



# Hazards Assessment Risk Mitigation (HARM)



EMI SIG May 2-5, 2011 - Charleston, SC.

# Ehh..

# What's the

# HARM?



# Hazards Assessment Risk Mitigation

# Thinking outside the box!



**It's a New**

**IDEA**



**At least an idea that's time  
has come!**

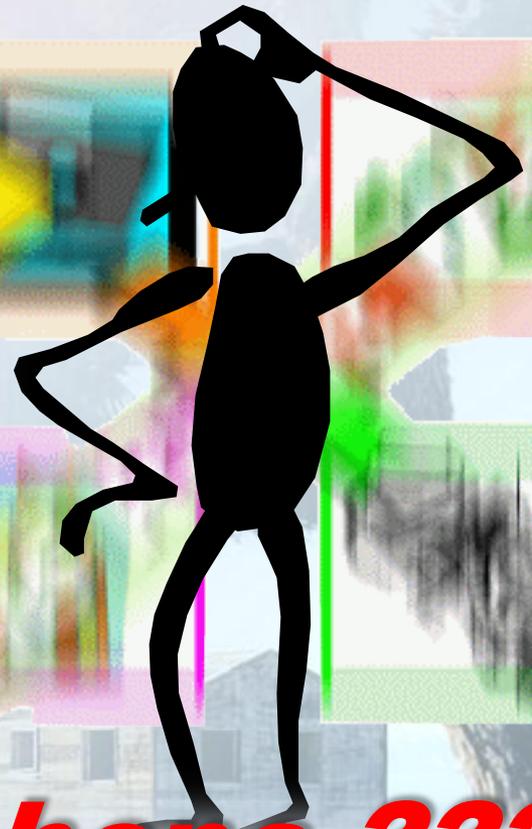
**Hazards Assessment Risk Mitigation (HARM)**



**Any process that requires thousands of manual iterations is always susceptible to human error.**



**Documentation !!!!**  
**Management !!!!**  
**Oversight !!!!**  
**Automation !!!!**



***Characterized by hope ????***



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**A do it yourself Guide!**

**Hazard Assessment  
Risk Mitigation**

FOR  
**DIIMMIO**

**The Old Way**



**Automation for the  
rest of US!**

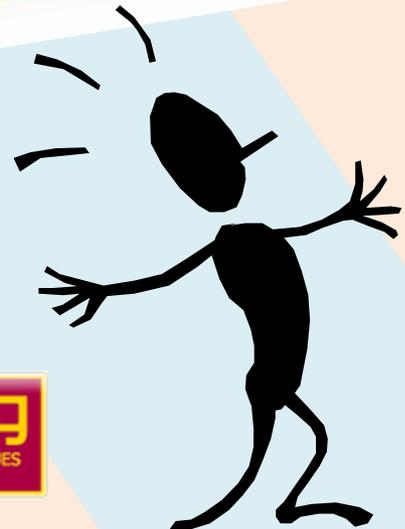
**Help!**



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**Isn't it time to rethink paper?**



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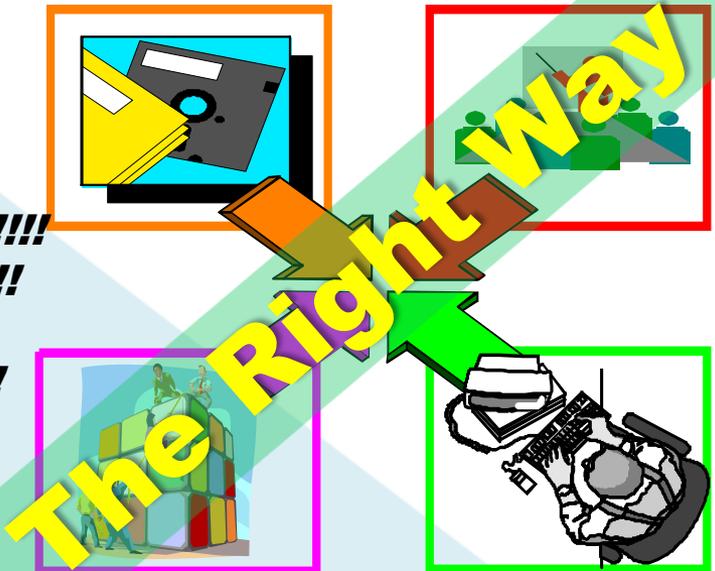
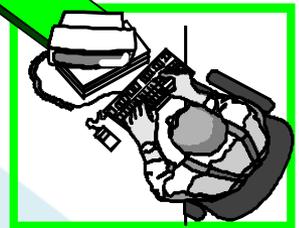
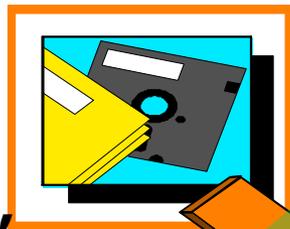


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*Any process that requires thousands of manual iterations is always susceptible to human error.*



**Documentation !!!!**  
**Management !!!!**  
**Oversight !!!!**  
**Automation !!!!**



***Characterized by Control !!!***

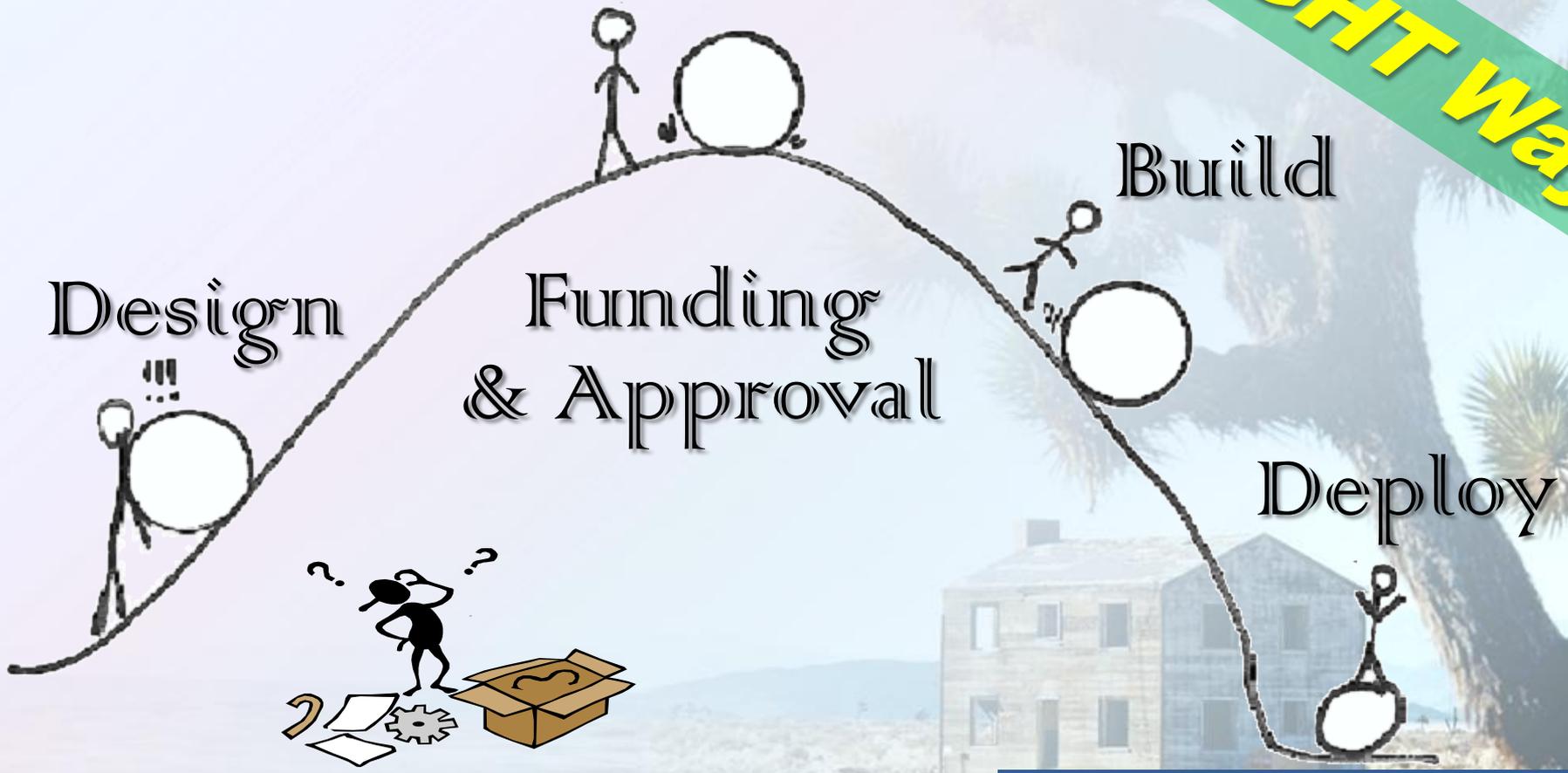
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# Characterized by Control !!!

The RIGHT Way



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**Automation**

**The RIGHT Way**



**EPIcode<sup>®</sup>  
Hotspot<sup>®</sup>**



**Leverage** exiting products to  
produce EPHAs

**Greatly enhancing & improving  
ESOS processes.**

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# HARM will demonstrate significant cost savings & improve ESOS operations

**The RIGHT Way**



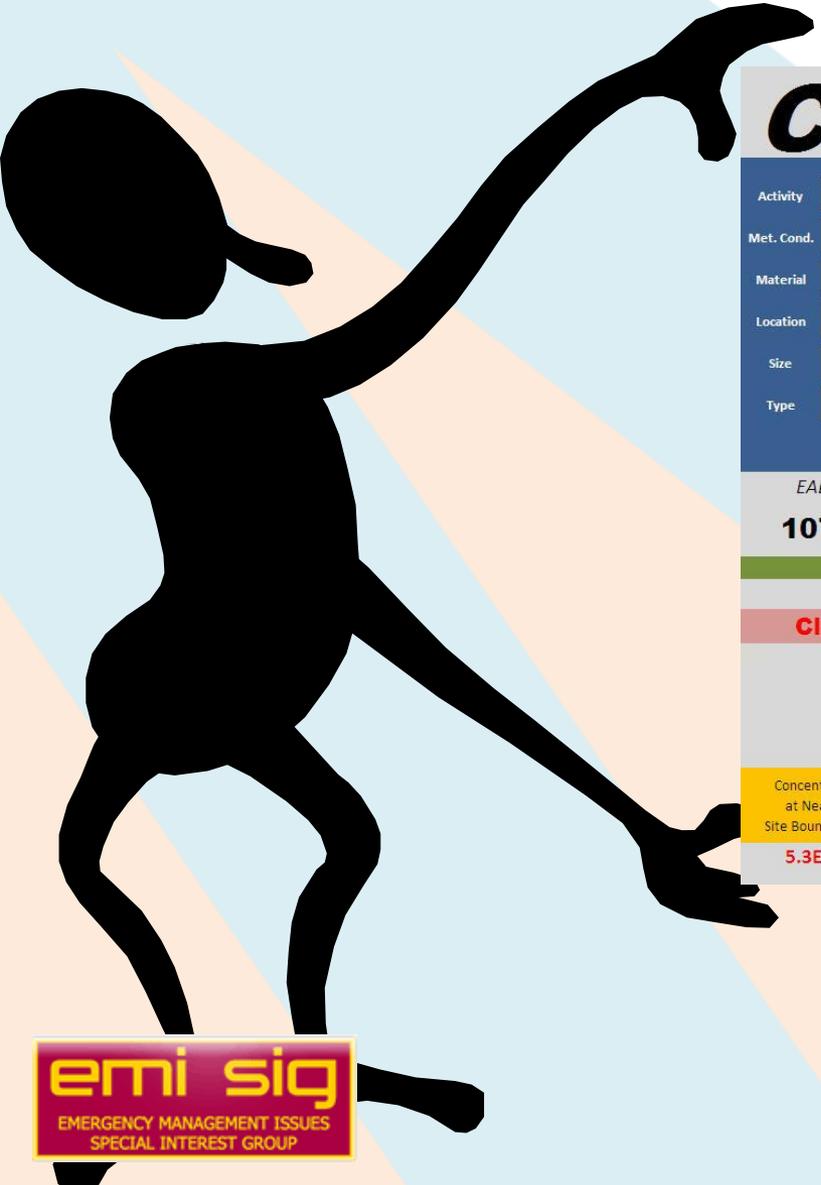
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# HARM data is used and reused in many ways.

The RIGHT Way



**Chem. Speedy EAL's Rad.**

Activity	NPTEC	Activity	U1a Complex
Met. Cond.	Day	Met. Cond.	Night
Material	Nitrous oxide	Material	WG PU N.O.S.
Location	NSB Cal Range	Location	Facility Boundary
Size	01 - Maximum Inventory	Released	100% U1a Complex WG Pu, n.o.s. 5000g
Type	Term Release	Type	General Explosion
Where		Where	above ground

EAL#	Guide #	EAL#	Guide #		
<b>1070</b>	<b>122</b>	<b>131</b>	<b>163</b>		
PAC	Dist. to PAC	Time to Dist.	PAC	Dist. to PAC	Time to Dist.
10000	0.035	<00:01	1	30.410	20:28
<b>Classification Level</b>			<b>Classification Level</b>		
<b>Alert</b>			<b>GE</b>		
<b>Start</b>					

Met Conditions:  
Night = F @ 1.0 m/s  
Day = D @ 4.5 m/s

Concentration at Nearest Site Boundary to:	Distance to Concentration	Arrival Time	All Times as (HH:MM) All distances in kilometers	Concentration at Nearest Site Boundary to:	Distance to Concentration	Arrival Time
5.3E-01	15.100	01:11		1.6E+02	0.100	00:04



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# The value of a better process!

The RIGHT Way



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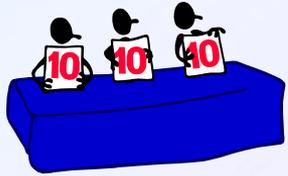
# Demo...



Hazards Assessment Risk Mitigation (HARM)



# Get out of the box...



***Come by and see  
us at the HARM  
booth!!!***

**emi sig**  
EMERGENCY MANAGEMENT ISSUES  
SPECIAL INTEREST GROUP

**Hazards Assessment Risk Mitigation (HARM)**

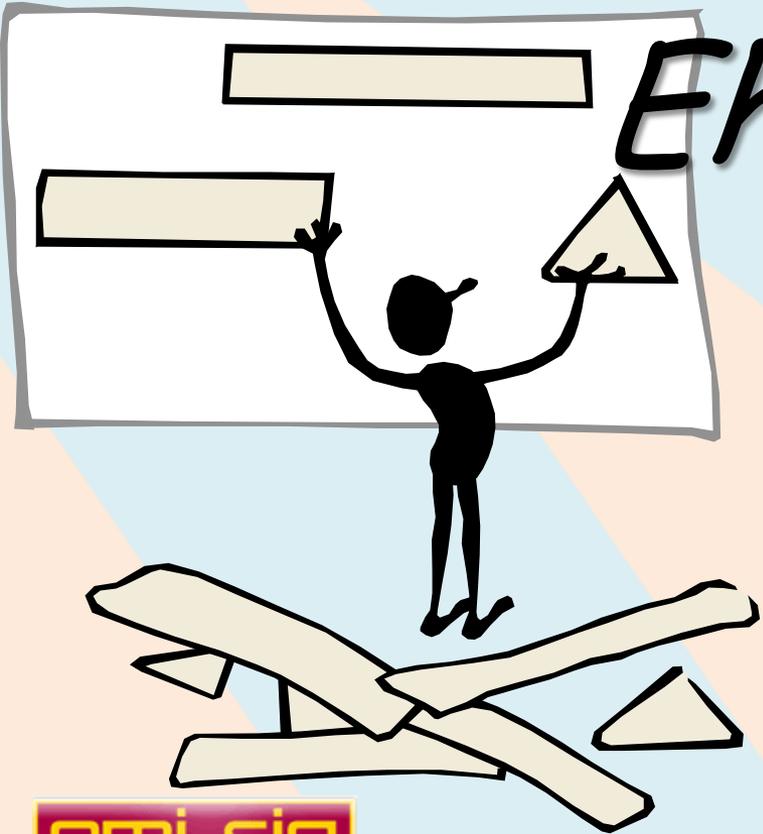


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# Questions....?

Ehh.. What's the

# HARM?



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**emi sig**

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