

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

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

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# who am I

- CTI Lead EMEA @ S&P Global
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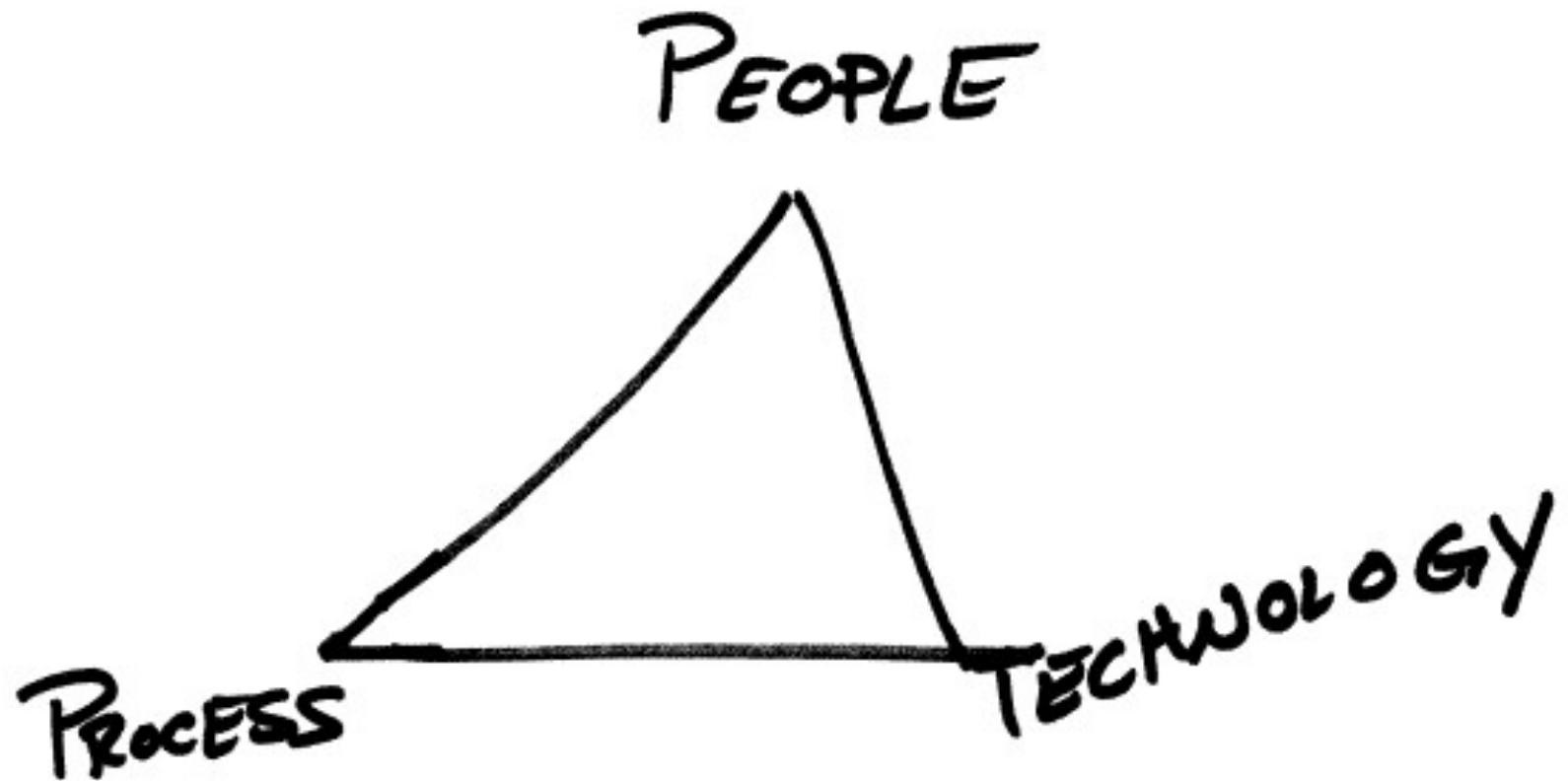


# Disclaimer

- 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?

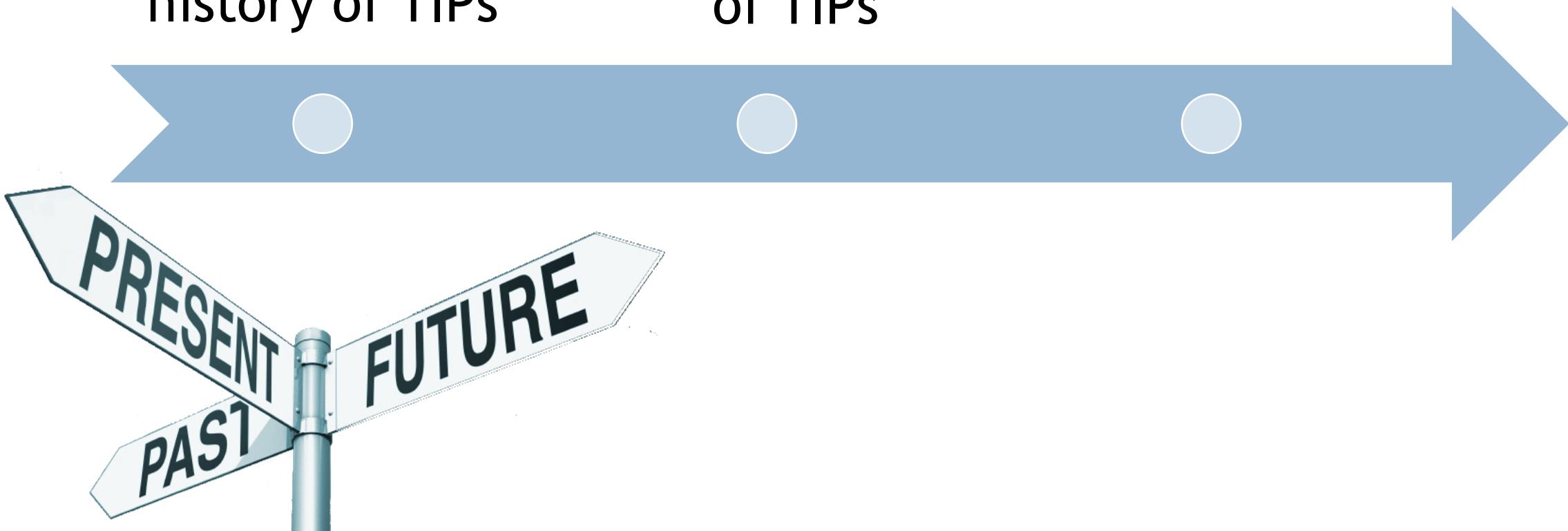


# Outline

The brief  
history of TIPs

Current state  
of TIPs

Looking ahead



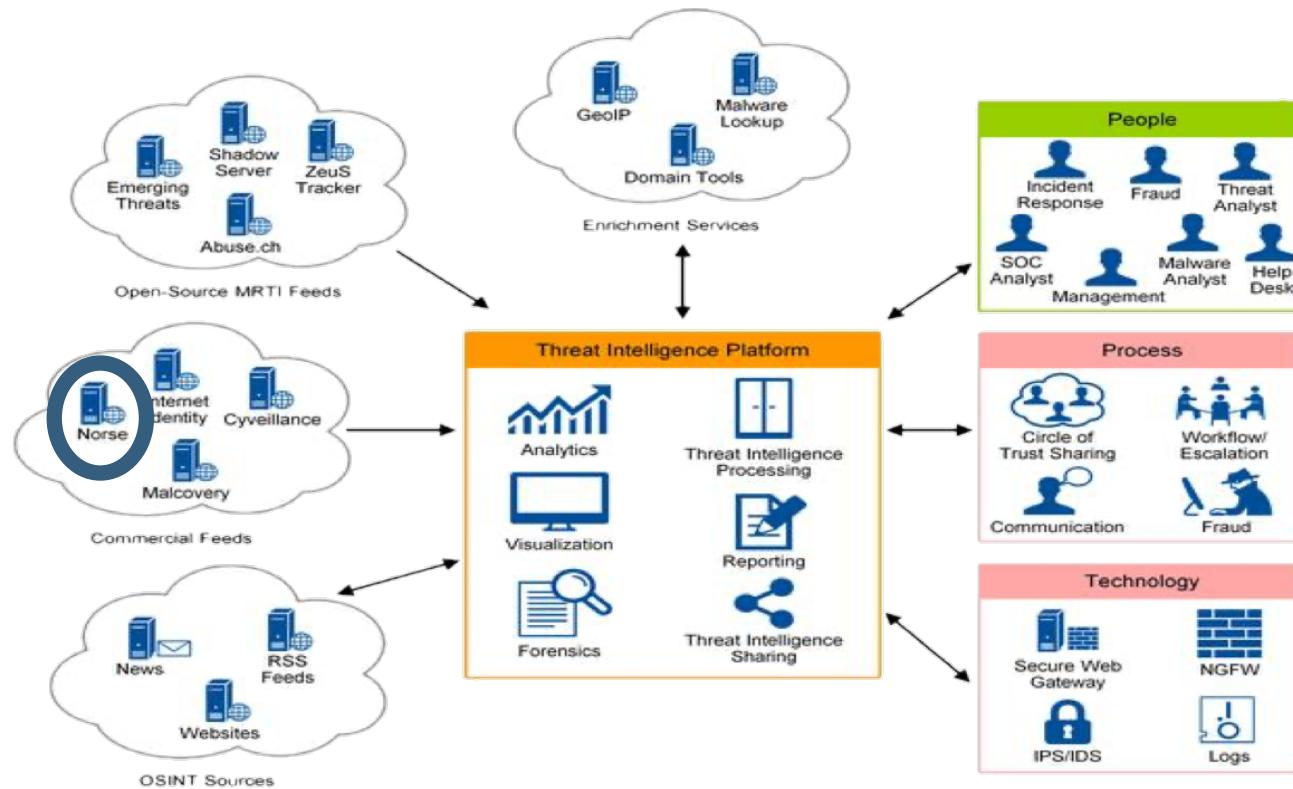
# The brief history of TIPs

(Past)



# What is a Threat Intelligence Platform (TIP)?

(2014 version)



Reference: Gartner

IOCs -> TIP -> security stack

Threat team knows!

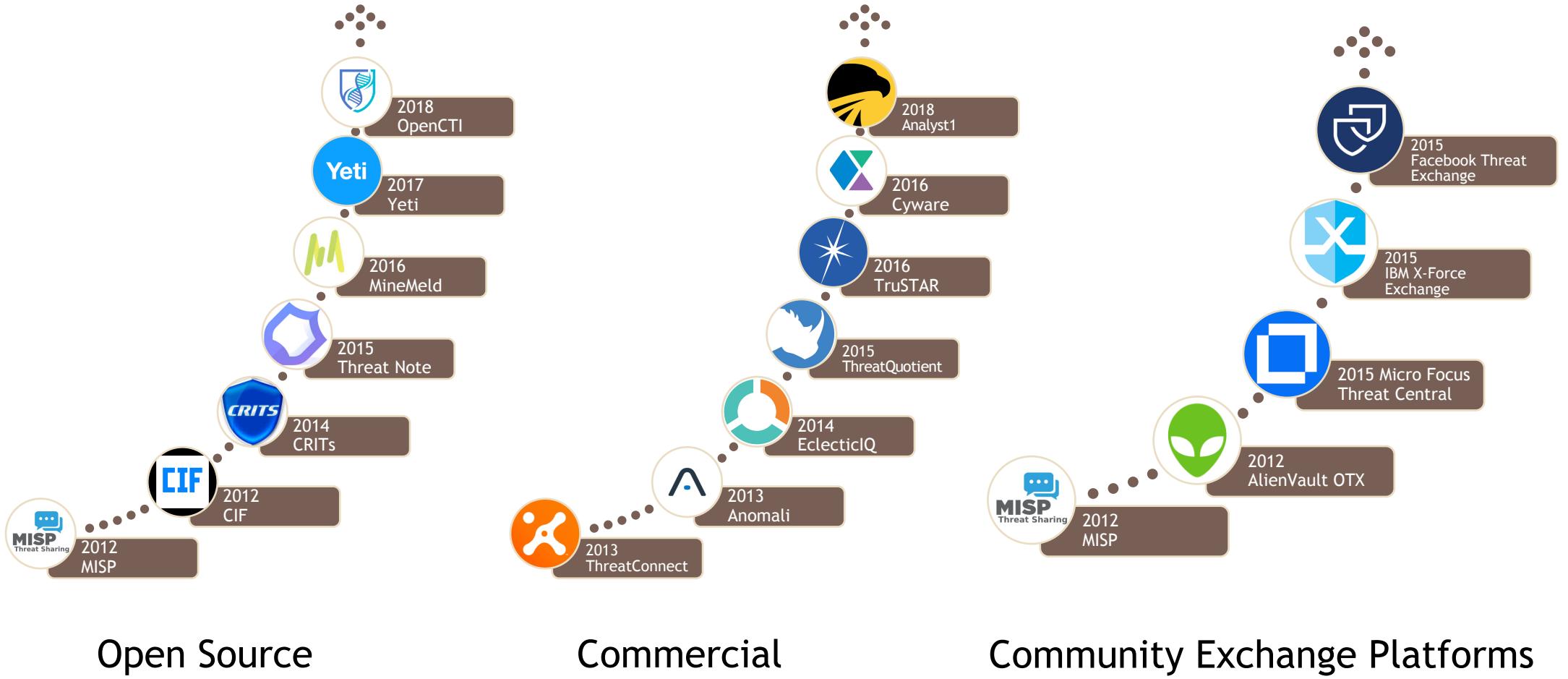
Enrich and analyze all the things!?

Share! Share! Share!

Intelligence lifecycle support



# TIP landscape



Open Source

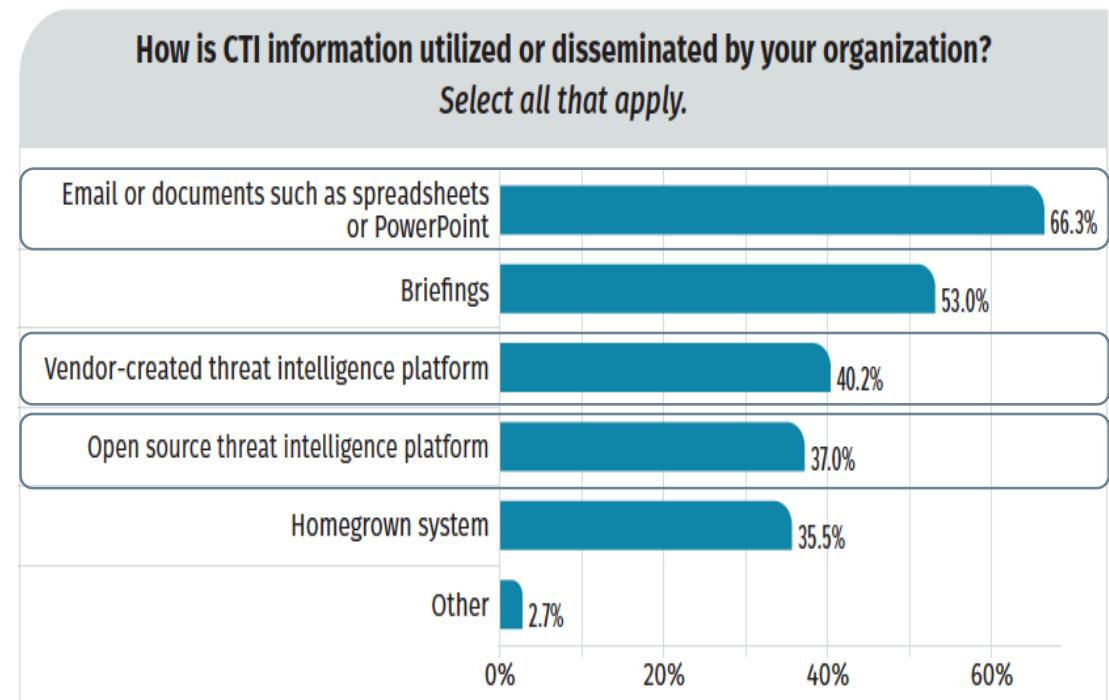
Commercial

Community Exchange Platforms

# Excel the first TIP



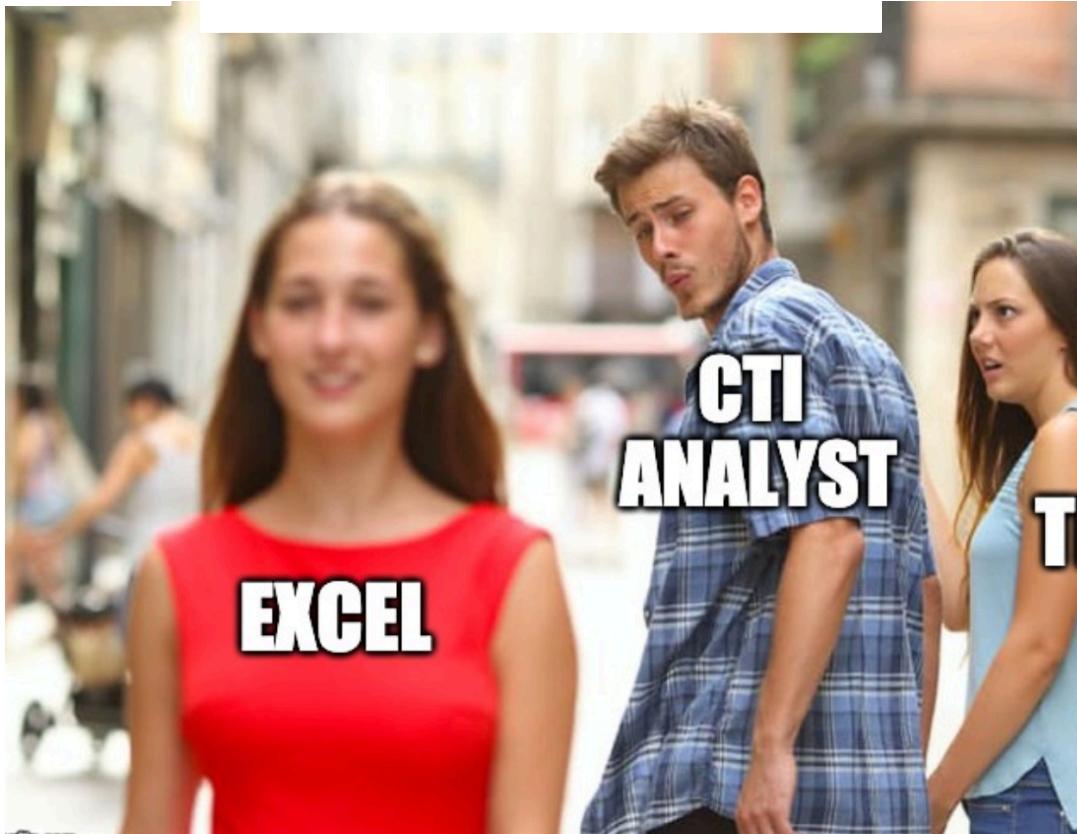
Reference: Lockheed Martin



Reference: SANS



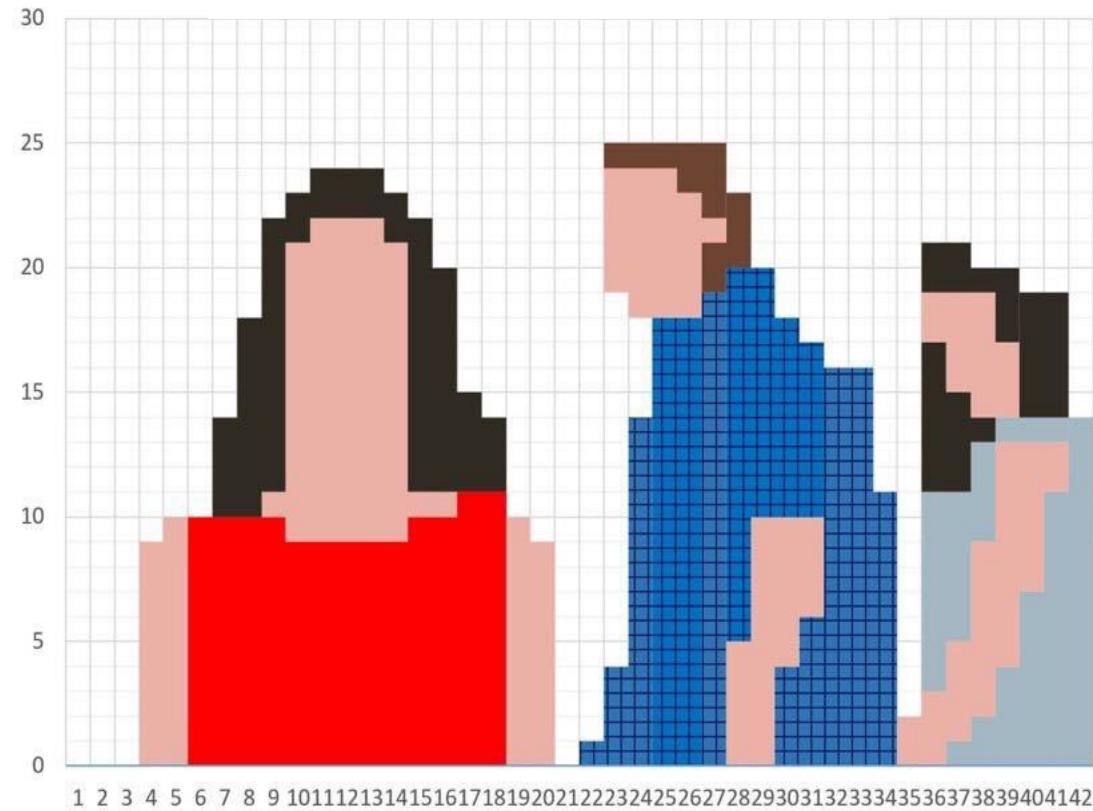
# Do you still think about your ex?



Reference: [https://twitter.com/\\_daviant/status/1253039113151938562](https://twitter.com/_daviant/status/1253039113151938562)



# Do you still think about your ex?



Reference: [https://twitter.com/\\_daviant/status/1253039113151938562](https://twitter.com/_daviant/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>

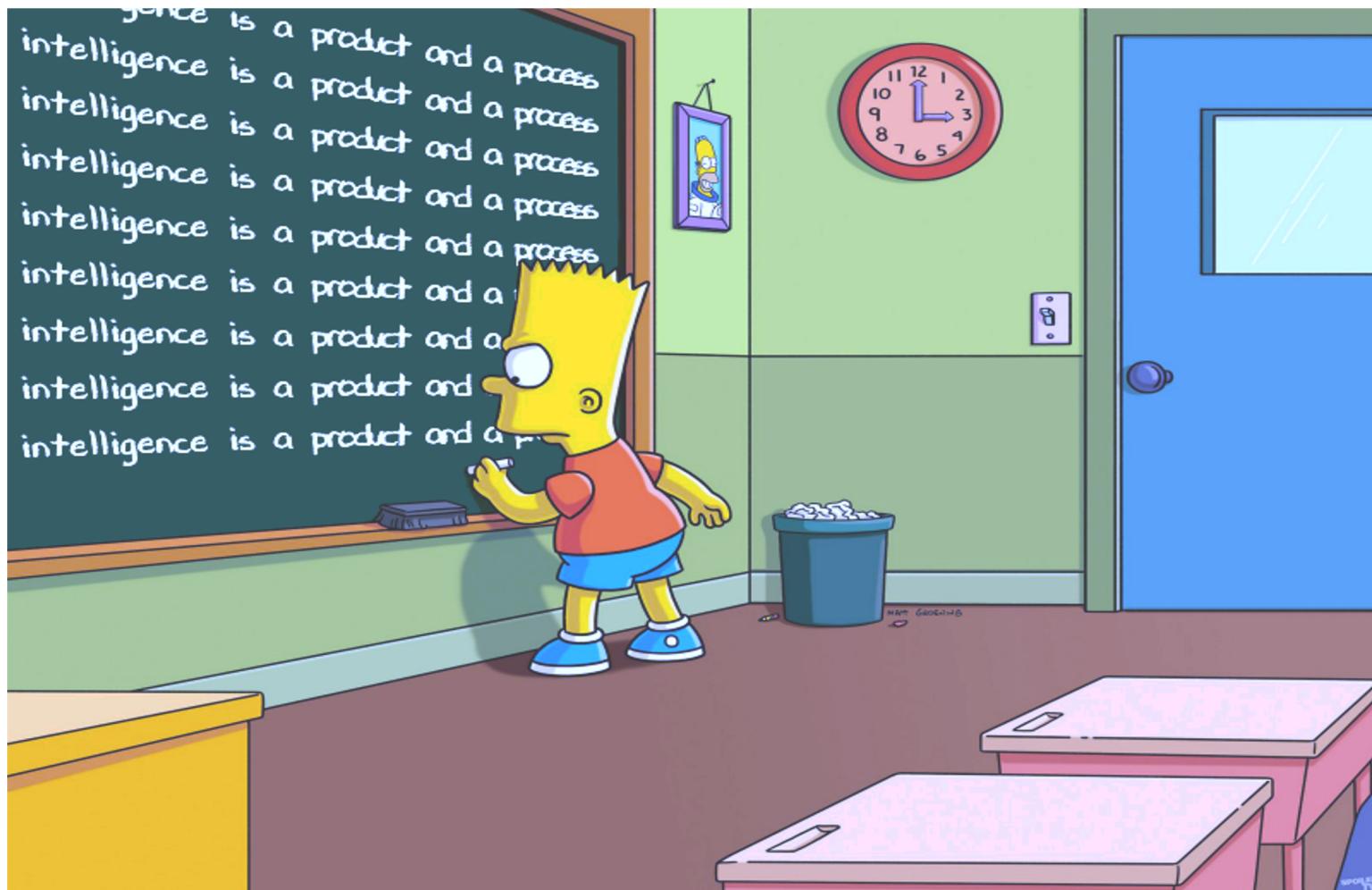


# The current state of TIPs

(Present)



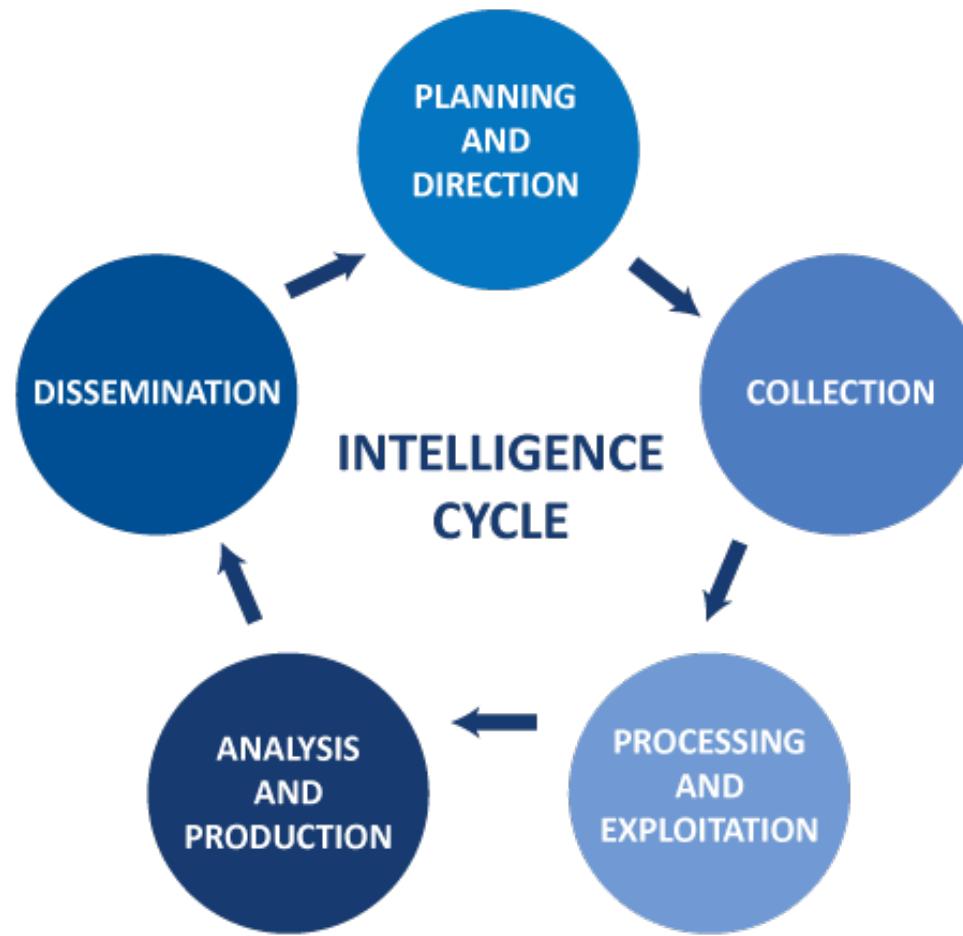
# CTI 101



# 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



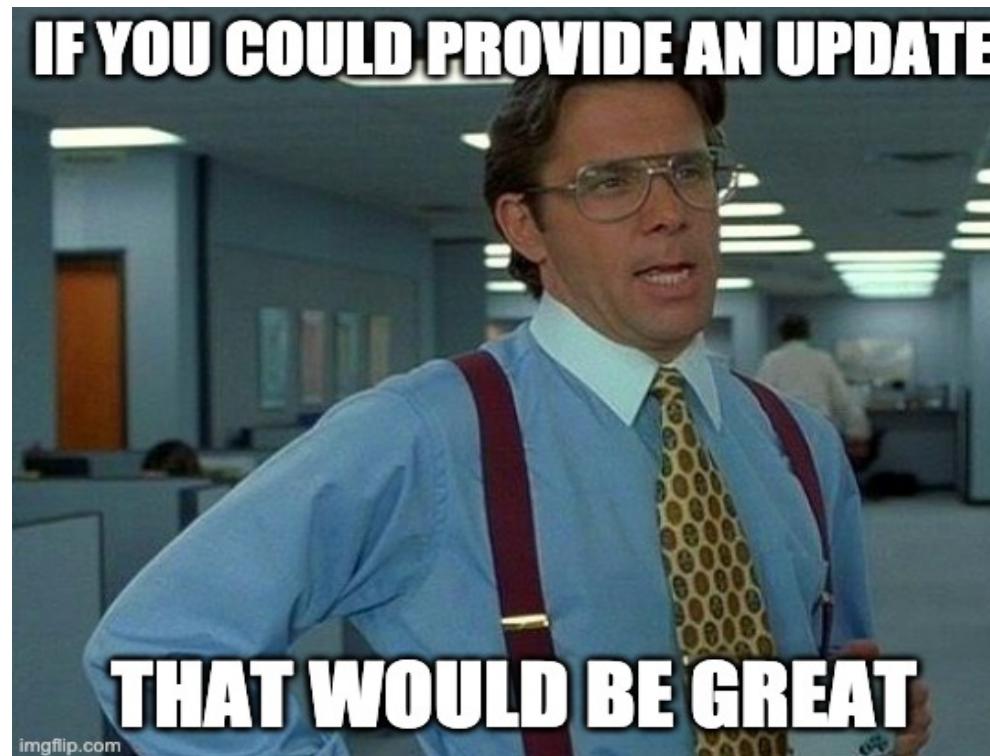
Annex B: Detailed TIP functional requirements

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

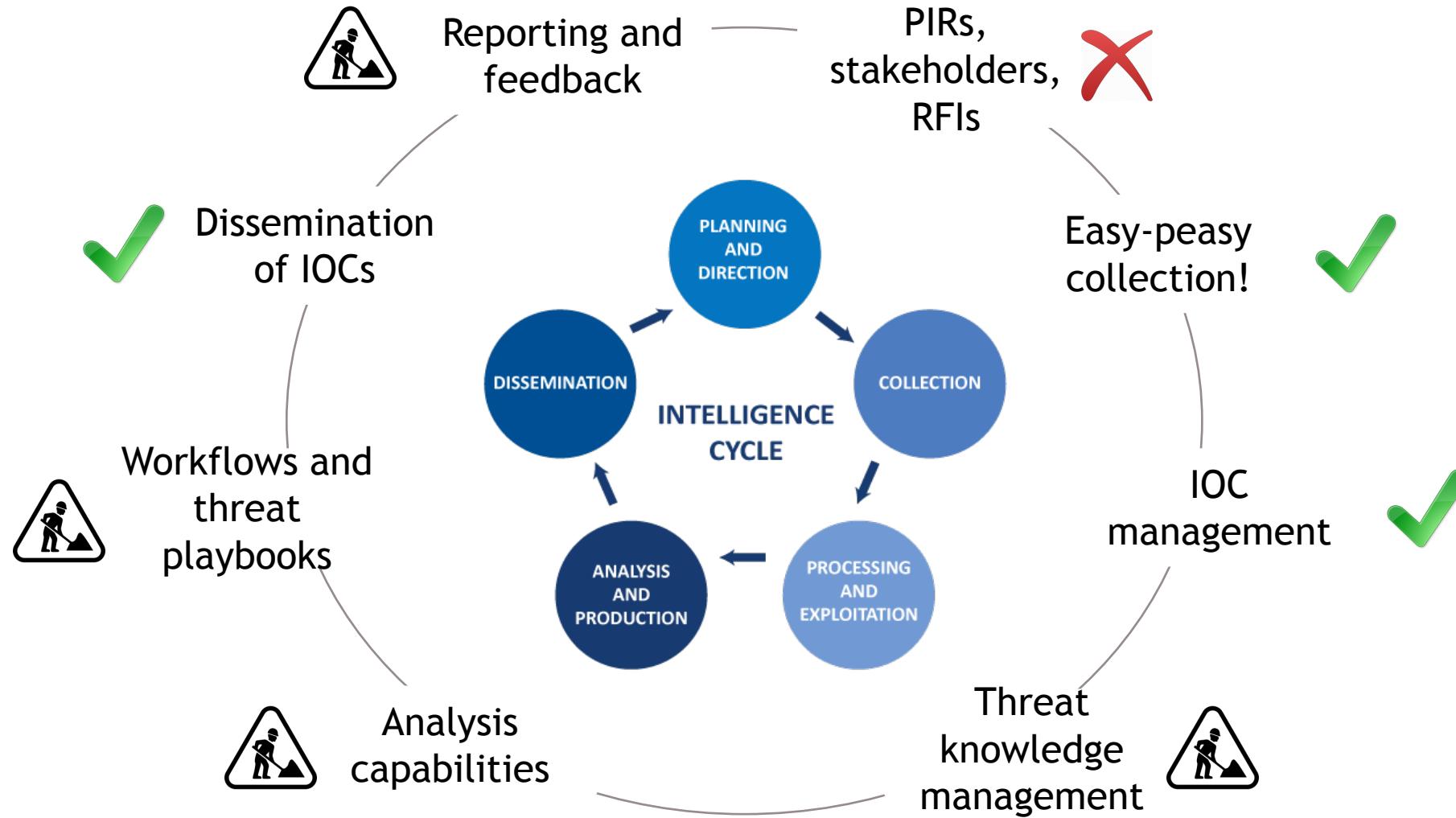
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# But what about the current state of TIPs?



# 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>



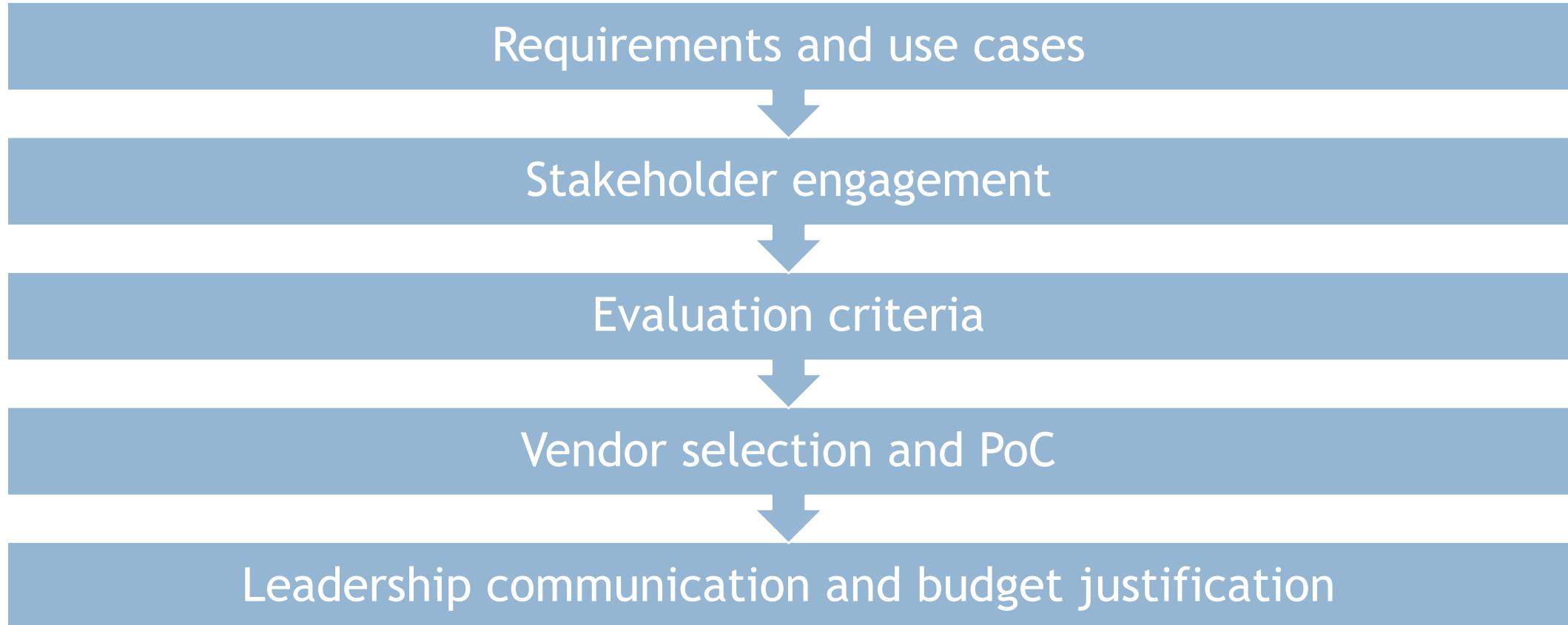


# **Looking ahead**

(Future)



# What's the best TIP for my org?



Reference:

Jason Wonn / Andy Piazza



# Best practices for CTI teams

Requirements

Style Guide

SOPs and  
Playbooks

Feedback



# Recommendations for TIP vendors and developers

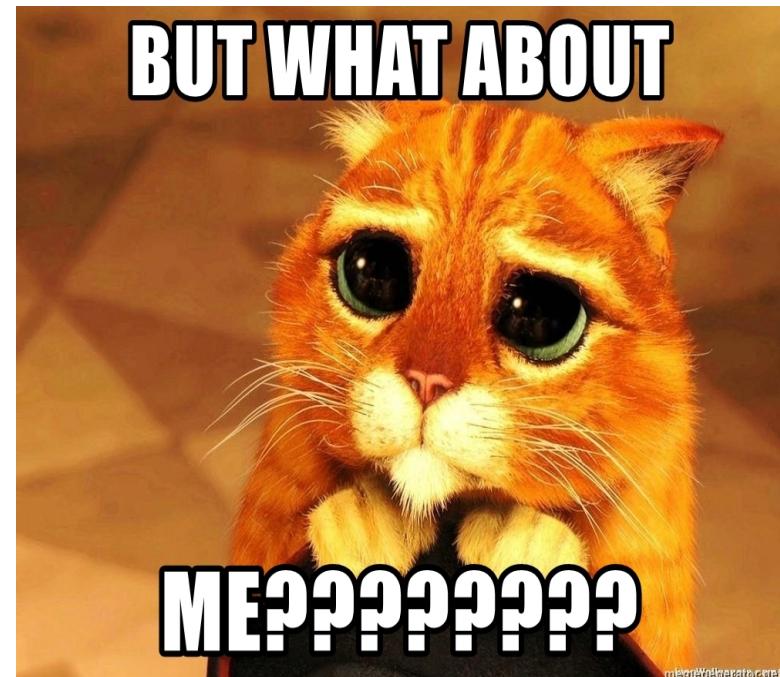
Current state of the TIP landscape

Strive for feedback

CTI analyst focused

Educate your customers/end users

Communicate your roadmap



# The Future of TIPs



Let's consult the Seeing Stone



# 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

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# Final Remarks

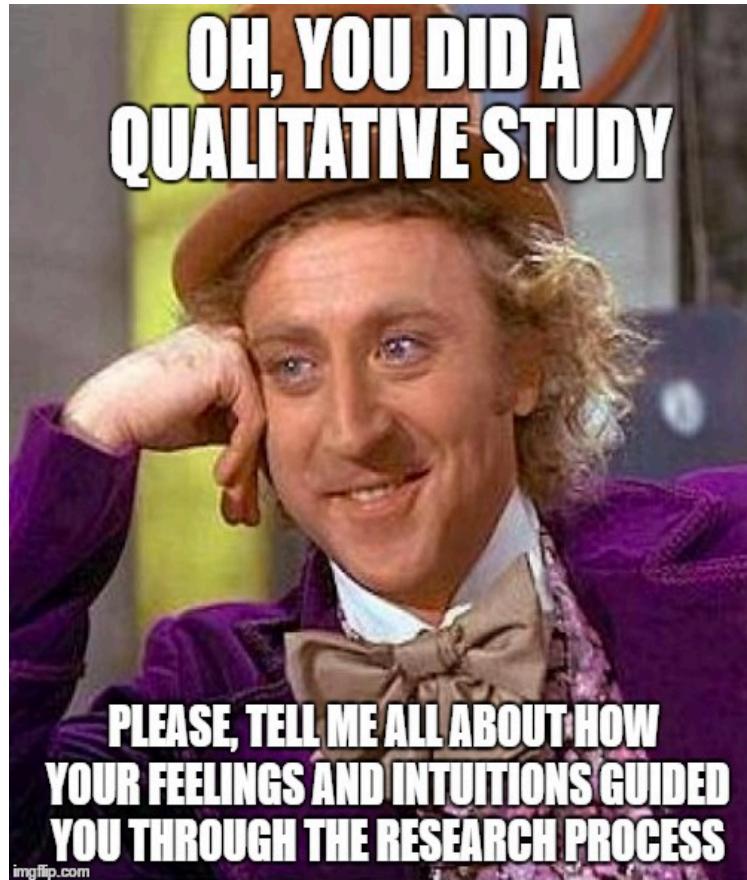


# Final Remarks

- 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



## CTI PROS

Razvan Gavrila  
Chris Beard  
Sarah Brown  
Alexandre Dulaunoy  
Jane Ginn  
Pasquale Stirparo  
Omid Raghimi  
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



# Thanksgiving slide



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