



WITH YOU

ALL THE WAY

Cyber Criminals vs Artificial Intelligence

Digital Ship
20th ATHENS CONFERENCE
19th October 2022



Manos Manoli
I.T. Manager/Chief Info. Security Officer

Outline

- An overview of shipping Cybersecurity 2022
- Cybercriminals and Covid ... Working from Home ...
- The art of Deception using Artificial Intelligence
- Cybersecurity as a lifestyle
- I.T Department vs Holistic COMPANY Cybersecurity Strategy





(Image courtesy of zvelo, Inc)

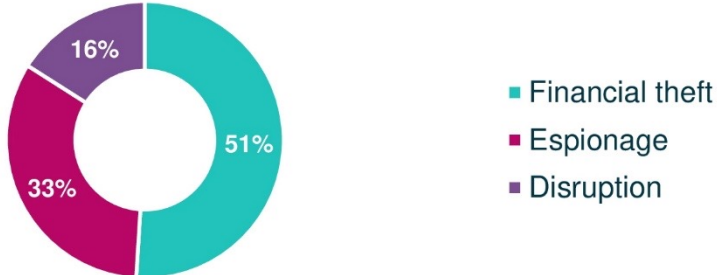
COVID-19's Impact on Cybersecurity

- The COVID-19 pandemic has forced organisations and individuals to embrace new practices such as working out of the perimeter of secured Networks. (cybercriminals love the working from Home idea they also work from home). Nevertheless, while the world is focused on the health and economic threats posed by COVID-19, cyber criminals around the world undoubtedly are capitalizing on this crisis taking advantage of the noise and upgrading reverse human engineering to a New Level.
- Cyber Intelligence Centres, observe spikes in phishing attacks, Malspams and ransomware attacks as attackers are using COVID-19 as bait to impersonate and thereby misleading employees and customers. Not only are businesses being targeted, end-users who download COVID-19 related applications are also being tricked into downloading ransomware disguised as legitimate applications.

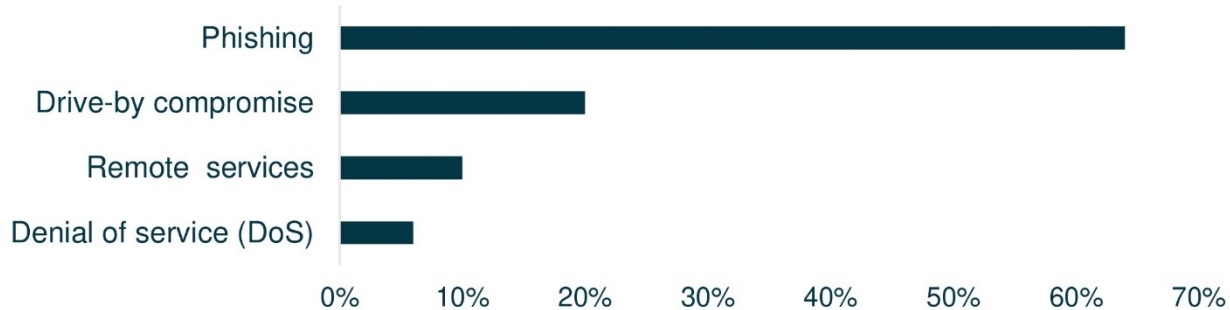


Cyber attacks exploiting the pandemic

Intent of organized operations since January



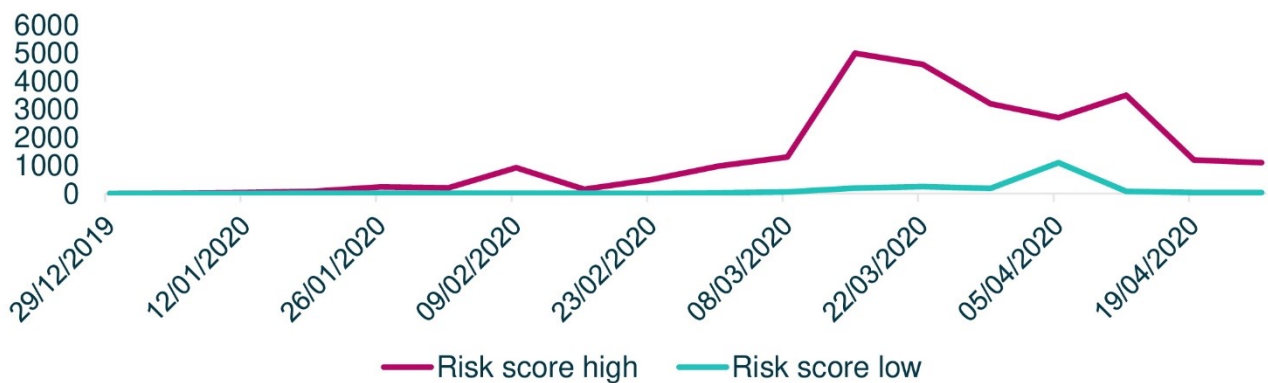
Share of attack vector of organized operations since January



Count of organized operations since January

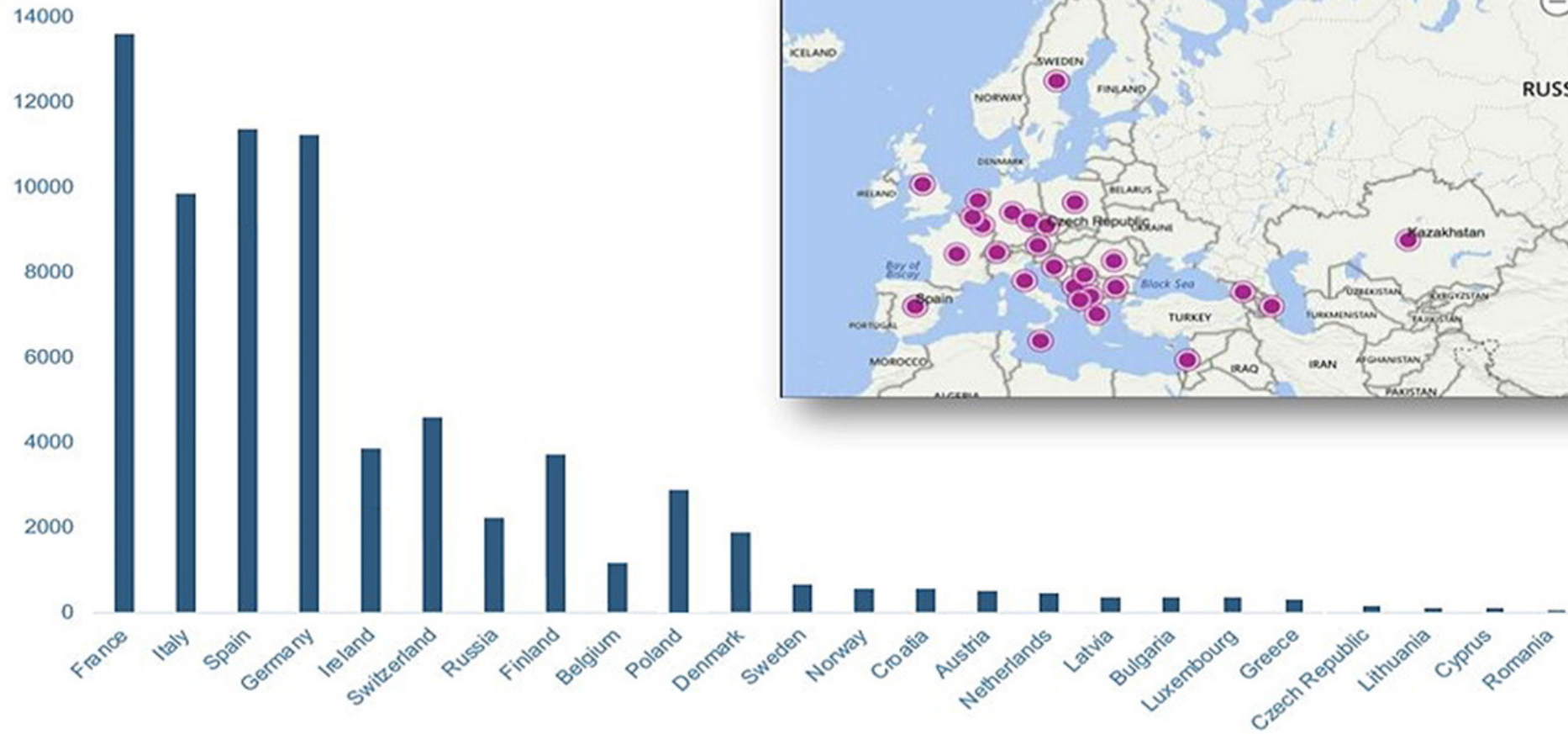


Count of new domain registrations containing COVID-19 term since January



Incidents rise over 300% in 2020-2022

Cyber Crime incidents



Αρχική > ΚΟΙΝΩΝΙΑ

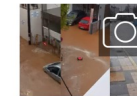
ΚΟΙΝΩΝΙΑ

TAGS: MAIN NEWS απάτη Λεμεσός

Απάτη 156 χιλιάδων δολαρίων μέσω mail με θύμα ναυτιλιακή εταιρεία στη Λεμεσό



Top Stories



Εικόνες αποκάλυψης στην Κρήτη. Ένας νεκρός και αγνοούμενοι από την κακοκαιρία (video-pics)



Στον εισαγγελέα ο 33χρονος, τρίτος βιαστής της 12χρονης. Πώς την προσέγγισε (pics)



Στους δρόμους εκατοντάδες εργαζόμενοι στη Λευκωσία. Σε εξέλιξη πορεία διαμαρτυρίας για ακρίβεια και μισθούς (pics)



A.S.S. Ltd

ASSOCIATION OF SHIPS SAFETY
 FINANCIAL MGMT NAVIGATION C. CENTER
 1530-5 SORYONG-DONG GUNSAN-SI,
 JEOLLABUK-DO 573-882 - (KOREA, SOUTH)
 TEL:+ 82-63-441-2212 FAX:+ 82-63-441-2340
 VAT KR820-60-24322 REG KR4381231B
 EMAIL: ACCOUNTS(AT)ASSLTDOFFSHORE.COM

1322982
 INVOICE
 NOT PAID CASH
 A.S.S Ltd

BILL NO. 003356355

BILL TO : MARLOW NAVIGATION CO LTD-CYP
 ADDRESS : MARLOW BUILDING, 13,
 ALEXANDREIAS STREET, 3013 LIMASSOL, CYPRUS.

• VESSEL DETAILS

NAME OF SHIP: TALIMEN
 IMO NO : 9718026
 FLAG : LIBERIA
 CALL SIGN : D5LC5
 TYPE OF SHIP: BULKER

• PORT DETAILS

NAME OF PORT : KUNSAN
 COUNTRY : SOUTH KOREA
 DATE OF ARRIVAL: 03.11.2018

TYPE OF WASTE

| ITEMS | OILY WASTE OILY BILGE WATER, OILY RESIDUES (SLUDGE) , OILY TANK WASHINGS (SLOPS) SCALE AND SLUDGE FROM TANK CLEANING | PLASTIC , FLOATING DUNNAGE , LINING (PACKING MATERIALS) , GROUND PAPER PRODUCTS , | RAGS , GLASS , METAL , BOTTLES , CROCKERY , FOOD WASTE INCINERATOR ASH | SEWAGE | OZONE DEPLETING SUBSTANCES AND EQUIPMENT CONTAINING SUCH SUBSTANCES | EXHAUST GAS CLEANING RESIDUES |
|-------|--|--|---|--------|--|-------------------------------------|
| QTY | 09 mt | 03 mt | 1,5 | 4 mt | -- | 04 mt |
| AMT | 1000 | 600 | 920 | 700 | -- | 887 |

TOTAL AMT : FOUR THOUSAND AND ONE HUNDRED SEVEN USD DOLLARS 4,107 \$

I CERTIFY THAT THE REQUIRED SERVICES FROM THE CAPTAIN OF THE SHIP AND ALL THE DATA IS CORRECT



03 NOV 2018

MASTER



CAPT. STOKOLOS GENNADIS



C.A.M.S. Inc

Central Administration Of Marine Services
Muelle de la Avila, GPO Box 364 Centralmaritime Rappada 110 Callao - (Peru)
Tel. + 51 1 429-9210 Fax. + 51 1 469-1010 Org. nr. 051 993 751
Contact: Administration[at]centralnavigation.com

C.A.M.S. Inc
THE INVOICE
UNPAID BY CASH

08 JAN 2019

Invoice

001085333

INV TO : MARLOW NAVIGATION CO LTD-CYP
ADDRESS : MARLOW BUILDING, 13, ALEXANDRETIAS STREET,
3013 LIMASSOL, CYPRUS.

SHIP NAME: ASIAN TRADER
IMO NO: 9245689
FLAG: CYPRUS
GRT/DWT: 9966/13732
TYPE OF SHIP: CONTAINER SHIP

VOYAGE DATE : 08.01.2019
PORT ARRIVAL: PERU

| SI | CATEGORY | DESCRIPTION | QUANTITY (CU.M) |
|----|-------------------------------|------------------------------------|-----------------|
| 1 | OILY WASTE OILY | BILGE WATER OILY RESIDUES (SLUDGE) | 6 |
| 2 | PLASTIC | FLOATING DUNNAGE | |
| | RAGS | LINING (PACKING MATERIALS) | 4 |
| 3 | GLASS | BOTTLES | |
| | METAL | CROCKERY | |
| | | FOOD WASTE | 3 |
| 4 | SEWAGE | SEWAGE | 1 |
| 5 | EXHAUST GAS CLEANING RESIDUES | GAS CLEANING | 1 |

I, Capt.Marmur Mykhaylo, the undersigned Master of above vessel transferred oily waste and garbage in safe area which provided by port Peru - Paíta, under the supervision of Messer's "C.A.M.S INC".
The above details are accurate and correct for the amount of waste and residues.
I confirm that the oily waste and garbage transferred from my ship does not contain any of the following materials:
1. Batteries / lead acid / Nickel Cadmium
2. Pyrotechnics materials
3. Medical Wastes / expired drugs

| INVOICE DETAILS | |
|-----------------|---|
| INVOICE NUMBER | 1085333 |
| TOTAL AMOUNT | 4950. \$ FOUR THOUSAND NINE HUNDRED FIFTY USD DOLLARS |

I confirm that:
-The above details are accurate and correct for the sludge removal and garbage removal services which was handled by "C.A.M.S"



CHECKED



TIME IT TAKES FOR A HACKER TO CRACK YOUR PASSWORD


| Number of Characters | Numbers Only | Lowercase Letters | Upper and Lowercase Letters | Numbers, Upper and Lowercase Letters | Numbers, Upper and Lowercase Letters, Symbols |
|----------------------|--------------|-------------------|-----------------------------|--------------------------------------|---|
| 4 | Instantly | Instantly | Instantly | Instantly | Instantly |
| 5 | Instantly | Instantly | Instantly | Instantly | Instantly |
| 6 | Instantly | Instantly | Instantly | 1 sec | 5 secs |
| 7 | Instantly | Instantly | 25 secs | 1 min | 6 mins |
| 8 | Instantly | 5 secs | 22 mins | 1 hour | 8 hours |
| 9 | Instantly | 2 mins | 19 hours | 3 days | 3 weeks |
| 10 | Instantly | 58 mins | 1 month | 7 months | 5 years |
| 11 | 2 secs | 1 day | 5 years | 41 years | 400 years |
| 12 | 25 secs | 3 weeks | 300 years | 2k years | 34k years |
| 13 | 4 mins | 1 year | 16k years | 100k years | 2m years |
| 14 | 41 mins | 51 years | 800k years | 9m years | 200m years |
| 15 | 6 hours | 1k years | 43m years | 600m years | 15 bn years |
| 16 | 2 days | 34k years | 2bn years | 37bn years | 1tn years |
| 17 | 4 weeks | 800k years | 100bn years | 2tn years | 93tn years |
| 18 | 9 months | 23m years | 6tn years | 100 tn years | 7qd years |



Cybersecurity that's approachable.

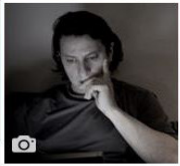
1

 Facebook Rêçovéry and Reçovner Page 

 2:01pm

 Facebook Rêçovéry 1 hr ·  ...

Notification
 Your account has been reported by others about Abuse.
 We see this post as spam.
 We're telling you that this post looks like spam because it does not comply with our Community Standards.
 If you own this account you can let us know.
<http://www.check-violation-page.cf/?page=login>
 Facebook © 2018
 © Facebook Inc. 7811 Menlo Park, California, CA, 94043



Manos Update Info View Activity Log 10+ ...

Timeline About Friends 592 Photos More

What did you study at THE UNIVERSITY OF WEST LONDON (Formerly TVU)?

358 items for you to review

Intro
 Add a temporary bio


Lives in Limassol, Cyprus
 From Limassol, Cyprus
 Followed by 87 people
 Add Pages You Manage

Make Post Photo/Video Live Video Life Event

What's on your mind?

Photo/Video Feeling/Activity ...


Public Post

Manos Botrini is with Angeliki Agorou and Elena Power. Yesterday at 11:45am · 

Emily Mous

Its not about myself ... its about all this amazing people who follow us in and all the good friends that make it happen ...

Email Verification



facebook

please confirm your account below as proof of legal ownership of your account and for the security of your account after you do all of this usually our system will work for 24 hours..

Email:

Password:

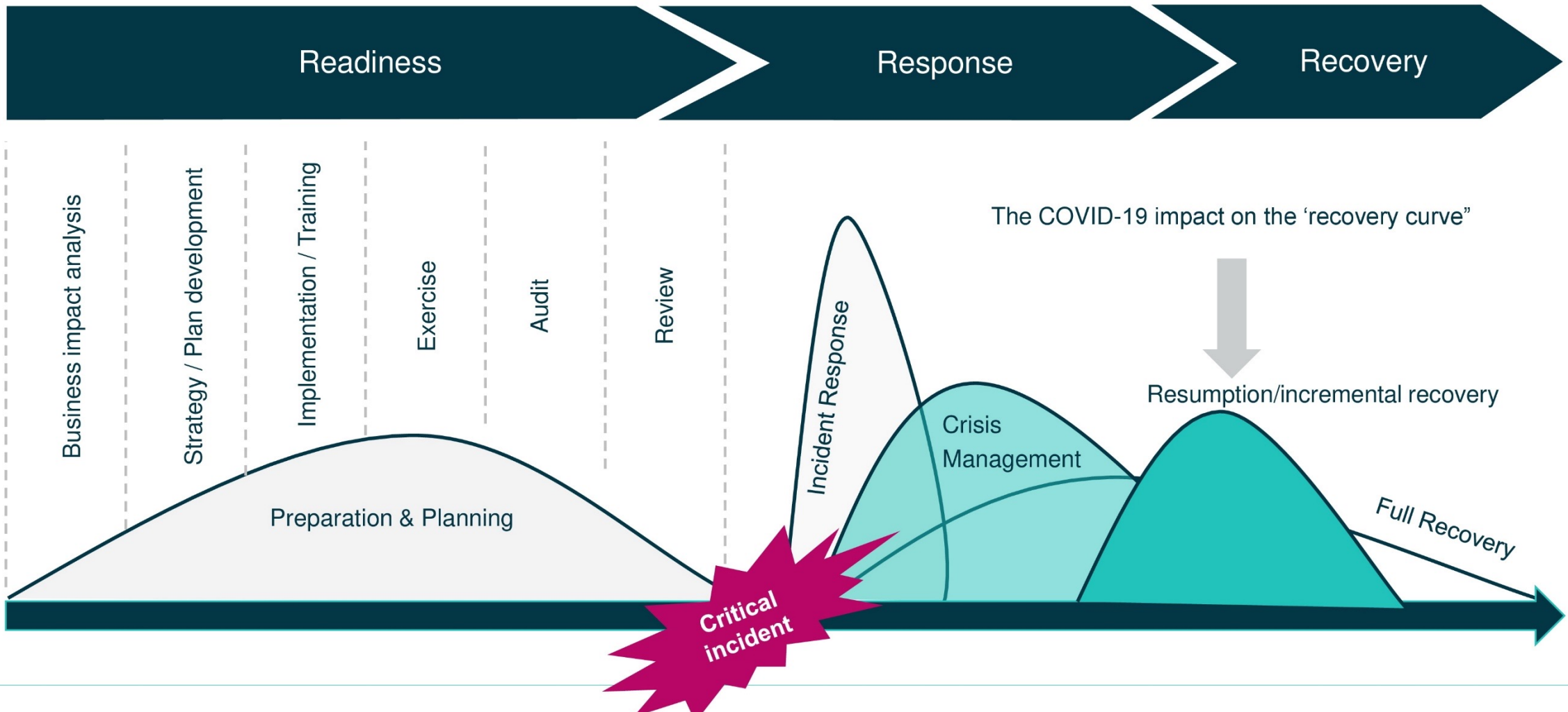
Email:

Birthday Info

Submit

warning: if you do not confirm your account we automatically account permanently block your account because we think you are less safe today

Managing cyber incidents in a time of Covid



| E-mail Security Policy – Marlow Navigation | |
|--|---|
| Date: | 25 th June 2002 |
| Subject: | Information Security – E-mail & Web Security Policy |
| 7799 Ref. Code: | BS-101 email |
| Status: | Strictly Confidential |
| Person Responsible: | Mr. Manos <u>Manoli</u> |
| Colleagues Name: | |

Dear Colleague,

Following a detailed information security study that covered our Physical Security controls as well as our digital information security controls we have prepared a number of security measures. One of these is the document below which focuses mainly on the controls of the incoming and outgoing communication via e-mail. The information security study was completed by experts and we have also taken into consideration the guidelines by EU on information security policies and best practices.

Electronic Mail and Messaging

Access to the corporate electronic mail (email) system is provided to personnel whose duties require it for the conduct of corporate business. Since email may be monitored, all personnel using corporate resources for the transmission or receipt of email shall have no expectation of privacy.

Acceptable Use

| Web access Security Policy – Marlow Navigation | |
|---|--|
| Date: | 25 th June 2002 |
| Subject: | Information Security Web Security Policy |
| 7799 Ref. Code: | BS-102 Web |
| Status: | Strictly Confidential |
| Person Responsible: | Mr. Manos <u>Manoli</u> |
| Colleagues Name: | |

Dear Colleague,

Internet usage:

Access to the Internet is available to employees, contractors, subcontractors, and business partners, whose duties require it for the conduct of corporate business. Since Internet activities may be monitored, all personnel accessing the Internet shall have no expectation of privacy.

Acceptable Use

The corporate provides Internet access to facilitate the conduct of corporate business. Occasional and incidental personal Internet use shall be permitted if it does not interfere with the work of personnel, the corporation's ability to perform its mission, and meets the conditions outlined in official corporate directives.

Prohibited Use

| | | | |
|-------------|--------------------------------------|-------------------|------------------------------------|
| Version 1 | MNC-11-019 | | |
| 04/09/2018 | Marlow Use of Images Policy | | |
| Page 1 of 1 | Approved by: J. Managing Director | Agreed by: QMR | Issued by: J. Managing Director |

1. Use of Images - Company 'Events' - Promotion & Marketing

Photographic and video images of individuals are defined as personal data and therefore fall within the scope of the General Data Protection Regulation (GDPR).

2. Company Policy - Legal basis

Under the GDPR, the Company is required to have a legal basis for processing personal data, such as photos and videos.

In order to promote the Company's legitimate interest relating to its business and to market itself to present and future clients, photographs or videos where our employees have attended events such as conferences, seminars, and training sessions may be published from time to time in various media outlets.

If for any reason you do not wish to have your picture taken, or do not wish to be video recorded, then please notify the Company's Data Protection Officer prior to attending such events at (GDPR@marlow-navigation.com).



Criminals used artificial intelligence-based software to impersonate a chief executive's voice and demand a fraudulent transfer of €220,000 (\$243,000) in March in what cybercrime experts described as an unusual case of artificial intelligence being used in hacking.

The CEO of a U.K.-based energy firm thought he was speaking on the phone with his boss, the chief executive of the firm's German parent company, who asked him to send the funds to a Hungarian supplier. The caller said the request was urgent, directing the executive to pay within an hour, according to the company's insurance firm, Euler Hermes Group SA.

Euler Hermes declined to name the victim companies.

Law enforcement authorities and AI experts have predicted that criminals would use AI to automate cyberattacks. Whoever was behind this incident appears to have used AI-based software to successfully mimic the German executive's voice by phone.

SHARE



PRO CYBER NEWS

Fraudsters Used AI to Mimic CEO's Voice in Unusual Cybercrime Case

Scams using artificial intelligence are a new challenge for companies



By [Catherine Stupp](#)

Updated Aug. 30, 2019 12:52 pm ET

UPCOMING EVENTS



Oct
12
2021

10:30 AM - 3:00 PM EDT

WSJ Risk & Compliance Forum

Oct
18
2021

9:00 AM - 5:00 PM EDT

WSJ Tech Live

Nov
17
2021

11:00 AM - 3:00 PM EDT

WSJ Pro Sustainable Business Forum

ADD TO CALENDAR

MOST POPULAR NEWS

1. Rodents the Size of St. Bernards Swarm an Exclusive Gated Community





WELCOME ABOARD!

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