A SECURITY CHAMPION'S JOURNEY – HOW TO MAKE THINGS A BIT MORE SECURE THAN YESTERDAY EVERY DAY

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UNLOCK

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WAIT, I HAVE THE OPTION TO SKILL UP IN SECURITY?

UNLOCKING SECURITY

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HI, I'M A SPECIALIZED GENERALIST

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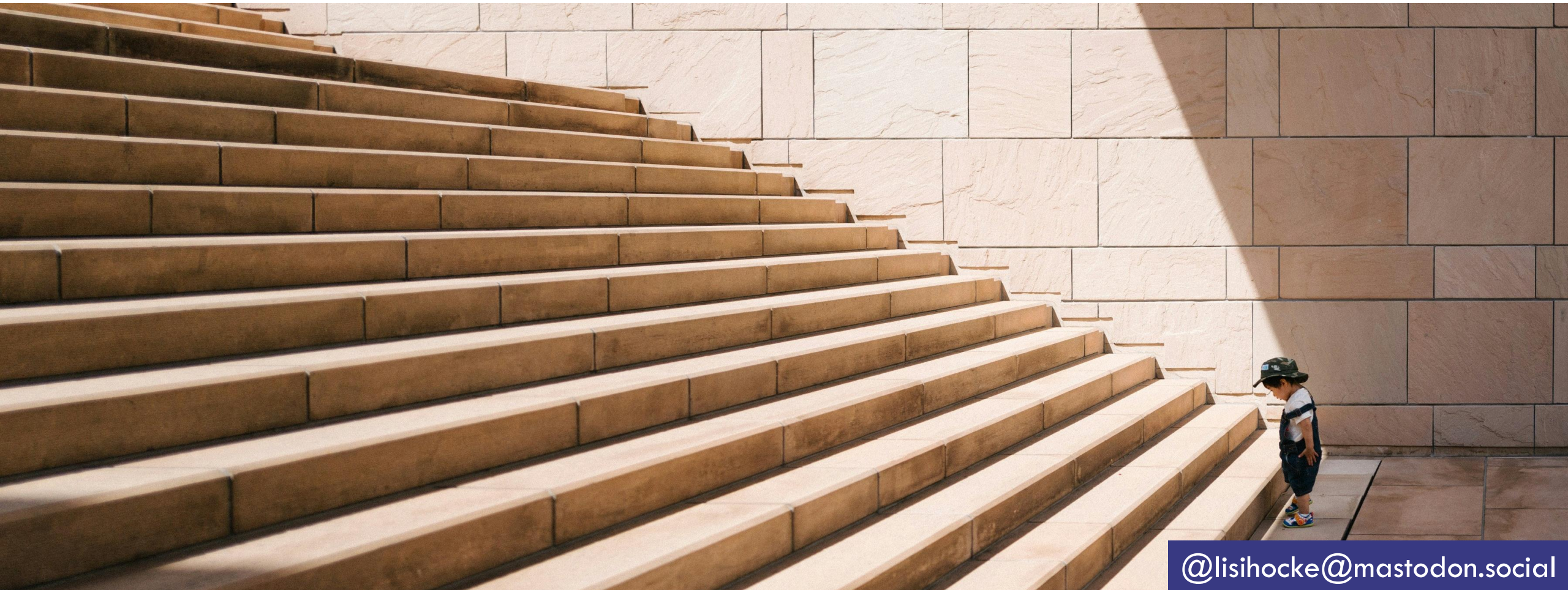
STEP BY STEP INTO SECURITY



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STEP BY STEP INTO SECURITY

It all started with OWASP Juice Shop

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STEP BY STEP INTO SECURITY

Bringing security mindset into the team

It all started with OWASP Juice Shop

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STEP BY STEP INTO SECURITY

Continued learning in my personal time

Bringing security mindset into the team

It all started with OWASP Juice Shop

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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile

Health

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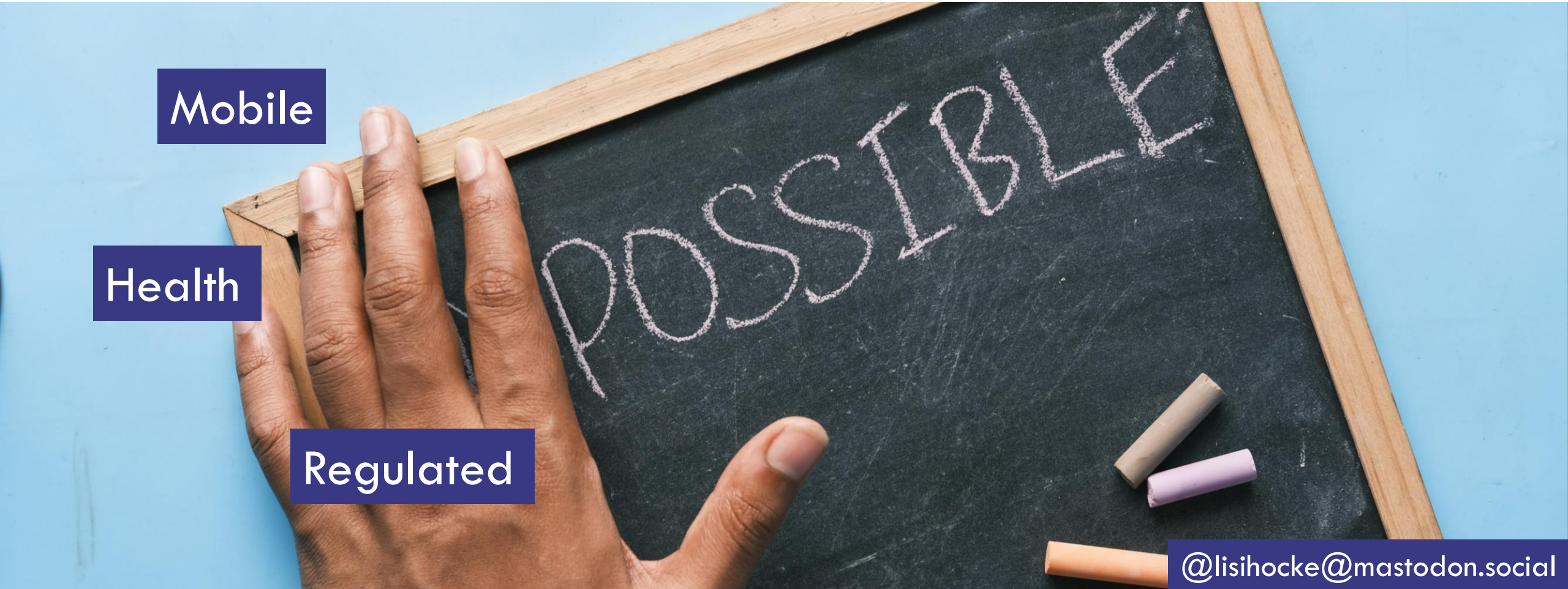
NEW COMPANY, NEW PRODUCT, NEW CHALLENGE



Mobile

Health

Regulated

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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile

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Regulated

Security team

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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile

Health

Regulated

Security team

Security champions program

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ACTING LIKE A CHAMPION WITHOUT BEING THE APPOINTED CHAMPION

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ACTING LIKE A CHAMPION WITHOUT BEING THE APPOINTED CHAMPION

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What is a security champion in a nutshell?

A member of a non-security team

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What is a security champion in a nutshell?

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Acting as communicator between their team and the security team

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ACTING LIKE A CHAMPION WITHOUT BEING THE APPOINTED CHAMPION

What is a security champion in a nutshell?

A member of a non-security team

Acting as communicator between their team and the security team

Advocating for security in their team

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FIRST AUDIT – BUILDING OUR ASSET INVENTORY

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FIRST AUDIT – BUILDING OUR ASSET INVENTORY

What's to protect?

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YAY, I'M THE OFFICIAL MOBILE SECURITY CHAMPION!

ADVOCATING HANDS-ON

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A MOBILE APPSEC STRATEGY TO RULE THEM ALL

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Helps align on a common goal

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Helps align on a common goal

Serves as reference

Provides focus on the most valuable topic

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A MOBILE APPSEC STRATEGY TO RULE THEM ALL

Helps align on a common goal

Serves as reference

Provides focus on the most valuable topic

Allows measuring progress

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ALERT FATIGUE… DON’T TELL US WHAT WE ALREADY KNOW

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Throwing more tools on it won't fix it

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ALERT FATIGUE… DON'T TELL US WHAT WE ALREADY KNOW

Throwing more tools on it won't fix it

Focus on cleaning up the noise

Be intentional about the tools you use and what value they bring

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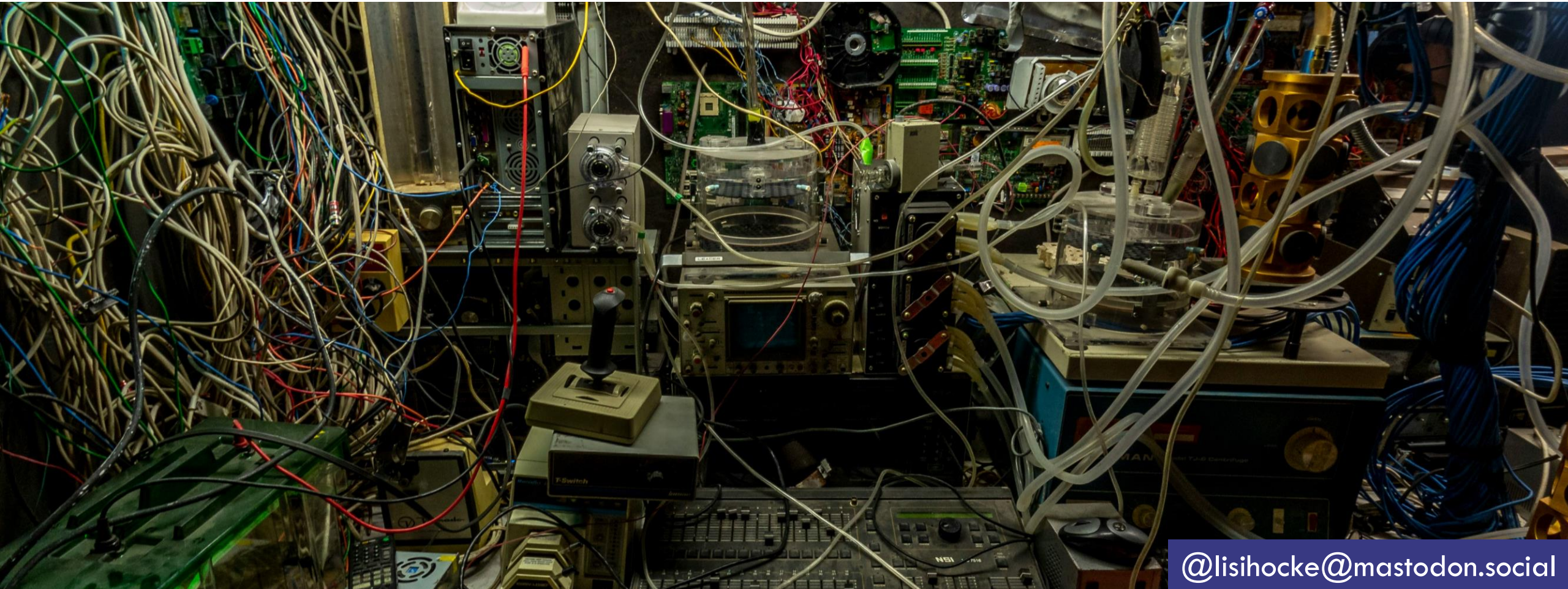
OH MY, ALL THESE DEPENDENCIES...



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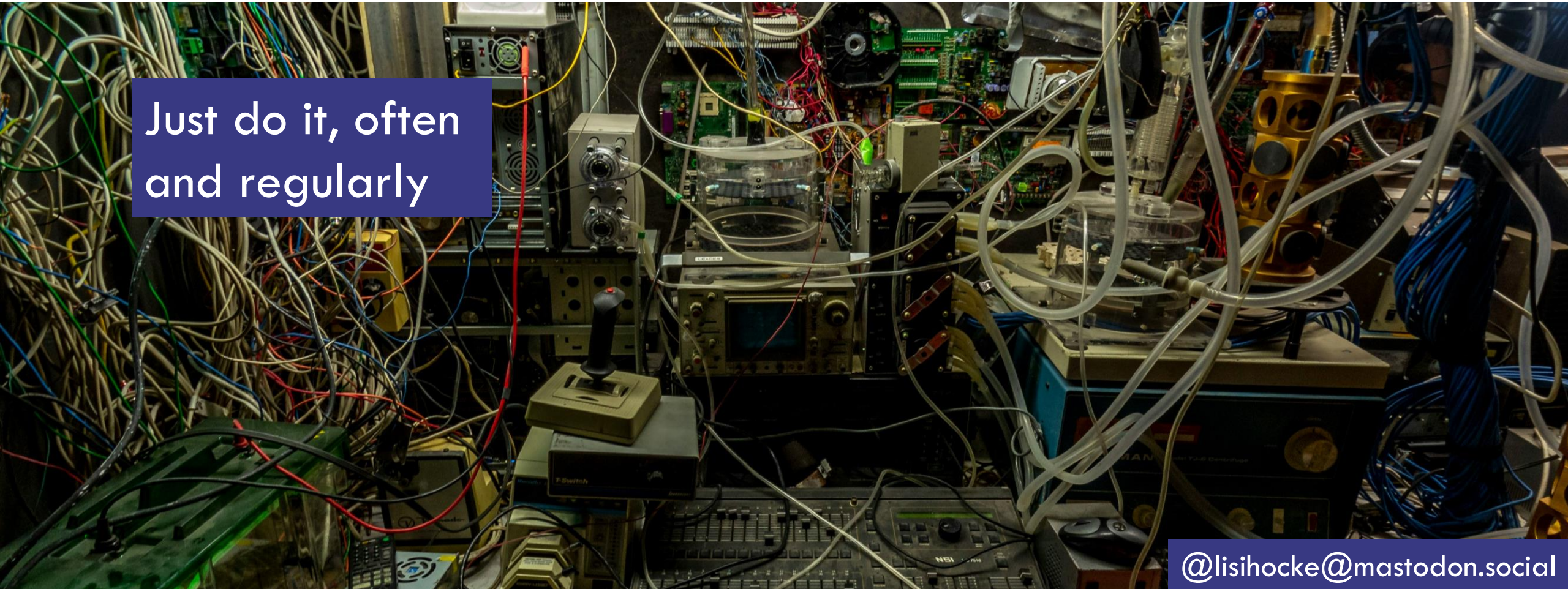

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Just do it, often and regularly

Start where the risk is highest

Tackle quick wins first

Write out steps for big upgrades

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OH MY, ALL THESE DEPENDENCIES…

CLEANUPS REDUCE THE ATTACK SURFACE

CLEANUPS REDUCE THE ATTACK SURFACE

"Technical debt is security debt."
– Tanya Janca

https://shehackspurple.ca/2021/12/23/discoveries-as-a-result-of-the-log4j-debacle/

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Outdated implementation offers opportunities for attackers

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Outdated implementation offers opportunities for attackers

Make cleanup non-negotiable

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Get insecure implementations out right away

Think of risks early on

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AAARGH, WE LET IT IN AND IT‘S HERE TO STAY

Get insecure implementations out right away

Think of risks early on

Educate, educate, educate

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WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY

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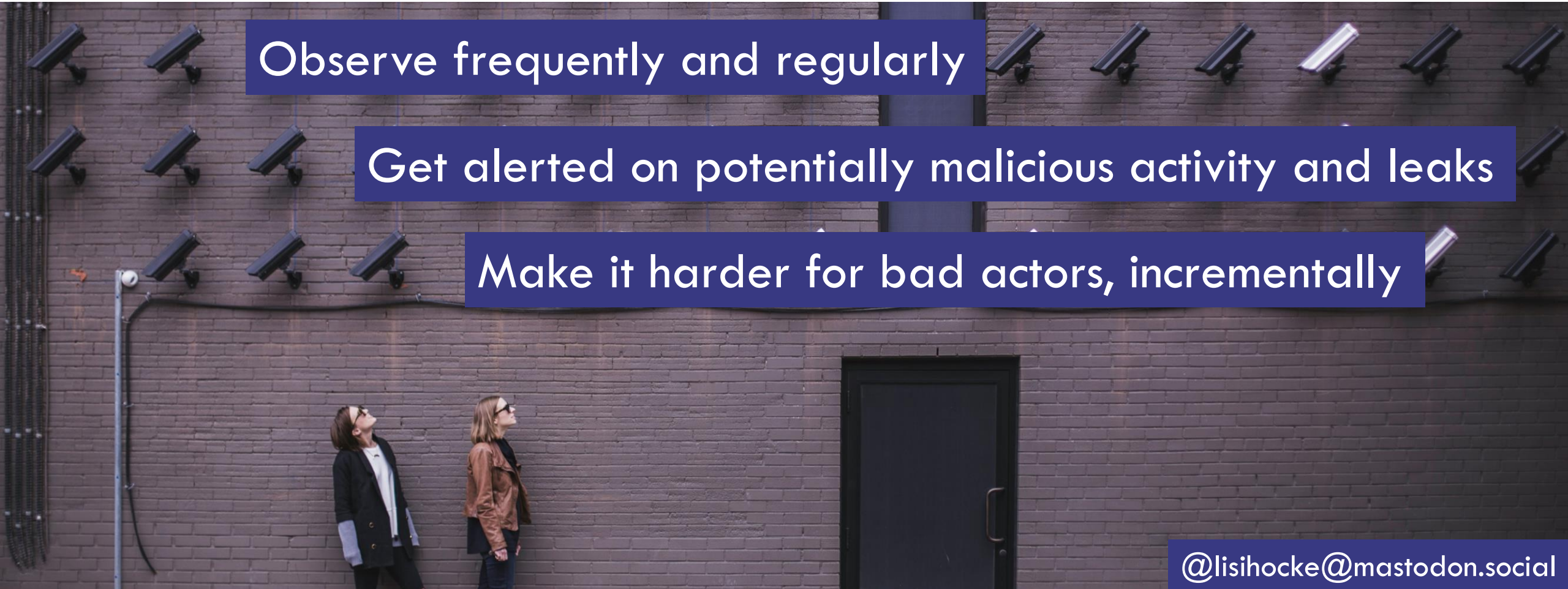

Observe frequently and regularly

Get alerted on potentially malicious activity and leaks

Make it harder for bad actors, incrementally

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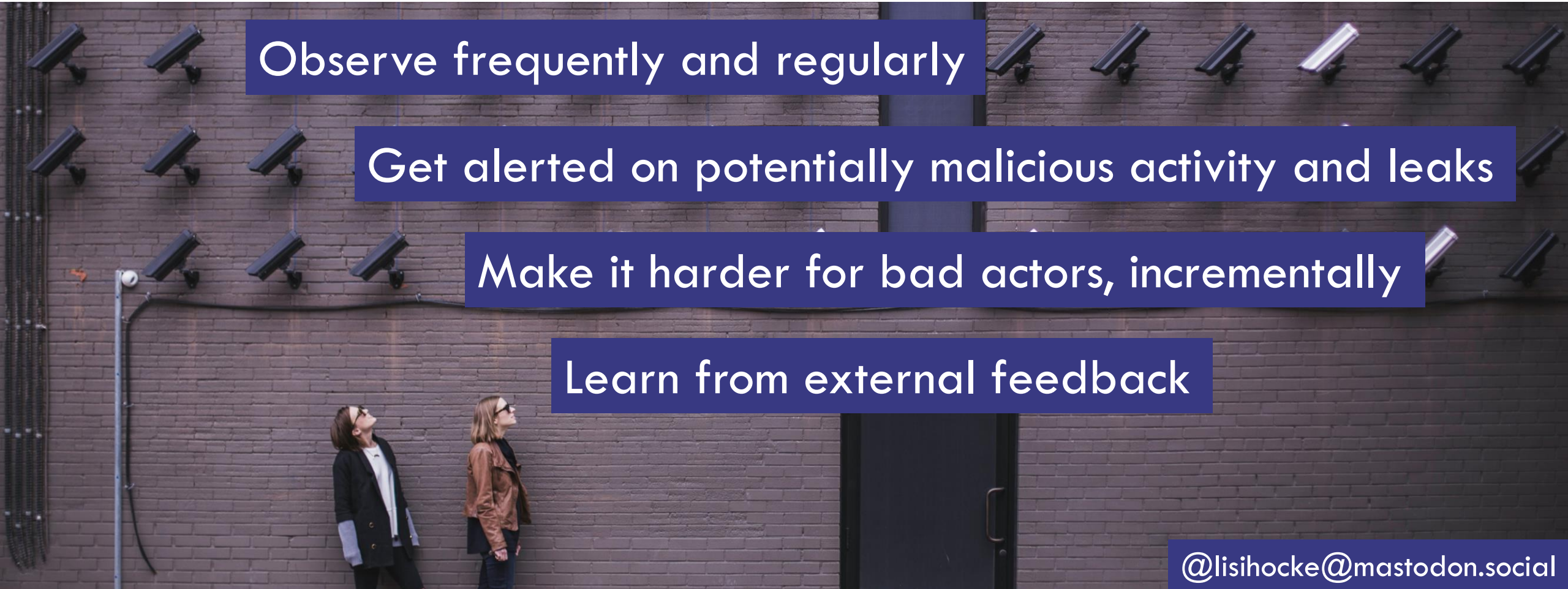

Observe frequently and regularly

Get alerted on potentially malicious activity and leaks

Make it harder for bad actors, incrementally

Learn from external feedback

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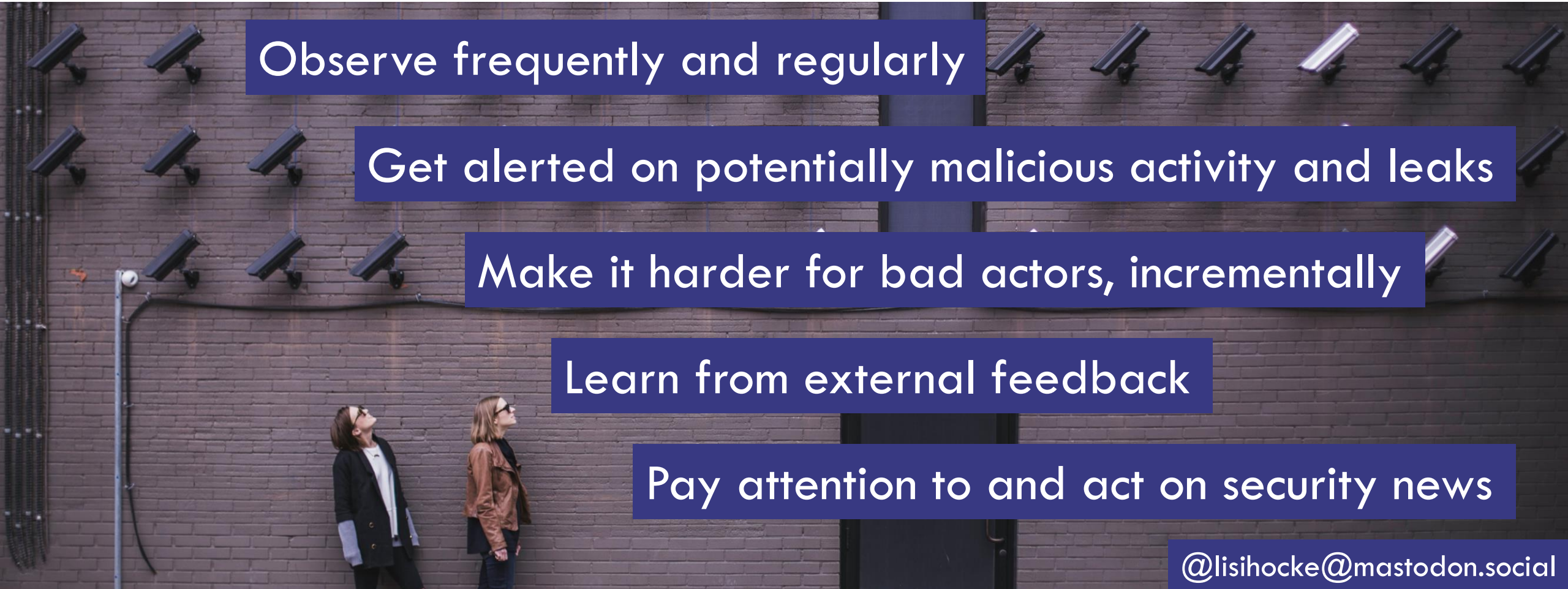

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THE PROBLEM OF “LATER” — WHY WE NEED EXPLICIT PRODUCT DECISIONS

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Letting security topics rot in the backlog means we're implicitly accepting the respective risk

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Register risks officially

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THE PROBLEM OF "LATER" – WHY WE NEED EXPLICIT PRODUCT DECISIONS

Letting security topics rot in the backlog means we're implicitly accepting the respective risk

Register risks officially

Make a decision with stakeholders how to handle them

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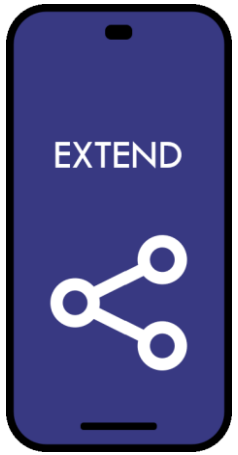

WHAT'S THE SECRET INGREDIENT TO CHAMPIONING SECURITY?

EXTENDING REACH

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FOSTER RELATIONSHIPS, GROW ALLIES

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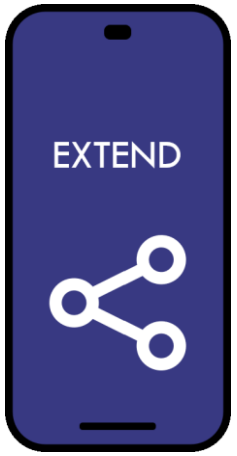
FOSTER RELATIONSHIPS, GROW ALLIES



FOSTER RELATIONSHIPS, GROW ALLIES

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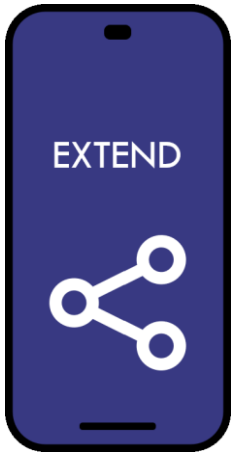
ANYONE OUT THERE TO LEARN TOGETHER WITH?



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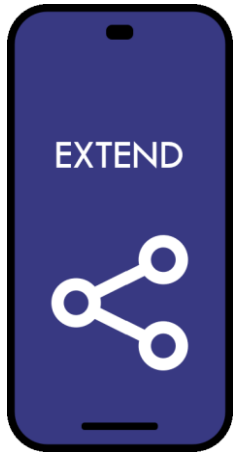

Engage exchange among security champions

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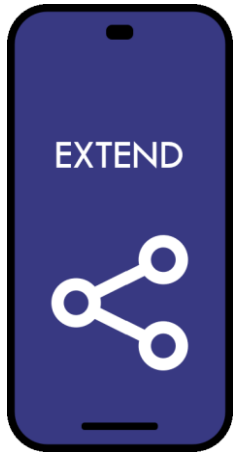

Engage exchange among security champions

Connect with security communities

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SECURITY IS EVERYONE'S RESPONSIBILITY, AND WE NEED EVERYONE TO SECURE OUR PRODUCTS

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There's strength in diversity – given we foster inclusion and equity

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WHAT WORKED, WHAT DIDN‘T, WHAT WE REALLY SHOULDN‘T HAVE DONE IN THE FIRST PLACE

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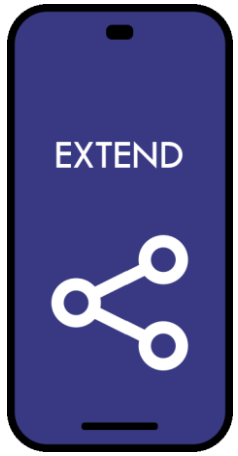

Worked: investing in a security culture

Did not work: not using our veto

Don’t even consider: inaction

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KEEP GOING, SMALL STEPS CUMULATE!

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KEEP GOING, SMALL STEPS CUMULATE!

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bit.ly/lisihocke-security-resources

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Make things a bit more secure than yesterday every day

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THANK YOU!

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