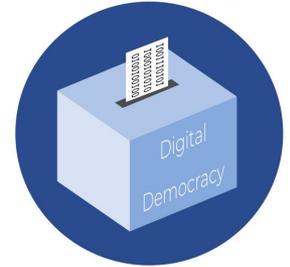




# Conferenza Sicurezza Privacy



Stefano Zanero Digital Democracy  
Fabio Pietrosanti GlobaLeaks  
Nicola Corna Intel ME

**12 marzo - 16:30**  
**Aula Castigliano**  
Politecnico Open unix Labs

Realizzato con il contributo del Politecnico di Milano

## Stories of Open-Source, Whistleblowing and Anti-Corruption Milano, Politecnico Open Unix Labs, 12 Marzo 2018

Giovanni Pellerano

Hermes Center for Transparency and Digital Human Rights

<https://globaleaks.org> - <https://hermescenter.org>



# WHISTLEBLOWING TECHNOLOGIES

Empowering Truth as a Human Right



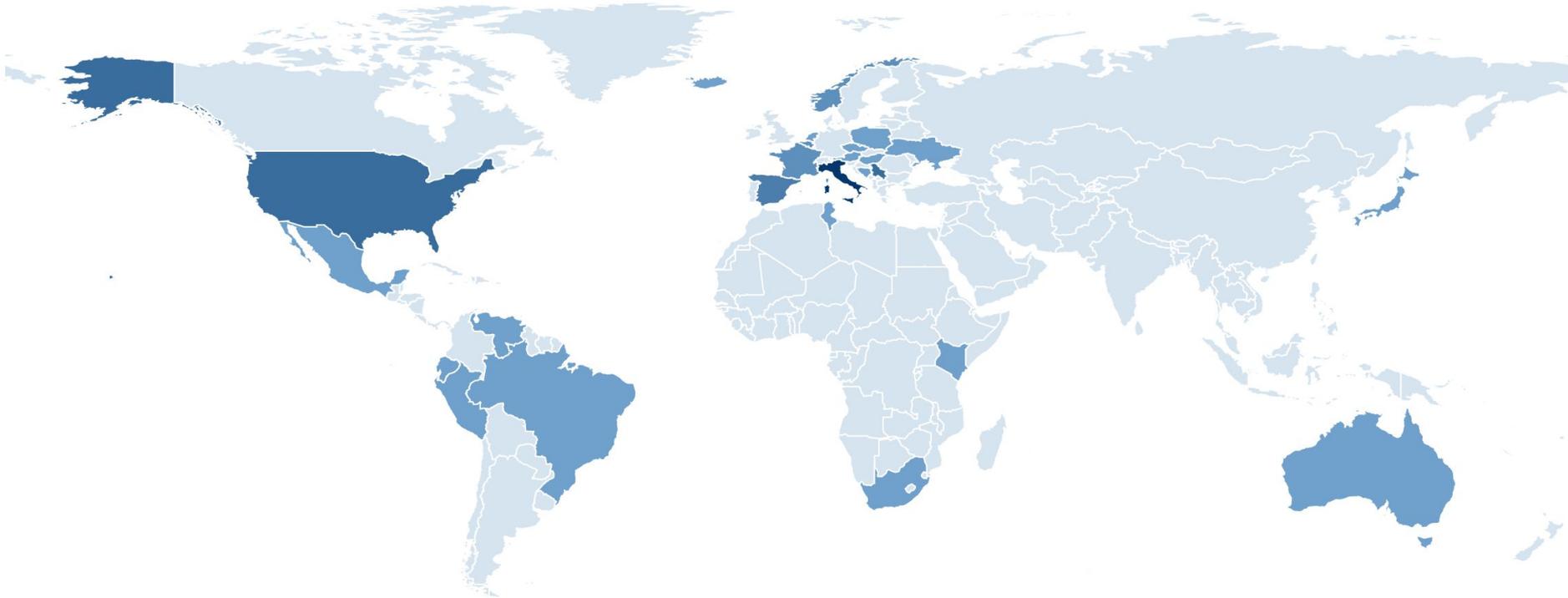
# DIGITAL ANONIMITY

Protecting Freedom in a connected world





# Whistleblowing...everywhere



<https://www.globaleaks.org/implementations/>

+25 languages  
+200 projects worldwide



<https://www.whistleblowingosolutions.it>

Innovative Startup (non-profit) for the sustainability of the  
GlobaLeaks Project

Supporting Whistleblowing Projects with:

- Professional Services
  - Technical Assistance
  - WB SAAS
  - Software and infrastructure Maintenance
  - Custom Development
- > Reinvesting 100% of earnings into GlobaLeaks and anticorruption initiatives

## 2011, The Starting Point

### WikiLeaks, Chelsea Manning, Collateral Murder



# Critical Submission Forms with no HTTPS

The screenshot shows the contact page of the Instance Nationale de Lutte Contre la Corruption (INLUCC) in Tunisia. The page is viewed in a Chromium browser at the URL [www.inlucc.tn/1/taches-courantes/contact/](http://www.inlucc.tn/1/taches-courantes/contact/). The website header includes the INLUCC logo, social media icons, and a search bar. The main content area is divided into three columns:

- Informations de contact:** 71 Avenue Taieb Mhiri, 1002 Tunis Belvédère - Tunisie. Tél : +216 71 840 401, Fax : +216 71 840 390, E-mail : [contact@inlucc.tn](mailto:contact@inlucc.tn)
- Google map:** A map showing the location of Avenue Taieb M'Hiri in Tunis.
- RECLAMATION:** A prominent red button for submitting a complaint.

Below the map is a contact form titled "Contactez-nous" with three input fields: "Nom et prénom", "Fonction", and "Société". To the right of the form are several sections: "Suivez-nous" with a Facebook "J'aime cette Page" button, "Liens directs" with a link to "Portail national Anticorruption", "FAQ", and "Liens utiles".

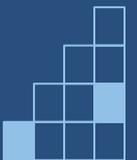
<http://www.inlucc.tn/1/taches-courantes/contact/>



# GlobaLeaks: The Idea

Build a usable platform to support secure and anonymous whistleblowing.

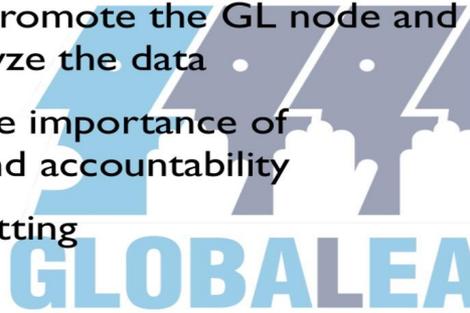
Worldwide.



# 2011's GlobaLeaks vision

## Transparency Activism

- NGO and informal activism organisations
- **They** will promote the GL node
- They will only promote the GL node and others will analyze the data
- Advocacy on the importance of Transparency and accountability
- Corruption spotting



ber 4, 2011

## Media

- Media outlets, Magazine and Journalism associations can setup a VVB interface
- Collects Anonymous report by default
- Two real world use cases



4, 2011

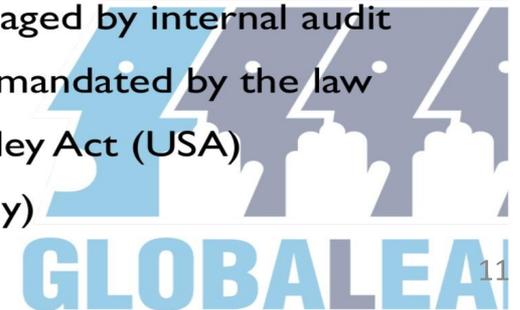
## Public Agencies

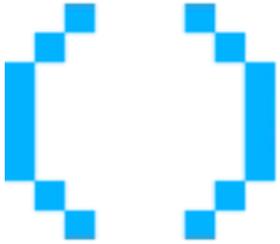
- Internal and **external** public WB services
- **USA IRS, US SEC, EU Antitrust**
- Involve citizens into spotting tax evasion, market manipulation, corruption, malpractice in health and environment



## Private Corporations

- Important tool to be integrated within the corporate organizational model
- Typically managed by internal audit
- Accountability mandated by the law
  - Sarbanes-Oxley Act (USA)
  - Dlgs 231 (Italy)





**OPEN TECHNOLOGY FUND**





# Speed Dating with Globleaks

What is digital  
whistleblowing?

Which are the principles and  
the philosophy behind  
Globleaks?

On which technologies is the  
software is based?



# A simple **submission form** with embedded security

Fill out your submission

Short title 

Full description 

Attachments 

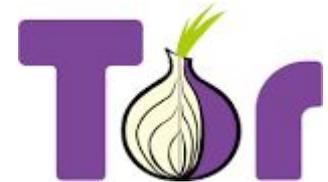




# GlobaLeaks Internals

Backend: Python

(Twisted / Storm / Tor / python-cryptography...)



Frontend: JS

(AngularJS, Bootstrap, OpenPGP.js...)



[Home](#)[About Tor](#)[Documentation](#)[Press](#)[Blog](#)[Newsletter](#)[Contact](#)[HOME](#) » [PROJECTS](#) » [TORBROWSER](#)[Download](#)[Volunteer](#)[Donate](#)[Software & Services:](#) • [Nyx](#) • [Orbot](#) • [Tails](#) • [TorBirdy](#) • [Onionoo](#) • [Metrics Portal](#) • [Pluggable Transports](#) • [Shadow](#)**DOWNLOAD**

Tor Browser

[Installation Instructions](#)[Microsoft Windows](#) • [Apple MacOS](#) • [GNU/Linux](#)

## What is Tor Browser?

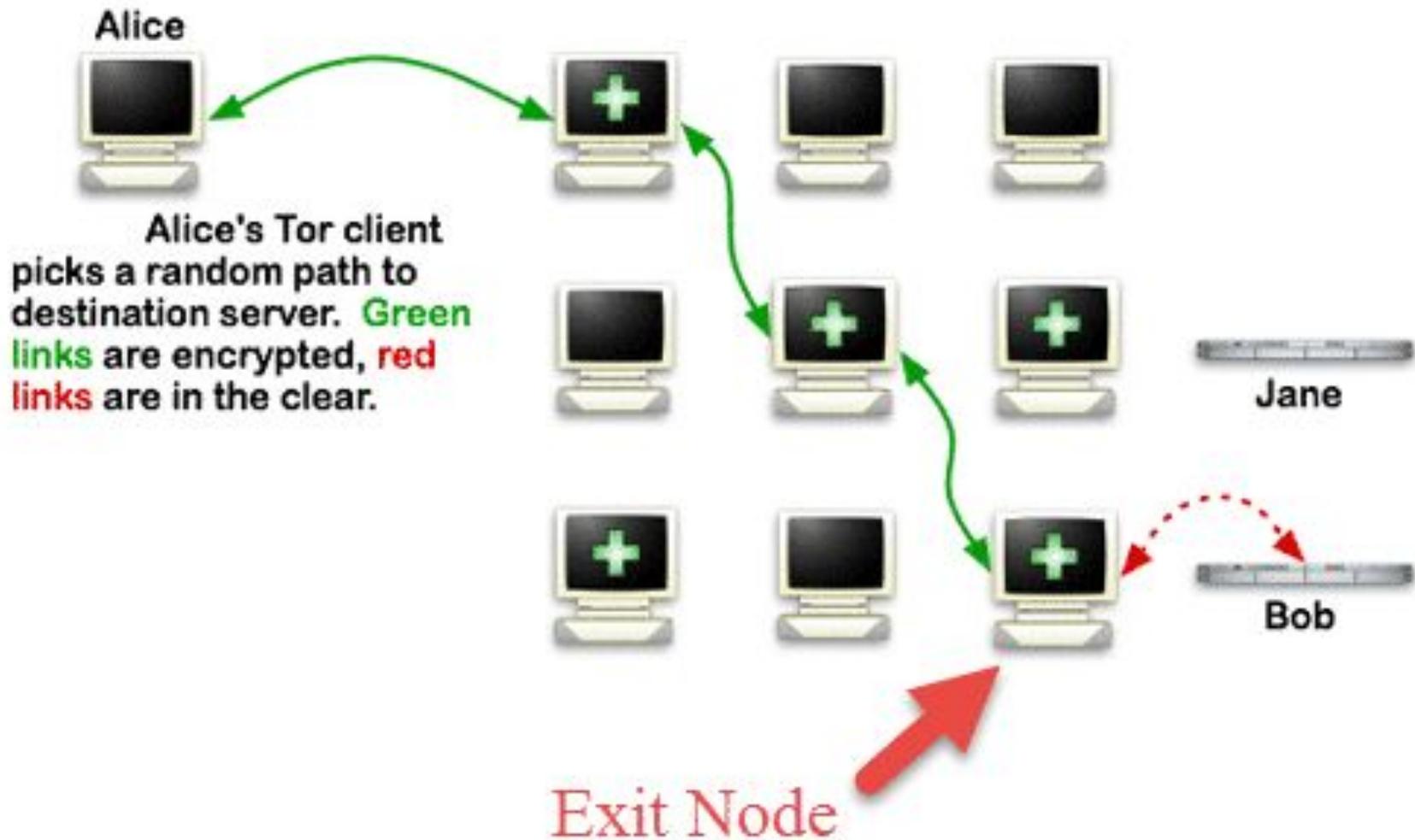
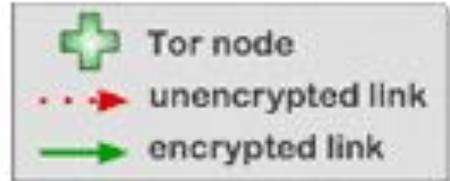
The **Tor** software protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, it prevents the sites you visit from learning your physical location, and it lets you access sites which are blocked.

**Tor Browser** lets you use Tor on Microsoft Windows, Apple MacOS, or GNU/Linux without needing to install any software. It can run off a USB flash drive, comes with a pre-configured web browser to protect your anonymity, and is self-contained (portable).

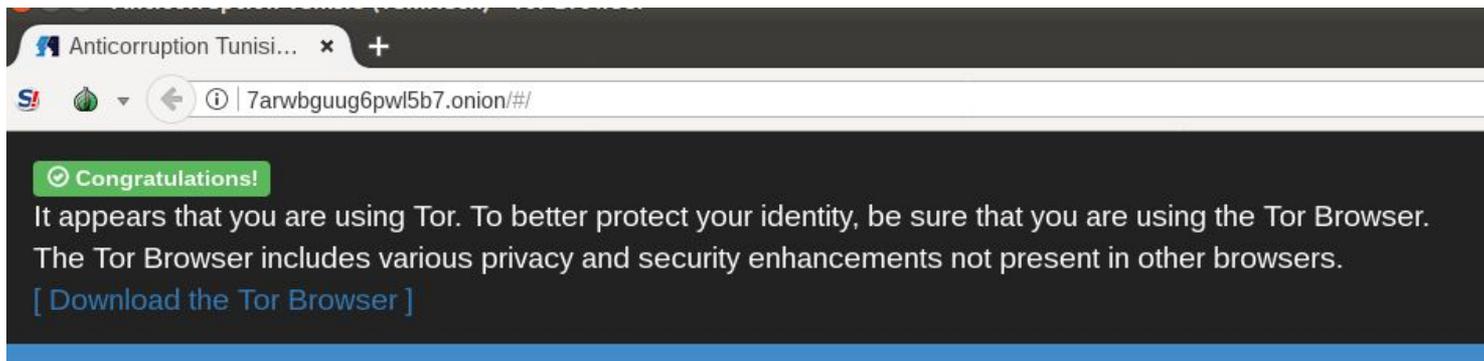
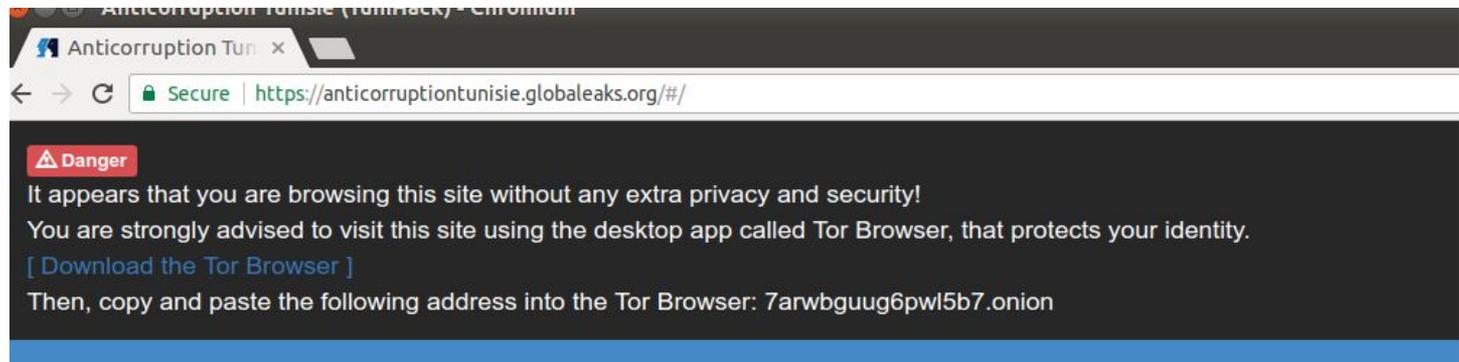
[Do you like what we do? Please consider making a donation »](#)

<https://www.torproject.org/projects/torbrowser.html>

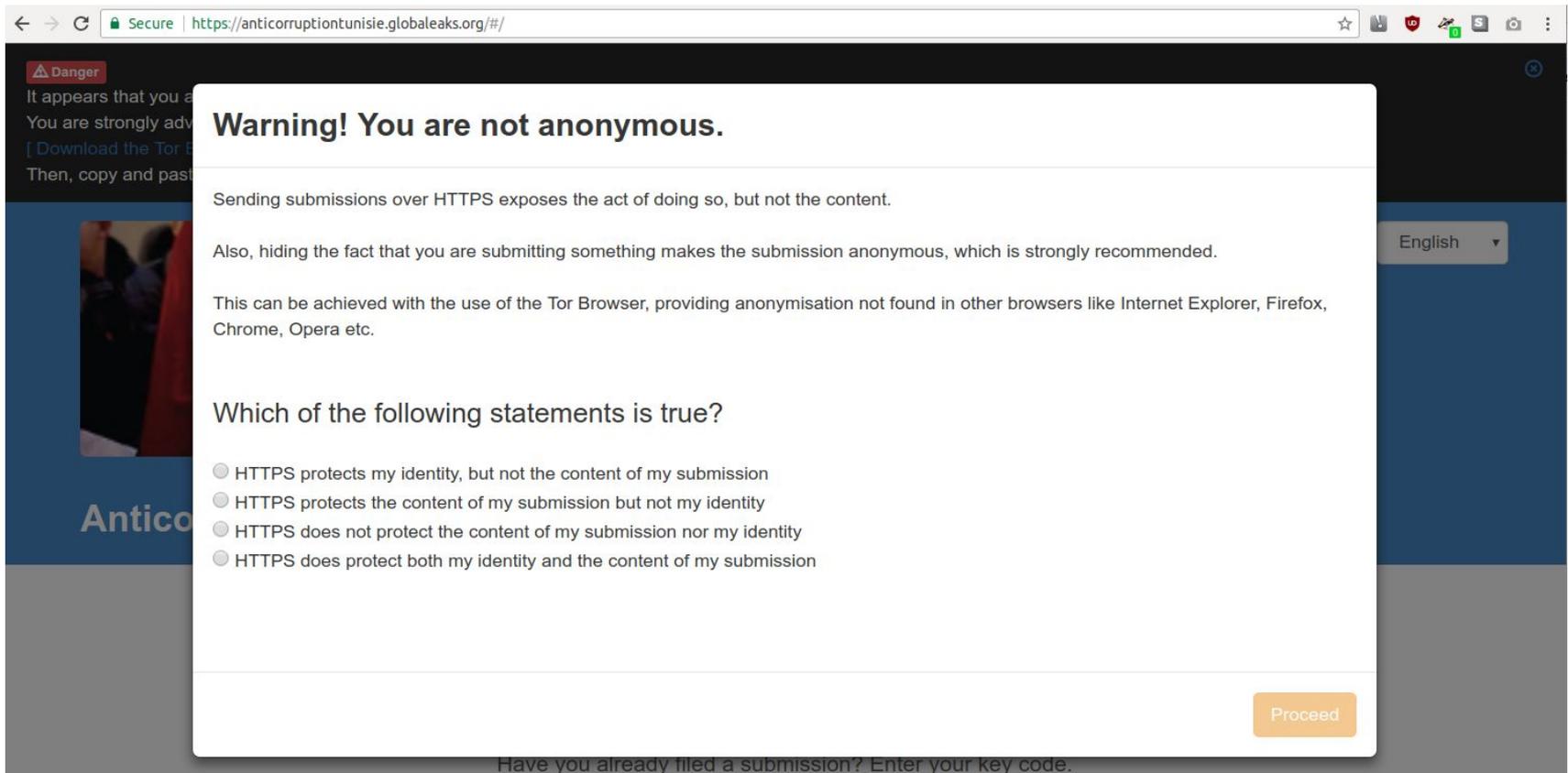
# How Tor Works



# Tor vs HTTPS



# Security Awareness



The screenshot shows a web browser window with the address bar displaying "Secure | https://anticorruptiontunisie.globaleaks.org/#/". A modal dialog box is overlaid on the page with the following content:

**Warning! You are not anonymous.**

Sending submissions over HTTPS exposes the act of doing so, but not the content.

Also, hiding the fact that you are submitting something makes the submission anonymous, which is strongly recommended.

This can be achieved with the use of the Tor Browser, providing anonymisation not found in other browsers like Internet Explorer, Firefox, Chrome, Opera etc.

Which of the following statements is true?

- HTTPS protects my identity, but not the content of my submission
- HTTPS protects the content of my submission but not my identity
- HTTPS does not protect the content of my submission nor my identity
- HTTPS does protect both my identity and the content of my submission

Proceed

Have you already filed a submission? Enter your key code.

# Anonymous and plausible-deniable receipt

**Thank you!**

Your submission was successful.



Remember your key code for this submission.

**6161 8124 5462 4199**

We will try to get back to you as soon as possible!

Use the 16 digit key code to log in. It will allow you to view any messages we sent you, and also to add extra info.

[View your submission](#)

Hint: How to hide your key code

A useful way to hide your key code is to write it down like a credit card number, i.e. by also including an expiration date.

Example:



CREDIT CARD

6161 8124 5462 4199

VALID FROM 12/13      EXPIRES END 12/18

YOUR NAME

# State of the Research

Designed for usability, GlobaLeaks enabled hundreds of NGOs to create their own secure whistleblowing platform.

Current implementation now targets enabling those NGOs to serve each several partner organizations or groups.

For this reason GlobaLeaks now offers:

- A multi-site (multi-tenancy) implementation;
- Integration with Let'sEncrypt to ease HTTPS setup;
- Full features list at:  
<http://docs.globaleaks.org/en/latest/Features.html>

Read more about the documentation at:

<http://docs.globaleaks.org/en/latest/>

# TRY.GLOBALEAKS.ORG



Create your whistleblowing platform

English ▾

## Sign up

**Domain \***

Domain

**Name \***

Name  Surname

**Email address \***

Email address

**Use Case \***

[Complete](#)

# **Digital Whistleblowing**

**Who is using it and how?**

# Journalism & Media



PUB  
LEAKS



# Investigative Journalism Digital Dropbox

- Investigative journalist groups acting on topics of public interest
- Journalistic investigation and fact-checking done in-house
- Publishing of scoops and articles



<https://irpi.eu/irpileaks/>



<http://atlatszo.hu/magyarleaks/>



<http://www.perun.rs/>



Select Category

Send Tip

Media

Fact Checking

Investigative  
Journalism

Publishing

Coordinate  
release across  
multiple media

# Multi-stakeholder Digital Whistleblowing



## 42 media partners

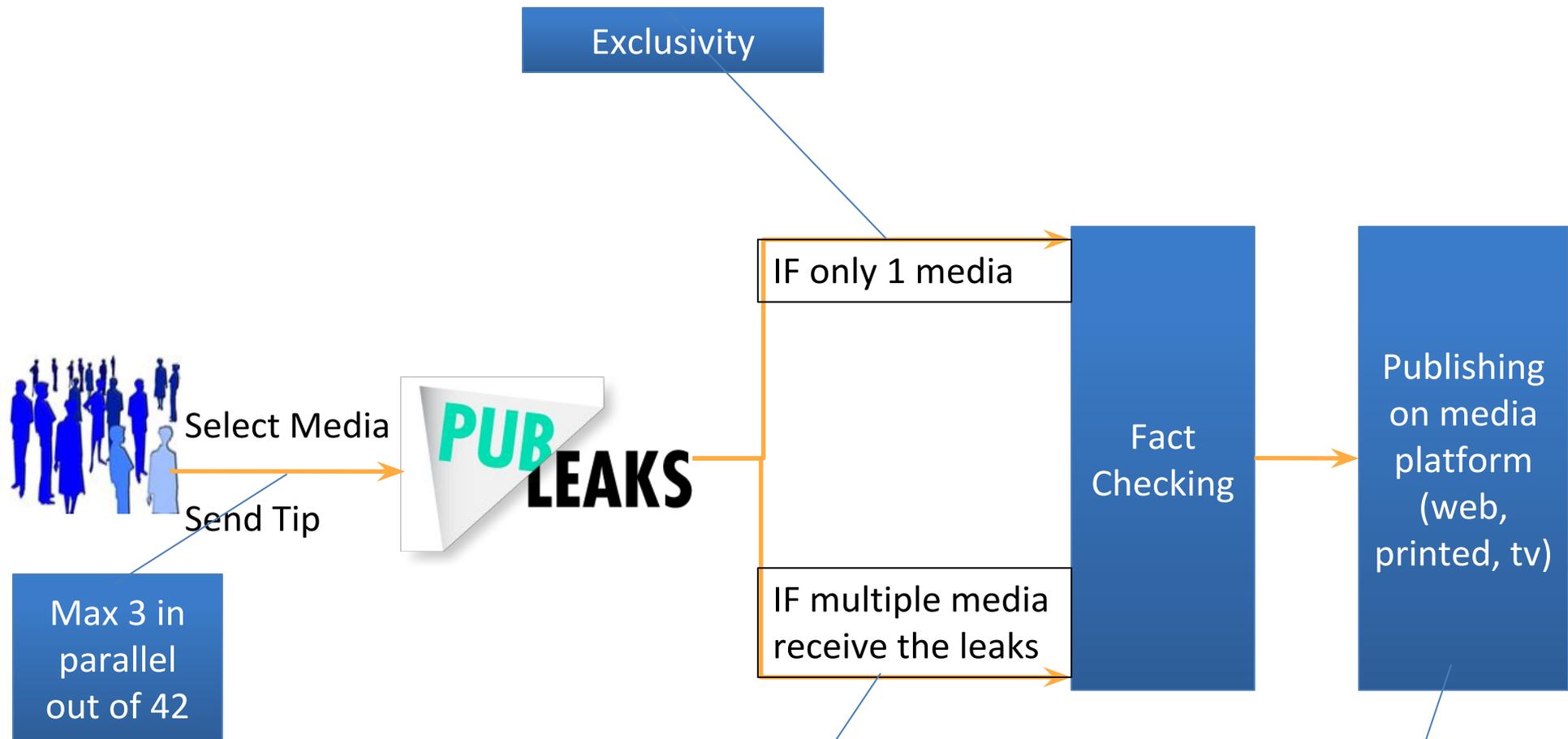
- National Media
- Printed Journals
- Online Media
- TV
- Local Media

## PubLeaks Foundation

- Media Consortium
- IT infrastructure management
- Can't access leaks
- Provides technical support
- Provides "Secure" Laptops

## Reports received in few months proved

- Abuse of power by politicians
- Abuse of public funds



- Embargo Period
- Cooperation Rules

MUST write that source came from Publeaks

Key Points:

- Stimulate cooperation
- Stimulate competition
- Whistleblower select recipient based on the media's reputation

...relave Millilla  
...lingen. Bij haar laatste po-  
...gung, eind november 2013, had Mirelle  
...nog een flinke val gemaakt. Vervolgens

haa  
na h  
ma  
ters

Advertenties

Bent u op de hoogte van een  
misstand, maar durft u er  
geen melding van te doen?

# PUB LEAKS

Anoniem lekken naar de pers

Meldt het anoniem en veilig aan  
de **Volkskrant** via **Publeaks.nl**



onderdeel  
**st**  
in travel





Le site d'envoi anonyme de  
documents vers les médias

**VOUS POSSEDEZ  
DES INFORMATIONS  
CONFIDENTIELLES**

**VOUS SOUHAITEZ  
LES ENVOYER  
ANONYMEMENT  
AUX MEDIAS**

**VOUS POUVEZ  
SELECTIONNER  
VOS DESTINATAIRES**

**COMMENCEZ !**

## MEDIAS PARTICIPANTS

**Le Monde**

**La Libre** BELGIQUE

**rtbf**.be

**LE SOIR**

francetv**info**

**L'OBS**

**l'avenir**.net

**RTS** Radio Télévision  
Suisse

<https://www.sourcesure.eu>

By Le Monde, La Libre, Rtb, Le Soir... ("Francophone PubLeaks")



# MEXICOLEAKS

Una plataforma independiente de denuncia ciudadana y transparencia,  
al servicio de la sociedad mexicana para revelar información de interés público

Envía Documentos



# MEXICOLEAKS

**Una plataforma digital para compartir  
información de interés público**

## PRESENTACIÓN

Martes 10 de marzo, Centro de Cultura Digital.  
Paseo de la Reforma s/n esquina Lieja, Col. Juárez.  
10:00 horas



ANIMAL  
POLITIC



emesquis



proceso RED

<https://mexicoleaks.mx>

PubLeaks Mexico (w/multiple Mexican Media, financed by Free Press Unlimited  
with organization by Association Whistleblowing Press)



ES IMPOSIBLE CORREGIR ABUSOS  
CUANDO NO LOS CONOCEMOS

FÍLTRALA ES UNA PLATAFORMA INDEPENDIENTE DE DENUNCIA CIUDADANA, PUESTA A SERVICIO DE LA SOCIEDAD, A TRAVÉS DE LA CUAL CUALQUIER PERSONA PUEDE ENVIAR DE MANERA SEGURA Y ANÓNIMA INFORMACIÓN QUE DEMUESTRE CRÍMENES, DELITOS, CORRUPCIÓN, ABUSOS Y INFRACCIONES POR PARTE DE INDIVIDUOS, EMPRESAS O INSTITUCIONES

ENVIAR  
DOCUMENTOS



whistleblower concept



<https://filtrala.org>

“PubLeaks Spain” @filtrala with more than 5 Spanish media partners and NGOs, organized by Association Whistleblowing Press



# ecuador TRANSPARENTE

*October 9, 2017*

## Alexis Mera emails reveal manipulation of legal proceedings in the Constitutional Court

The following emails, exchanged between Alexis Mera, then Legal Secretary of the Presidency, and Carlos Cortaza, lawyer of the former Ecuadorian Customs Corporation, show how both coordinated actions to interfere in the judicial proceedings against businessman Welmer Quezada Neira.

Quezada was accused in several instances of customs fraud for his import and export business, most of which were filed in the courts of the North Criminal Judicial Unit of Guayaquil. However, the dismissals were dismissed by the Constitutional Court, by Ruth Seni Pinoargote, one of the judges proposed by the Executive. In addition, in that same sentence the Constitutional Court also asked the Judicial Council to investigate the conduct of the judges of the Chamber that ordered the dismissal. Soon these judges were dismissed.

In this context, the content of these emails can be serious, since the lawyer of the CAE explicitly thanks Mera for its role in achieving those resolutions. 'I do not want to miss the opportunity to thank you for all the help in the WQ issue (Welmer Quezada) with the resolutions obtained from the CC (Constitutional Court) we are going to reactivate all the cases that are possible here in Gye' (sic), Cortaza said in 2013, when the strategy was taking shape. In addition, on September 19, 2013, Cortaza reported having taken action to move the cases from Quito to Guayaquil: 'I already returned the cases of UIO and tomorrow I pass it to the criminal court of Guayas to order another preventive detention to WQ and company'. It is necessary

### Colaboradores



Ecuador Transparente

<https://ecuatortransparente.org/>



Para enfrentar la corrupción hay que revelarla

Una plataforma independiente de denuncia ciudadana y transparencia, al servicio de la sociedad peruana para revelar información de interés público

Enviar documentos



OjoPúblico

hiperderecho | La Republica.pe



PODER



UTERO.PE

# Activism

# WildLeaks: WildLife Protection



**WildLeaks**  
The First International Platform for  
Wildlife Crime Whistleblowers

Multi-stakeholder Initiative by:

- Elephant Action League (US)
- Environmental Investigation Agency (UK)
- Oxpeckers Center (South Africa)
- EcoJust (NL)
- Global Eye (Africa and Southeast Asia)

<https://wildleaks.org/>

Multi-stakeholder organization taking action in a collaborative against Wildlife Crime



# Human Rights Violations Reporting

# Human Rights Violations Reporting

مدعوم من "غلوبل ليكس"

هذه المنصة تستخدم برمجيات GlobaLeaks المصممة تحديداً لحماية هويتك وتبادل المعلومات بصورة آمنة. وقد قام مركز هيرميز للشفافية وحقوق الإنسان الرقمية، غير الربحي، بتصميم هذه البرمجيات. نرجو تقديم الدعم لهيرميز من خلال صفحة التبرعات الخاصة بالمركز.



AMNESTY  
INTERNATIONAL



Amnesty International (Saudi Arabia) -  
AMLEA

<https://www.amlea.org>



Cour  
Pénale  
Internationale

International  
Criminal  
Court

Pilot Project

<https://www.icc-cpi.int/carll>

# Anti-corruption Activism

# ALAC: Transparency International Italy



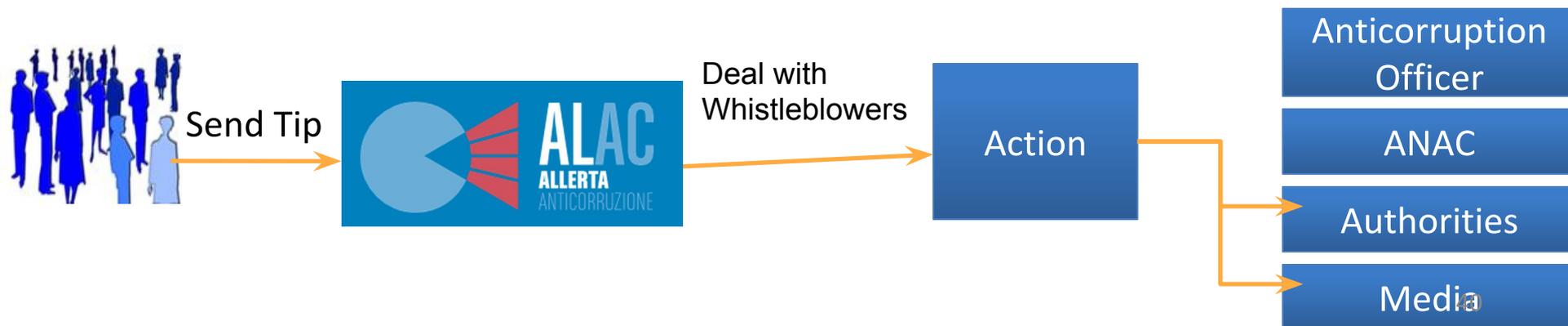
TRANSPARENCY  
INTERNATIONAL  
ITALIA

Associazione contro la corruzione

<https://www.transparency.it/alac>

- Started in Nov 2014, 147 tips in 2016
- Strict questionnaires focusing on information quality
- Try to transfer Whistleblowers' inquiries to the right channel

Experimental / Practical handling of anticorruption Tip, considering whistleblowers' safety



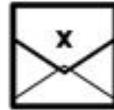
# XNetLeaks

## Anti-Corruption Activism in Spain



Xnet

Buzón de  Xnet  
**XNETLEAKS**



**LEAK TO FIGHT  
CORRUPTION**

Xnet's Mailbox: Leaks against corruption

<https://xnet-x.net/en/xnetleaks/>

# Barcelona Municipality Anticorruption Platform

www.barcelona.cat

Català

ajuntament.barcelona.cat

## Bústia Ètica i de Bon Govern

Oficina per a la Transparència i les Bones Pràctiques

🏠	QUÈ ÉS?	OBJECTIUS	ÀMBIT D'ACTUACIÓ	REQUISITS	COM FUNCIONA?	SEGUIMENT	COMUNICACIONS ANÒNIMES
---	---------	-----------	------------------	-----------	---------------	-----------	------------------------



Heu detectat una **mala praxi** a l'Ajuntament de Barcelona i podeu aportar proves d'aquesta conducta?



Utilitzant l'aplicació, **que garanteix la confidencialitat**, podeu fer que s'investigui el cas i s'actui per millorar la integritat del sector públic.



Podeu **escollir una comunicació totalment anònima**.



Podeu fer el **seguiment de la comunicació** a través d'un **canal segur** i conversar amb l'òrgan gestor de la bústia, **independent** en l'exercici de les seves funcions.

**First Governmental Agency promoting the use of Tor for Anti-Corruption!**

Tutorial per descarregar



<https://ajuntament.barcelona.cat/bustiaetica/ca>  
<https://xnet-x.net/en/whistleblowing-platform-barcelona-city-council/>

[Domov](#) » [Jak oznámit korupci?](#)

## Jak oznámit korupci?

[Přeskočit přímo k oznámení](#)

Oznamujte bezpečně pomocí rozhraní GlobaLeaks!

GlobaLeaks je software, který i méně technicky zdatným osobám umožňuje podat oznámení o korupci takovým způsobem, aby bylo možné zaručit jejich anonymitu a ochránit obsah jejich sdělení za použití moderních kryptografických nástrojů. Nástroj umožňuje dvě varianty oznámení – **důvěrné** a **via Tor** (o rozdílu mezi podáními si přečtěte [níže na stránce](#)).

**Oživení je od července 2015 jediným poskytovatelem GlobaLeaks v ČR.**

Příjemci Vašeho oznámení budou vždy respektovat Vaši anonymitu, ať jste již vybrali variantu podání důvěrného oznámení nebo via Tor, který zajišťuje jak Vaši anonymitu, tak chrání obsah Vašeho sdělení v kyberprostoru. V případě, že použijete podání via Tor, nemůžeme ovšem zaručit anonymitu Vašeho

**Oznamte korupční jednání bezpečně a anonymně pomocí zabezpečeného rozhraní GlobaLeaks.**



[Chci oznámit nekalost](#)

GlobaLeaks je open source projekt zaměřený na vytvoření platformy pro bezpečné a anonymní oznamování nekalých jednání

**K nekalému jednání dochází mnohem častěji, než je medializováno. Dokazují to kauzy z naší právní poradny:**

# Pistoljka: Anti Corruption Activism

<http://pistoljka.rs/>



Initiative supported by:



Structured workflow of operation for Serbian wholesale anticorruption initiative



# Public Agencies

# Anticorruption in the Public Sector Italy



Azienda Sanitaria Locale  
della provincia di Brescia

<http://www.aslbrescia.it>  
ASL Brescia  
(Italian local public health  
agency)



<https://www.curiamolacorruzione.it>  
6 ASL in partnership with TI-it



<http://www.autovievenete.it>  
Venice's Region  
Highway Company



**RIEMERGO**  
SPORTELLO LEGALITÀ  
DELLE CAMERE  
DI COMMERCIO  
LOMBARDE

<https://www.sportelliriemergo.it>  
12 Lombardy Region  
Chambers of Commerce

Hai già effettuato una segnalazione? Inserisci il tuo key code.

XXXX XXXX XXXX XXXX

Accedi

Voglio fare una segnalazione in merito a

BARI - Asl



CATANIA - Policlinico Vittorio Emanuele



CATANZARO - Asp



MELEGNANO E MARTESANA - Asst



ORBASSANO (TO) - AOU San Luigi Gonzaga



RAGUSA - Asp



SALERNO - Aou San Giovanni di Dio e Ruggi d'Aragona



SARDEGNA - Ats



SIRACUSA - Asp



## Don't let your boss rob your benefits

Over **12,000 Employers** are not remitting their workers' savings. Your benefits are at stake and only you can protect them. There's a better way of getting what's yours.

*I'm here to*  
**ASK**  
**QUESTIONS**

*I'm here to*  
**BLOW**  
**THE WHISTLE**

*I'm here to*  
**CONFIRM MY**  
**EMPLOYER IS PAYING**  
**MY NSSF**

### Blow The Whistle

Over **12,000 employers** are not remitting their worker's savings. Your benefits are at stake and only you can protect them.

Simply click '**Blow the Whistle**' on your right to securely and anonymously blow the whistle and share information on non-compliance. Sneak up today and protect your benefits.

[nssf.julisha.org/#/](https://www.nssf.julisha.org/)

Click Below to Submit a Tip

Blow the whistle

Have you already filed a submission? Enter your key code.

XXXX XXXX XXXX XXXX

Log in

**NSSF Whistleblower- Uganda's National Security Pension Fund**

<https://www.nssf.julisha.org/>



# **Transparency International Italy**

## **ALAC: Case Study**

# Information Quality



- Rules number 1: Reduce the noise!
- Increase information quality with:
  - Structured questionnaires
  - Required fields
  - Vertical/Focused questions
  - Periodic review of questionnaires
- A submission should take 5 minutes

# Expectations



- Be very clear on Whistleblower's expectations
- Very clear statements on:
  - What can be sent and what not
  - What receiver will do and what will NOT do

# Trustworthiness



- Overall strategy to improve “trustworthiness”
  - All website in HTTPS (including public ones)
  - “No Logs” policy (including declared data retention policy)
  - Data Retention Policy
  - Use of trustworthy software
    - GlobaLeaks for Whistleblowing Security
    - Tor Browser for Digital Anonymity

# Whistleblowers Identity



- Giving Whistleblowers “options”

<b>Submission Security</b>	<b>Whistleblower Identity</b>	<b>Secure Technology</b>
<b>Confidential</b>	<b>Declared</b>	<b>HTTPS</b>
<b>Anonymous</b>	<b>Undeclared</b>	<b>HTTPS</b>
<b>Maximum Security</b>	<b>Undeclared</b>	<b>Tor</b>

- Most whistleblowers disclose their identities

# Submission Processing



- Not everything that gets submitted is “a case”
- Define pre-qualification criteria & procedures
- Once a submission becomes a case “be fast!”
- Gives a feedback to the Whistleblower within a ~24/48h to get more information
- Gives a date to give out an update/outcome!

# How to setup a Whistleblowing initiative?

Questions to ask

## What do you want to achieve?

Define your whistleblowing project goals





## The “Leaks”



- Which information are you looking for?
- How do you qualify the information received?
- What do you realistically expect to receive?

# Whistleblowers

- Who are the sources/whistleblowers likely to send you information?
- What are the motivations driving a source/whistleblower to send you an information?
- Which languages are spoken by whistleblowers?



# What Do You Do With The Leaks?

**What are you going to do with information received?**

**How you are going to verify/fact-check them?**

**Who are the persons involved in handling the leaks?**

**Did you clearly, publicly documented your data management & editorial policy?**

# Assess Your Organizational Capacity

- How do you organize yourself?
- Do you have all the relevant skills and effort available to run the project?



<b>Role</b>	<b>Duties</b>	<b>Estimated weekly hours</b>	<b>Who is in charge of that role?</b>
<b>Project Manager</b>	<i>Management of the launch of the initiative, coordination of activities and team's collaboration tools. Can manage GlobaLeaks.</i>		
<b>Graphics &amp; Design</b>	<i>Creation of graphical artifacts (e.g. logos, images, infographics, etc.).</i>		
<b>Webmaster</b>	<i>Setup and management of Public website of the initiative.</i>		
<b>Communication &amp; Advocacy</b>	<i>Communication of initiative, targeted campaigning of public to encourage whistleblowing, advocacy of initiative.</i>		
<b>Fact-Checkers (Receivers)</b>	<i>Verification, Redaction, Analysis, Formatting, Publishing of Submissions.</i>		
<b>System Administrator</b>	<i>Setup and maintenance of the technical facilities to run all the initiatives (GlobaLeaks, Website, technical assistance to the staff). Can manage GlobaLeaks.</i>		
<b>Security Advisor</b>	<i>Advice and counseling to staff, related to issues of privacy and security.</i>		
<b>Legal Advisor</b>	<i>Advice and counseling to staff, related to legal matters.</i>		

# Legal Framework

- **Did you assess your legal risks in soliciting whistleblowers and taking actions on received information?**
- **Which are the legal liabilities of the different stakeholders (Whistleblowers, Receivers, Maintainer)?**
- **Are you operating as informal individual group or as a legal entity? Who's liable for that?**

# Communication & Campaigning

- **Leaks are not coming alone, you need to solicit them!**
- **What's your media strategy?**
- **How you are going to campaign?**
- **How you will manage critics coming to you?**
- **Do you have partners to work with?**
- **Are you going to “surf the news” with targeted-campaign?**

# Operational Security

- Who is interested in acquiring the “leaks”? What are their capabilities?
- How do you protect the information you receive?
- How do you protect the communication among the people taking actions on the leaks?

# Whistleblower Security

- Do you understand the risks that the Whistleblower is facing?
- Did you clearly communicate the “social” and “technological” risks to the whistleblower?
- What level of protection are you providing to the whistleblower?

# THANK YOU FOR THE ATTENTION



Please feel free to reach out!

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