



COOL 4.0 – OPERATIONS, SUSTAINABILITY, INNOVATION AND TECHNOLOGY IV

Cool Logistics Global 2022

Port of Barcelona

Resilience. Sustainability. Connectivity. Innovation

Resilience.

Sustainability.

Connectivity.

Innovation.



COOL 4.0 – OPERATIONS, SUSTAINABILITY, INNOVATION AND TECHNOLOGY IV

Development of Enterprise Resource Planning (ERP) Systems (software)

Digital and soft copy

Situational awareness

Agility & Cognitive Readiness builds resilience

Embracing and integrating new 4IR Technology



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Development of Enterprise Resource Planning (ERP) Systems (software)

Do you develop your own?

Do you buy off-the-shelf software?



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Development of Enterprise Resource Planning (ERP) Systems (software)

Digital and soft copy

So many people tell you they have gone digital.

What they really mean is they transact with .pdf documents, not hardcopies sent by courier.



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And with time and training and experience, you can extend the range of that radar



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Become better at preventing incidents than in fixing incidents.



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This only comes with training, re-training and experience

beginning with a willingness to change, adapt, adopt

Tactical, not strategic.- a workaround – Yes or no?



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1IR- back end of the 19th century

The biggest changes came in the form of mechanization.

Using water & steam power to mechanise production as the backbone of the economy.

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2IR back end of the 19th century

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4IR beginning of the 21st century

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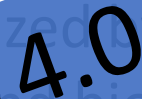
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A blue square tilted at an angle, containing the white text '4.0'.

Data is recorded, DIGITALLY/electronically where possible, every step of the way

Track and trace



