

Defeating Digital Viruses

Victoria Baines, IT Livery Company Professor of IT



STAY HOME



**PROTECT
THE NHS**



SAVE LIVES



HM Government



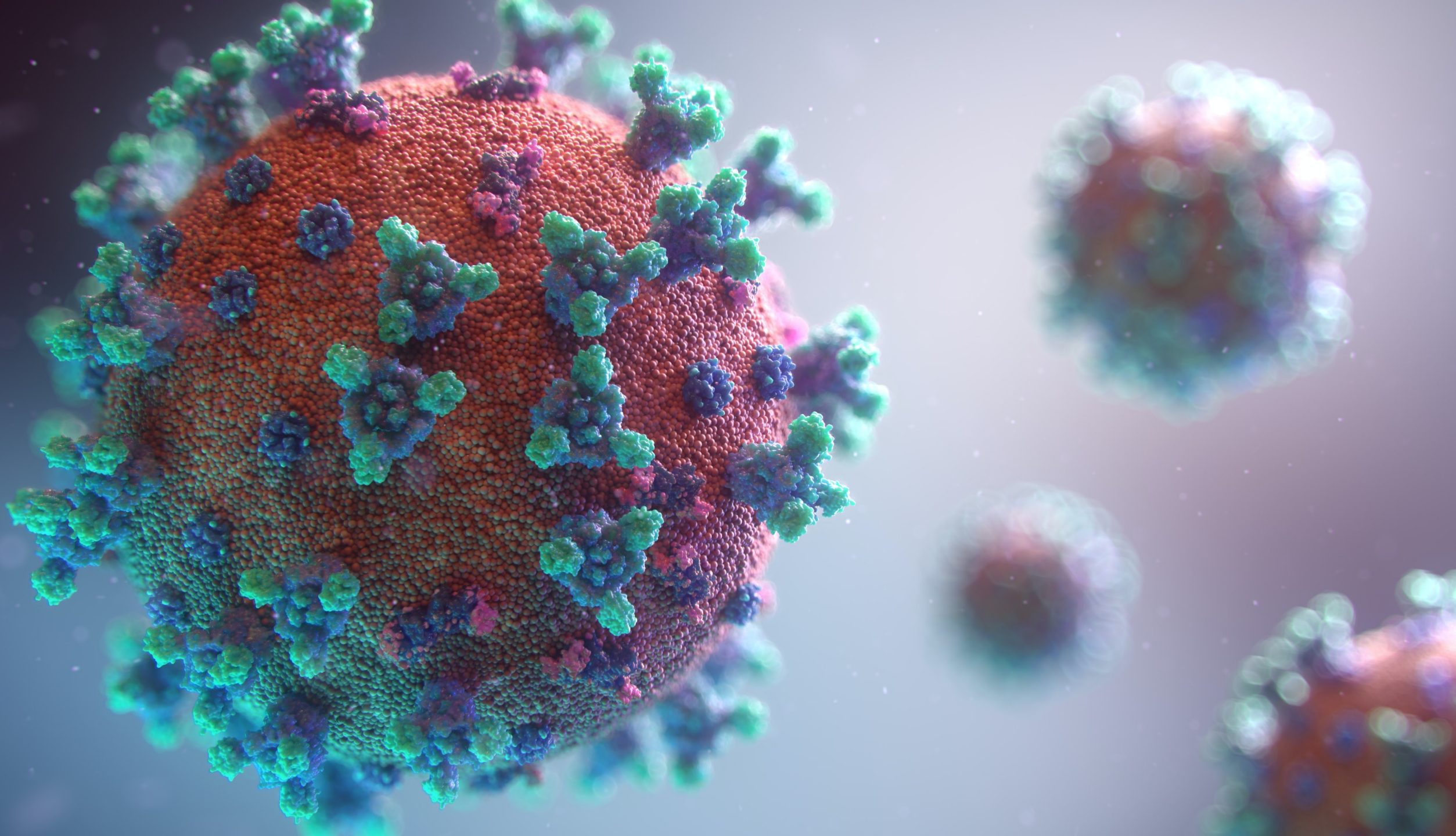
HANDS



FACE



SPACE







Discover 10 tips for Cybercrime ...
xorlogics.com



12 Cybercrime Prevention Tips to Keep ...
digitalcare.org



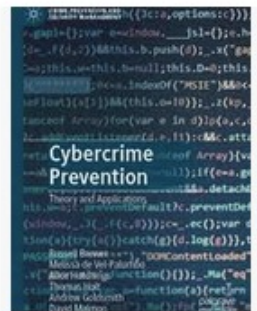
5 Cybercrime Prevention Tips | Omni ...
omnimilitaryloans.com



7 Cybercrime Prevention Tips for Modern ...
advantageservices.net



Cybercrime Prevention: 9 Effective Ways ...
shredit.com



Cybercrime Prevention ...
palgrave.com · In stock



Cybercrime Prevention Tips for Your ...
focusdatasolutions.com



7 Cybercrime Prevention Tips | Landy ...
landy.com



Cybercrime Prevention Tips - NASA ...
blog.nasaafcu.com



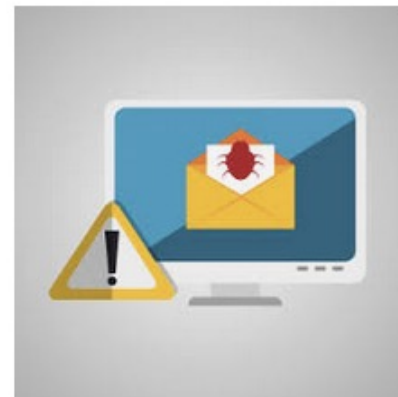
CYBERCRIME PREVENTION ...
sentekglobal.com



Cybercrime Prevention: ...
amazon.com



Cybercrime Prevention Ti...
pnp.gov.ph



Quick Guide to Cybercrime Preventi...
prefereditgroup.com



Causes of CyberCrime and Preventive ...
krazytech.com



Cybercrime Prevention Tactics by ...
paymentsjournal.com



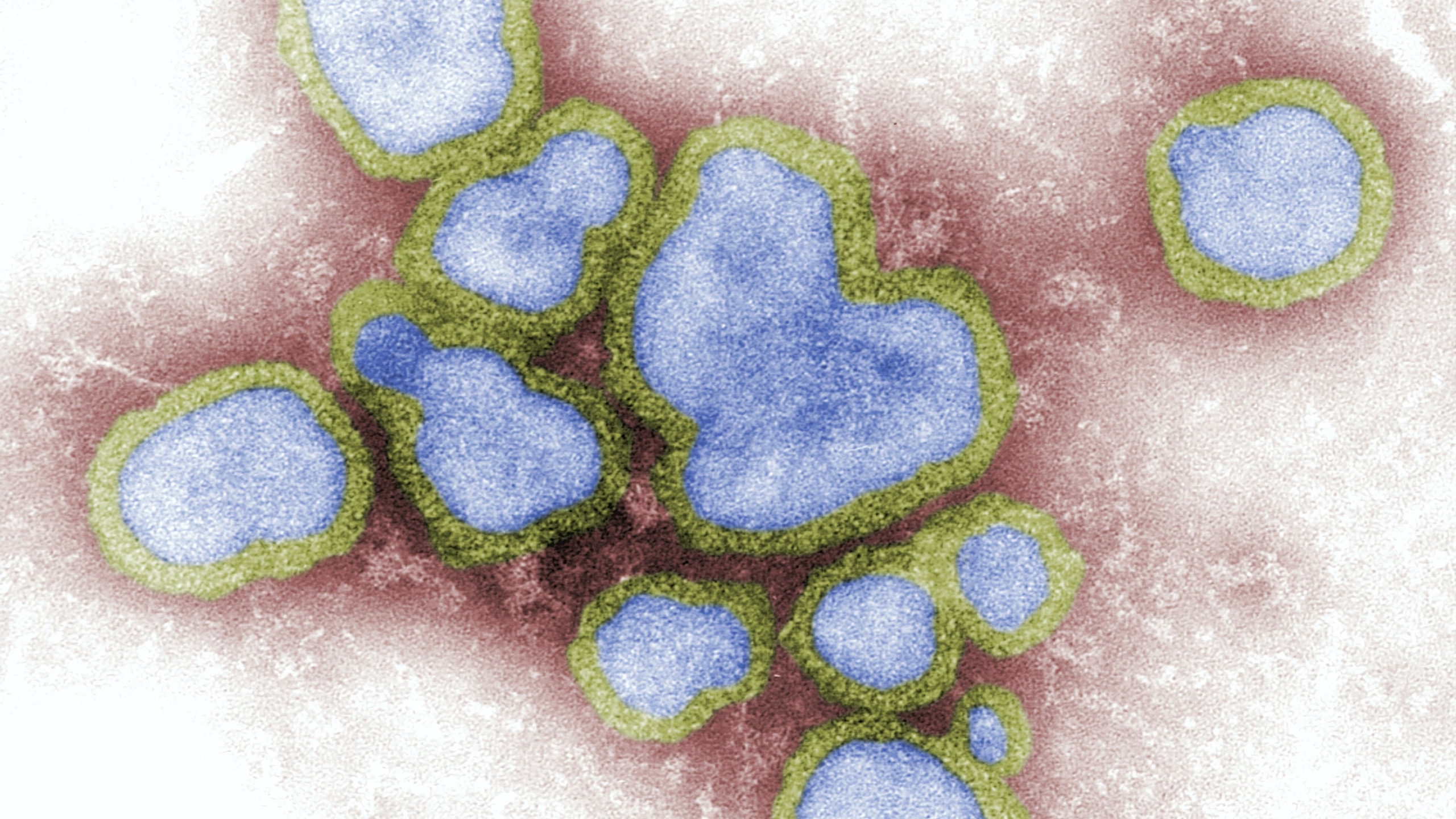
Cybercrime Prevention Tips That Wil...
scanguardreview.com













EAT
SLEEP
NEON
REPEAT

cybersecurity n. /'sʌɪbəsɪˌkjʊərəti/
security relating to computer systems or the internet, *esp.* that intended to protect against viruses or fraud.

Cyberspace



Cybernetics

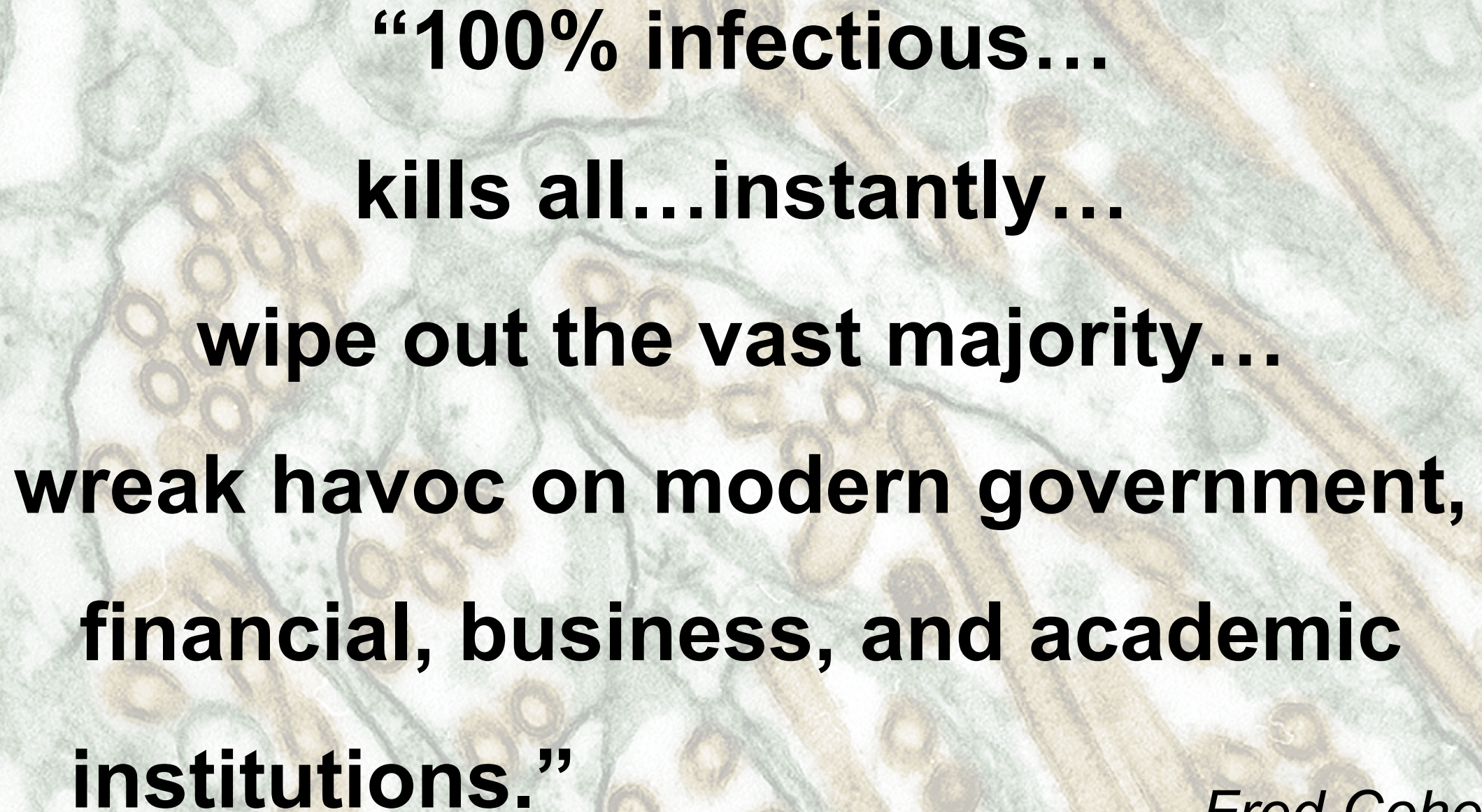


kubernētēs



“...a program that can ‘infect’ other programs by modifying them to include a possibly evolved copy of itself...Every program that gets infected may also act as a virus and thus the infection grows.”

Fred Cohen



**“100% infectious...
kills all...instantly...
wipe out the vast majority...
wreak havoc on modern government,
financial, business, and academic
institutions.”**

Fred Cohen





Preparing for the Next Global Crisis - A **Cyber Pandemic**

People and organizations have suffered greatly from the **coronavirus pandemic**. Many critical lessons are being learned, but none more important that another devastating crisis could be brewing. A **catastrophic cyber event** has long been envisioned, and with today's digitally connected world, a **global cyber pandemic** is now a reality.

LEARN MORE

 Need Help
Coronavirus

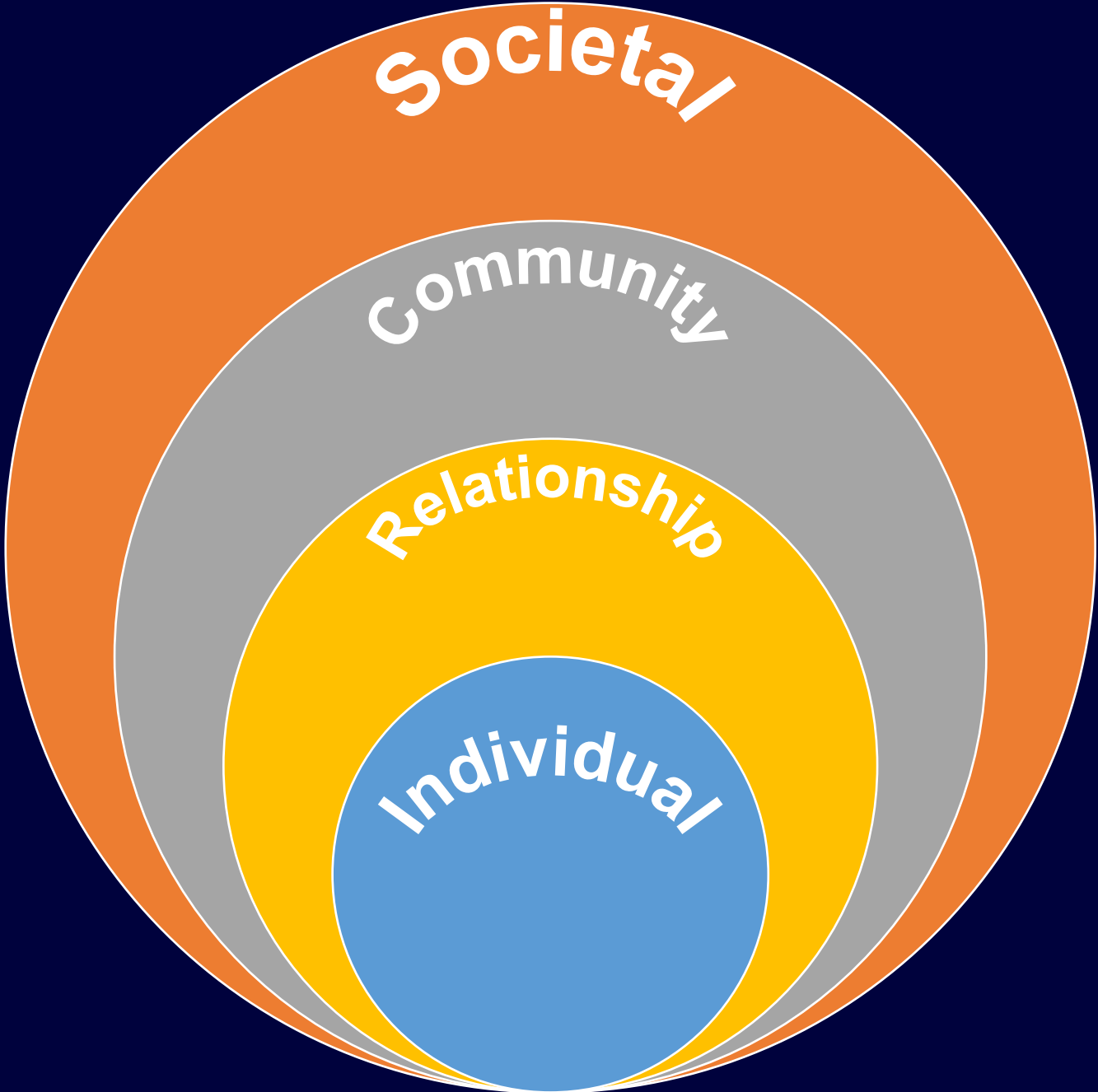
 Under
Attack?

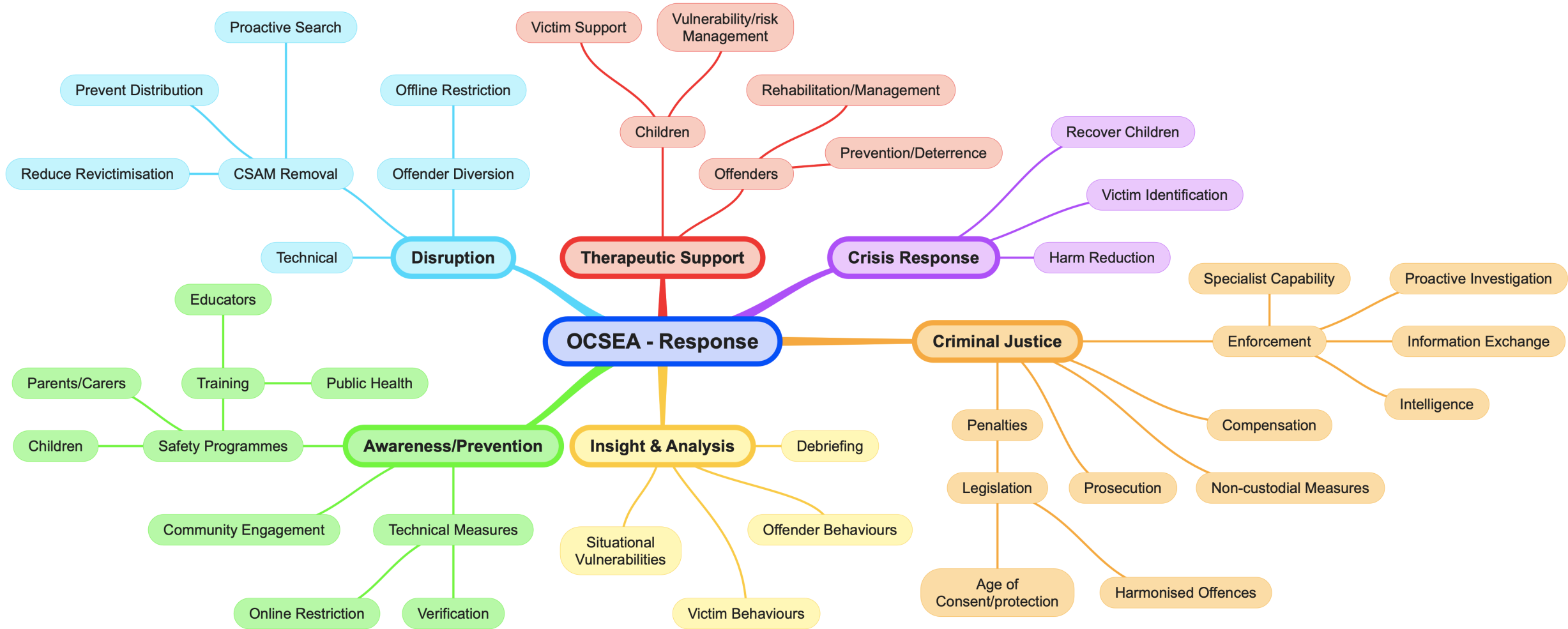
 Chat

 Contact





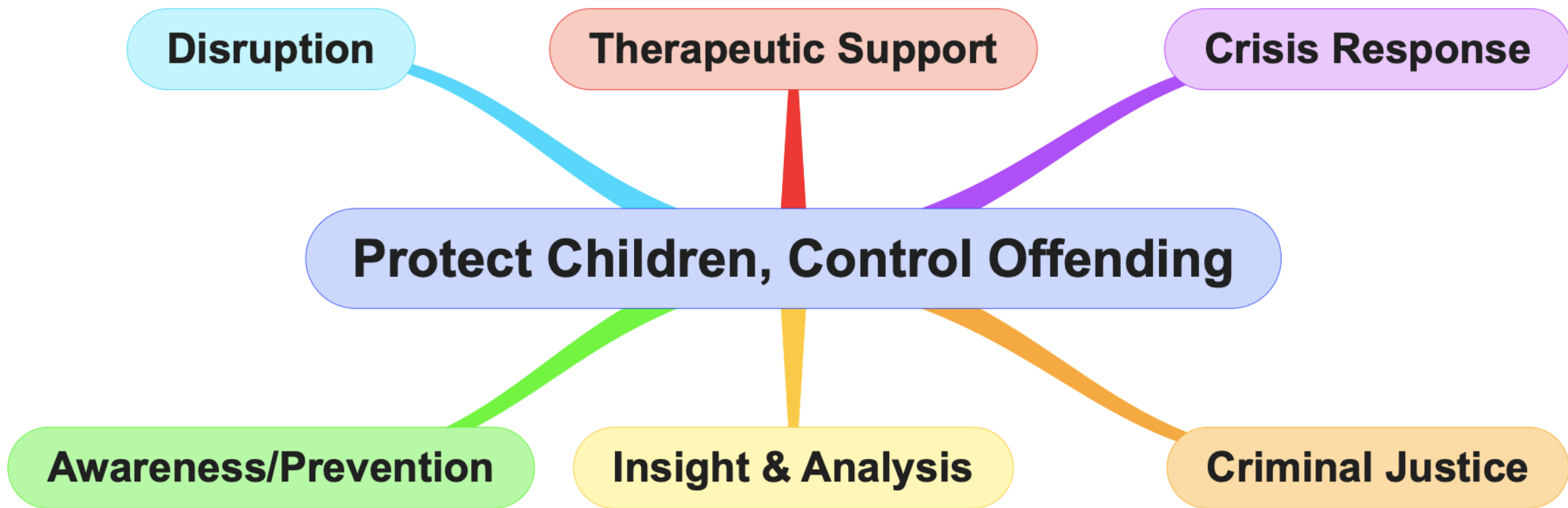


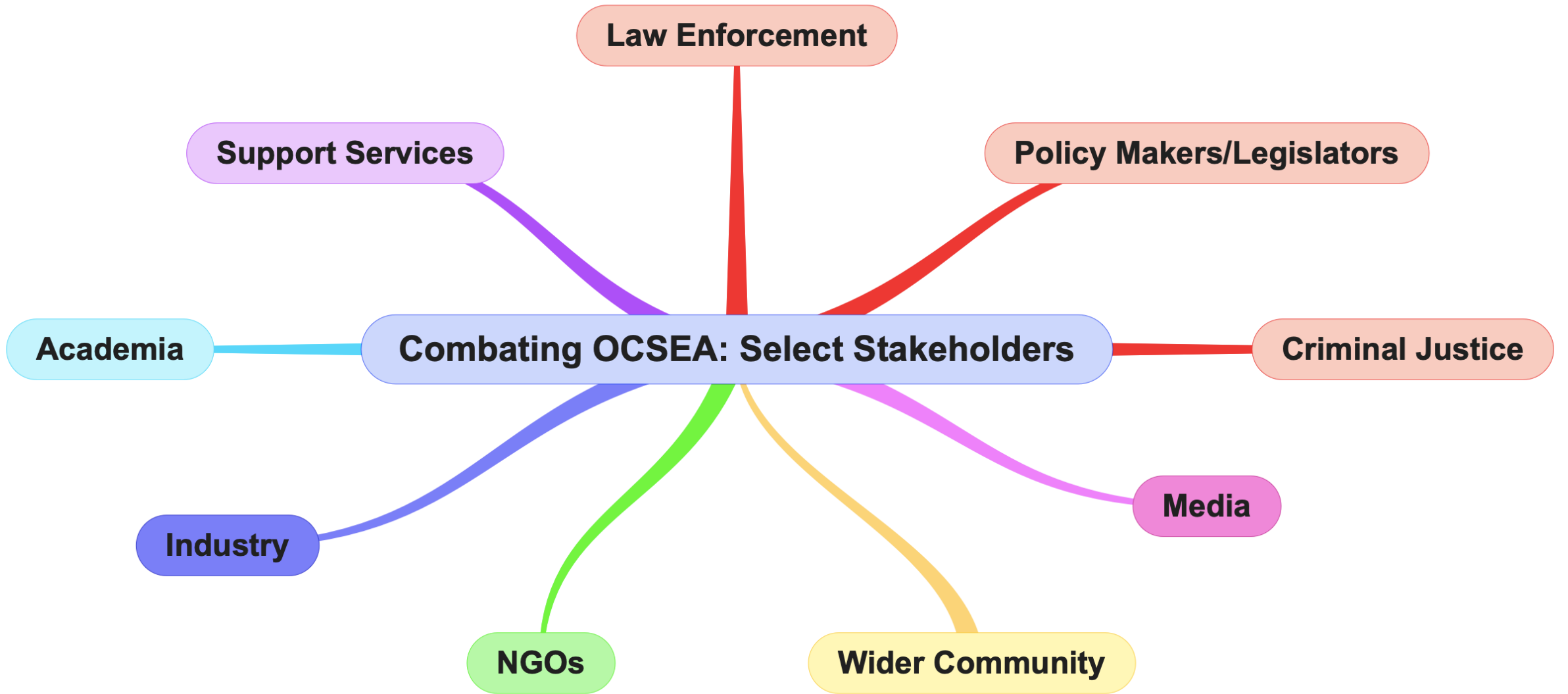


Baines (2018). *Online Child Sexual Exploitation: Towards an Optimal International Response*.

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3240998





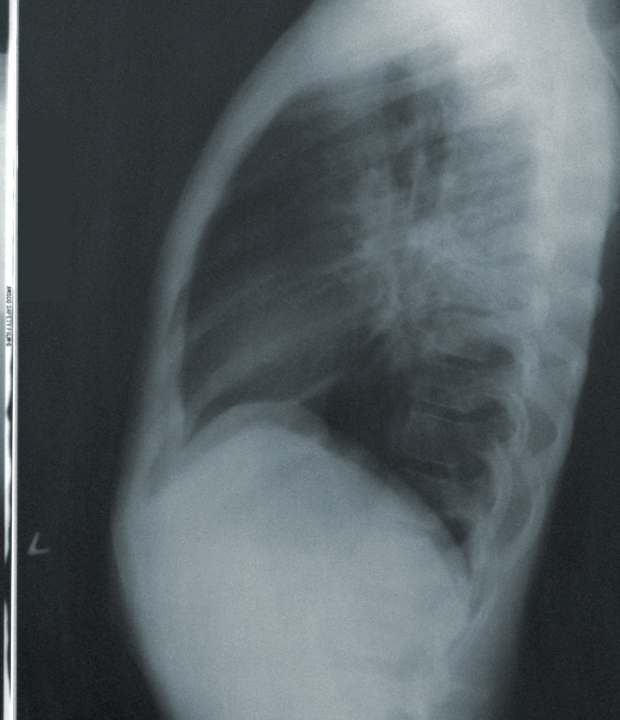
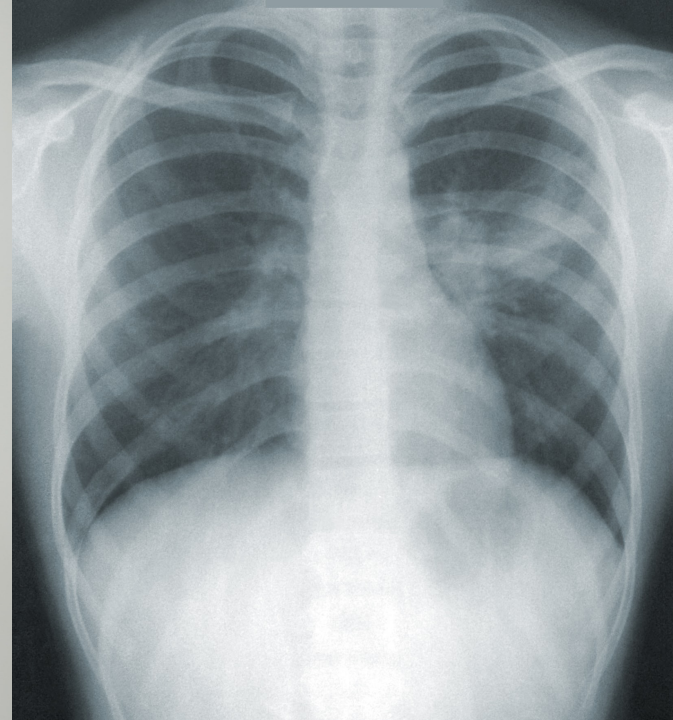


STOP IT NOW! HELPLINE

Our child sexual abuse prevention campaign and confidential helpline for any adult concerned about sexual abuse.

VISIT WEBSITE





Category

Public Health

Cybersecurity

Communicable
diseases

COVID-19,
hepatitis,
HIV/AIDS,
tuberculosis

Botnets, social
media hacks,
influence
operations

Non-
communicable
diseases

Cancer, heart
disease, chronic
respiratory
diseases,
diabetes

Ransomware,
denial of service
(DOS), phishing

Category

Public Health

Cybersecurity

Risk
behaviours

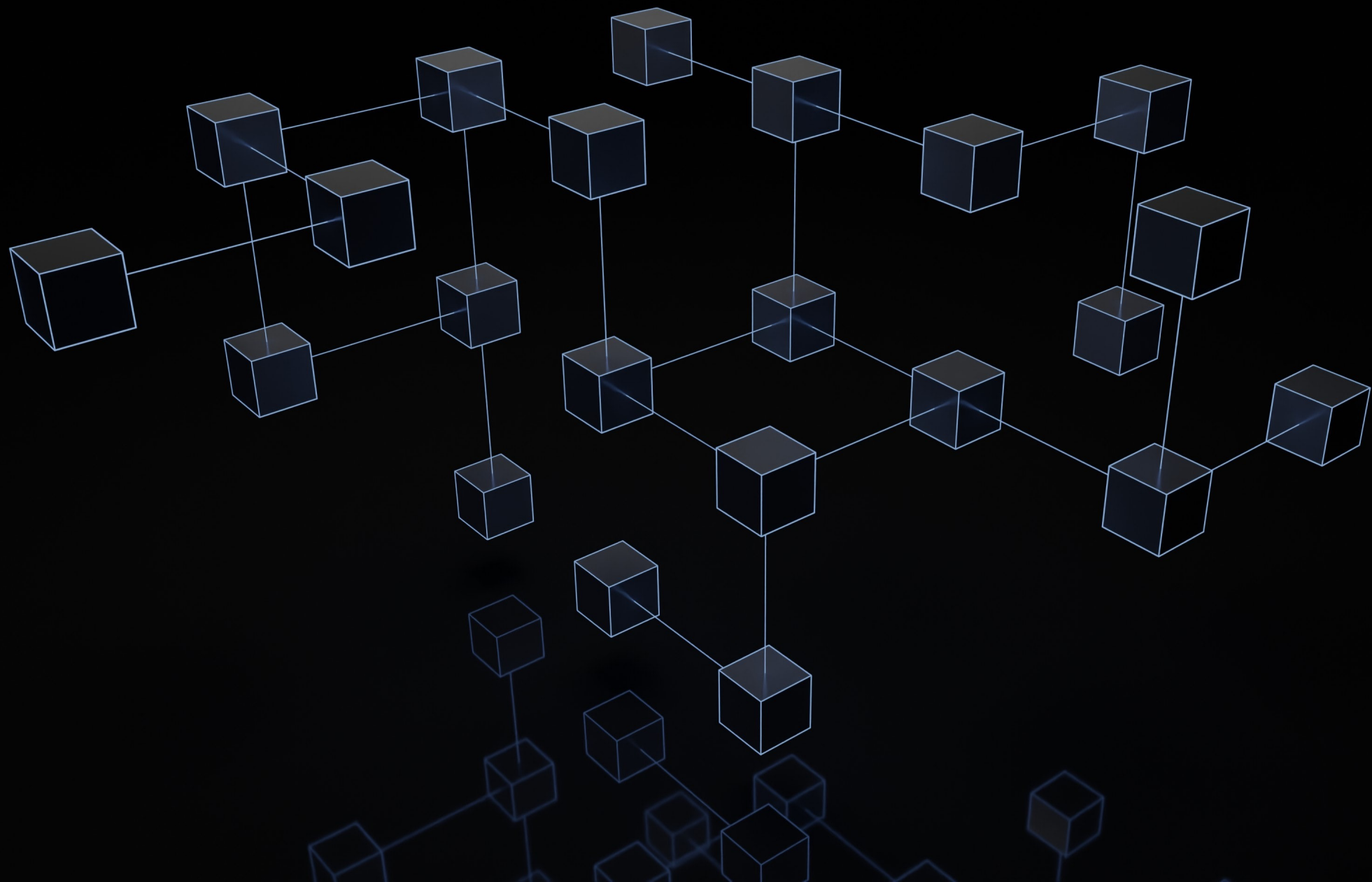
Alcohol and drug
use, smoking, poor
nutrition, lack of
exercise

Sharing
passwords, not
having antivirus,
clicking links

Environmental
exposures

Hazardous
chemicals,
pathogens, poor
sanitation, air
quality

Unsecured WiFi,
shared devices,
fake news,
personal data
transfer



You Click
On
Malware

```
graph LR; A[You Click On Malware] --> B[Your Computer Infected]; B --> C[Attacks Other Computers];
```

The diagram consists of three rounded rectangular boxes arranged horizontally from left to right. The first box is light gray and contains the text 'You Click On Malware'. A gray arrow points from this box to the second box, which is a golden-brown color and contains the text 'Your Computer Infected'. A dark orange arrow points from the second box to the third box, which is a darker orange color and contains the text 'Attacks Other Computers'.

Your
Computer
Infected

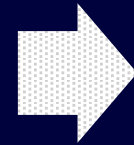
Attacks
Other
Computers



You Click
On
Malware



Your
Computer
Infected



Attacks
Other
Computers

You Click
On
Malware

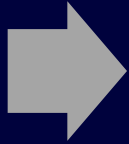
```
graph LR; A[You Click On Malware] --> B[Your Computer Infected]; B --> C[Attacks Other Computers];
```

The diagram consists of three rounded rectangular boxes arranged horizontally from left to right. The first box is dark gray and contains the text 'You Click On Malware'. A thick yellow vertical bar is positioned to the right of this box, with a small white arrow pointing from the bar into the second box. The second box is light gray and contains the text 'Your Computer Infected'. A white arrow points from the second box to the third box. The third box is light gray and contains the text 'Attacks Other Computers'.

Your
Computer
Infected

Attacks
Other
Computers

You Click
On
Malware



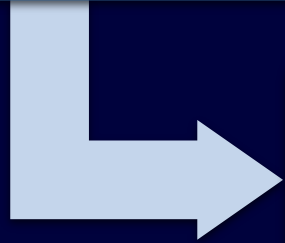
Your
Computer
Infected



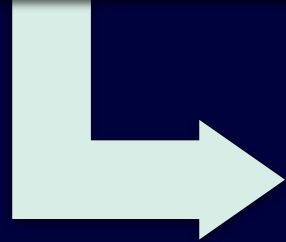
Attacks
Other
Computers



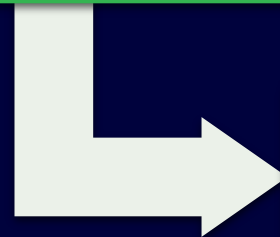
Define the Problem



Risk & Protective Factors

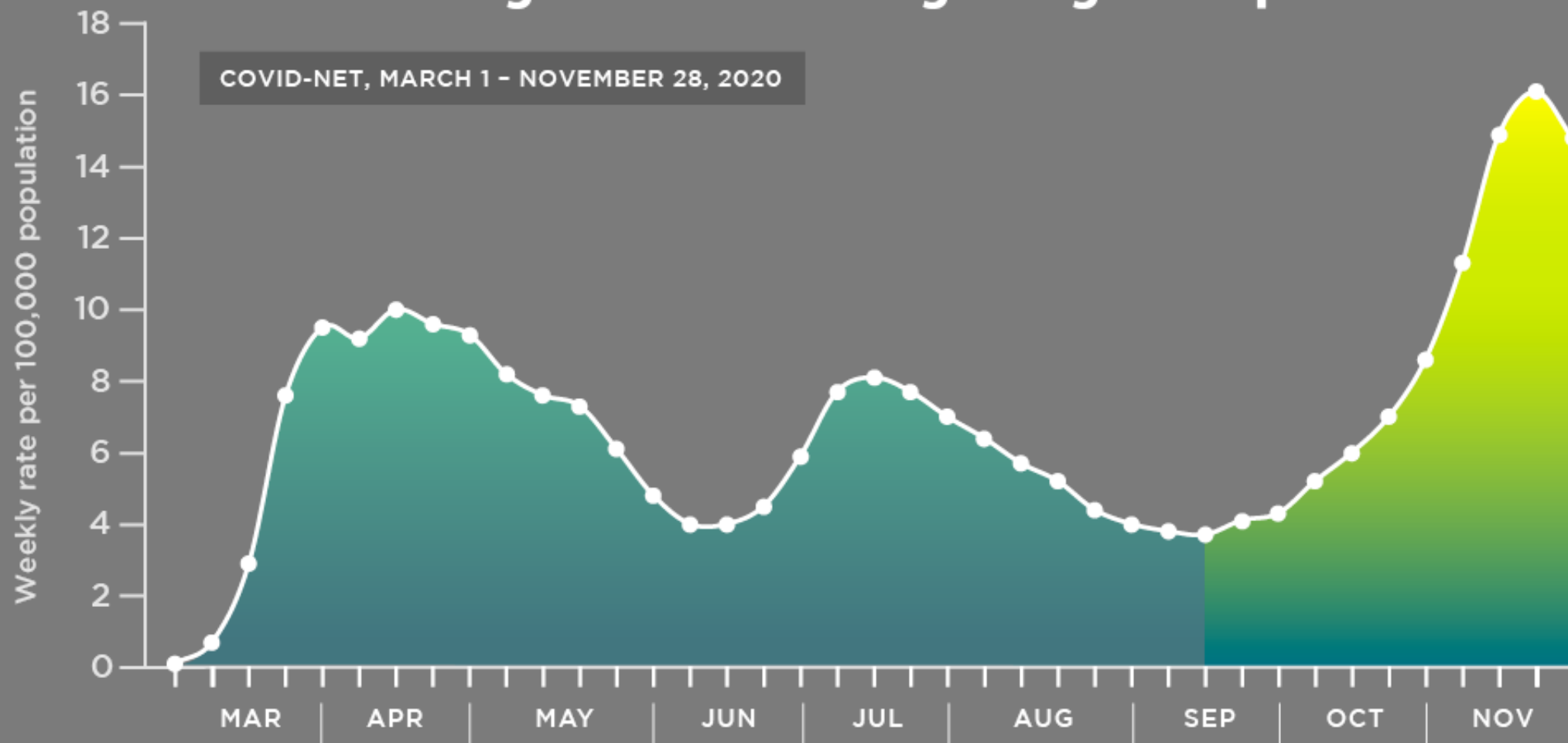


Prevention Strategies



Widespread Adoption

Weekly COVID-19-associated hospitalization rates are at their highest since the beginning of the pandemic.









PUBLIC HEALTH

Hertfordshire County Council
What is Public Health? | Hertfordshire ...



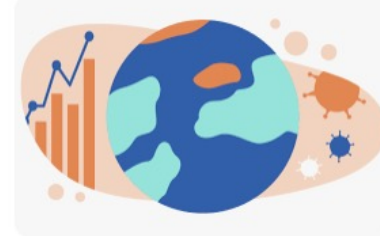
North West Population Health and Prevention N...
Public Health Roles - North West ...



Commonwealth Fund
A Strong Public Health System Depends ...



Middlesex University
Public Health BSc | Middlesex ...



The BMJ
Epidemiology Doctor ...



The Lancet
A public health manifesto - The Lancet

RSPH
ROYAL SOCIETY FOR PUBLIC HEALTH
VISION, VOICE AND PRACTICE

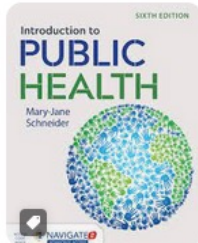
Twitter
Royal Society for Public Heal...



FutureLearn
Three domains of public health



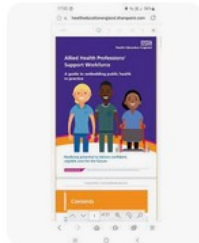
The Open University
Introducing public health: 1 What is ...



Amazon UK - In stock
Public Health : Schneid...



University of Bristol
Global Public Health | Elizabeth ...



Twitter
Royal Society for Publi...



London Datastore - Greater London Authority
Public Health England - London Datastore



Bath & North East Somerset Council
About Public Health | Bathnes



Wikipedia
Public Health England - Wikipedia



University of West London
BSc (Hons) Public Health | University ...



Ask Dr Cath
Public health and population health



Encyclopedia Britannica
Public health | Definition, History ...



Data4Life
We digitalize Public Health



Yorkshire and Humber Public Health...
Public Health Careers



Our Lady of the Most H...
Public Health England - 8 ...

WHAT IS PUBLIC HEALTH?



“The public health grant will be £1bn a year lower than initial allocations in 2015/16 at a time when a growing number of working-age people are reporting ill health as a reason for being unable to work.”
David Finch | Assistant Director
The Health Foundation
4 days ago health.org.uk/news



Related searches
community public health
public health images



Coughs and sneezes spread diseases

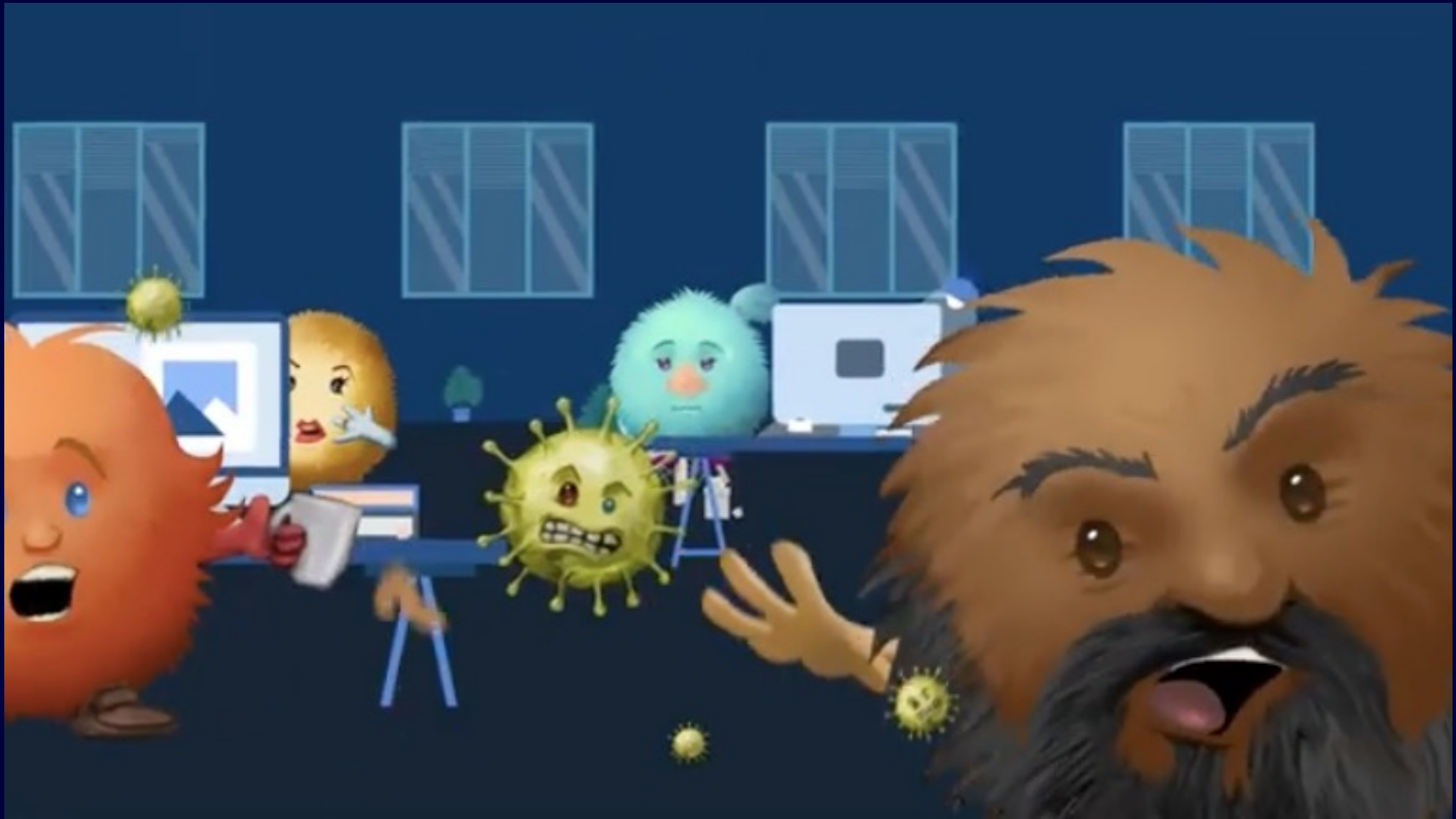


Trap the germs by using
your handkerchief

Coughs and sneezes spread diseases



Trap the germs by using
your handkerchief



Source: WHO Regional Office for Europe

Y₄ E₁ S₁

W₄ E₁

C₃ A₁ N₁









⚠ WARNING!
This is an inflatable device. DO NOT LEAVE
CHILDREN UNATTENDED WHILE IN USE. ALWAYS
USE WITH CARE AND UNDER SUPERVISOR'S GUIDANCE.
KEEP CHILDREN FROM PLAYING WITH IT IN DIRECT
SUNLIGHT OR EXCESSIVE HEAT TO PREVENT IT FROM
OVERHEATING.
MADE IN CHINA



DON'T PANIC

www.Gresham.ac.uk
@GreshamCollege



EST. 1597

GRESHAM
COLLEGE

**FOR THE LOVE OF LEARNING
SINCE 1597**



GRESHAM

COLLEGE