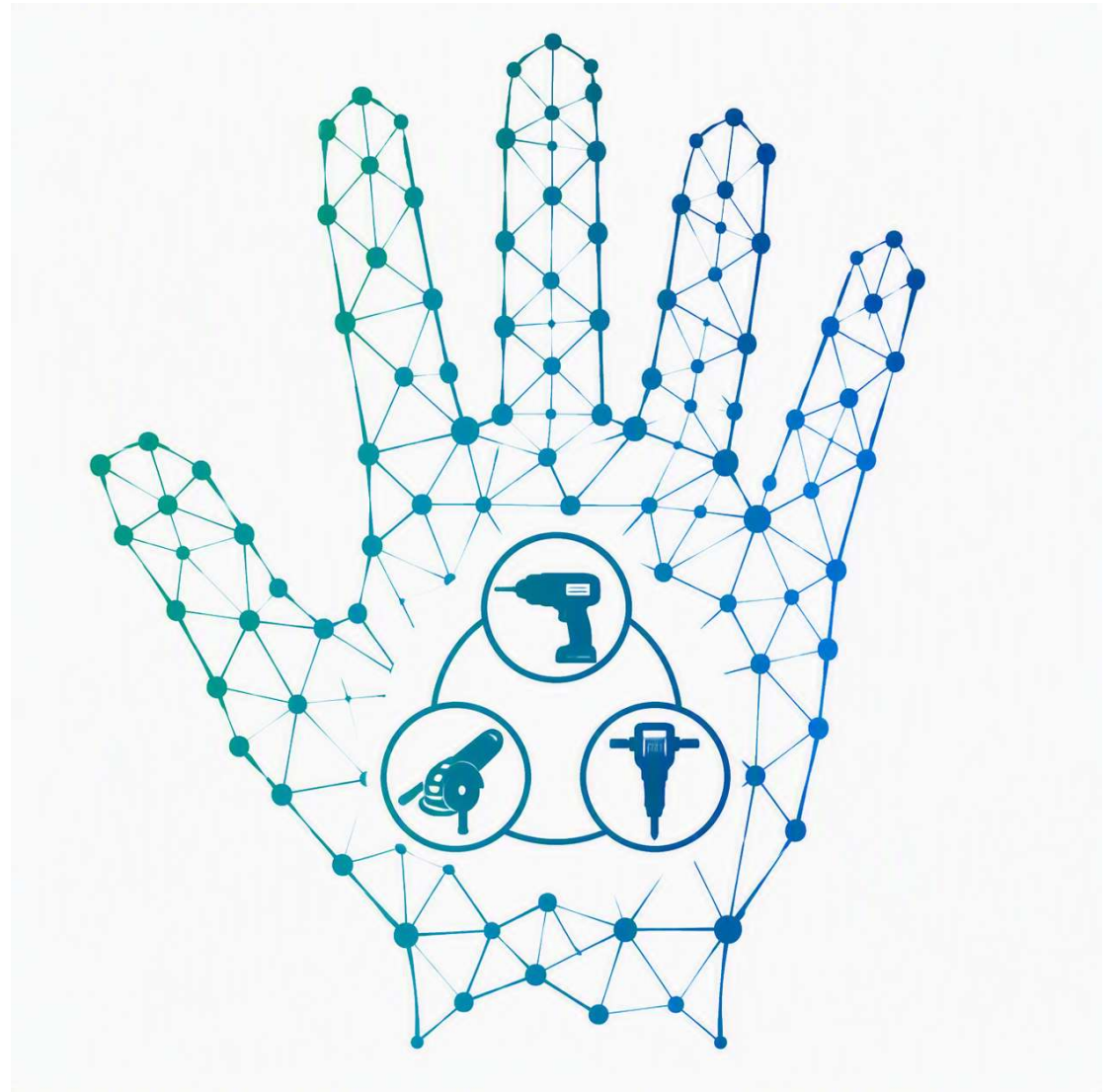
PROS

- **No HAV, Low Noise.**
- **Fewer workers in the road.**
- **Less physical demand on worker.**
- **Vehicle can also be used for hedge and grass cutting.**

CONS

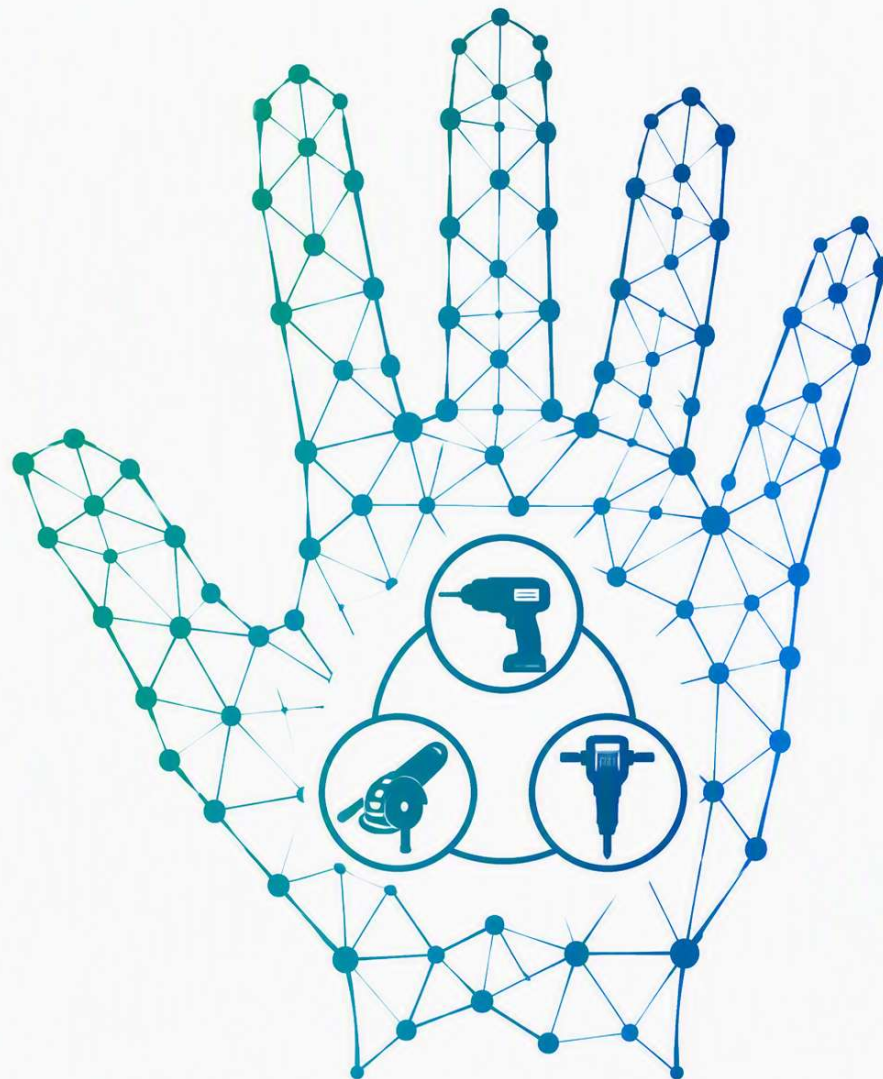
- **High initial cost**
- **Slow between sites**
- **Operator Training required**
- **Still needs road closure**
- **Question suitability on very narrow roads**

**Why take
part in the
HAV
Pledge?**





**You use **the
same road-
working
powertools** as
the utilities
sector**

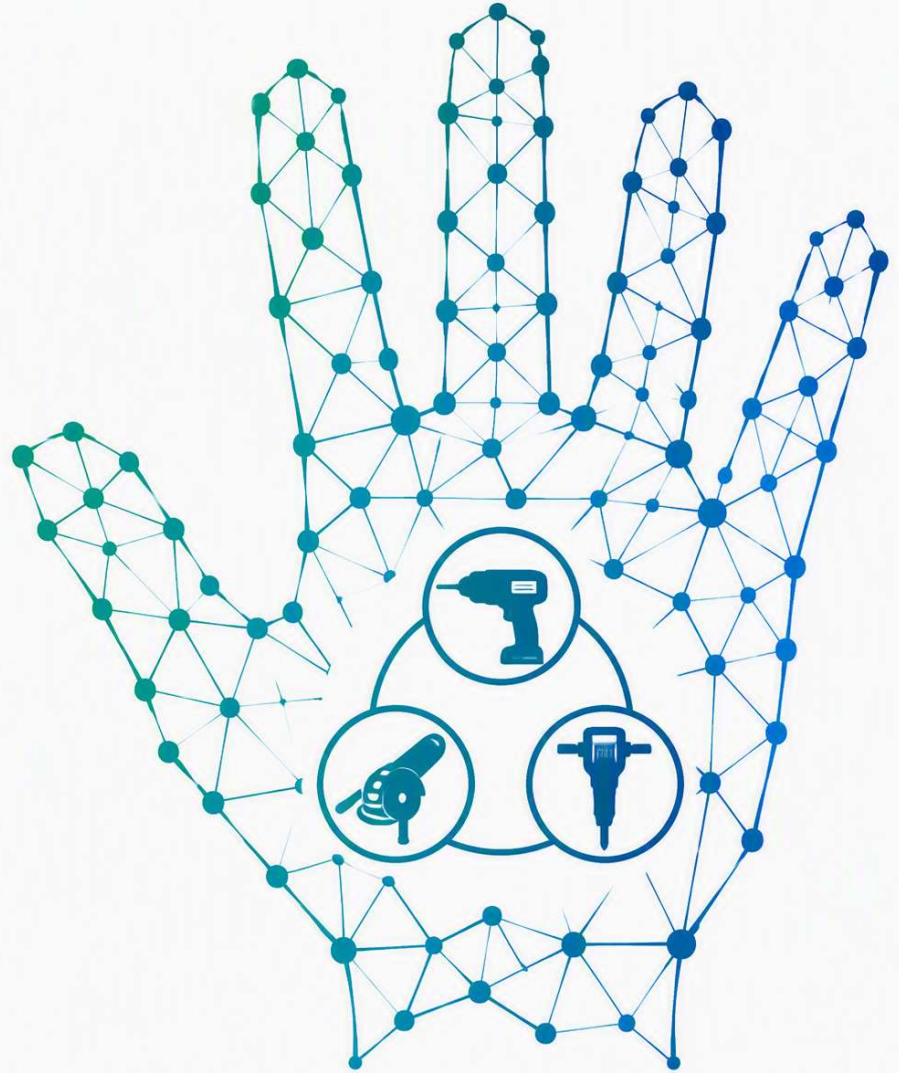




**PROTECTING PEOPLE
AND PLACES**



**You use the
same
horticulture
power tools as
the utilities
sector**



It is better to find vibration efficient power tools than to try and reduce the time on the job

$\frac{1}{2}$ The vibration magnitude **=** $\frac{1}{4}$ **The exposure**

$\frac{1}{2}$ The time on the job **=** $\frac{1}{2}$ The exposure

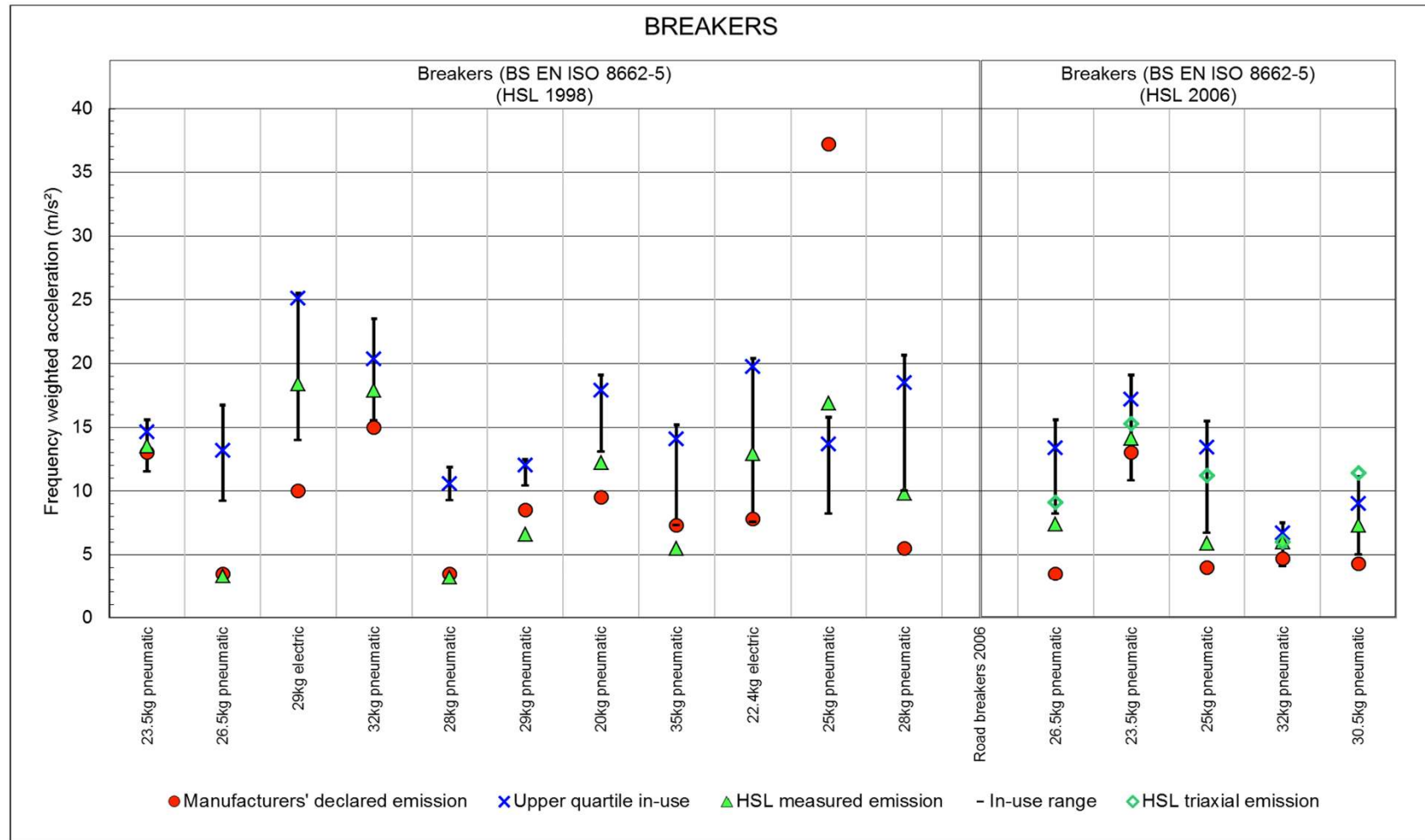
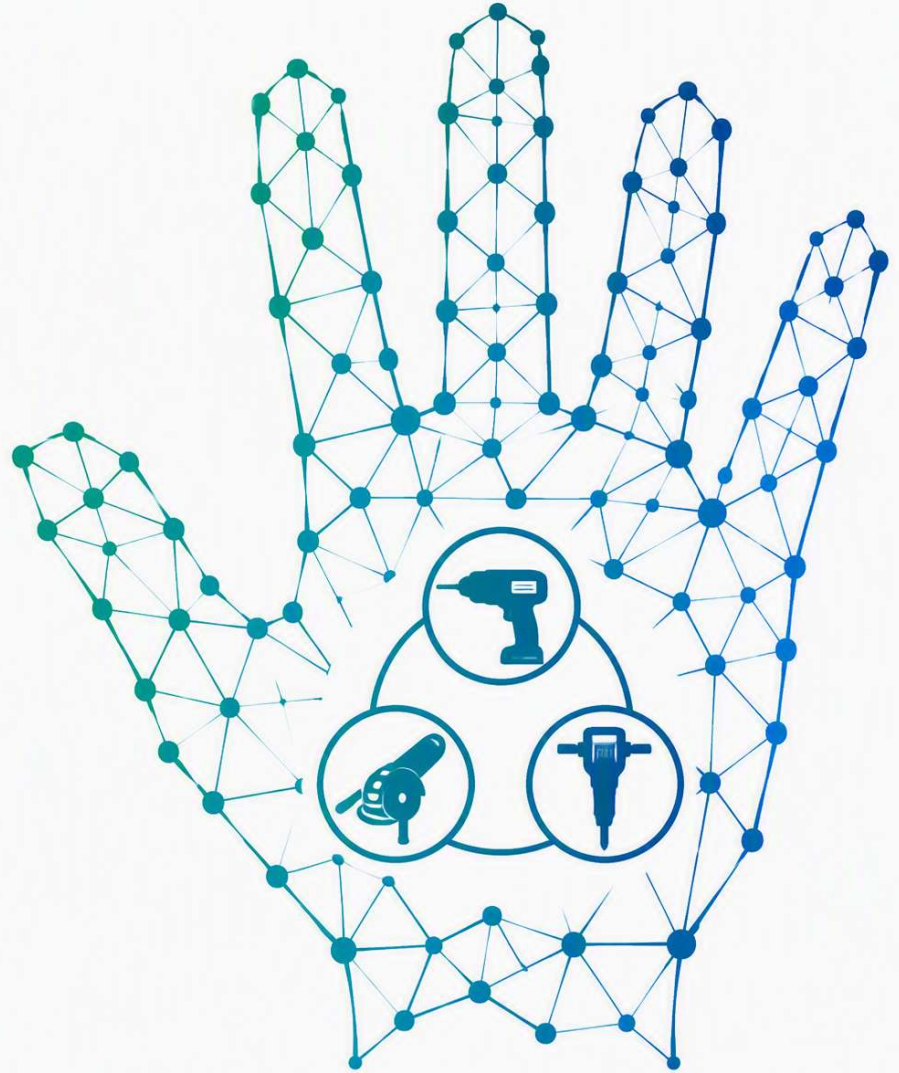


Figure 5 Comparison of breakers' vibration data from 1998 with that from 2006

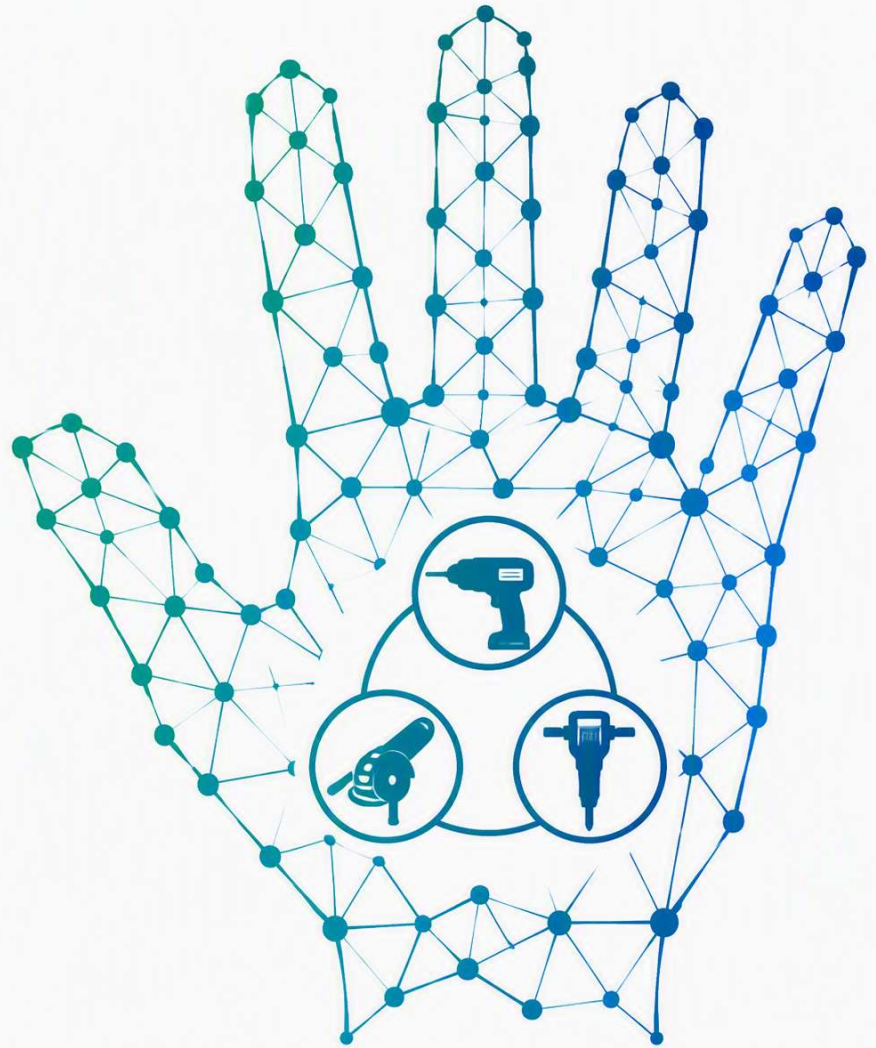
The difference between the standardised lab based required test and the in-use vibration emission

**By acting as
one group, you
can ask
suppliers for
better power
tools**





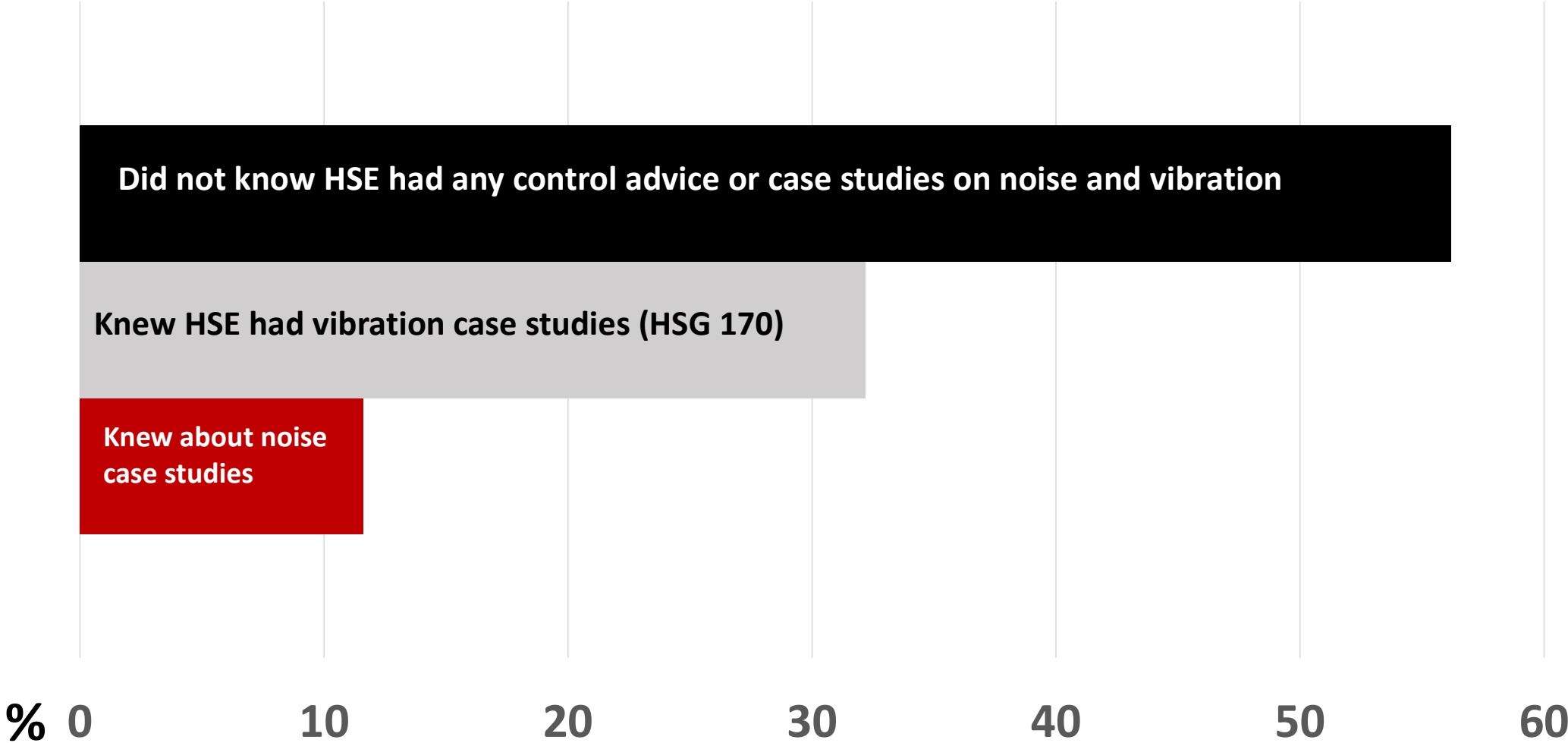
**You pay to
measure the
same process
using the same
power tools**





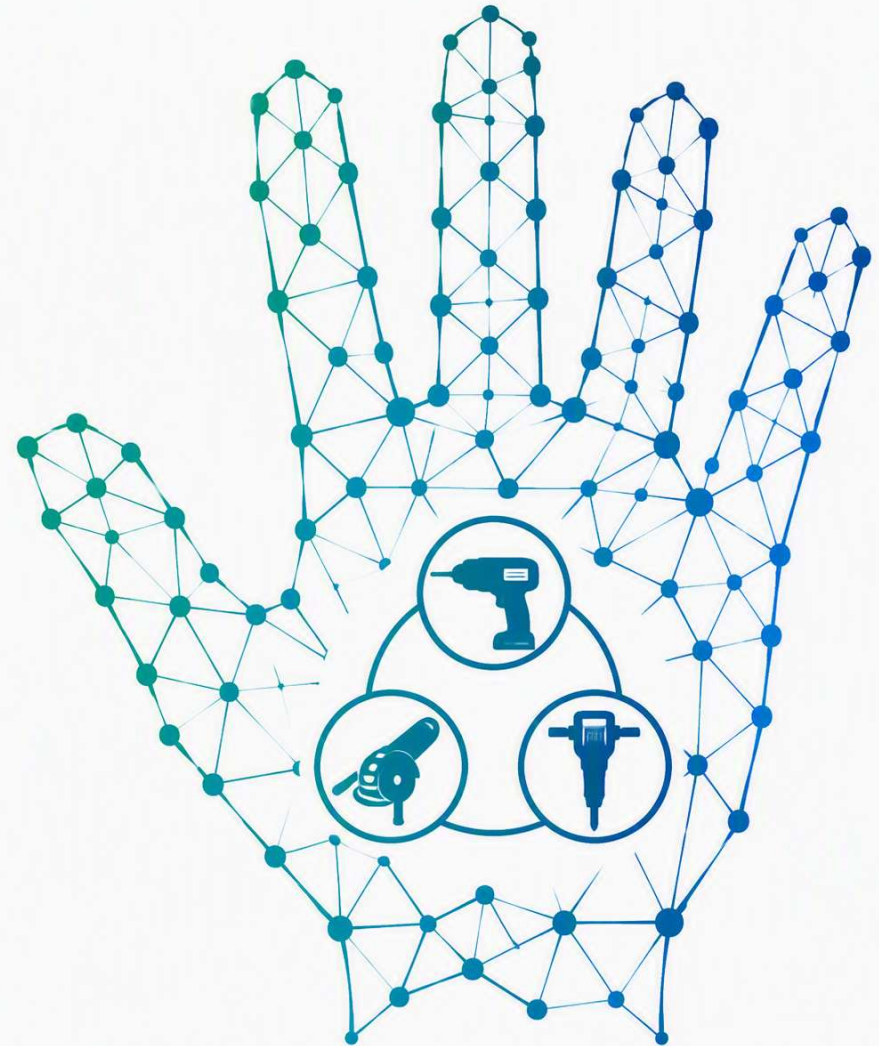


Percentage of attendees at a workplace noise and vibration event who knew HSE had advice on control for noise and vibration (+1000 people)



“The LA prosecuted for HAVS usually had data, assessments and health surveillance in place. Their failure was not acting on it”

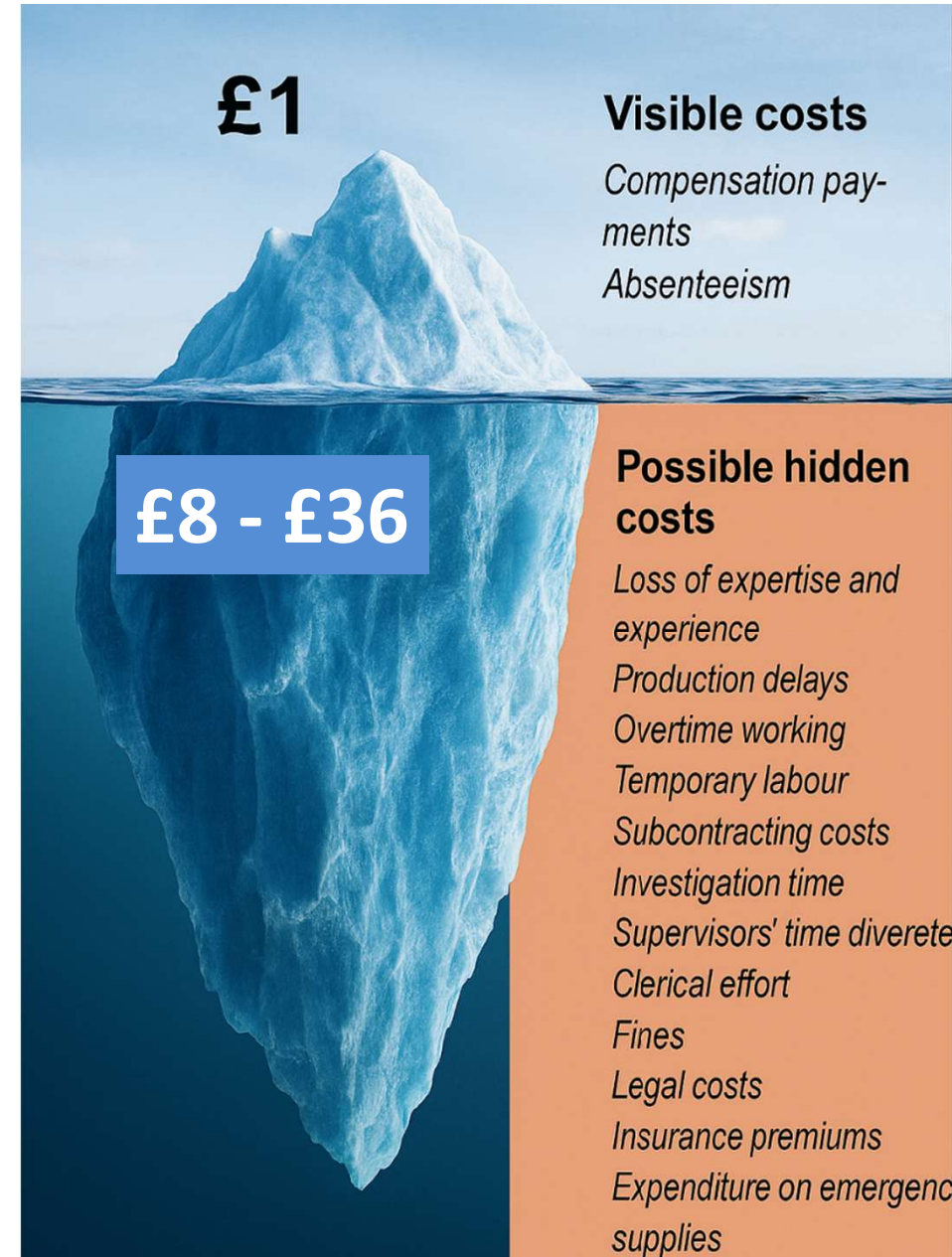
**You pay for 3rd
party
monitoring and
advice that
takes your
focus off
control**



**Workers with
HAVS at stage
2 (late), or
higher, should
no longer
work with
power tools**

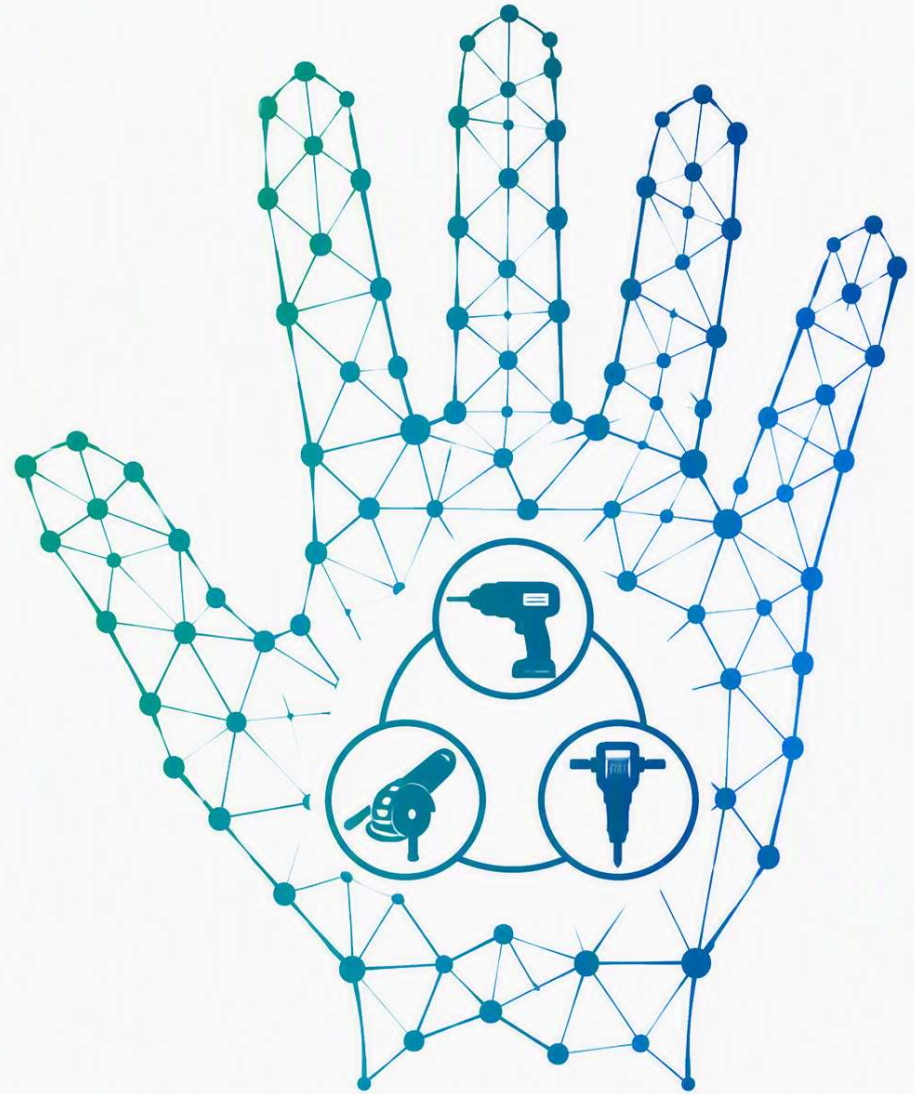


The **cost to you** from making your workers unwell with Hand-arm Vibration Syndrome



**1 in 10 of all HAVS RIDDORS
come from Local Authorities**

**You pay for
the direct
and indirect
ill health
costs**



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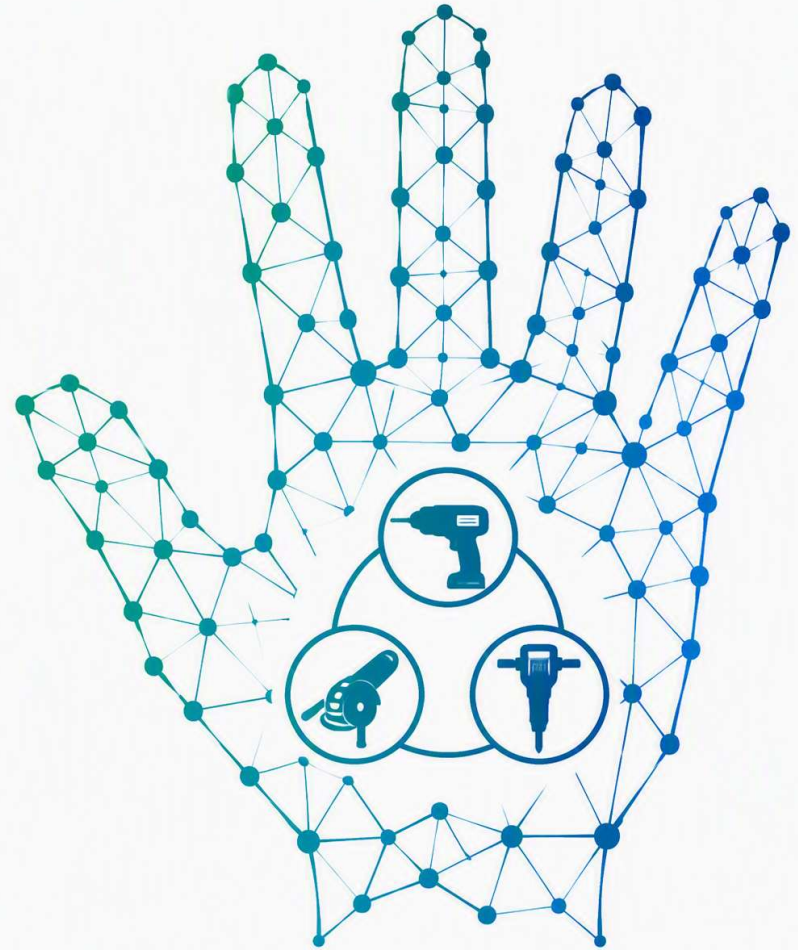
PREVENTING ILL HEALTH TOGETHER

**PROTECTING PEOPLE
AND PLACES**



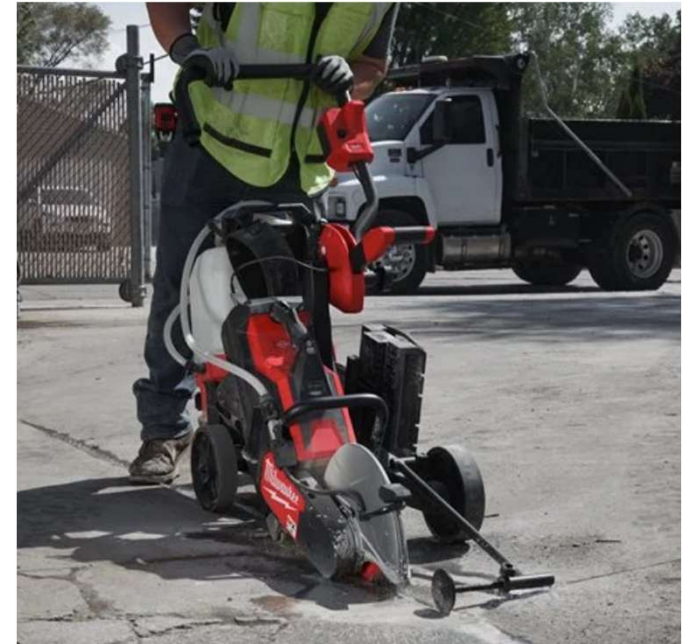
Hand Arm Vibration Risk Reduction Pledge

Share solutions,
Save resources,
Stop HAVS





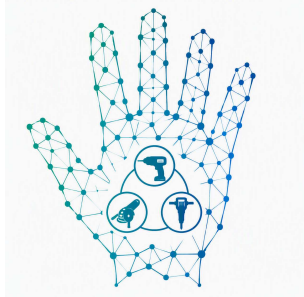
**PROTECTING PEOPLE
AND PLACES**





HSE advice since 2018





**PROTECTING PEOPLE
AND PLACES**



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HAVS Cross Industry Working Group - Shared Folder



Upload



Name ↓^A/₂

Modified By



Agenda, Minutes and Actions

4 Items

--



Comms

0 Items

--



Elimination Examples

3 Items

--



HAV Pledge

1 Item

--



HAVS Power tool contacts from July 2018 and recent Hire To...

15 KB

Adele Davies



Innovation

1 Item

--



Tooling

10 Items

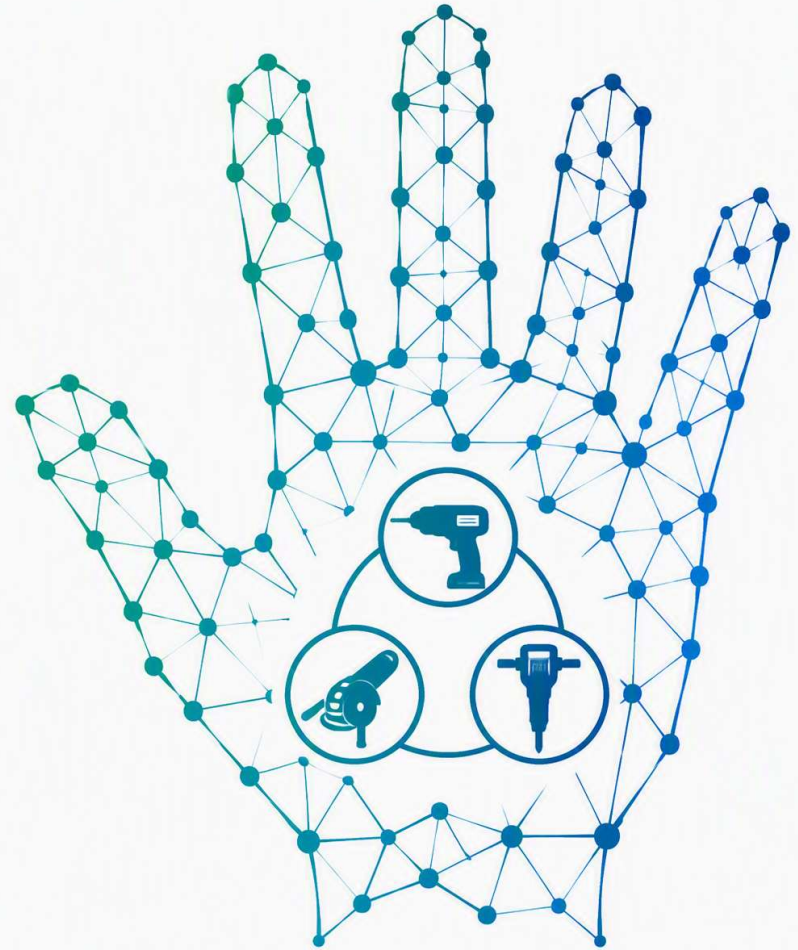
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Top 20 - Worst Offending Tools

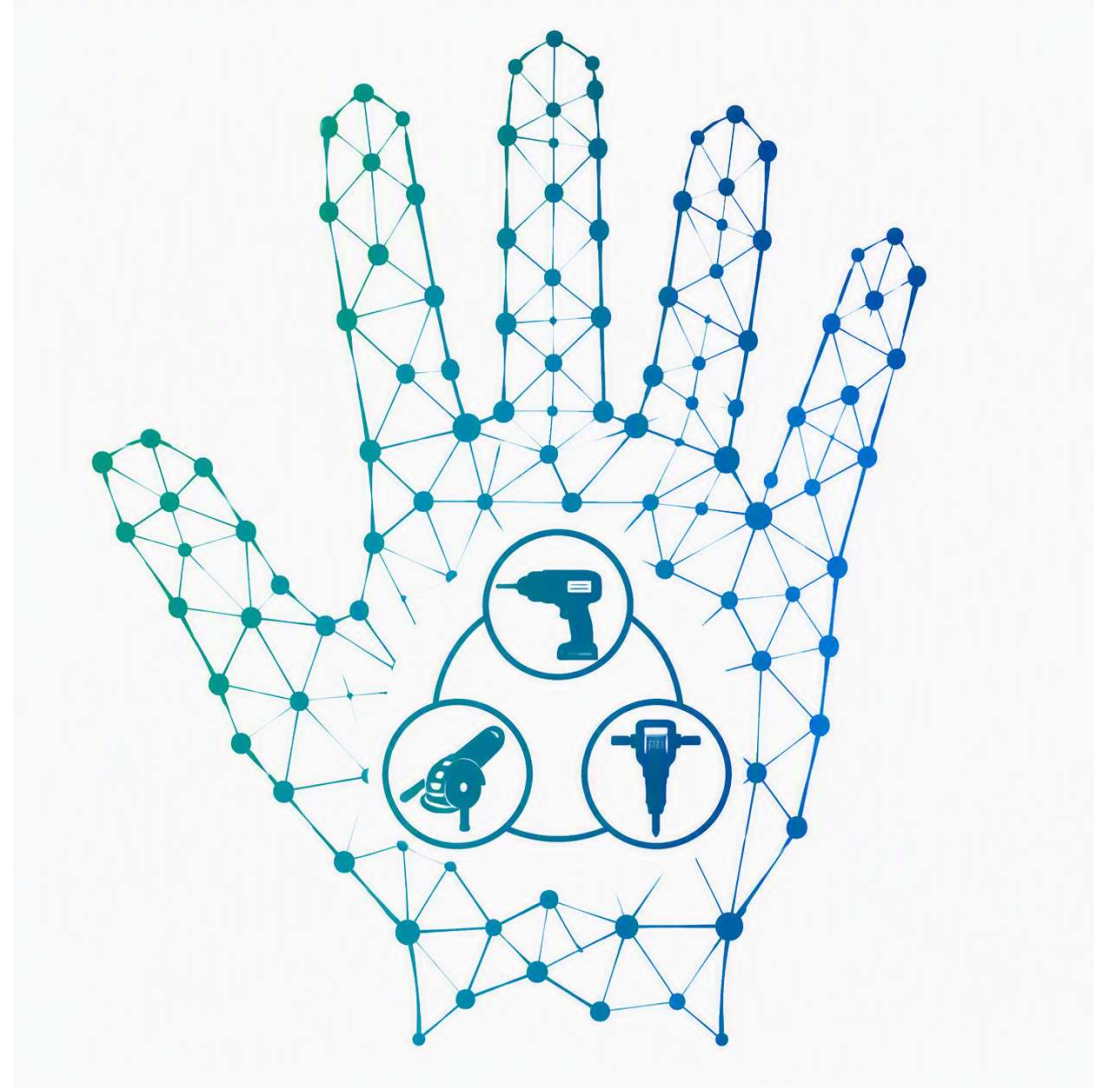
Uses a SPILL formula to pull the to 20 tools (based on vibration magnitude from the Compiled Tooling Data). Supplying company name omitted.

No	Tool Type / Equipment Type / Tool Family	Make	Model	Other Information	Consumable / Disc / Drill bit	Task	Surface Tool Used on	Type Measur
32	Clay Spade	MBW	—		—			Measured
31	Tampering Pole	MBW	—		Elephant Foot			Measured
156	Trench Rammer	Wacker	WR 7298		Elephant's foot	Compaction		Measured
246	Rotary Hammer Drill	Atlas Copco	CP9	Back Handle	150Mm Blade	Breakage - Concrete	Concrete	Measured
181	Demo Pick	CP	CP22		—	Breaking Out		Measured
9	Reciprocating Saw	Makita	DJR186RME	18V LXT				Measured
245	Reciprocating Saw	Dewalt	DCS380	Back Handle	150Mm Blade	Cut Off - 4" Pipe	Pipe	Measured
70	Hammer / SDS - Drill	Makita	110 SDS HR2630					Measured
247	Rock Drill	Atlas Copco	BBD 15ET	Right Handle (Fixed)	22 mm $\varnothing$ x 350 mm Plug Drill	Drilling	Road Surface (Tarmac, Asphalt and Concrete)	Measured
152	Vibrating Plate	Faryman	—			Compaction		Measured
248	Rock Drill	Atlas Copco	BBD 15ET	Left Handle (Trigger)	22 mm $\varnothing$ x 350 mm Plug Drill	Drilling	Road Surface (Tarmac, Asphalt and Concrete)	Measured
145	Vibrating Plate	Wacker	VP1031					Measured
154	Vibrating Plate	—	PL77331			Compaction	Hard surface (tar)	Measured
158	Cut-Off Saw	Stihl	TS400	12" Petrol disc cutter		Cutting		Measured
166	Reciprocating Saw	—	JR 3000V		RW71048	Cutting	Plastic Pipework	Measured
134	Trench Rammer	Wacker	BS60-2					Measured
73	Hammer / SDS - Drill	Makita	110 SDS HR2630					Measured
147	Vibrating Plate	Wacker	BS52Y	16", 6"-8" Petrol		Compaction		Measured

Share solutions,
Save resources,
Stop HAVS

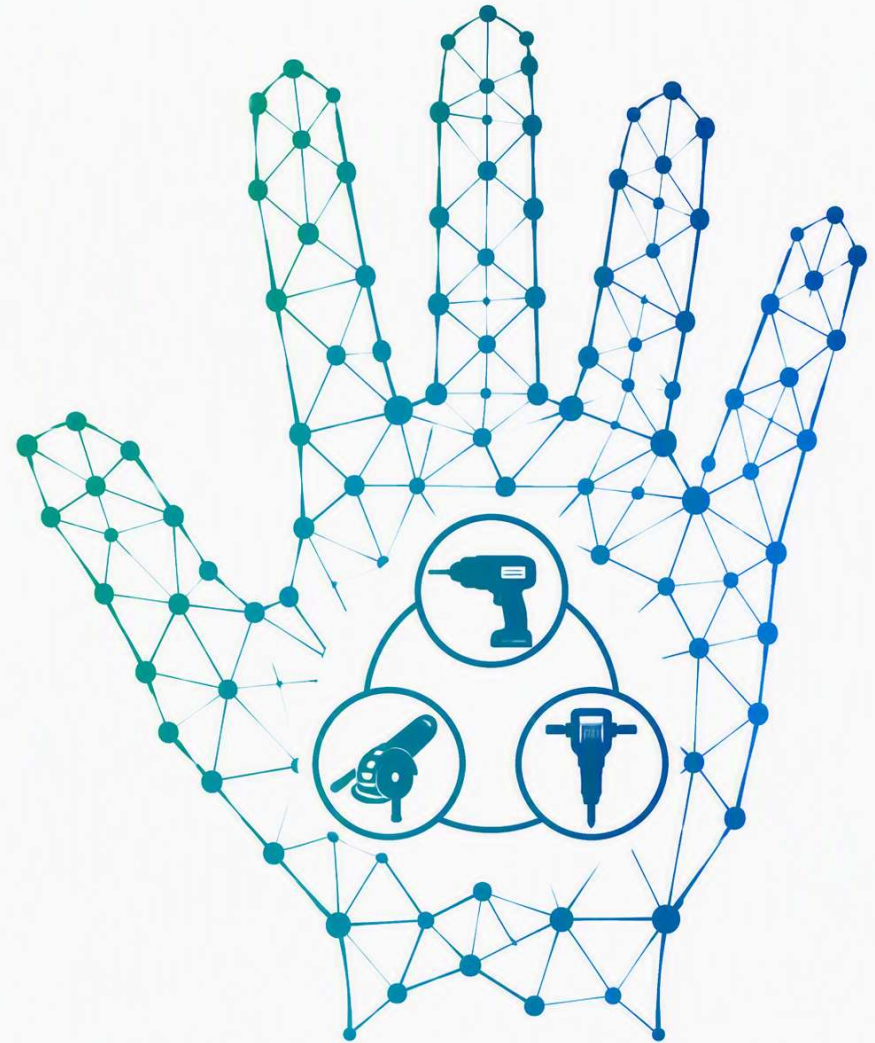


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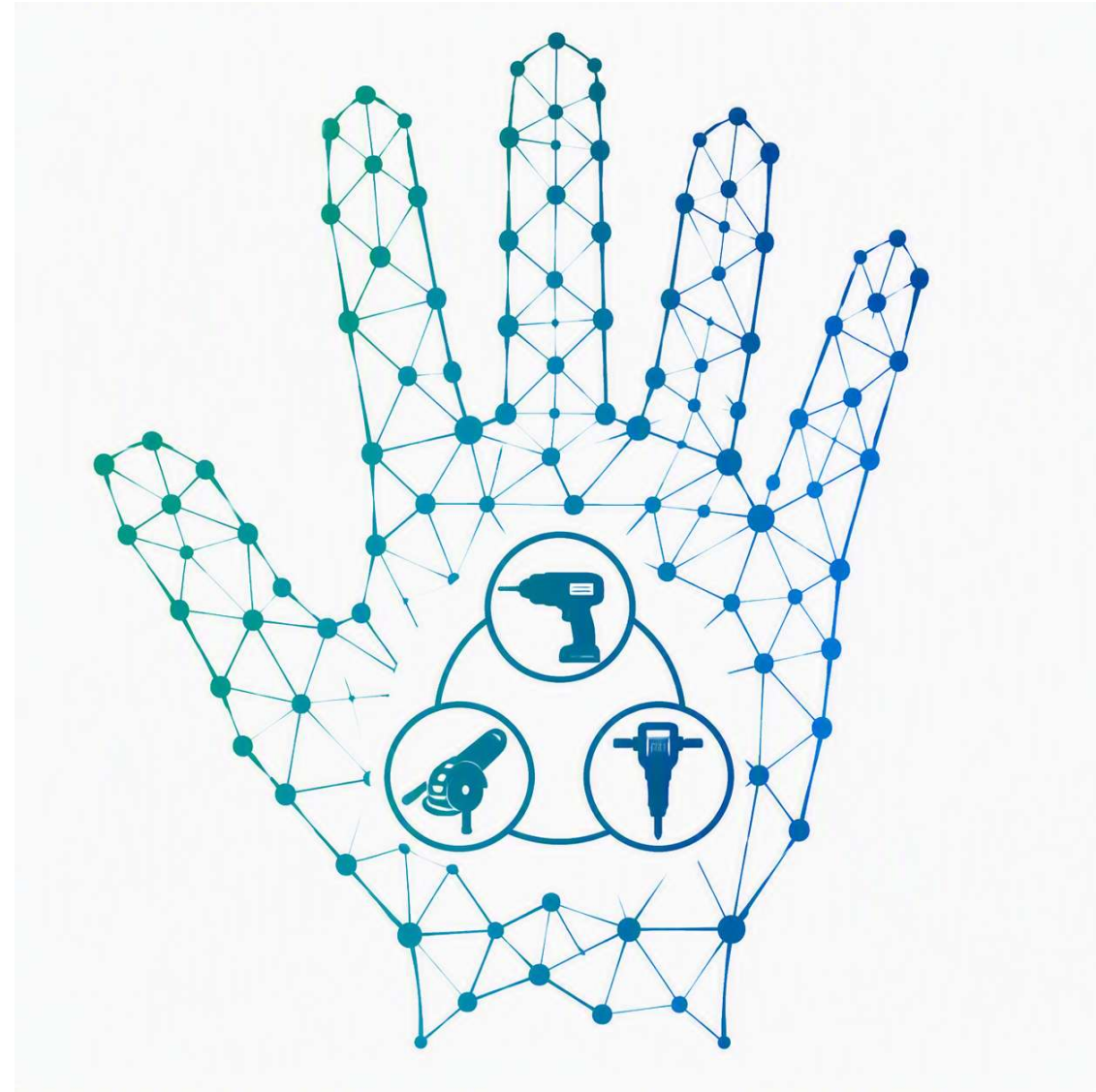


HAV Pledge:

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**Do you
want to
take
part?**



What **you** can do

- 1. Decide if you want to be involved**
- 2. Contact me with a list of interested local authorities**
- 3. I will put you in touch with the utility sector working group**



Chris Steel

Principal Specialist Inspector
Noise & Vibration
Health & Safety Executive

Contact Info

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[424b787b](https://www.linkedin.com/in/chris-steel-424b787b)