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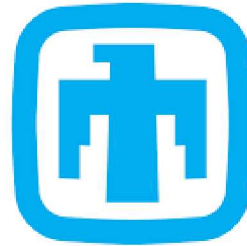
Built to Last: *Implementing Biorisk Management Systems with Sustainability in Mind*

George A. Wudiri DVM, PhD

Sandia National Laboratories, Albuquerque

NM - USA

Acknowledgements



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Global Chemical and
Biological Security

Key Messages



See the big picture!



Greener on the other side? -
what made it so?



Someone's gotta build it – *the pareto principle*



Baby steps – *Rome wasn't built in a day!*



Bigger the better – *the power of numbers!*

1a. See the big picture – *it's all interconnected!*

- This is **Maryam** – a seasoned lab scientist with 25 yrs work experience at Sulu microbiology and pathology diagnostic lab. She did not work this week and her neighborhood has been living in fear, without power and very low on food.
- This week, the entire town has been on **lockdown** due to **violent protests**. The protesters are feeling marginalized due to **lack of economic opportunities**. The town has been isolated from most economic centers for 5 years due to **deteriorated roads**.
- Over the past four years, three different road construction firms **abandoned work** due to repeated theft of equipment on site. The road was never completed .
- The **criminals** are rumored to be a mysterious trio of siblings headed by the feared leader – Z. Eleven years ago, these siblings became orphaned when their mother died from a sudden illness. **Z and his siblings** had to drop out of school to fend for themselves. Because they were inexperienced and young, they could not get meaningful jobs. Over time, they became **desperate, bitter and resorted to crime**.
- Z's mother became **sick from a cut** while cleaning house #24 on Yellow Street. Her work that day included sorting and washing a pile of laundry. The laundry that day had several laboratory clothing. While sorting them, she got minor cuts when she stepped on a pile that **enclosed inoculation pins and blades covered in some sticky fluid**. She wiped the wound and temporarily taped it then continued her work. She died five days later.
- **House #24 on Yellow Street** belongs to Maryam. Eleven years ago, she was in a hurry to complete several lab tests. She had a social function to attend. She did not pay much attention to her work habits since she had been doing this for 14 years. Everybody at work took their dirty clothes home. Maryam also became deathly ill within that same period but she recovered after a two week hospital care.



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See the big picture, its all interconnected – what you do counts!

<https://www.datacenterknowledge.com/archives/2014/09/09/ohio-town-may-offer-free-land-for-amazon-data-center>

<https://www.nytimes.com/2019/08/04/world/asia/hong-kong-protest.html>

<https://www.shutterstock.com/search/worried+black+woman>

1b. See the big picture – *beware of complacency!*



Work with infectious and biological materials presents **credible risks!**

Biological Risks = Safety + Security Risks

- **Safety risks** – *exposure of worker(s), community, animals and environment*
- **Security risks** – *access and misuse of dangerous agents to cause harm, fear and social disruption*
- Consider these two recent occurrences....

safety compliance



security compliance



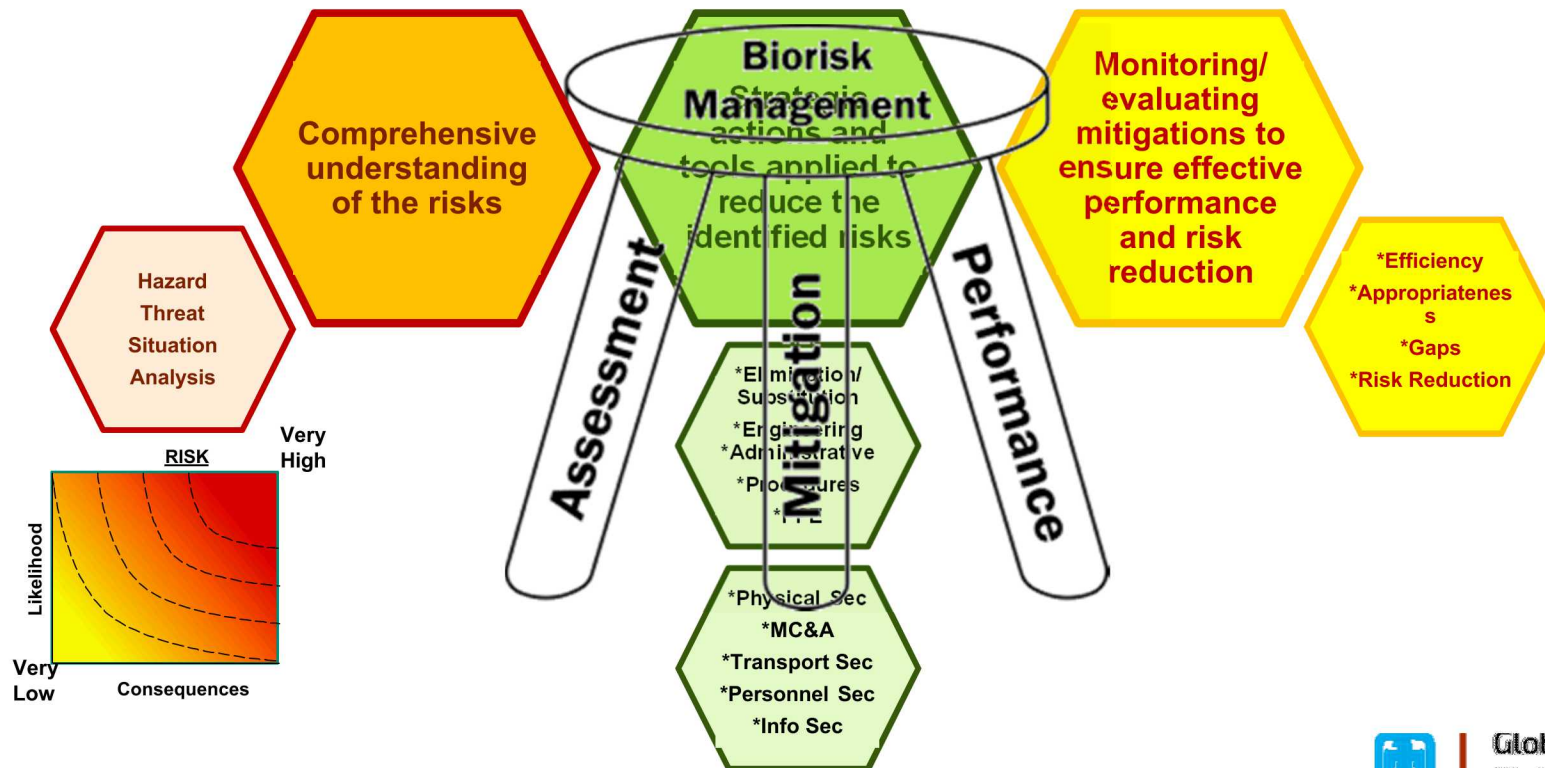
Its not a joke, beware of complacency!



1c. See the Big Picture - *Be intentional!*

A framework for managing biological risks

"Biorisk management" is the effective management of risks posed by working with infectious agents and toxins..., it includes a range of practices and procedures to ensure the biosecurity, biosafety, and biocontainment of those infectious agents and toxins.



2. Greener on the other side? *What made it so?*

Dispel the illusion!!!



Beneath the grass is the same dirt/soil...

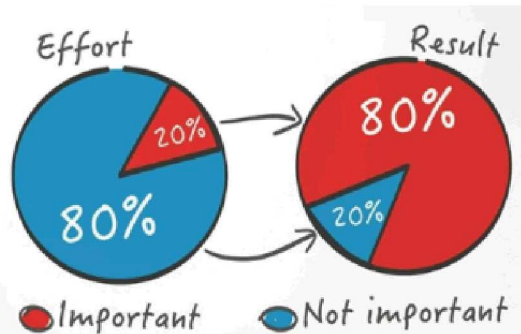


On the “other side” are many of the same problems

<https://moviebabblereviews.com/2019/03/14/film-review-the-boy-who-harnessed-the-wind-2019-video/>
<https://www.hgtv.com/design/outdoor-design/landscaping-and-hardscaping/how-to-create-a-level-lawn>
<https://www.pinterest.ca/pin/397442735842313747/?nic=1a>



3. Someone's gotta build it... *The pareto principle*



You are the in the system



Be the advocate for Biological Risk Management where you are!

Change can be uncomfortable and hard... *but...*

Don't be
afraid of being
different,
be afraid of
being the same
as everyone
else.

I am personally convinced that one person can be a change catalyst, a 'transformer' in any situation, any organization. Such an individual is yeast that can leaven an entire loaf. It requires vision, initiative, patience, respect, persistence, courage, and faith to be a transforming leader.

— Stephen Covey —

AZ QUOTES

"A genuine leader is not a searcher for consensus, but a molder of consensus."

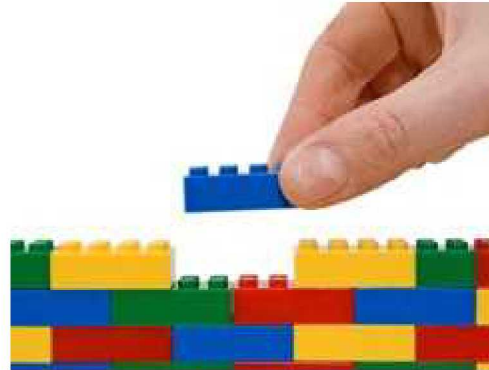
Martin Luther King, Jr.

Civil Rights Leader

Innovate – create solutions to overcome entrenched obstacles

Persist – use the power of results to drive change

4. Baby Steps... *Rome wasn't built in a day!*



- ✓ Start small, start where you are
- ✓ Identify the BRM gaps
- ✓ Come up with a goal and a plan
- ✓ Apply what you've learned
- ✓ Celebrate your little victory
- ✓ Do it again!



<https://twitter.com/stephencovey/status/952194833615085570>



5. Bigger the better! *...the power of numbers!*



- ✓ Biological risk management is **about creating a system** not a one-man show
- ✓ Its about **translating** the AMP model into an **institutional framework**
- ✓ Leverage the **power of networking** – **build a community!**

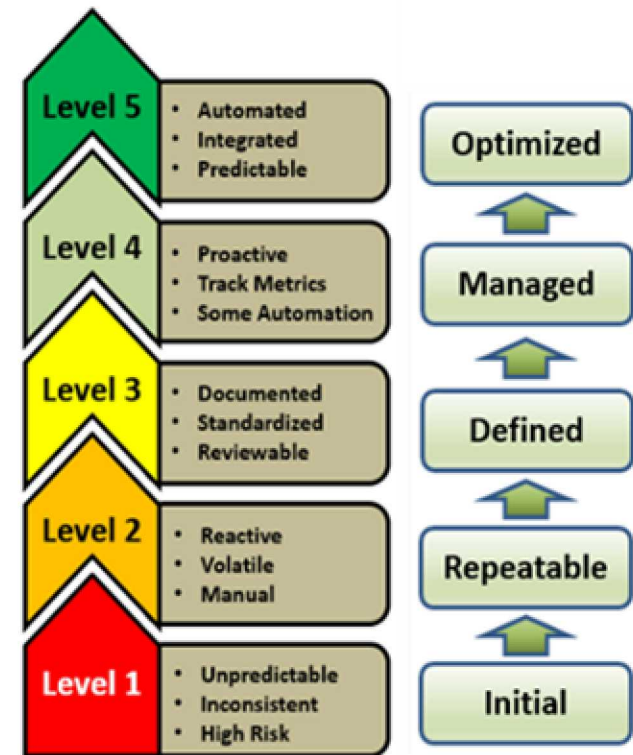


Bigger the better! ... *setting it up to last!*

The **people capability maturity model** is a maturity framework that focuses on continuously improving the management and development of the human assets of an organization.

It describes an evolutionary **improvement path** from ad hoc, inconsistently performed practices, to a mature, disciplined, and continuously improving development ... of the workforce that **enhances strategic business performance**.

It helps organizations **characterize the maturity of their workforce practices**, establish a program of continuous workforce development, set priorities for improvement actions



➤ **Be strategic – raise others, build sustainably! Create a forest not just a giant tree!**

Institutionalizing Biorisk Management: creating a system for National Development

1. See the big picture!

- a) *Its all interconnected*
- b) *Biorisks are credible – beware of complacency*
- c) *Health precedes wealth*

2. Greener on the other side? - what made it so?

Dispel the myth – beneath the grass is the same dirt

3. Someone's gotta build it!

- a) *You are the system - be a BRM advocate*
- b) *Change can be hard...be the catalyst*

4. Baby steps – Rome wasn't built in a day!

- a) *Start small, start where you are*
- b) *Make a plan, apply what you've learned*
- c) *Celebrate small victories, do it again!*

5. Bigger the better – the power of numbers!

- a) *Create a system, not a one-man show*
- b) *Set it up to last – build sustainable capacity*



Daalu! Nagode! E se!

Thanks for listening!

gwudiri@sandia.gov

