The Dutch approach on risk assessment: tool and process

A. 1.

SMEs: IT tool and sector approach Gerard Reinders and Arie in 't Veld

TNO | Kennis voor zaken



Who is who

- Gerard Reinders
 - Division manager Knowledge Transfer
 - Overall project manager Risk Assessment
- Arie in 't Veld
 - Team manager Information Management
 - IT-project manager Risk Assessment



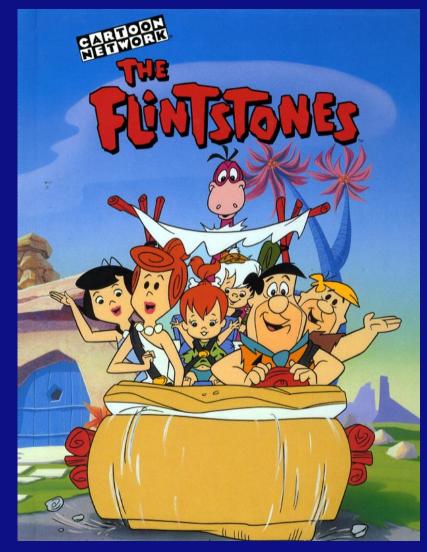
Employers obligations on Risk assessment

- Assess the occupational safety and health risks in a systematic way
- Combat the risks at source
- Define measures
- Produce a plan
- Implement the plan



Stone Age Risk assessment tools

- Piles of paper
- Text text text and more text
 - Example: "Inspection Plus Package" for labwork: 212 pages! Produced by TNO
- Too generic, not tailor made for employers
- Limitations in extra functions and/or information
- Perceived by employers as excessive administrative burden





Digital risk assessment

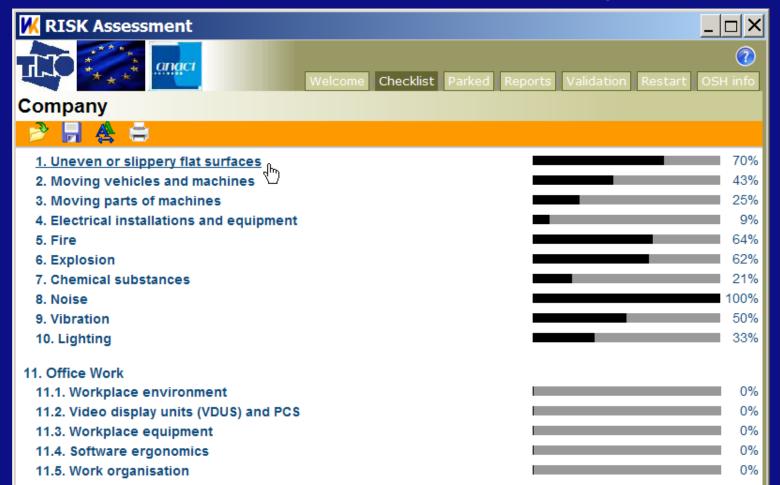
- Checklists with additional information if needed
- Tailor-made through so called filter questions
- Automatic generation of to do lists and plans of measures
- Inclusion of top priority risks in branch
- Best available techniques offered to combat the risks
- Connection possible to solutions database ('OSH Catalogue')
- Built-in risk evaluation
- At the moment, downloaded by 5.000 SME's every month



Building the tool, using TNO Smartbox (CMS)

🔣 WizKit beheeromgeving []									_		
<u>T</u> emplate <u>Z</u> oeken											
Model Thema's Profielen Aggregatie niver	iu's I	Rapportage									
	Context	Compan	y Titel: 8. Noise								
Thema	Alger	meen V	ragen/Stellingen Conclusies								
Thema's	2 V V Maximale score : 150.0										
- 🗆 🚍 2. Moving vehicles and machines	Eén vo	Eén voor één Vraag/Stelling Antwoord alternatief									
3. Moving parts of machines 4. Electrical installations and equipment	nr	nummer	vraag/stelling	type	antwoord	score	weging	n.v.t.	weet niet	stellen	
			Can high noise levels arise as a result of work		🔶 yes	0		_			
6. Explosion 7. Chemical substances	1	8.1	processes (e.g., metal-on-metal impact, engines)?	tekst	no	1	50				
7. Chemical substances	2	8.2	Can high noise levels arise as a result of	tekst	🛩 yes	0	20			0	
9. Vibration	<u>د</u>	0.2	ambient noise which penetrates buildings?	leksi	no	1	20			~	
□	3	8.3	Can operating noise mask alarm signals?	tekst	yes no	0	10			0	
🔤 11.1. Workplace environment	4	8.4	Is the noise so loud that you would have to raise	tekst	← yes	0	50			0	
I1.2. Video display units (VDUS) and PCS I1.3. Workplace equipment		0.4	your voice to talk to people at your workplace?	tenat	no	1	50			**	
 11.4. Software ergonomics 11.5. Work organisation 	5	8.5	Do you unintentionally raise your voice when you talk to people after leaving your workplace?	tekst	yes no	0	20			0	
21-10-2006 16:02:16											

Checklist, overview of topics and progress



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A certain question can filter out (hide) subsequent questions ...

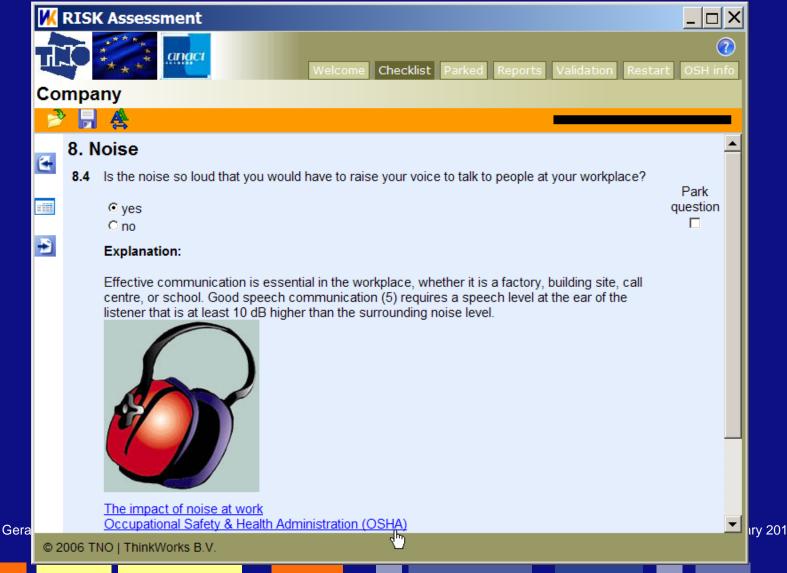
K RISK Assessment		<u>_ ×</u>
Welcome Checklist Parked Re	eports Validation Res	tart OSH info
Company		
 ■ ■ 8. Noise 		
 8.1 Can high noise levels arise as a result of work processes (e.g., metal-on-met impact, engines)? 	tal C yes ⊙ no	
		Þ

... or activate subsequent questions; this view shows all questions within the topic

🔣 RISK Assessment									
1	Welcome Checklist Parked Reports Validation Restart OSH info								
Co	mpany								
2									
	8. Noise								
			Р						
<u>8.1</u>	Can high noise levels arise as a result of work processes (e.g., metal-on-metal impact, engines)?	⊙yes ⊂no		0					
<u>8.2</u>	Can high noise levels arise as a result of ambient noise which penetrates buildings?	⊙yes Ono		0					
<u>8.3</u>	Can operating noise mask alarm signals?	⊙yes Ono		0					
	Is the noise so loud that you would have to raise your voice to talk to people at your workplace?	⊙yes Ono		0					
	Do you unintentionally raise your voice when you talk to people after leaving your workplace?	⊙yes Ono		0					

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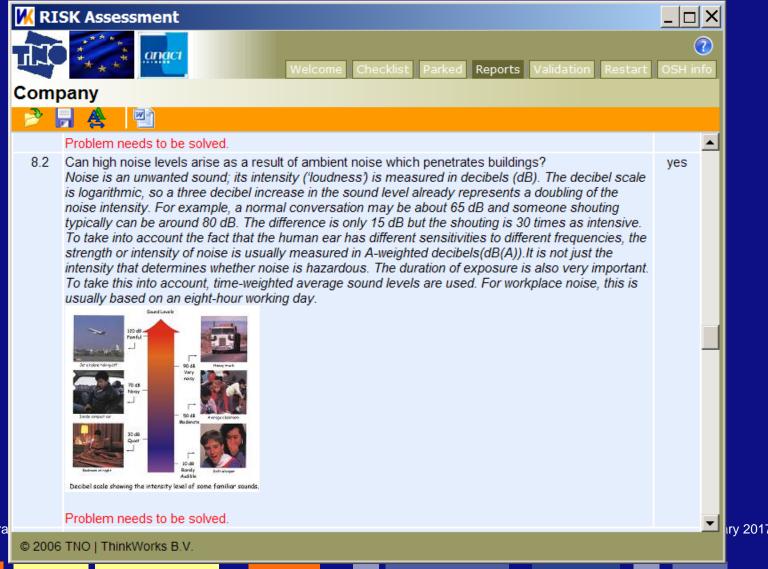
This view shows one question at a time, plus explanation, image, hyperlinks, progress bar



room for legal references and a box for additional comments in case of special risks



Questions and answers are shown in a report, which also indicates problem areas



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Automatic Action plan, includes hazards, actions, sorting on priority, updateable status

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Co	mpany									
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8.	Noise									
8.1	Noise (<i>Company</i>)									
	Hazard	Actions		Budget	i	Who	Prioriteit ∎	When	Status	
8.1	Can high noise levels arise as a result of work processes (e.g., metal-on-metal impact, engines)? {yes}	Determine workers' exposure; check compliance with the limits established in legal requirements.	▲ ▼	eur 1.500	▲ ▼	JM 🔺	1 -	21/10/2006 until 21/10/2007	to do	•
8.4	Is the noise so loud that you would have to raise your voice to talk to people at your workplace? {yes}	Provide appropriate hearing protection (in consultation with employees or their representatives).	▲✓	eur 999	^	A.	1 💌	23/10/2006 until 21/10/2007	started	•
8.2	Can high noise levels arise as a result of ambient noise which penetrates buildings? {yes}	Limit time spent in noisy areas. Action can be COMPLETED by the user him/herself !		eur 888	▲ ▼	A.	2 💌	03/10/2007 until 21/10/2008	halfway	•
8.5	Do you unintentionally raise your voice when you talk to people after leaving your workplace? {yes}	Ensure regular hearing checks for all workers exposed to high level noise.	^	eur 2.000	^	JM 🔺	3 🗸	04/10/2008 until 21/10/2008	nearly done	₽ ▼

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Developments 1989 - 2004

- 1989: Framework Directive on health and safety 89/391/EEC; on stating various employers obligations (Article 9);
- 1992 1994: Implementation Framework Directive in Dutch Working Conditions Act;
- 1992 2002: *Printed* Risk Assessments tools (guidelines, handbooks etc.);
- 2003: Digital 'Base' Risk Assessment tool, committed by employer organisation SME Netherlands;
- 2004: Tailor-made digital risk assessment tools for more than 80 industry and service branches, fuelled by "marginal check" for SMEs to obtain Labour Inspection approval.



The years before 2003

- OHS expert needed for each Risk Assessment
- Only general surveys available, in print
- No tailor-made assessments for sectors and SMEs
- Considered ' obligatory, bad for business'
- High cost, a lot of work, and many registry requirements
- Conflicting OSH and other legislation (e.g. Fire Regulations)



Risk Assessment, a high potential....

A study "Arbowet in beeld", ITS 2004

- Companies > 50 staff profit from use of R.A. tools
- Smallest companies (< 10 staff) fall behind, having trouble using available tools and information
- BUT: Risk Assessment and Action Plan prove to set SME Occupational and Health policy in motion!!!!!



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Risk Assessment is an important instrument

Employers and employees are activated

Ministery SZW conclusions

- BUT
- Downsizing costs (the check) and harmonizing regulations are needed
- Focus on SMEs
- Focus on major risks (Top 5)
- Focus on solutions, rather than information
- Focus on digital sector instruments



Wednesday, 11 January 207

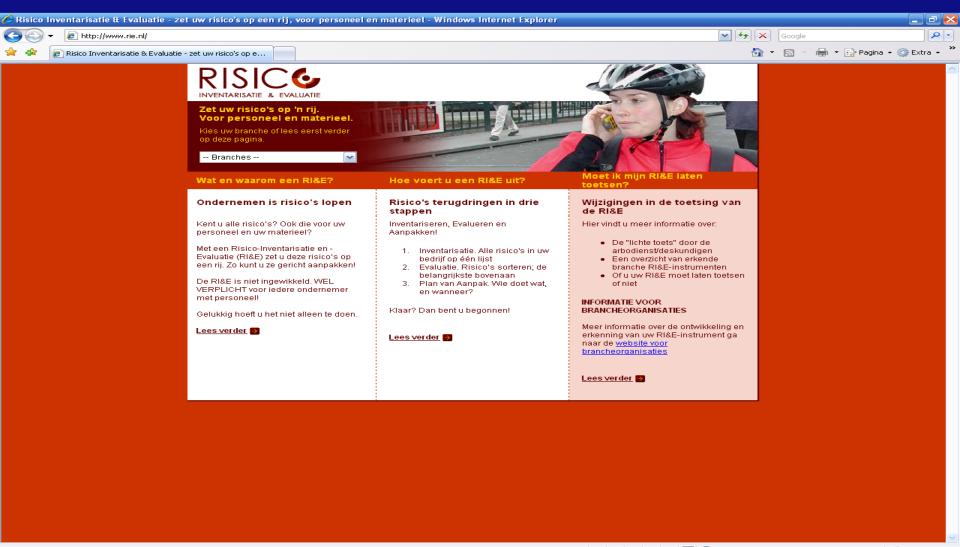


The Dutch digital practice

- <u>www.rie.nl</u> (2003)
- digital risk assessment tool for SMEs (medio 2004) <u>www.arbo.mkb.nl</u>
- Development of digital sector instruments (2004 2006)
- An easier check for SME's (lower costs) (2004 2006)
- Implementation means for sectors (2006)



www.rie.nl



🛃 start

🥖 Risico Inventarisatie ...

🏹 🚭 Internet

🔍 100% 🔻

www.arbo.mkb.nl

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Development of digital sector R.A. instruments

- Startup Conference
- PR campaign to engage new participating sectors
- Project plan:
 - Securing social partner commitment
 - Project team: participation experts outside TNO
 - Define common goals
 - The method
 - A contract
 - Preparation of workshops on content and major risks
 - Kickoff workhop: R.A. benefits, major risks
 - Collaborative content development
 - Results presented in workshops
 - Conversion of the results, editor training
- Digital tool development
- Development of 'light check' for SMEs
- Launch of Helpdesk
- Development of branche implementation tools





Implementation tools to reach end users

A guide for development and implementation <u>www.brancheorganisaties.rie.nl</u>

- Lay down goals, target groups, and means (including wives and pub mates!)
- Lay down communication: focus on language and issues of companies, employers, employees (articles, websites, meetings, events)
- Organise support (Good Practices, training, advice, workshops, helpdesk, FAQ, funds)
- Organise changes in company behaviour (commitment, define tasks and activities, priorities and deliver dates)
- Organise long term commitment for solutions@work (OHSpedia), e.g. through a Community of Practice



Results of the Dutch approach 2007

- Around 80 digital sector R.A. tools (70 sectors to go)
- 5.000 downloads each month
- Social partners collaborating on both R.A. and solutions
- Focus on major risks
- Cost and time reduction
- BUT... there is still a job to do in reaching end users





Results of the digital R.A. Practice

- "Vervolgmeting producten AP NL, 2006" (Survey by Ecorys)
- Increased instrument awareness: 24% (2005) to 31% (2006): more focus needed on SMEs
- Digital sector R.A instruments are popular thanks tot accessible language etc.

Depth interview statements from employers:

- "It used to be expert tools; nowadays instruments are used by us employers and employees"
- "We experience this as a valuable tool"
- "It's cheaper"
- "It's more readily useable"
- "One learns how to manage one's risks"

