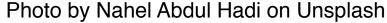


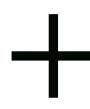
# LET'S SPREAD PHISHING AND ESCAPE THE BLOCKLISTS

Tecniche sfruttate dai criminali per protrarre una campagna di phishing









#### — WHOAMI



#### Andrea Draghetti

- + Phishing Analysis and Contrast @ D3Lab
- + Python Developer
- + Team Member @ BackBox Linux







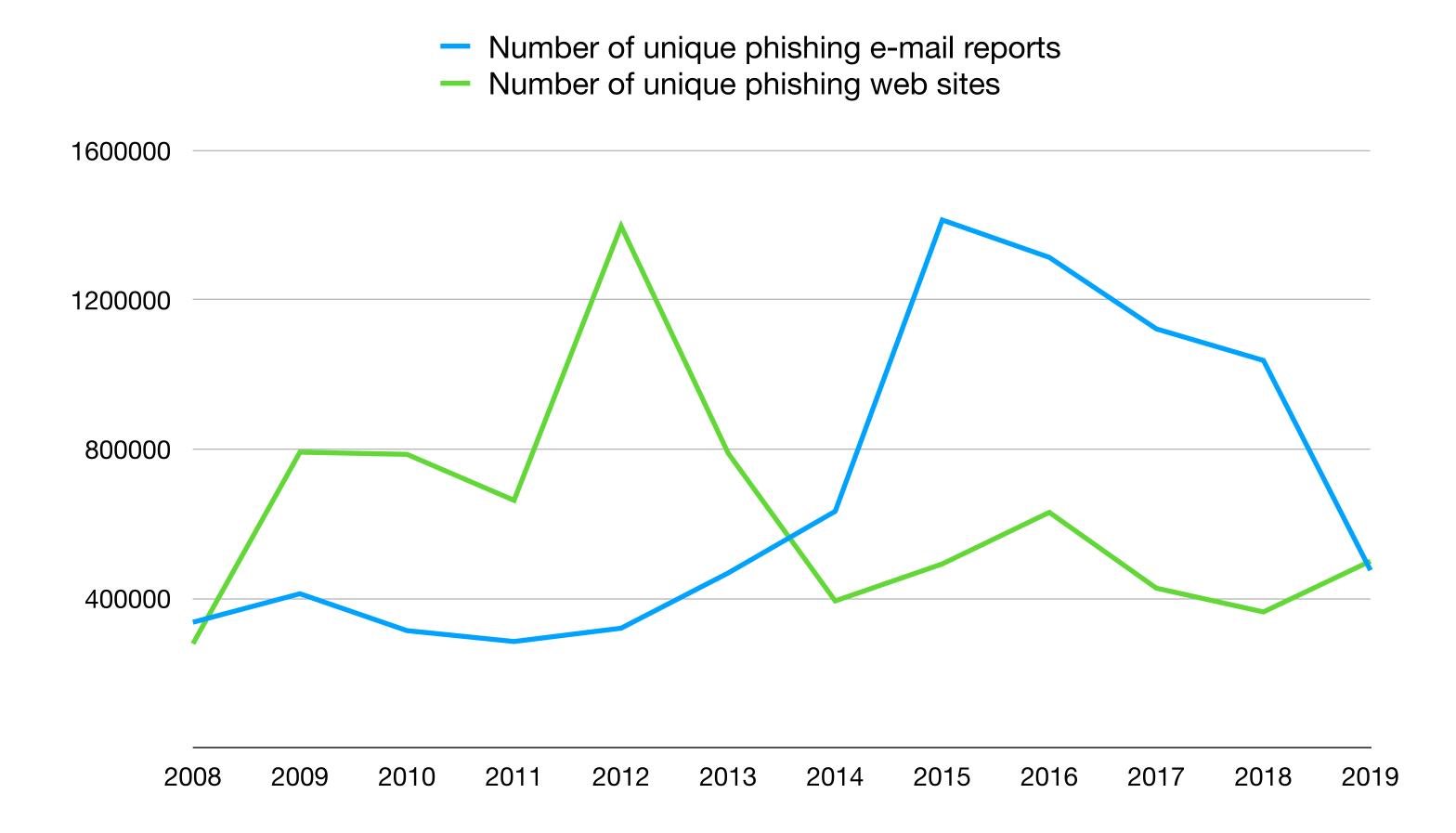
## + PHISHING

Il Phishing è un tipo di truffa effettuata su Internet attraverso la quale un malintenzionato cerca di ingannare la vittima convincendola a fornire informazioni personali, dati finanziari o codici di accesso, fingendosi un ente affidabile in una comunicazione digitale.

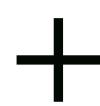
{Wikipedia}



#### + STATISTICHE

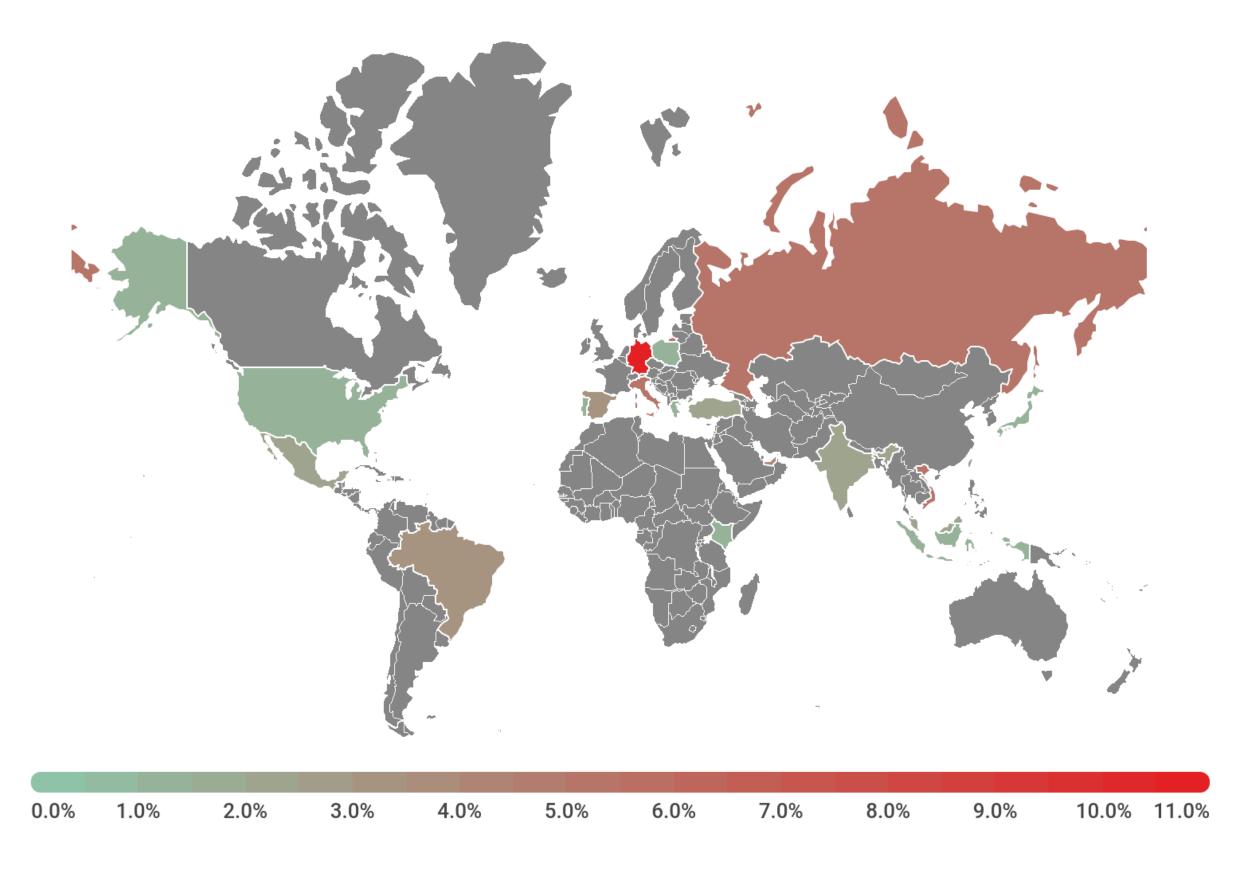


Fonte: Anti-Phishing Working Group



## + STATISTICHE

#### Countries targeted by malicious mailings

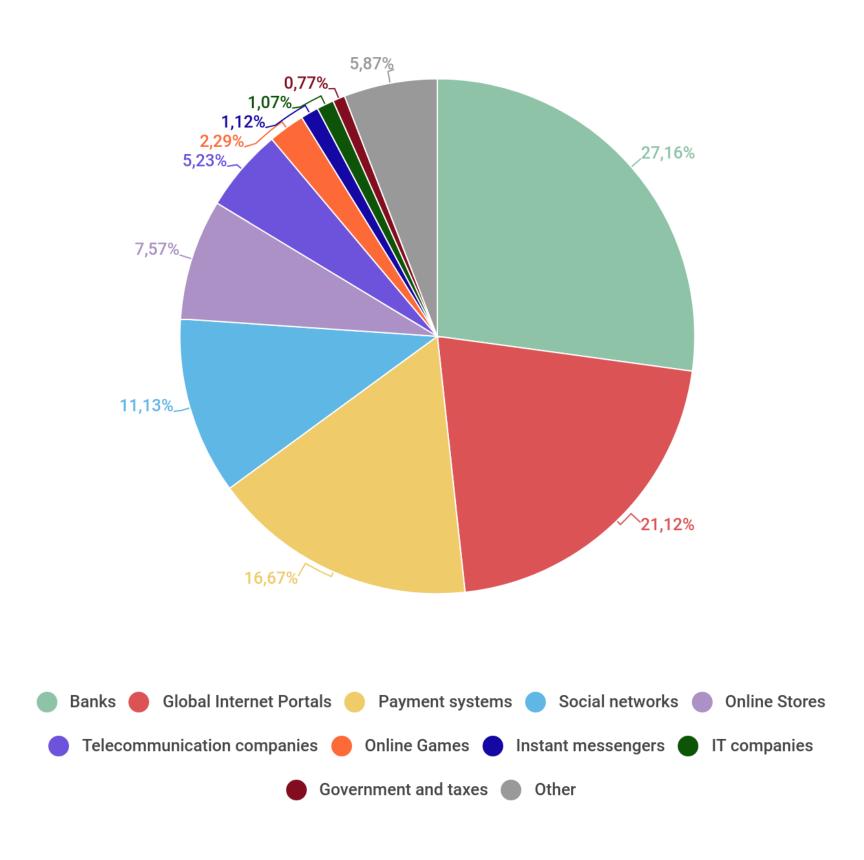


Fonte: Securelist



## + STATISTICHE

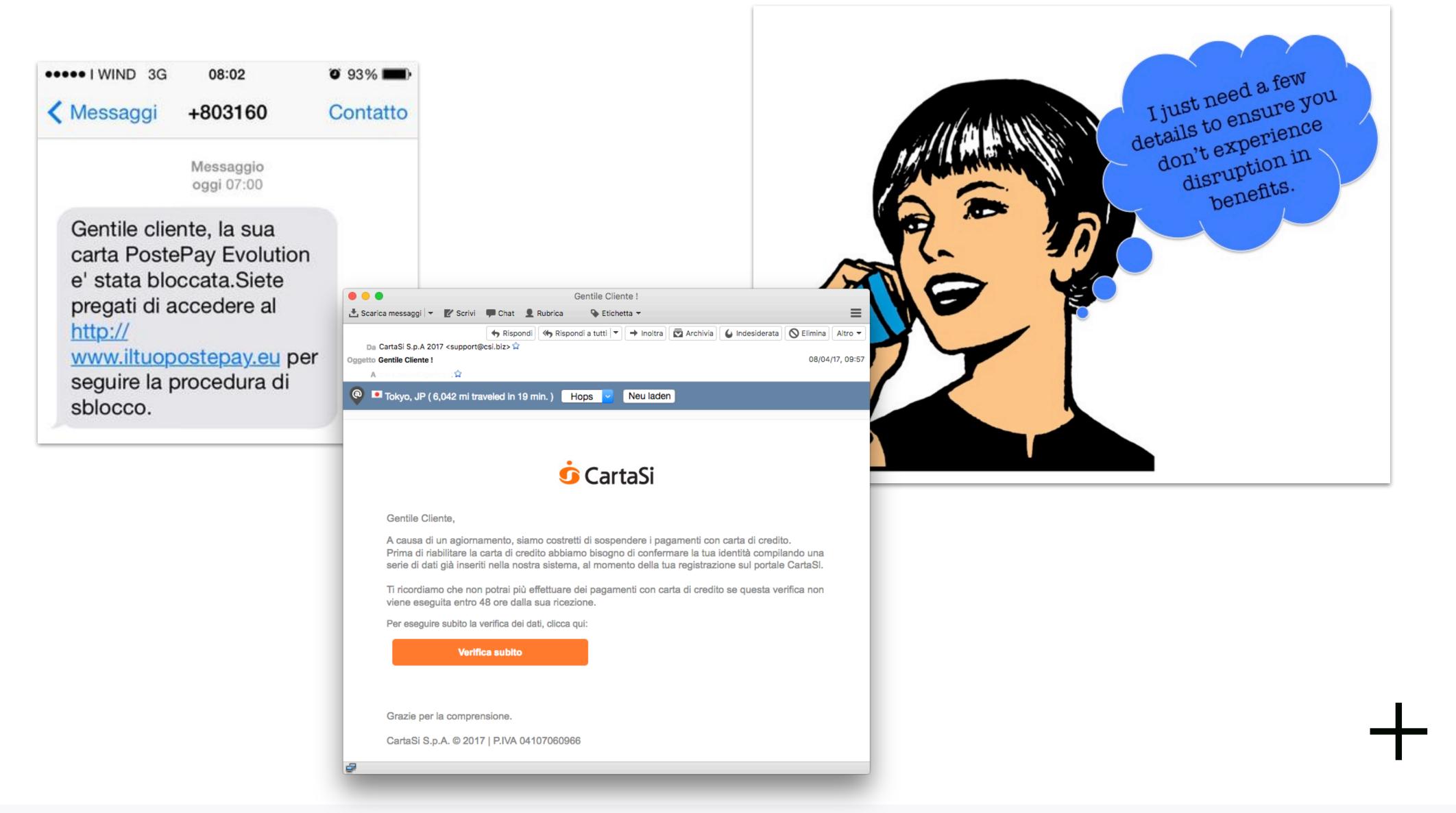
Rating of categories of organizations attacked by phishers



Fonte: Securelist

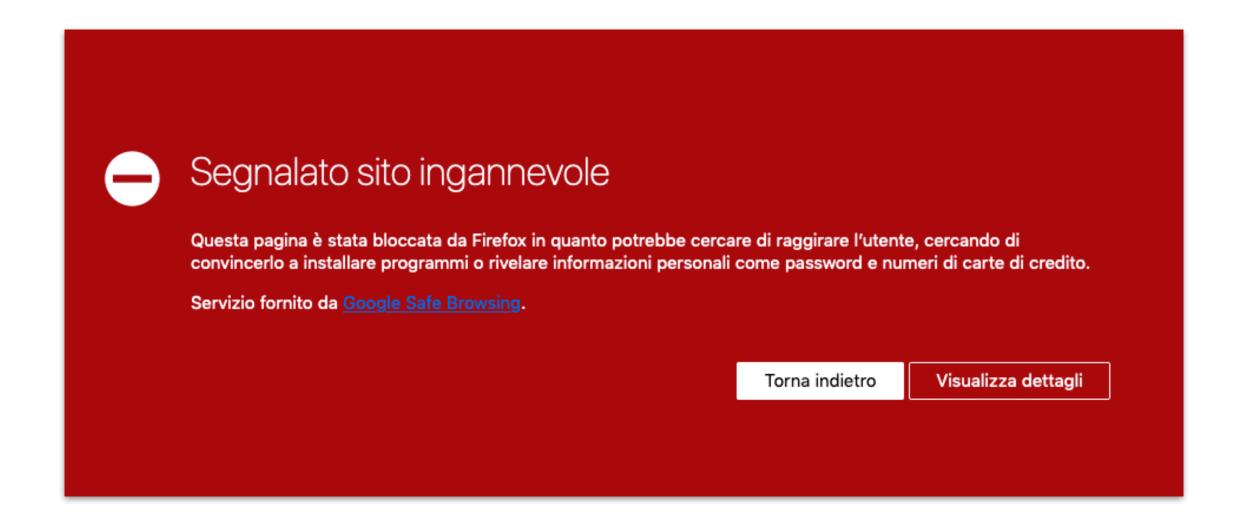


#### + VETTORI: EMAIL, SMISHING, VISHING, ADS, ETC..





#### **Blocklist**

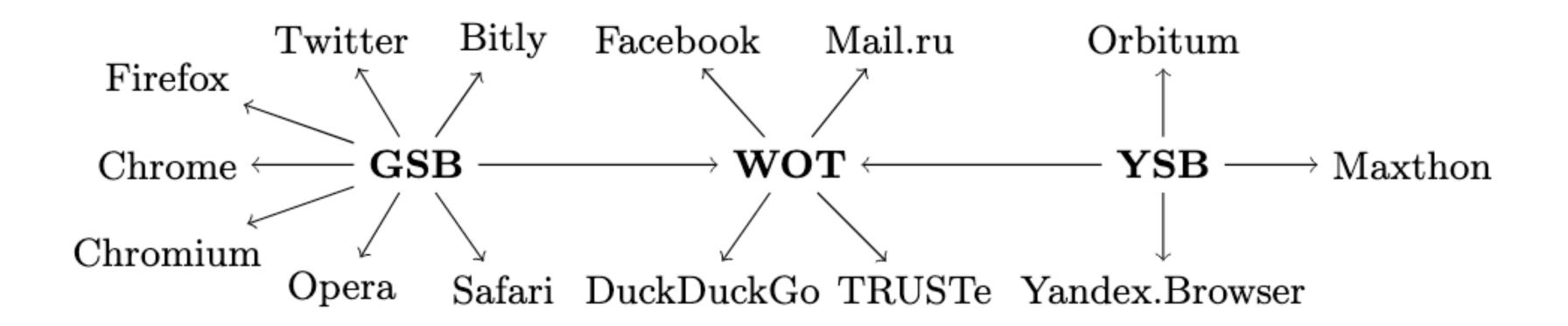


#### Abuse Team





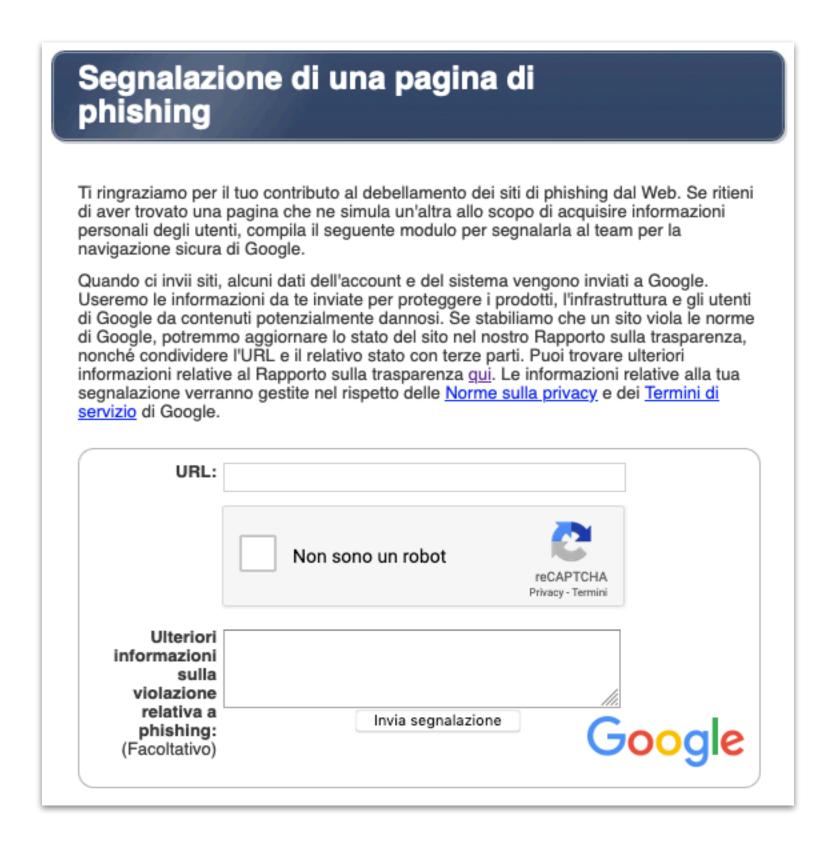
#### - CONTRASTO: BLOCKLIST



Fonte: https://www.inrialpes.fr/planete/people/amkumar/papers/gsb-security.pdf



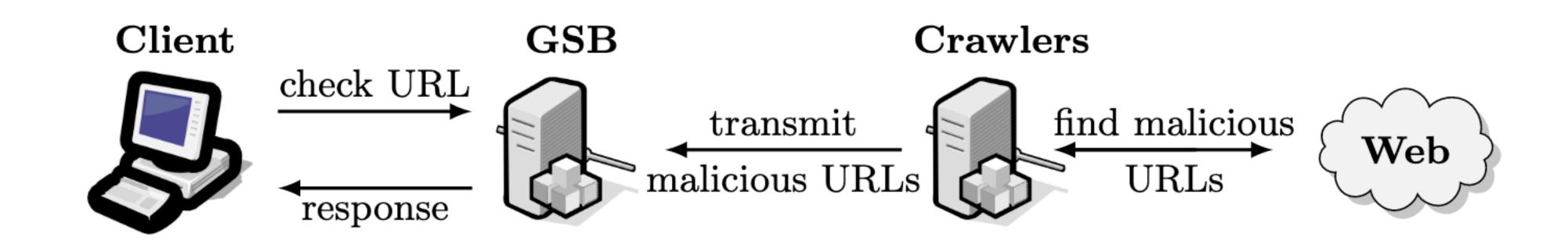
#### — CONTRASTO: GOOGLE SAFE BROWSING



https://safebrowsing.google.com/safebrowsing/report\_phish/



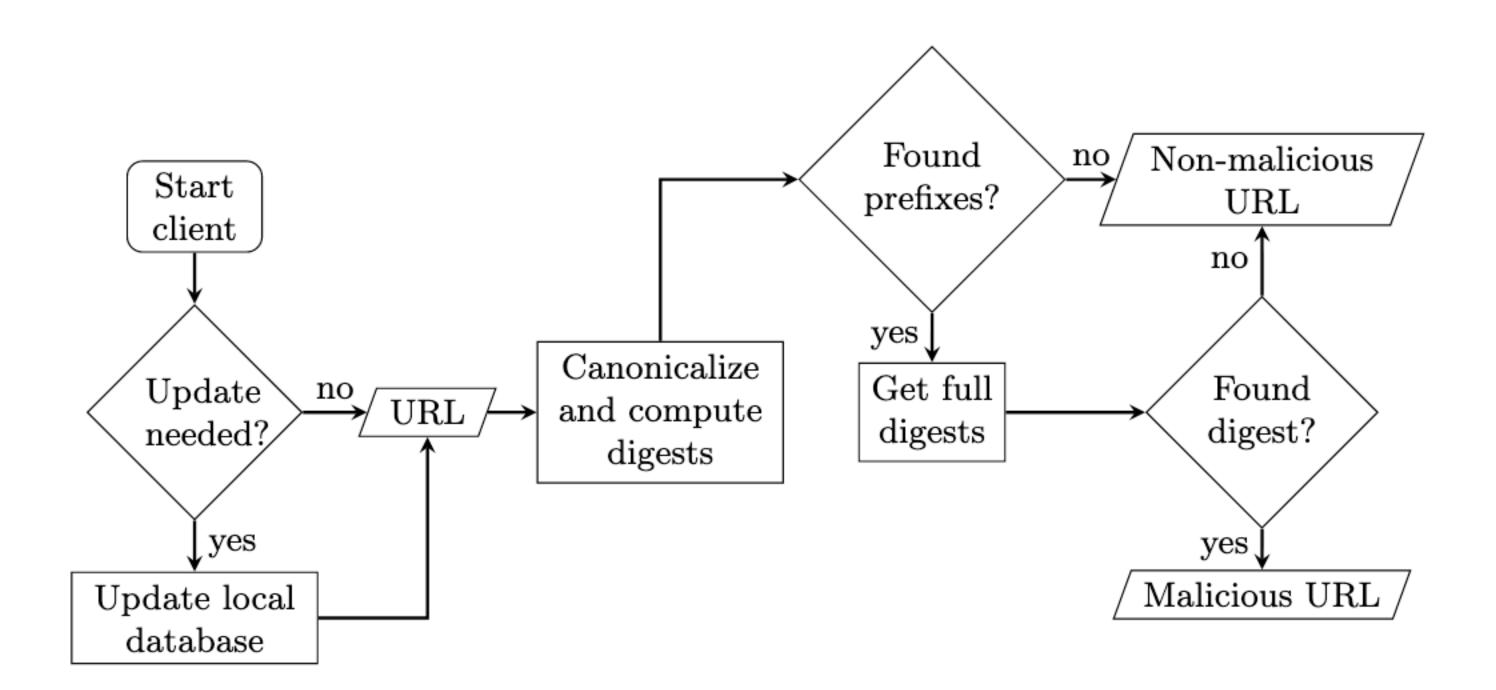
#### + CONTRASTO: GOOGLE SAFE BROWSING



Fonte: https://www.inrialpes.fr/planete/people/amkumar/papers/gsb-security.pdf



#### — CONTRASTO: GOOGLE SAFE BROWSING



Fonte: https://www.inrialpes.fr/planete/people/amkumar/papers/gsb-security.pdf



#### + BLOCKLIST E TECNICHE DI EVASIONE: GEO-BLOCKING

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script>
 $.getJSON('https://api.ip.sb/geoip?callback=?', function (data) {
   if (data.continent_code == "EU"){
     $(location).attr('href', 'http://example.xsph.ru/phishing-page/')}
   else {
     $(location).attr('href', 'https://google.it/')}
 });
```

#### - BLOCKLIST E TECNICHE DI EVASIONE: IP-BLOCKING

```
$ip_blocking_array = ["^192.168.*.*"]

foreach ($ip_blocking_array as $ip) {
    if (preg_match("/" . $ip . "/", $ipaddress_visitor)) {
        header("HTTP/1.0 404 Not Found");
        die("<h1>404 Not Found</h1>The page that you have requested could not be found.");
    }
}
```



#### — BLOCKLIST E TECNICHE DI EVASIONE: HOSTNAME BLOCKING

```
$blocked_hostname = array( "google", "phishtank", "netcraft", "yandex", ...);

foreach($blocked_hostname as $word) {
    if (substr_count(gethostbyaddr($_SERVER['REMOTE_ADDR']), $word) > 0) {
        header("HTTP/1.0 404 Not Found");
        die("<h1>404 Not Found</h1>The page that you have requested could not be found.");
    }
}
```

#### - BLOCKLIST E TECNICHE DI EVASIONE: USER-AGENT BLOCKING

```
$useragent = $_SERVER['HTTP_USER_AGENT'];

if (strpos($useragent, "google") OR strpos($useragent, "phishtank") !== false ) {
    header("HTTP/1.0 404 Not Found");
    die("<h1>404 Not Found</h1>The page that you have requested could not be found.");
}
```



#### + BLOCKLIST E TECNICHE DI EVASIONE: USER-AGENT BLOCKING

```
$useragent = $_SERVER['HTTP_USER_AGENT'];
if (strstr($useragent, "iPhone") === false ) {
  header("HTTP/1.0 404 Not Found");
  die("<h1>404 Not Found</h1>The page that you have requested could not be found.");
}
```



#### + BLOCKLIST E TECNICHE DI EVASIONE: RANDOM PATHS

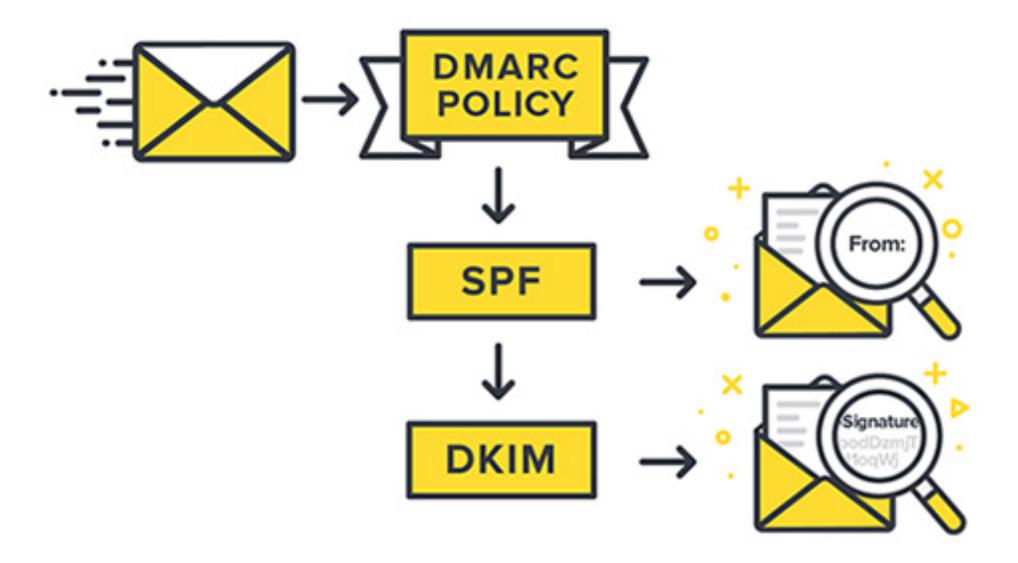
https://www.officialsite.it.examplesite.com/login/caf93d0f225c7a59d52ad3c4a0afc575/

https://www.officialsite.it.caf93d0f225c7a59d52ad3c4a0afc575.examplesite.com/login/

https://www.officialsite.it.caf93d0f225c7a59d52ad3c4a0afc575.examplesite.com/login/caf93d0f225c7a59d52ad3c4a0afc575/



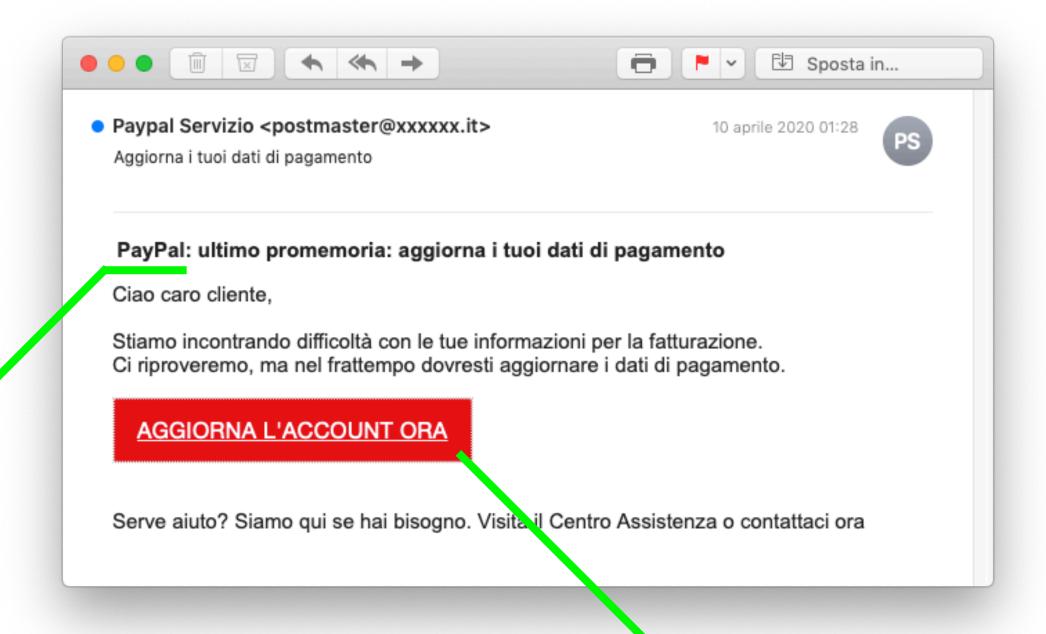
## ANTI-SPAM E TECNICHE DI EVASIONE



mail-tester.com



#### - ANTI-SPAM E TECNICHE DI EVASIONE



#### Invisible characters:

<style>span.hc {font-size:0;}</style>

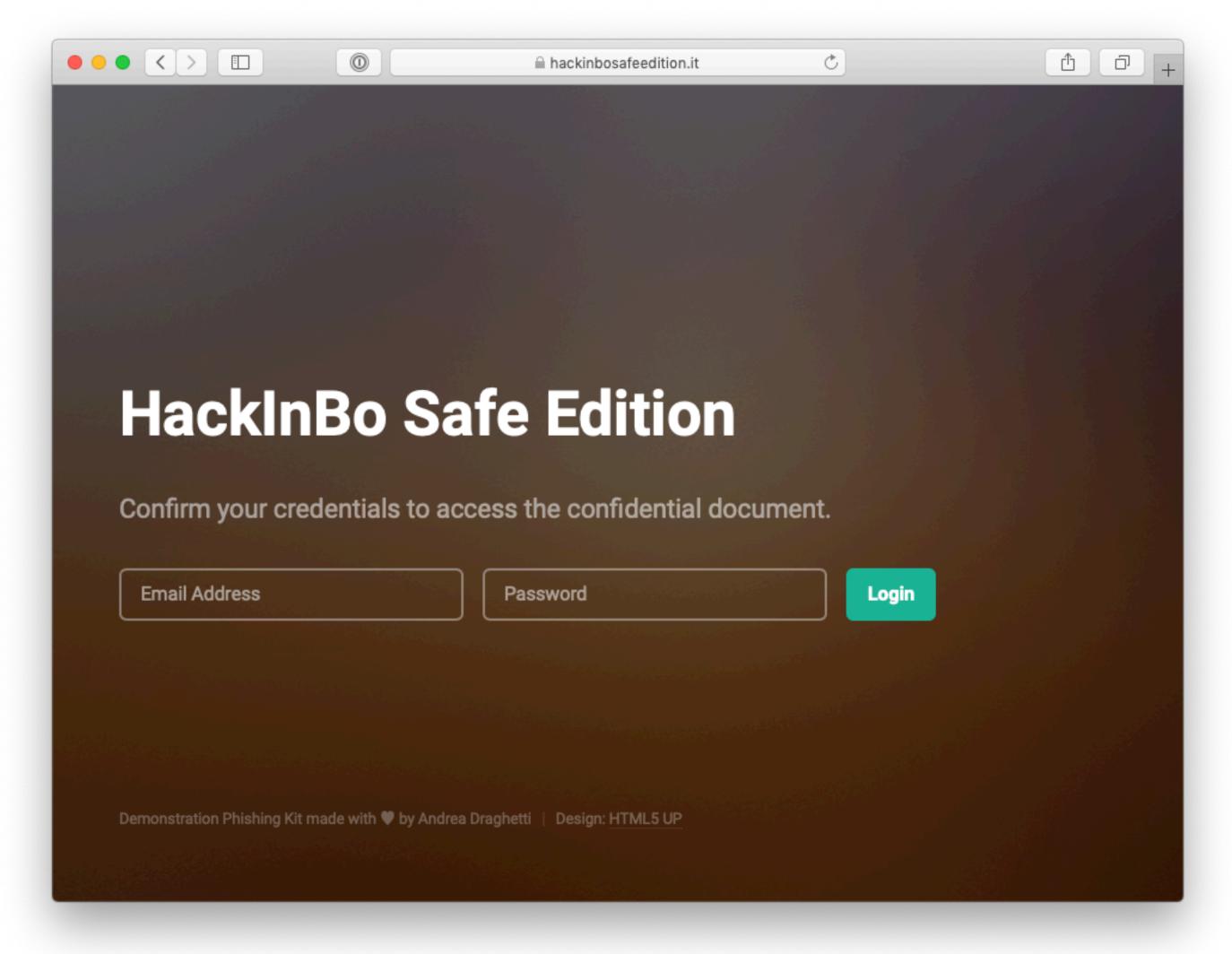
P<span class='hc'>1</span>a<span class='hc'>2</span>y<span class='hc'>3</span>P<span class='hc'>4</span>a<span class='hc'>5</span>l<span class='hc'>6</span>.....

#### **Allowed URL:**

https://bit.ly/2WwFPyB



## + DEMO



https://github.com/drego85/HackInBoSafeEdition/



# + CONCLUSIONE



Photo by NeONBRAND on Unsplash

