Role of technology in facilitating the reconfiguration of safety & security practices in manufacturing supply chains in a post-covid world.
What does it take to ensure that we have a manufacturing supply chain that is:

• Resilient
• Reliable
• Responsive

and assures Safety & Security
Capacity

Controls

Competency
Capacity

Money

Manpower

Material

Machine

Methods

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Controls

Hazards

Consequence

PROBABILITY

SEVERITY

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Competency

The Frontline where work happens…
The Stress on Capacity, Controls & Competency due to Covid-19
The Stress on Capacity

Foreign investment is drying up thanks to COVID-19. But there may be a silver lining
The Stress on Capacity

Money
Manpower
Material
Machine
Methods
The Stress on Capacity

Less globalisation, more automation: the economic crisis induced by pandemic is likely to encourage a surge of labour-replacing technology. That will be disruptive, unequal and challenging for workers.

Workers in developing countries are already jittery with worries ranging from "rebound" outbreaks and lay-offs to the onset of cabin fever. As if workers don’t have enough on their minds, the covid-19 pandemic is resurfacing another concern: the one about technology’s impact on the future of work. Specifically, recent research suggests that the deepening recession is likely to bring a surge of labour-replacing automation.

Money
Manpower
Material
Machine
Methods
The Stress on Capacity

De-Globalization and Supply Chain realignment
Realignment of “Capacity” could compromise the ability of the system to deliver on the desired Safety & Security.
The Stress on Controls

India chemical leak at LG plant kills 11, sickens about 1,000
The synthetic chemical styrene leaked from the LG Polymers plant in a city on India's eastern coast while workers were preparing to restart the facility after a coronavirus lockdown.

The rise of 'presenteeism' in the workplace
By Emma Simpson
Business correspondent, BBC News
14 April 2019
The stress on Controls

New Hazards

Supply chains may be realigned for agility and to spread the risks.

But have we also identified unforeseen hazards and spread the controls?
The stress on Competency

How competent are the team members to operate under the new-normal?
The new normal: How may we use existing technologies to manage the three C’s?

Capacity  Controls  Competency
Case Study: Capacity

Aron Global is a supply chain manager operating through a network of own offices across the world.

Problem Statement: How to rapidly realign networks to meet changing demand pattern?

Continuously gather, organize and disseminate over 20+ years of tacit knowledge.

Monitor and identify specific weak areas where knowledge assimilation may not be adequate.
Case Study: Controls

KB Associates Pte Ltd a premier provider for HSE audit and management, from onshore to offshore industry.

Problem Statement: How to ensure the existence of and compliance to controls and monitoring of high-risk Activities?

Under Development

Mobile platform to track and monitor the compliance to identified risk control measures

Algorithms to identify zones of high risk activity which need additional monitoring / intervention

Under Development
Case Study: Competency

IMCA – the International Marine Contractors Association – aims to improve performance in the marine contracting industry worldwide.

Problem Statement: How to ensure that commercial diving supervisors world-over are made aware of and tested on their understanding of updated requirements?

Curated and gamified content from news flashes to ensure that supervisors can understand and implement the new requirements.

A platform to rapidly communicate changes to ensure that contracting operations are performed in a safe and secure manner.
During times of crisis “Standard Operating Procedures” alone may not suffice.

We need “Dynamic Operating Procedures” to complement SOP’s.

Existing digital and cloud technologies can easily support this.
Resilience, Reliable & Responsive is not by accident!

“Safety” is not the absence of incidents or accidents. It is the presence of the 3 C’s.
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