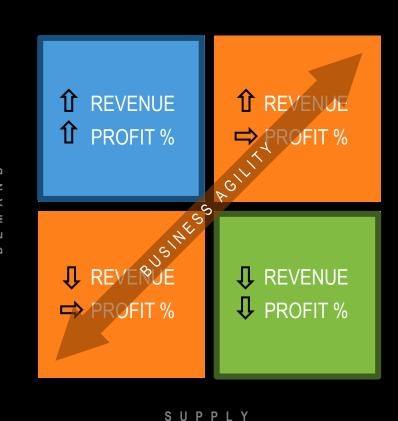
EFFECTIVELY REPRESENTING CYBERSECURITY TO BOARDS AND SENIOR EXECUTIVE TEAMS

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AHEM....THE REAL WORLD

- Is cyber-physical, not digital
- It is made up of producers, manufacturers, suppliers, sellers and buyers
- Is complex and driven by forces you will likely not understand
- You are a messenger who has to bridge the cyber-physical world to the world of business
- "Digital transformation" is mostly a marketing term that has limited impact in the real world



UNPACKING RISK

- More is less
- The most critical thing to your business is????
- Use a "business", not an "Cyber/ICT" lens, think SHE
- Don't forget people, paper & pens. Or audit. Or Policy....
- Understand the Risk, the likelihood and the Impact before you design the policy, controls, monitoring & review
 - Balancing routine and predictable against improbable and unpredictable response depends on probability, also likelihood, vulnerability and costs
 - System of systems. FMEA & FMECA are lessons from the real world
 - Sector, Supply chain need to be factored in as well
- Be a [proper] gatekeeper Al anyone?

....RISK IS PERCEIVED

There are 100,000 dots on this slide. Imagine each represented a person aged 25-34

If they were all unvaccinated we'd expect 2 per week to be hospitalized with COVID-19



If they were all vaccinated we'd expect less than 1 per week to be hospitalized with COVID-19



....A FRAMEWORK EXAMPLE

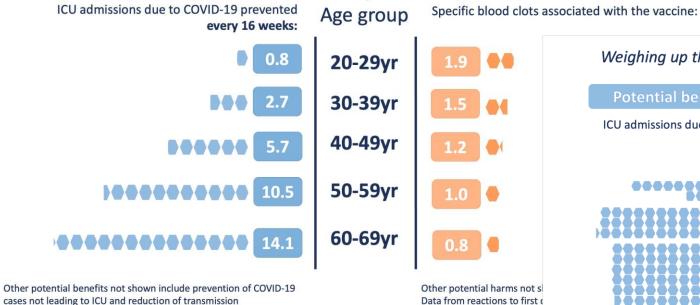
Weighing up the potential benefits and harms of the Astra-Zeneca COVID-19 vaccine

Potential benefits

For 100,000 people with low exposure risk*

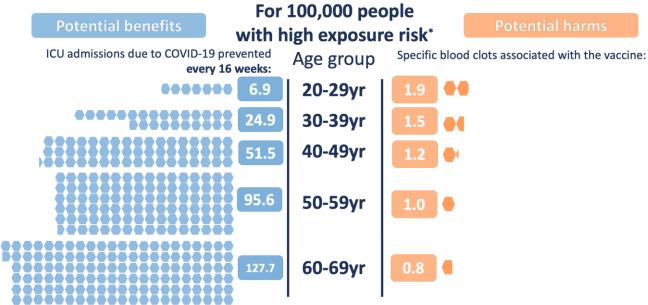
Potential harms

Data fr



Based on coronavirus incidence of 2 per 10,000 per day (140 per 100,000 per week): roughly UK in March 2021 #

Weighing up the potential benefits and harms of the Astra-Zeneca COVID-19 vaccine



Other potential benefits not shown include prevention of COVID-19 cases not leading to ICU and reduction of transmission

Other potential harms not shown include short-term side effects Data from reactions to first dose only

Data from UK up until 28th April 2021

Based on coronavirus incidence of 20 per 10,000 per day (1391 per 100,000 per week): roughly UK at peak

PRESENTING RISK

- First principles: The Business is a meta collection of processes using technology to manage data, in order to make money
- Use a Framework for communicating the Risk, the likelihood and the Impact
 - A "point in time" that allows tracking
 - Underpins all activities and your improvement plane
 - Lets risk drive policy, controls, monitoring & review
- Don't forget People
- Qualify impact/severity
 - Value at Risk is not always the only measure
 - Don't forget the cost of remediation/impairment
 - Don't assume: check, benchmark, & extrapolate

Risk Framework & Controls

The ri	risk could occur at least once in the next 3 years. Unlikely (6-15%) expected to occur more than once in 10 years. Rare (0-5%) occur only in exceptional circumstances less than once per 10 years.	Low Target Low	Low Low Minor	Medium C	Very to s Target Rat Medium Major	Very High ing Very High High
The ri	3 years. Unlikely (6-15%) expected to occur more than once in 10 years. Rare (0-5%) occur only in exceptional circumstances	Low	Low	Medium <	Target Rat	ing Very High
The ri	3 years. Unlikely (6-15%) expected to occur more than once in 10	Low	Low		s	
		Low	r	High	1	Very High
The r	Possible (16-40%)		C		n t	
	Likely (41-70%) risk will probably occur once within the next 12 months.	Medium	Inherent Ratir	Very High	Very I	ting Extreme
т	The risk is expected to occur in most roumstances and at least 3 times in 12 months.	Medium	High	Very High	Extreme	Extreme

KNOW YOUR AUDIENCE

- Uncommon ground: Boards don't understand Cyber*, you're not there to "Just take care of it"
- Common ground: your audience understands risk & controls and their impact on trust & reputation in the SHE & financial worlds (e.g. HSE)
- The Board is about investments and strategy, but also have a critical role in incidents (communications; customers, suppliers, employees, regulatory etc)
- Feel comfortable to talk about incidents they give context and inform
- Be ready to be tested. Expect to be. Confidence, reasonableness
- Bottom line: gain trust, gain a champion

MAKE YOUR PITCH

- Translate cyber into business terms: value, cost, risk & reputation
- Present the Cyber Framework as the context for your plan
- Start small BCP? And you DO have an improvement plan don't you?
- Assessment is a Good Thing (e.g. NIST-based review) but caveat emptor
- Bring regulatory & compliance into the picture (NZPA 2019, GDPA)
- Where is your IR Plan? How do you know it will work? How is the Board involved?
- Understand and articulate trade-offs, priorities and what you can live without
- Jargon
- Bottom line: what is it?

SUCCESS IS...

- Your business will be better protected because of your pitch
- Dialogue is established
- Agreement on the things you want
- You feel comfortable that your business can respond to an incident (BCP anyone?)
- You can sleep easier
- Trust
- You get asked back