Sigma Information Systems, Member of MANAGEMENT FORCE Group



# What is this presentation about?

What is RAM? Why we use RAM? What makes RAM unique? A closer look at RAM





### What is RAM?

The **R**isk **A**ssessment **M**anagement is a Windows MSI program for:

- Standardization / homogenization of information
- Monitoring and alerting for tasks
- Proper flexible reporting to management
- Proper and safe sharing of data
- Concurrent data access by multiple users

RAM is designed and maintained by S.I.S. a software company member of MANAGEMENT FORCE Group





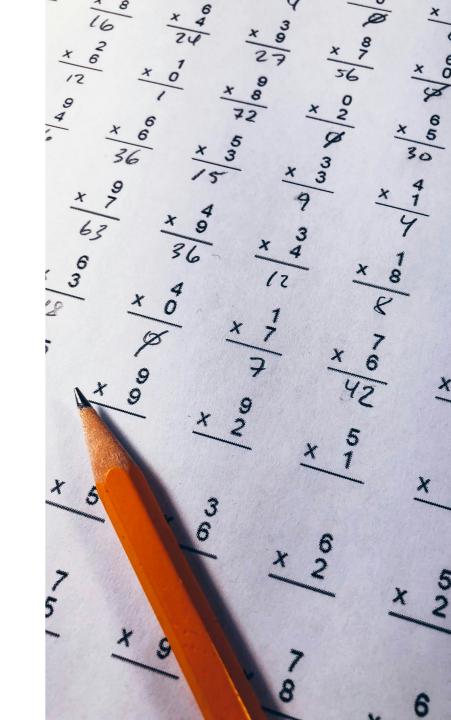
#### Why use RAM?

A risk assessment process is producing large and complex volumes of data

This data complexity requires further processing for different levels of administration

RAM does this for you!





### What makes RAM unique?

Effectively tackles the challenges for:

- Standardization / homogenization of information
- Monitoring and alerting for tasks and measure assignments
- Proper flexible reporting to management

In dealing with large and complex volume data you need no specialized knowledge or hiring one that does

RAM is specialized to focus on gathering, counting, categorizing, distributing and filing data for future use





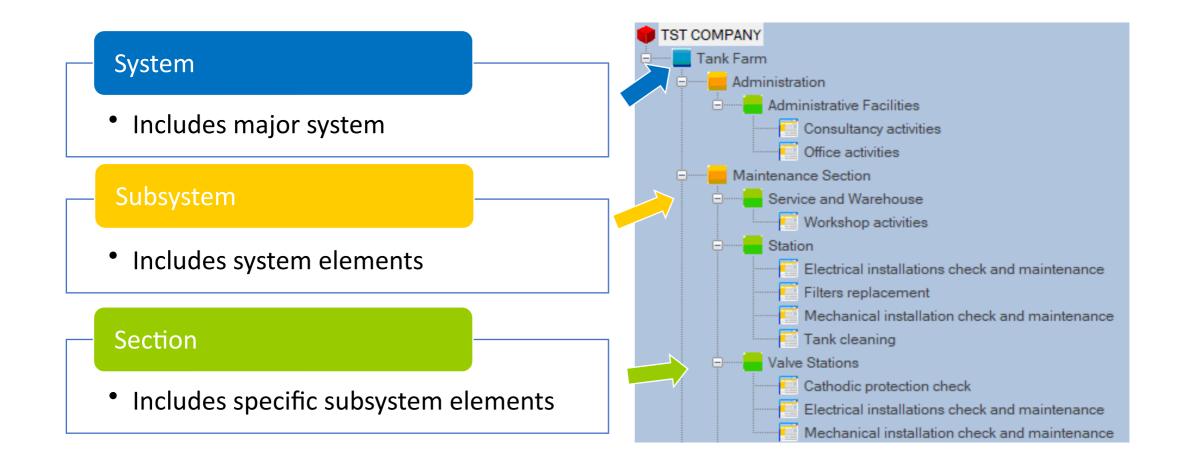
### A closer look at RAM

- Separating and focusing on all levels of sources of hazard
- A database of built-in or pre-configured hazards measures and related information
- Selection of assessment methodology
- Risk assessment
- Dynamic reporting
- Multilanguage
- Additional capabilities





#### 1. Separating and focusing on all levels of sources of hazard





### 2a. Built-in hazards and controls database

 RAM contains the hazards and risk assessment records of the projects. It allows entering:

Hazards
 Hazardous factors
 Risk control measures
 Assessment records

Hazards: Each hazard can be added only once in each risk assessment Hazardous factors: add a hazardous factors to RAM that belong to the selected hazard

Hazard		Hazardous Factors
Airborne chemical substances	*	Fuel vapors
Dangerous objects and surfaces (sharp, rough, etc.)	•	Outstanding parts of structures/ Sharp equipment
		Uncovered corners
	•	
Extreme weather conditions	►	Extreme cold
		Strong winds
		Working at height



### 2b. Built-in hazards and controls database

Hazard control measures the addition of hazardous factors to the RA, including

#### Measure, Implemented, Due date, Category, Responsible, Legislation, Linked file, Comments,

Risk Control Measures										
Measure	Implemented	Due Date	Category	Responsible	Legislation	Linked File	Comments			
Employee training			Administrative	Resp. Perso	Leg. 156/17		Comment 1			
Employee health monitoring		13/8/2020	Administrative				Comment 2			
Closed system well maintained			Technical	Resp. Perso	Leg. 555/18					
Equipment checking progra						Equip-Check.xls				
					1					
Marking of hazardous parts										
Safeguards							Comment 4			
Use of appropriate safety gl							Comment 5			
Employee training				Resp. Perso						
Use of appropriate water pr				Resp. Perso						
Use of water proof safety bo										
Stop working policy										
Use of appropriate jacket										

#### 1. Hazards

- 2. Hazardous factors
- 3. Risk control measures
- 4. Assessment records



### 2c. Built-in hazards and controls database

- 1. Hazards
- 2. Hazardous factors
- 3. Risk control measures
- 4. Assessment records

 Contains the risk assessment record for each position. The assessment record includes the following:

						Severity		
			_	1	2	3	4	5
			1	1 - Trivial	1 - Trivial	2 - Low	2 - Low	2 - Low
k, Fina	l risk		2	1 - Trivial	2 - Low	3 - Medium	3 - Medium	4 - High
Assessment Very Unlikely Unlikely Likely	Description The likelihood t The likelihood t The likelihood t	Likelihood	3	2 - Low	3 - Medium	3 - Medium	4 - High	5 - Very High
Very Likely Certain	The likelihood		4	2 - Low	3 - Medium	4 - High	5 - Very High	5 - Very High
	Calculat S I 1		5	2 - Low	4 - High	5 - Very High	5 - Very High	5 - Very High
more than T y.	2	-	2 - Low					
ij	3	3	2-Low					
	1	4	2 - Low					
	2	2	2 - Low	ł				
	4	1	2 - Low					
	1	5	2 - Low					
	5	1	2 - Low					

#### Position, Severity, Likelihood, Exposure, Initial risk, Final risk

erity			Lik	elihood	
Severity	Assessment	Description		Likelihood	Assessm
1	Minor	Insignificant outcome, may be required first aid treatment on site, cor	•	1	Very Unlike
2	Small	Injuries that may require medical treatment. Absence from work no n		2	Unlikely
3	Critical	Injuries that require medical treatment and/or hospitalization. Absend		3	Likely
4	Severe	Serious injuries that require medical treatment and hospitalization. A		4	Very Likely
5	Catastrophic	Death or 1st degree incapability.		5	Certain
		>	<		

	Risk Level	Color	Description
۰.	1 - Trivial	00FF00	Acceptable risk, no additional measures are required.
	2-Low	FF6633	Acceptable risk with control measures in place.
	3 - Medium	OOFFFF	Acceptable risk, with the provision that control measures will be implemented in long term (no more than Tig
	4 - High	0099FF	Unacceptable risk, control measures to be implemented in short term (no more than 3 months).
	5 - Very High	0000FF	Unacceptable risk, stop working until control measures to be implemented.



#### 3. Selection of assessment methodology

Severity (S)

Likelihood (L)

#### Frequency of Exposure (E)

#### Risk level calculated by product: S x L x E

Seve	erity					Lik	kelihood				Ex	posure		
	Severity	As	sessment	Description	^		Likelihood	Assessment	Description	^		Exposure	Assessment	Description
F.	1			No impact in h	ealth		1		Almost impossible		•	1		The employee is exposed once
	2			First Aid Injury.	Medical Trea		2	(~1%-10%)	High Unlikely			2		The employee is exposed once
	3			LTL with absen	ce ≤3 workini		3	(~10%-25%)	Almost Unlikely			3		The employee is exposed once
	4			LTI, with absen	ce between 3		4	(~24%-40%)	Lowly Possible			4		The employee is exposed once
	5			LTI, with absen	ce 23 working		5	(~40%-50%)	Possible < 50%			5	(	The employee is exposed once
	6			LTI, with absen	ce 23 working		6	(~50%-60%)	Very Possible = 50%			6		The employee is exposed once
	7			LTI, resulted to	light disability		7	(~60%-70%)	Highly Possible > 60%			7		The employee is exposed once
	8		LTI, resulted to permanent d		permanent d		8	(~70%-80%)	Likely			8		The employee is exposed once
	9 LTI, resulted to permanent to		permanent tr		9	(~80%-90%)	Highly Likely			9		The employee is exposed once		
	10			Fatal injury			10		Almost certain	1.0		10		The employee is exposed contin
*					× 1	ŝ				~	ŝ			>
tisk	Rating	То	Risk Leve	l Color	Description									
•	0	199	Trivial	OOFFOO		sary o	ontrols to ensure	acceptable risk k	ivel					
	200	399	Low	FF6633		Implementation of controls to reduce the risk in a timeframe of two (2) years								
	400	505	Medium	COFFEE	Implementation	of por	teres to reduce t	free righ in a torough	arme of one (1) year					
	600	799	High	0099FF	Implementation	of cor	ntrols to reduce t	the risk in a timefri	ame of six (5) months					
	800	1000	Very High	0000FF					ately of the necessary con	trois to p	reven	incidents and	minimize the ris	sk



#### 4. Risk assessment

Assessment contains the risk record, one for each position.

Each position specification of:

Initial risk level

Final risk level

is based on the selected methodology (2 or 3 parameters)

	Position			Initial		Final			
		S	L	Risk	S	L	Risk		
	Control Room Operators	2	2	2 - Low	2	1	1 - Trivial		
	Quality and Safety Inspectors	3	2	3 - Medium	2	2	2 - Low		
	Electricians	4	3	4 - High	2	2	2 - Low		
**									



#### 5a. Dynamic reporting

Ram application produces risk assessment reports.

Full risk assessment management consist three main sections:

RAM information data Workplace data and task data Risk assessment table Layout of the risk assessment reporting depending on:

Select of full RAM report Configuring measure categories Modification number of member of methodology parameters Hide or unhide columns in reports



#### 5b. Dynamic reporting

	OCCUPA	T ST COMPANY TIONAL RISK A SSE S	SMENT									
Rev. No.	: 0	Rev. Date	: 20/3	/2020 12:00:	00 π	μ	Next Rev. Date	:				
System	: Tank Farm	Sub System	: Ope	rations and (	Qualit	ty Cont	ol Section	: Va	alve Station	IS		
Prepared By	: Safety Practitioner	Approved By	: H&S	Manager			Section Responsibility	: 0	perations S	uper	isor	
Task No of Employees	: Valve stations inspection : 5	Shift	: Morr	ning and eve	ning		Task General Risk	: 3				
Ha zard	Implemented Measures	Position		Sev.	Lik.	Risk	Proposed Measures	Resp.	Due Date	Sev.	Lik.	Res.
Airborne chemical substances <u>Hazardous Factor</u> Fuel vapors	Equipment checking program in place Workplace technical ventilation <u>Administrative</u> Employee training (Leg: Leg. 156/17)	Quality and Safe	yInspectors	3	1	3	Administrative Employee health monitoring <u>Technical</u> Closed system well maintained (Leg: Leg. 555/18)			2	1	2
Dangerous objects and surfaces (sharp, rough, etc.) <u>Hazardous Factor</u> Outstanding parts of structures/equipment Uncovered comers	Safeguards Use of appropriate safety gloves	Quality and Safet	yInspectors	3	2	6	Marking of hazardous parts of equipment			2	2	4



### 6a. Multilanguage

RAM application is fully multilingual

Users are free to configure any number of languages in the application and translate all labels and messages

All risk assessment information entered in one language and can be easily translated by the user to any other language and produce the same reports in different languages Preconfigured system languages: Greek English Albanian Romanian

Application environment and data can be translated in any language included in system



#### 6b. Multilanguage

Language Greek	Hide Language Hide Language	🗟 Insert New Language		-		×
Label (English)	Label (Greek)		050			
[LANGUAGES]	English	Language Abbreviation	GER	(3 Letters)		
English Greek	Greek					
Romanian	Romanian	Language Name	German			
Albanian	Albanian		German			_
	Hungarian					
[LABELS]		Flag				
Open	Άνοιγμα					
Open File	Άνοιγμα Αρχείου					
Close	Κλείσιμο	Labels File				
Close File	Κλείσιμο Αρχείου	Labels I lie			_	
New	Néo					
New File	Νέο Αρχείο	OK		Cancel		
Company	Εταιρεία					



#### 7. Additional Capabilities

Revision backup	Overdue actions notification	Risk assessment duplicate	Organization structure duplication	Customization of application labels and messages
<ul> <li>Every revision of a risk assessment is retained in the database and can be accessed through the RA history</li> </ul>	<ul> <li>Users are notified for versions and measures that should have been processed</li> </ul>	<ul> <li>RA can be copied from one section to another</li> </ul>	<ul> <li>Any branch of the hierarchical structure can be copied to another branch in the same file</li> </ul>	<ul> <li>All labels and messages in any language can be modified</li> </ul>



## **Evolution**

RAM is now on its 3<sup>rd</sup> edition and has incorporated the experience of MANAGEMENT FORCE Group risk assessment projects

Sigma Information Systems software development team, will be happy to show you the full capabilities of the RAM







#### Thank you for your interest!

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**Questions and Discussion...**