

Still thinking about your Ex(cel)? Here are some TIPs

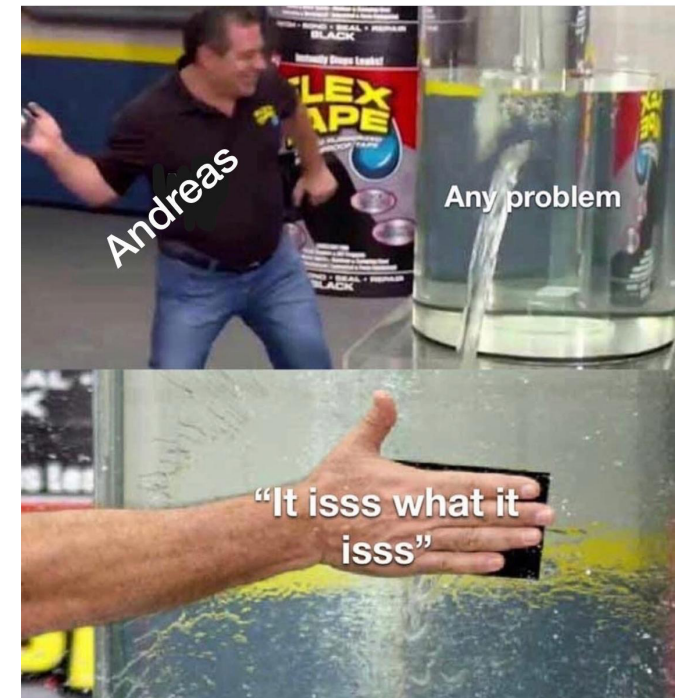
The past, present, and future of Threat Intelligence Platforms (TIPs)

Andreas Sfakianakis
SANS CTI Summit 2021



who am I

- CTI Lead EMEA @ S&P Global
- CTI @ Financial and Oil & Gas sectors
- ENISA, FIRST.org, SANS, European Commission
- Twitter: [@asfakian](https://twitter.com/asfakian) Website: www.threatintel.eu

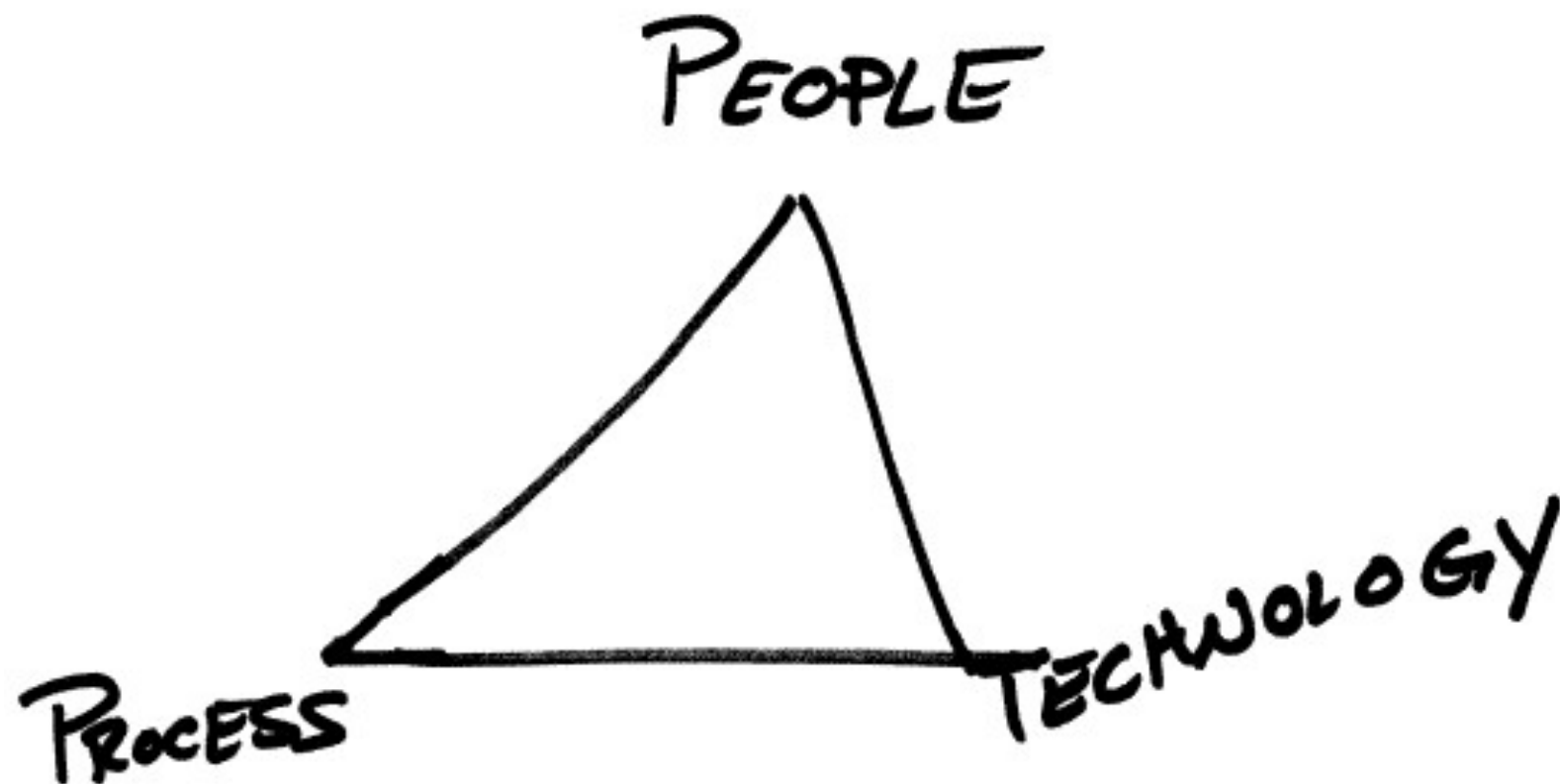


Disclaimer

- Original authors are referenced within the slide deck
- Resources for this presentation: <https://bit.ly/ctisummit2021>
- This is a vendor agnostic presentation
- Views are my own



What about technology supporting CTI operations?



Outline

The brief
history of TIPs

Current state
of TIPs

Looking ahead



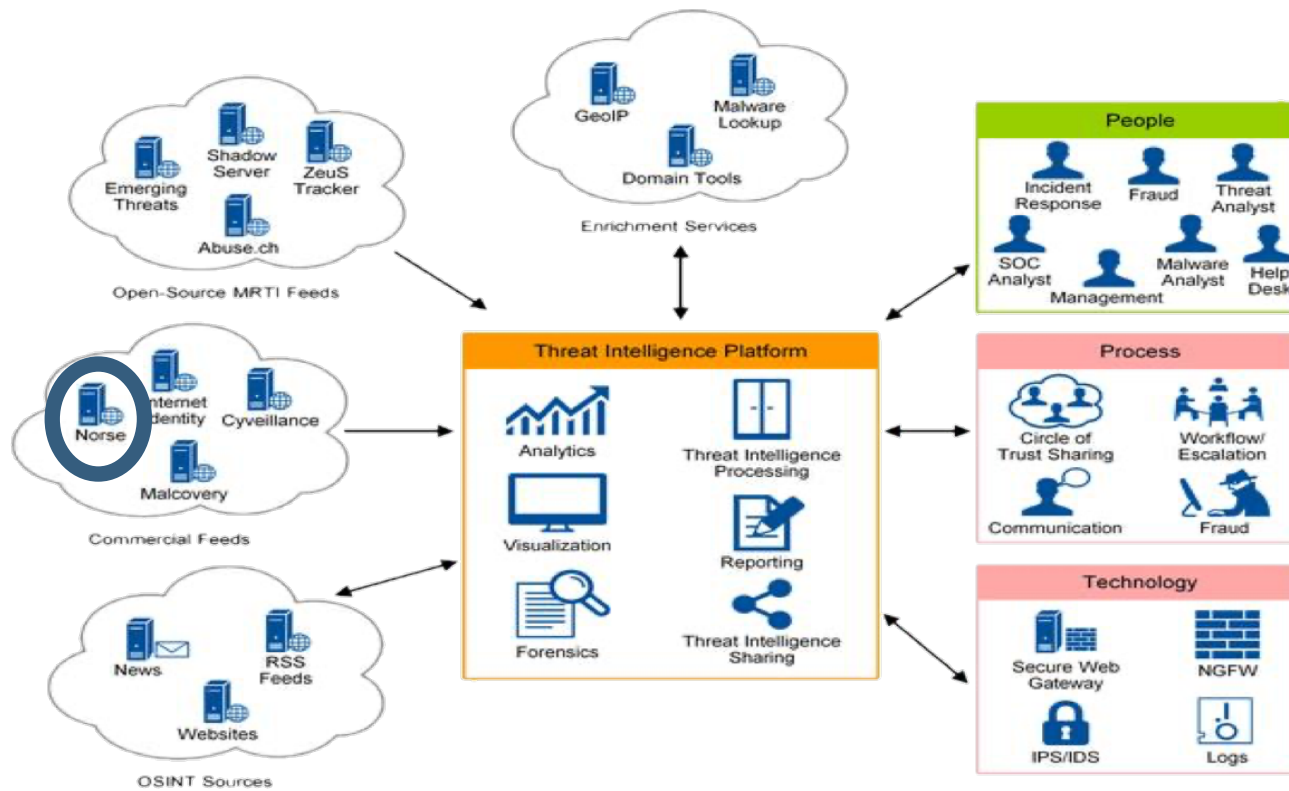
The brief history of TlPs

(Past)



What is a Threat Intelligence Platform (TIP)?

(2014 version)



Reference: Gartner

IOCs -> TIP -> security stack

Threat team knows!

Enrich and analyze all the things!?

Share! Share! Share!

Intelligence lifecycle support



TIP landscape



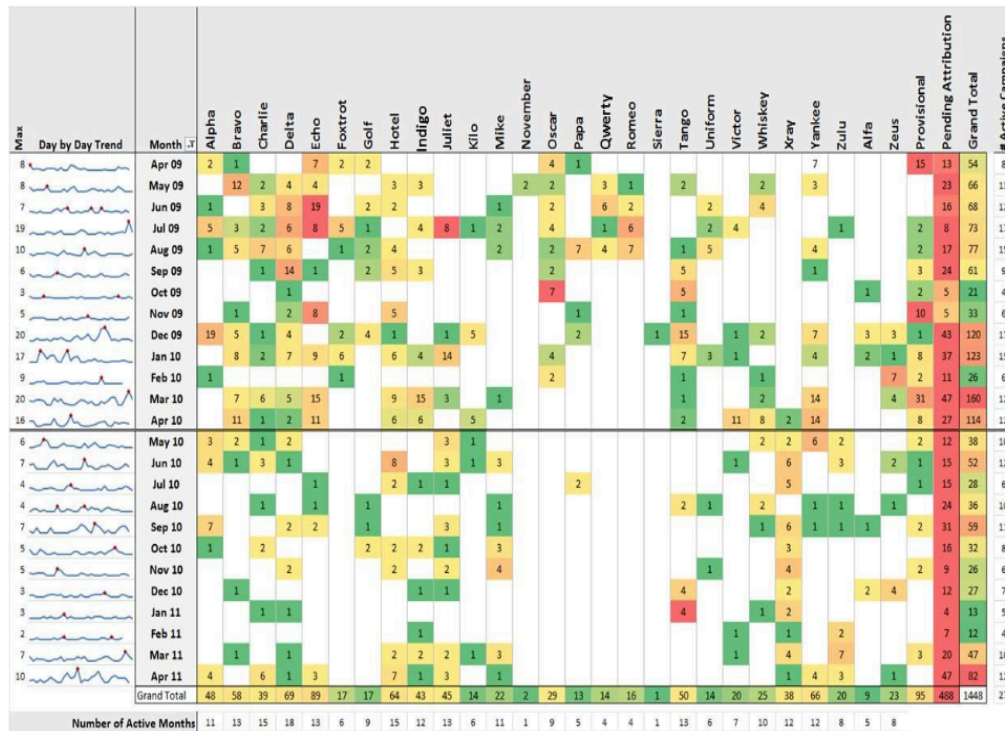
Open Source

Commercial

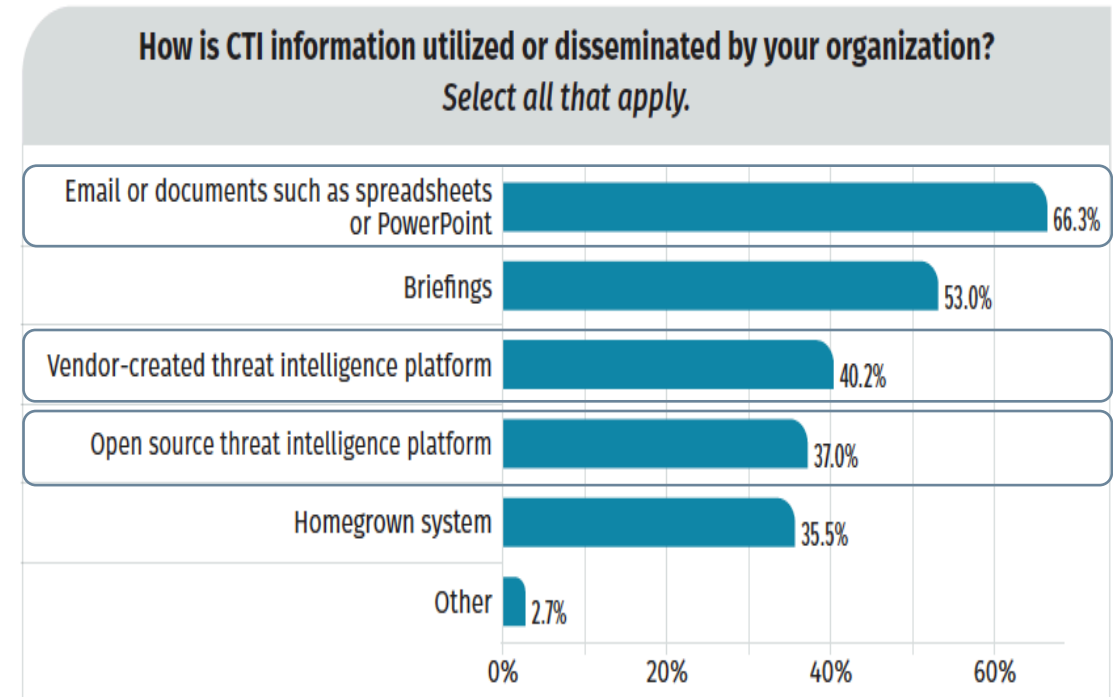
Community Exchange Platforms



Excel the first TIP



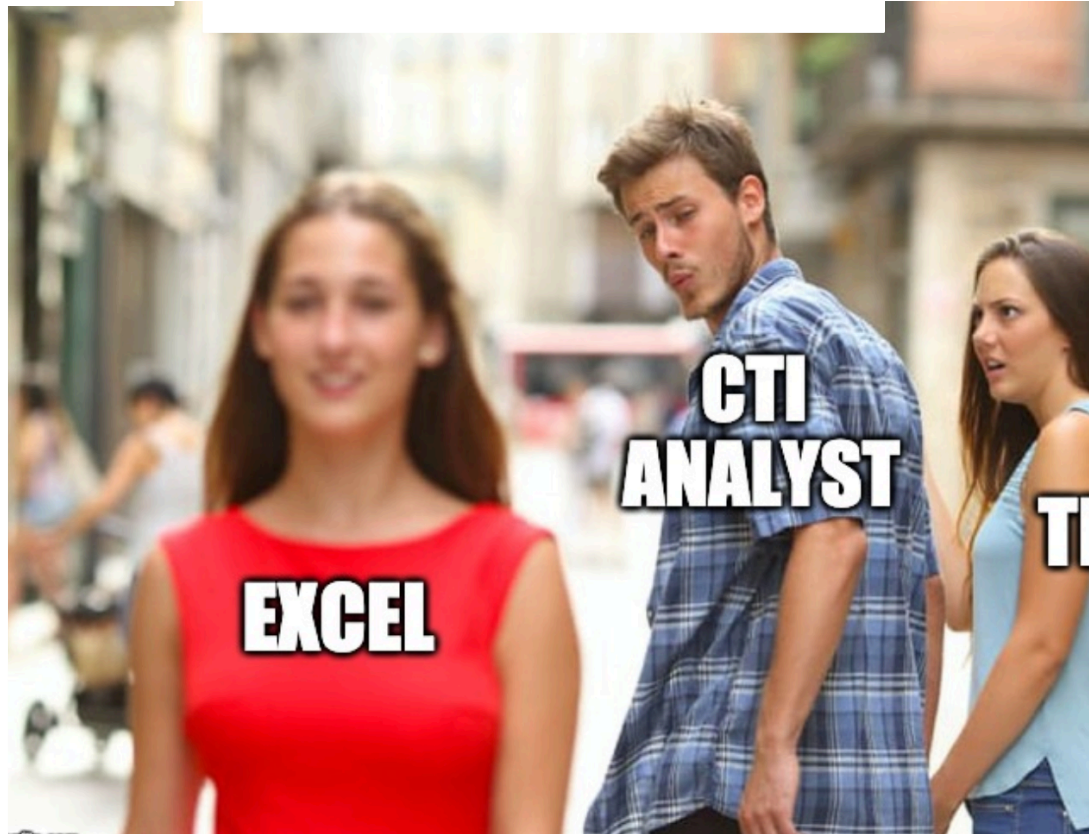
Reference: Lockheed Martin



Reference: SANS



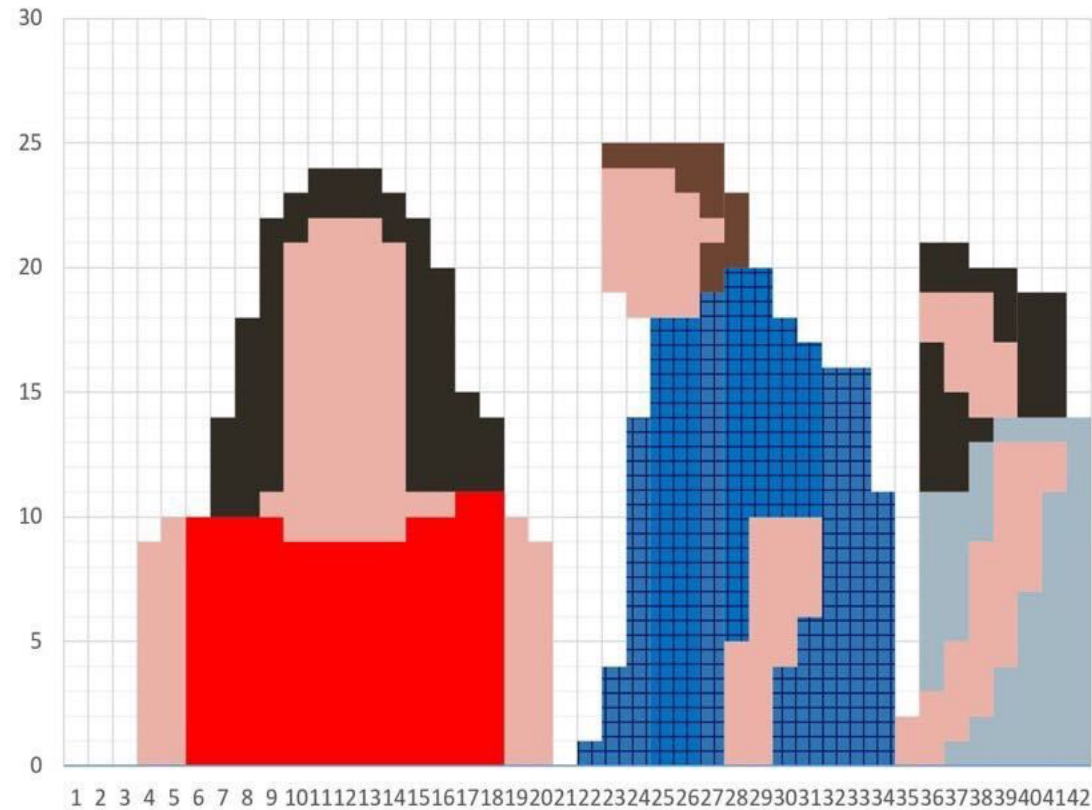
Do you still think about your ex?



Reference: https://twitter.com/_daviant/status/1253039113151938562



Do you still think about your ex?



Reference: https://twitter.com/_davian/status/1253039113151938562



Recap

The brief history of TIPs

- Emerging technology with loose definition
- Different shades of TIPs
- Variety of management tools to support CTI

The TIP is the quarterback that orchestrates your intelligence work.



Reference: Rick Holland



Resources

The brief history of TIPs

- SANS CTI Surveys
- Rick Holland - Threat Intelligence Awakens, Threat Intelligence Is Like Three Day Potty Training
- S. Brown, J. Gommers and O. Serrano - From Cyber Security Information Sharing to Threat Management
- Scott J Roberts - Community Intelligence & Open Source Tools: Building an Actionable Pipeline
- FireEye - Excelerating Analysis

Resources for this presentation: <https://bit.ly/ctisummit2021>

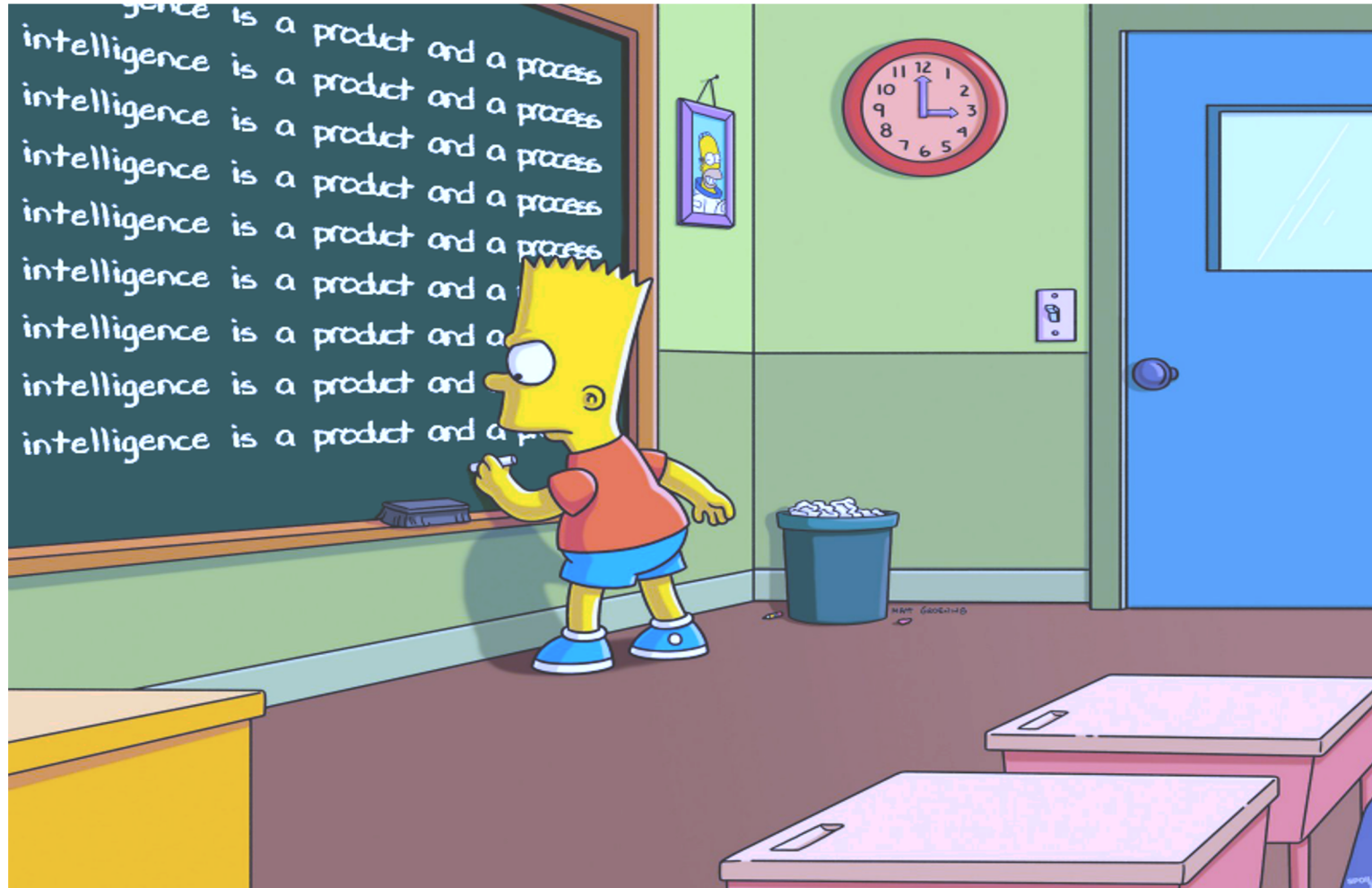


The current state of TIPs

(Present)



CTI 101



Please welcome the intelligence cycle

”Your intelligence program’s maturity is based on your ability to do each part of the intelligence cycle”

Reference: Intel471



Exceling at TIP requirements



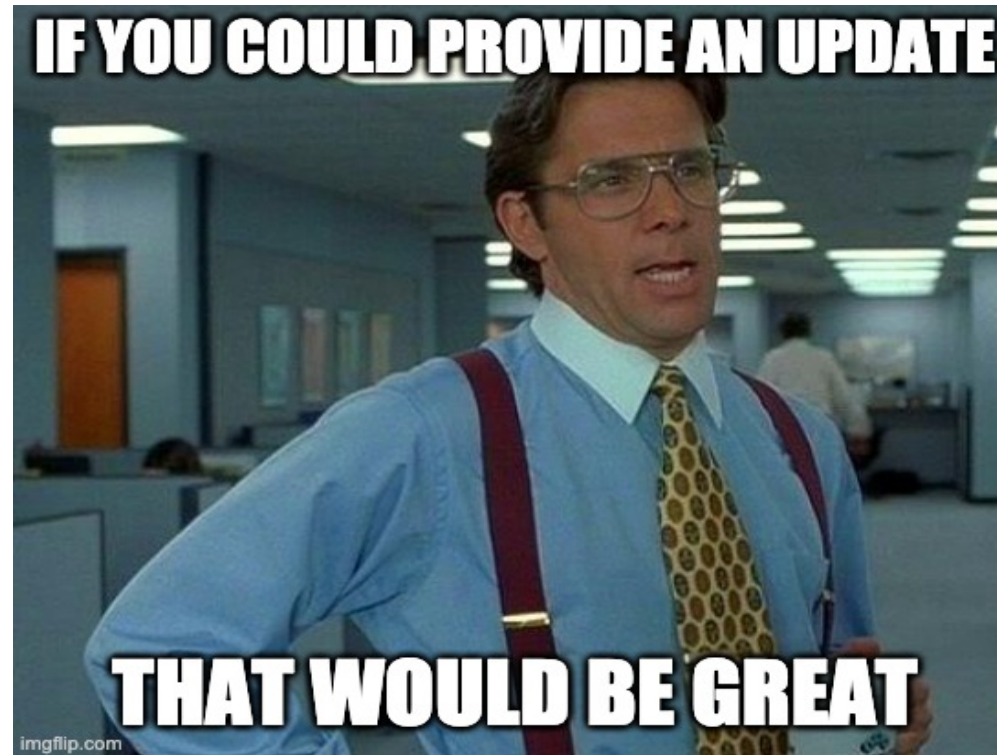
Annex B: Detailed TIP functional requirements

Excel sheet for TIP functional requirements can be found in GitHub link below

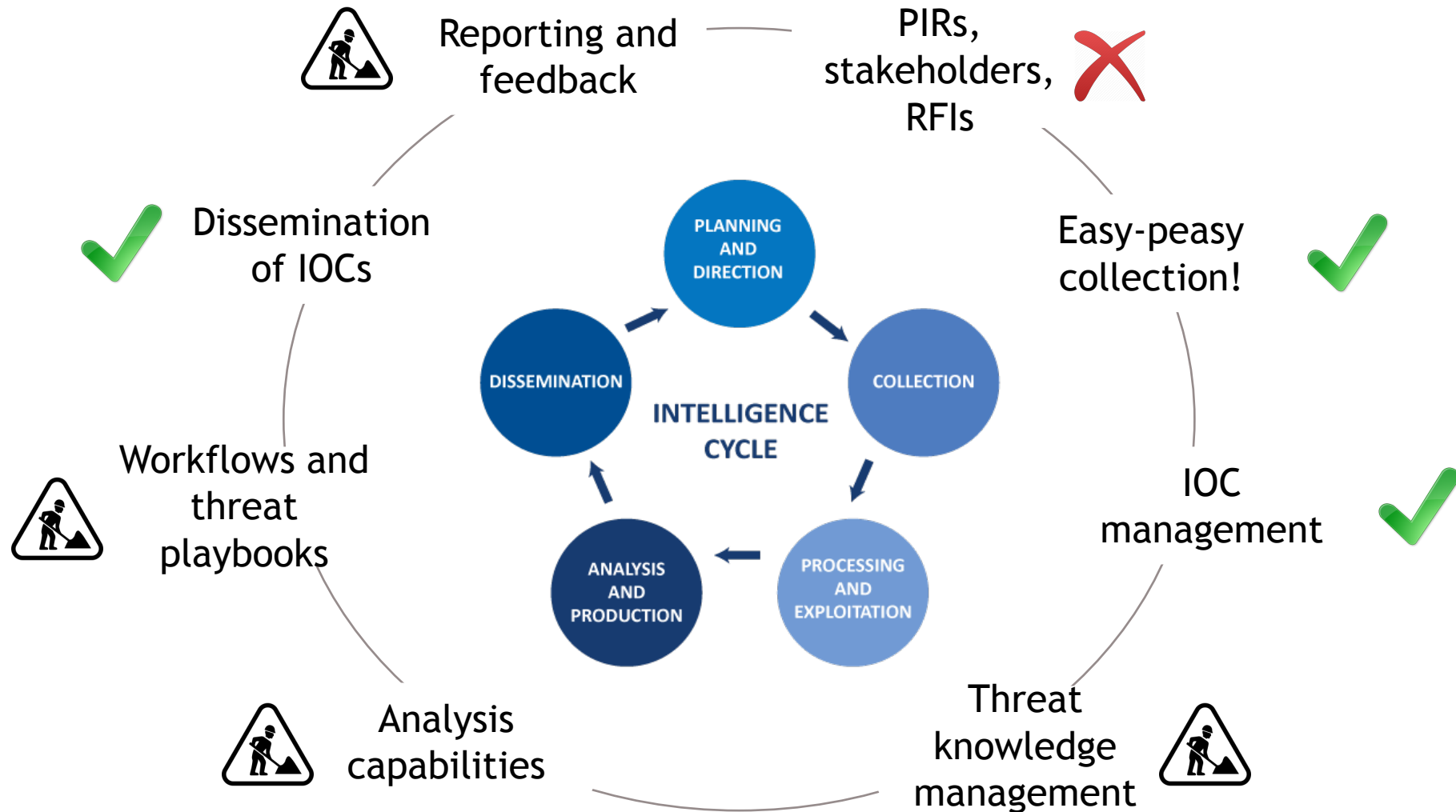
Resources for this presentation: <https://bit.ly/ctisummit2021>



But what about the current state of TIPs?



Let's walk again the intelligence cycle



Recap

The current state of TIPs

- Focus on collection, IOC management, normalisation, and IOC dissemination
- Transitioning from IOC management to threat knowledge management
- Limited support for intelligence lifecycle end to end

CURRENT STATUS



MAKING PROGRESS
BUT STILL A LONG WAY TO GO



Resources

The current state of TIPs

- ENISA - Exploring the opportunities and limitations of current Threat Intelligence Platforms
- Andy Piazza - An Analyst's Need for a Threat Intelligence Platform
- SEI Carnegie Mellon University - Cyber Intelligence Tradecraft Report
- C. Sauerwein, C. Sillaber, A. Mussmann and R. Breu - Threat Intelligence Sharing Platforms: An Exploratory Study of Software Vendors and Research Perspectives
- threatintel.eu - Exceling at Threat Intelligence Platform (TIP) requirements

Resources for this presentation: <https://bit.ly/ctisummit2021>

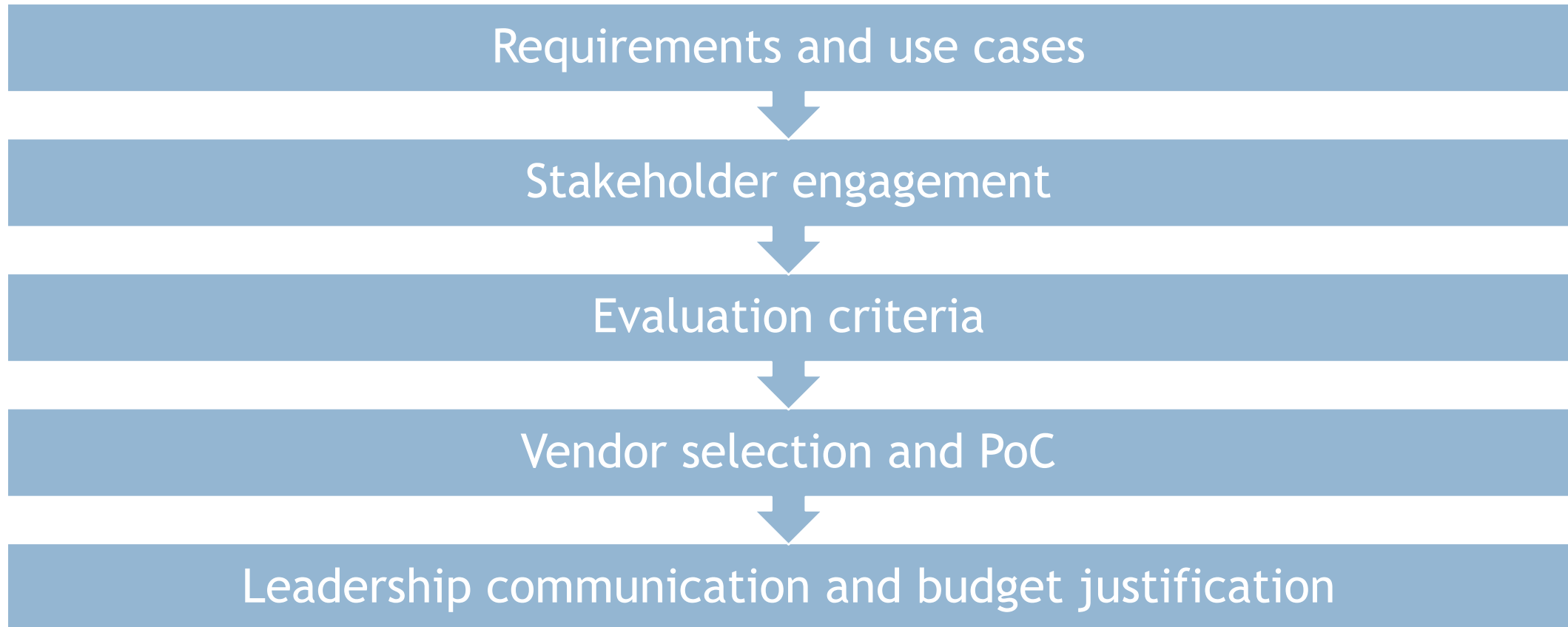


Looking ahead

(Future)



What's the best TIP for my org?



Best practices for CTI teams

Requirements

Style Guide

SOPs and
Playbooks

Feedback



Recommendations for TIP vendors and developers

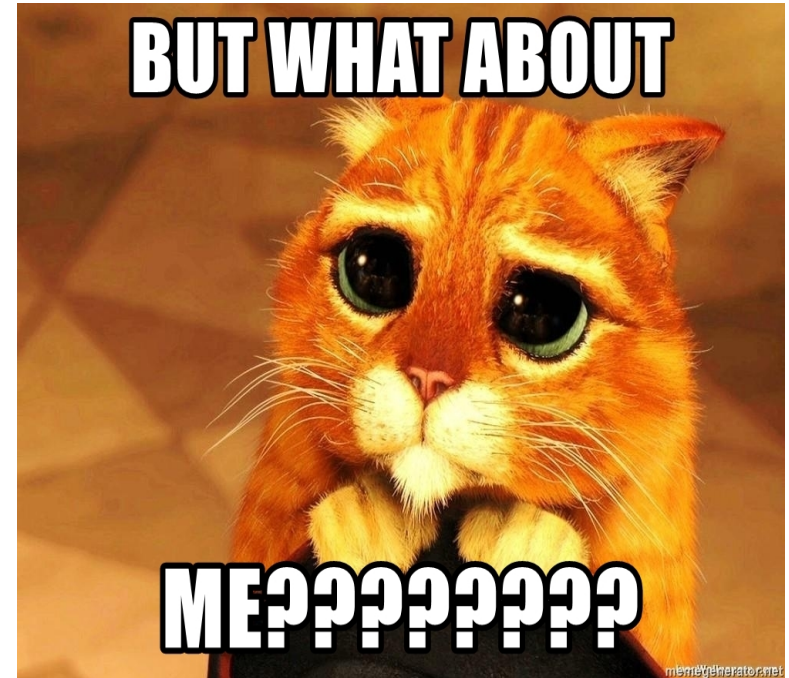
Current state of the TIP landscape

Strive for feedback

CTI analyst focused

Educate your customers/end users

Communicate your roadmap



The Future of TIPs



Recap

Looking ahead

- Best practices for selecting and using TIPs
- Recommendations for TIP vendors and developers
- The future of TIPs



Reference: Andy Piazza



Resources Looking ahead

- BSidesNOVA - Jason Wonn - TIP of the Spear: A Threat Intelligence Platform Acquisition
- Andy Piazza - An Analyst's Need for a Threat Intelligence Platform
- FIRST CTI 2019 - Pasquale Stirparo - Your requirements are not my requirements
- Frost & Sullivan - Assessment of the Global Threat Intelligence Platforms Market, Forecast to 2022
- ENISA - Exploring the opportunities and limitations of current Threat Intelligence Platforms

Resources for this presentation: <https://bit.ly/ctisummit2021>



Final Remarks

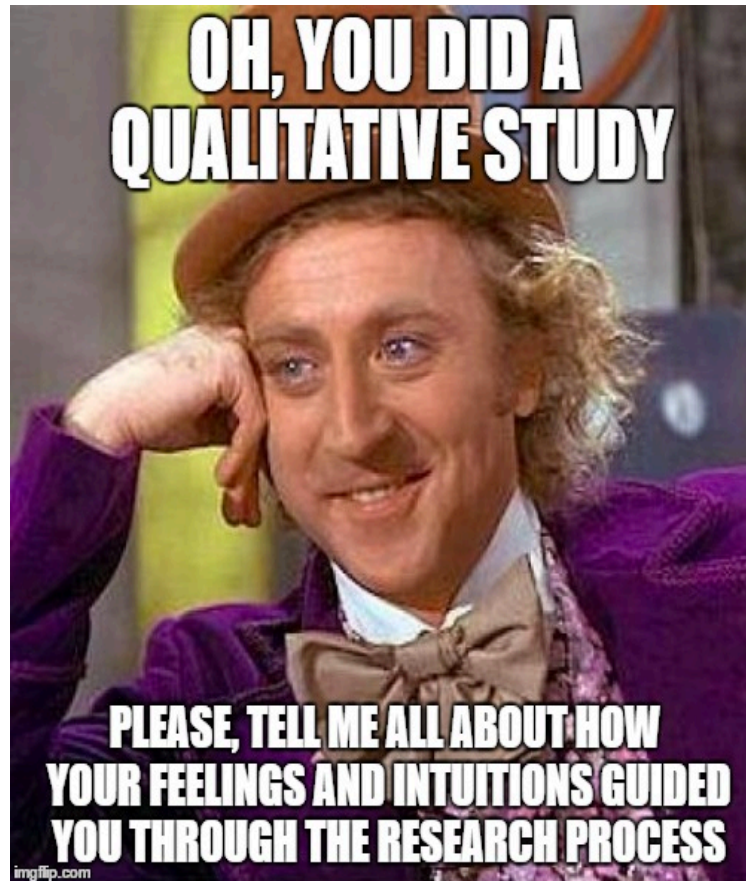


Final Remarks

- Support CTI with a variety of integrated tools
- Follow best practices for selecting and using your TIP
- It takes two to tango... and further mature



Thanksgiving slide



Thanksgiving slide

CTI PROS

Razvan Gavrilă
Chris Beard
Sarah Brown
Alexandre Dulaunoy
Jane Ginn
Pasquale Stirparo
Omid Raghipi
Jason Wonn
Andy Piazza
Derek Buchanan
Samantha Loh
Megan Kaczanowski
Pierre Lamy

TIP VENDORS

D3 Intelligence - Brian Mohr
QuoLab Technologies - Fabien Dombard
TruSTAR - Shimon Modi
Analyst1 - P. Terry, C. Hoffman, J. Nixon
Anomali - Frank Lange
ThreatConnect - Andrew Pendergast
EclecticIQ - Aukjan van Belkum, Mark Huijnen
IntSights - Yuval Inchi
LookingGlass - Allan Thomson

MARKET RESEARCH

Forrester - Brian Kime

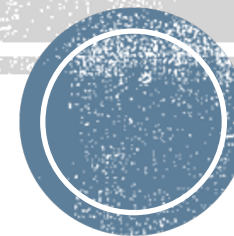




Thank you!

Andreas Sfakianakis

@asfakian



Resources for this presentation: <https://bit.ly/ctisummit2021>

