



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

LISI HOCKE

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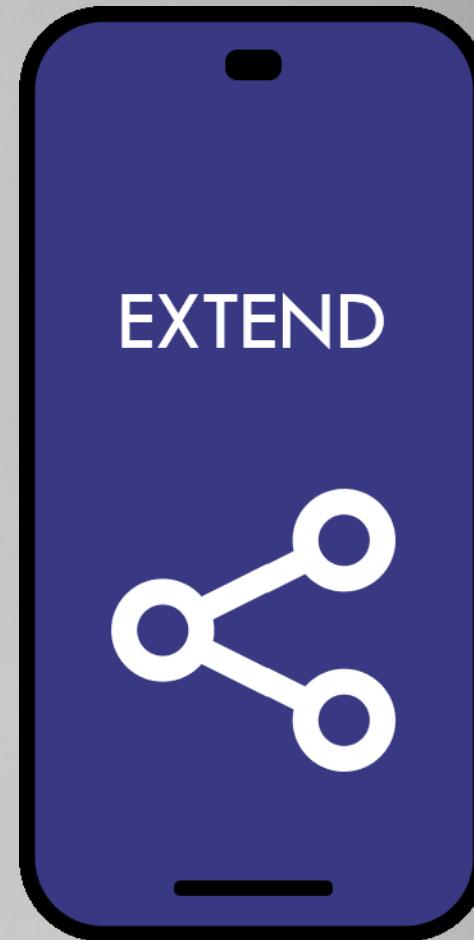


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WAIT, I HAVE THE OPTION TO
SKILL UP IN SECURITY?

UNLOCKING
SECURITY

UNLOCK



HI, I'M A SPECIALIZED GENERALIST



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UNLOCK



HI, I'M A SPECIALIZED GENERALIST

Testing & quality



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HI, I'M A SPECIALIZED GENERALIST

Testing & quality

Product development teams





HI, I'M A SPECIALIZED GENERALIST

Testing & quality

Cross-functional

Product development teams





HI, I'M A SPECIALIZED GENERALIST

Testing & quality

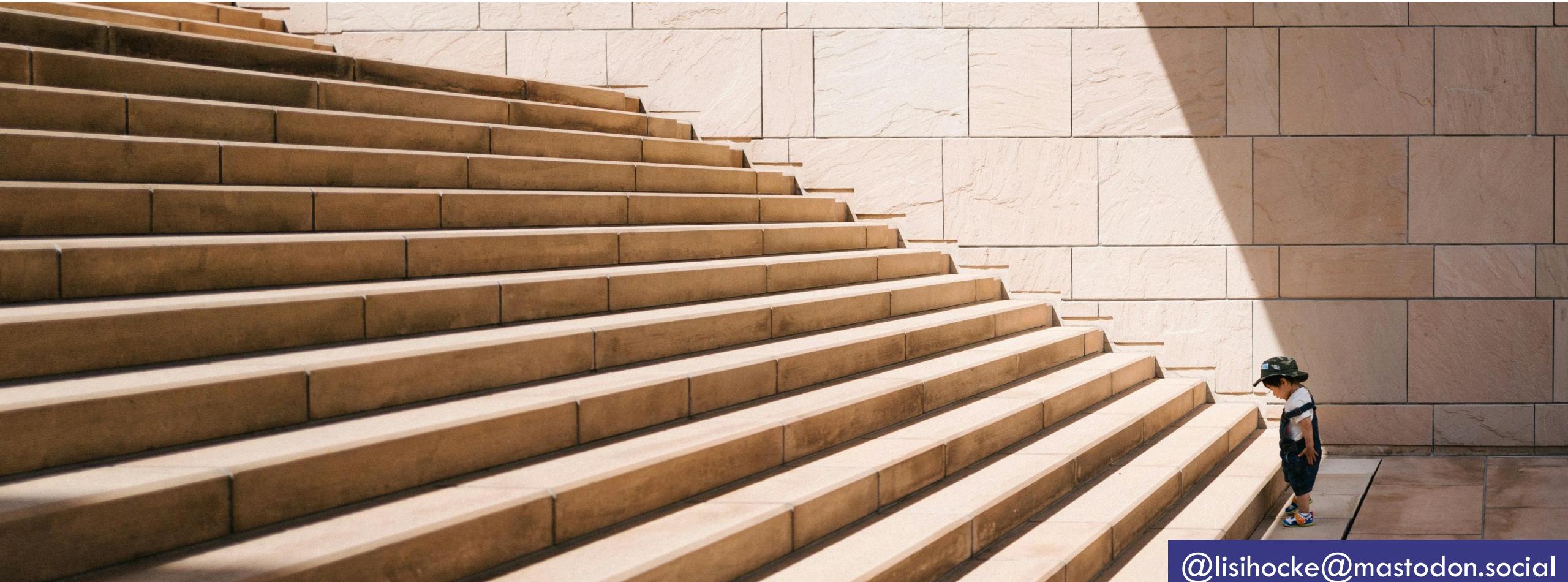
Cross-functional

Product development teams

Embedded hands-on



STEP BY STEP INTO SECURITY



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STEP BY STEP INTO SECURITY



It all started with OWASP Juice Shop





STEP BY STEP INTO SECURITY

A photograph of a large set of light-colored stone steps leading up to a wall made of large rectangular stones. A small child wearing a hat and a backpack is walking up the steps from the bottom right. The sun is shining, creating strong shadows on the wall. Two dark blue rectangular boxes with white text are overlaid on the image: one in the middle left and one at the bottom left.

Bringing security mindset into the team

It all started with OWASP Juice Shop



STEP BY STEP INTO SECURITY

Continued learning in my personal time

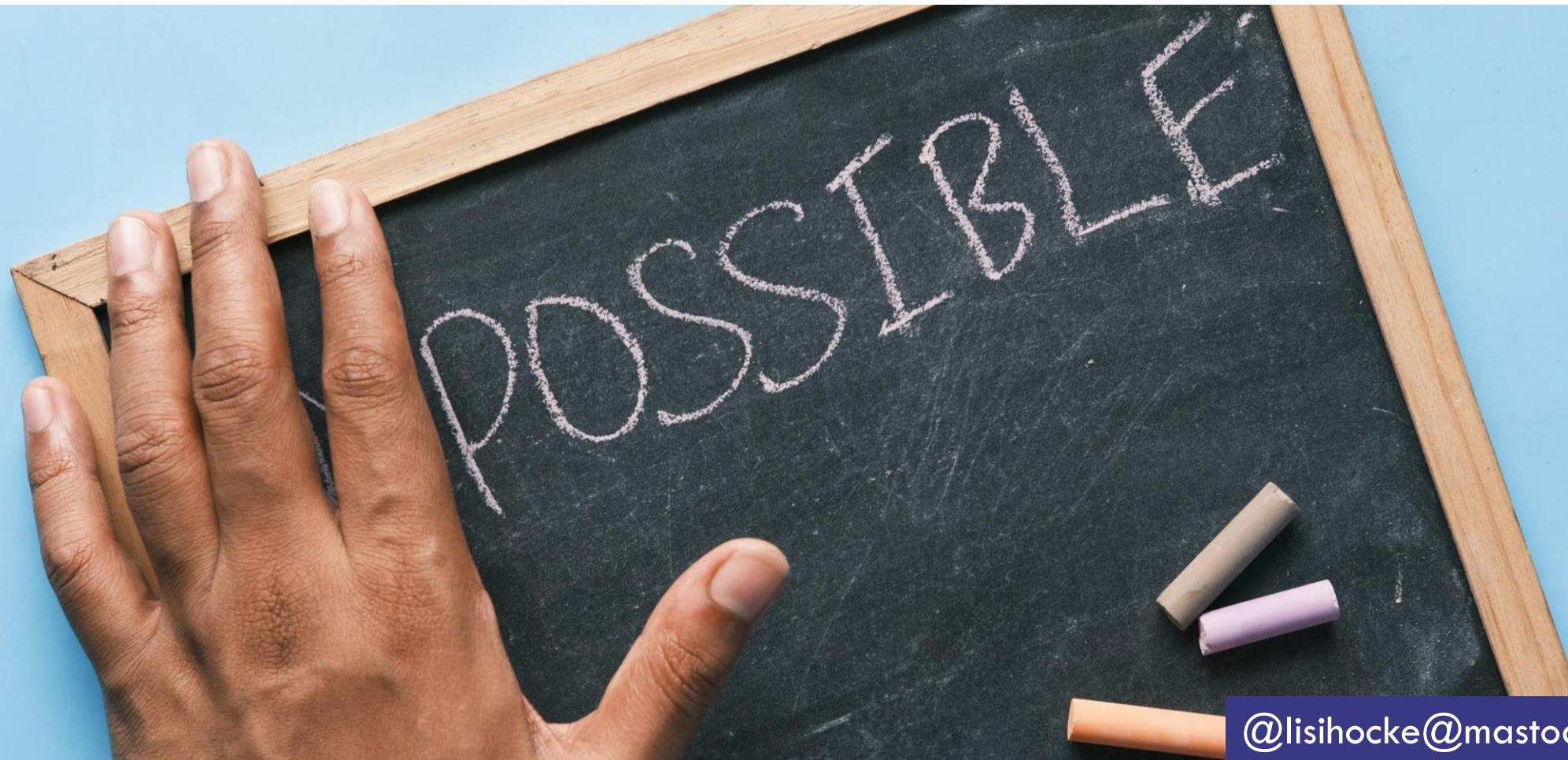
Bringing security mindset into the team

It all started with OWASP Juice Shop

UNLOCK



NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

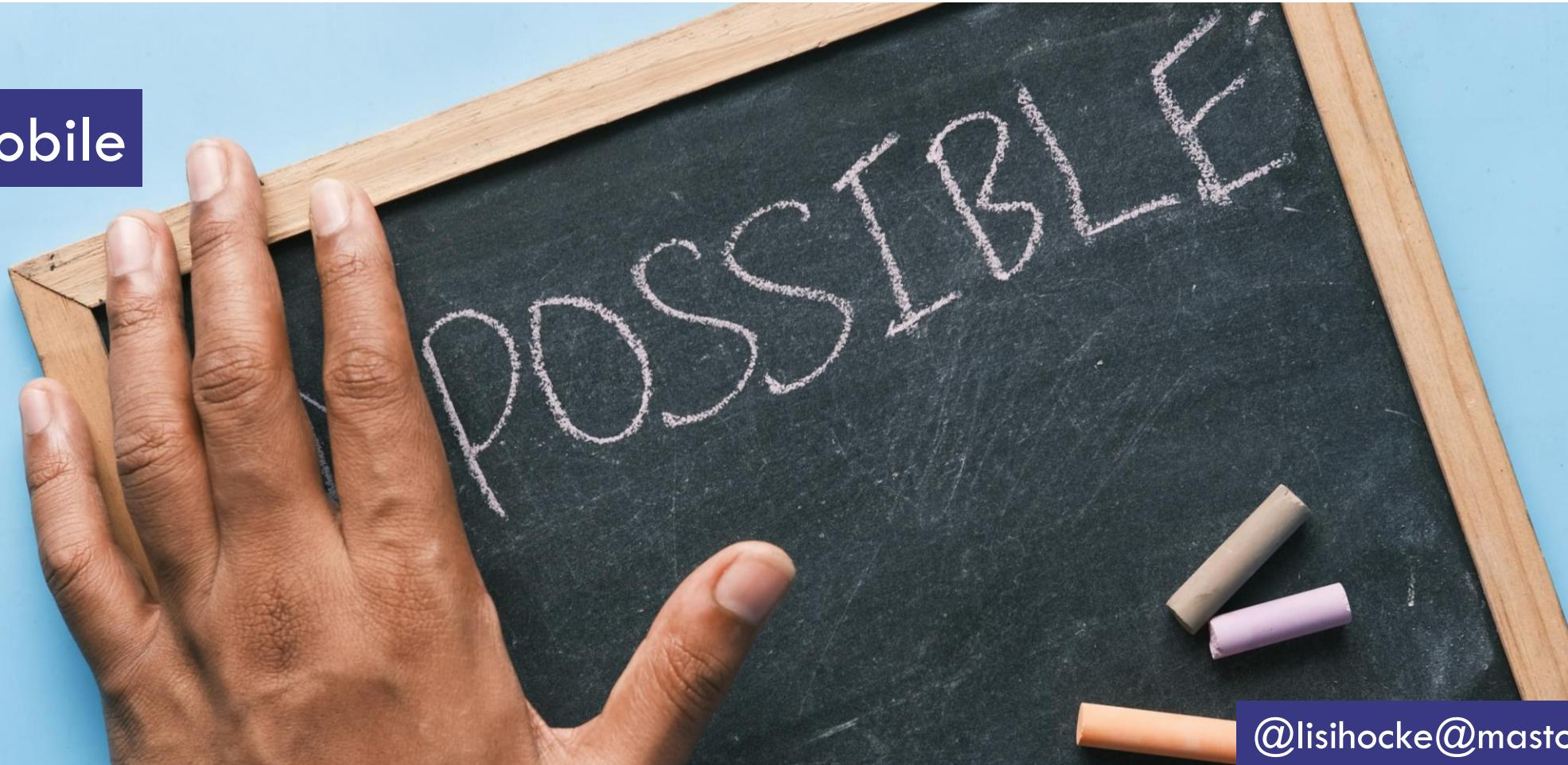


UNLOCK



NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile



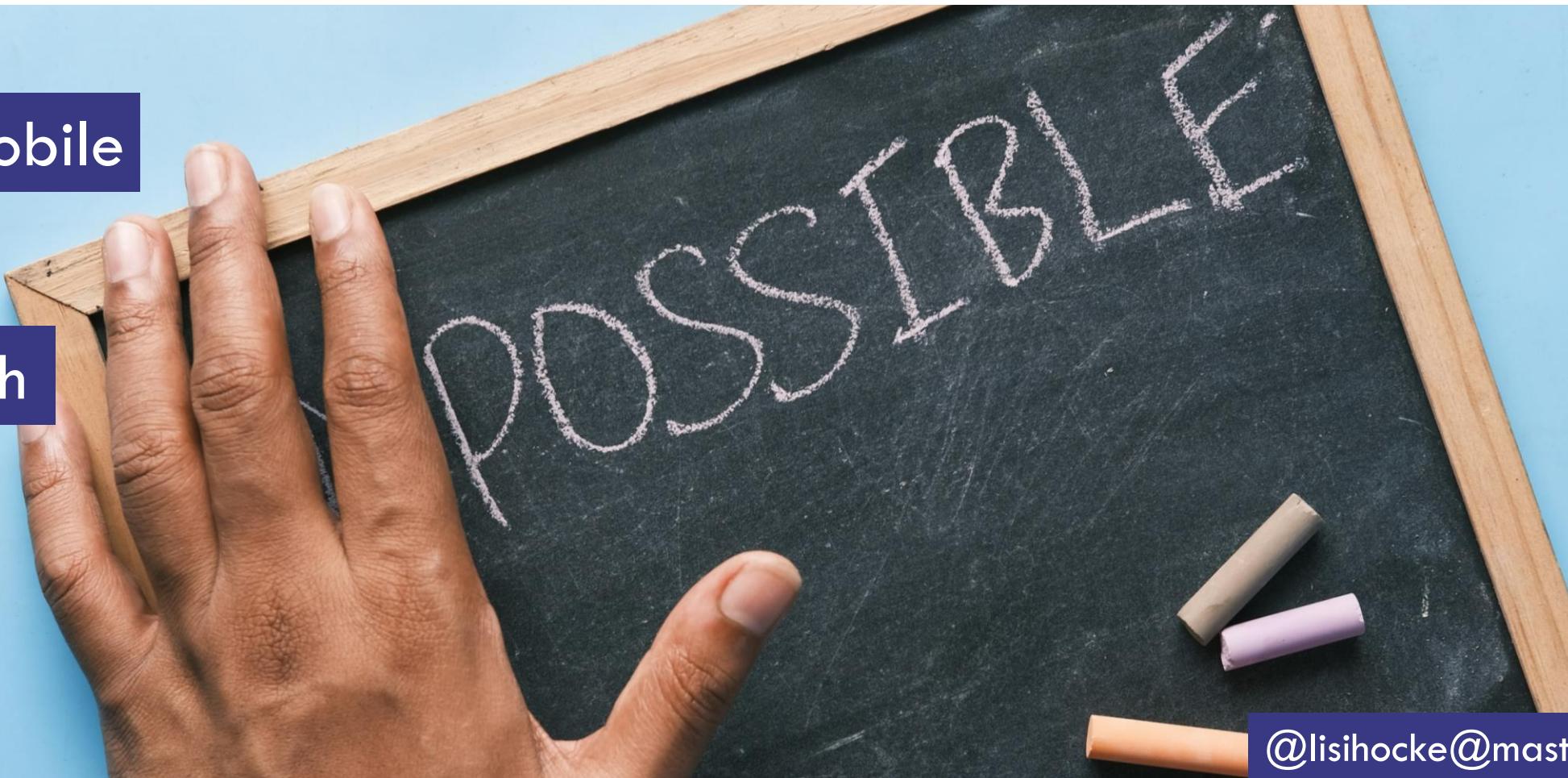
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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile

Health



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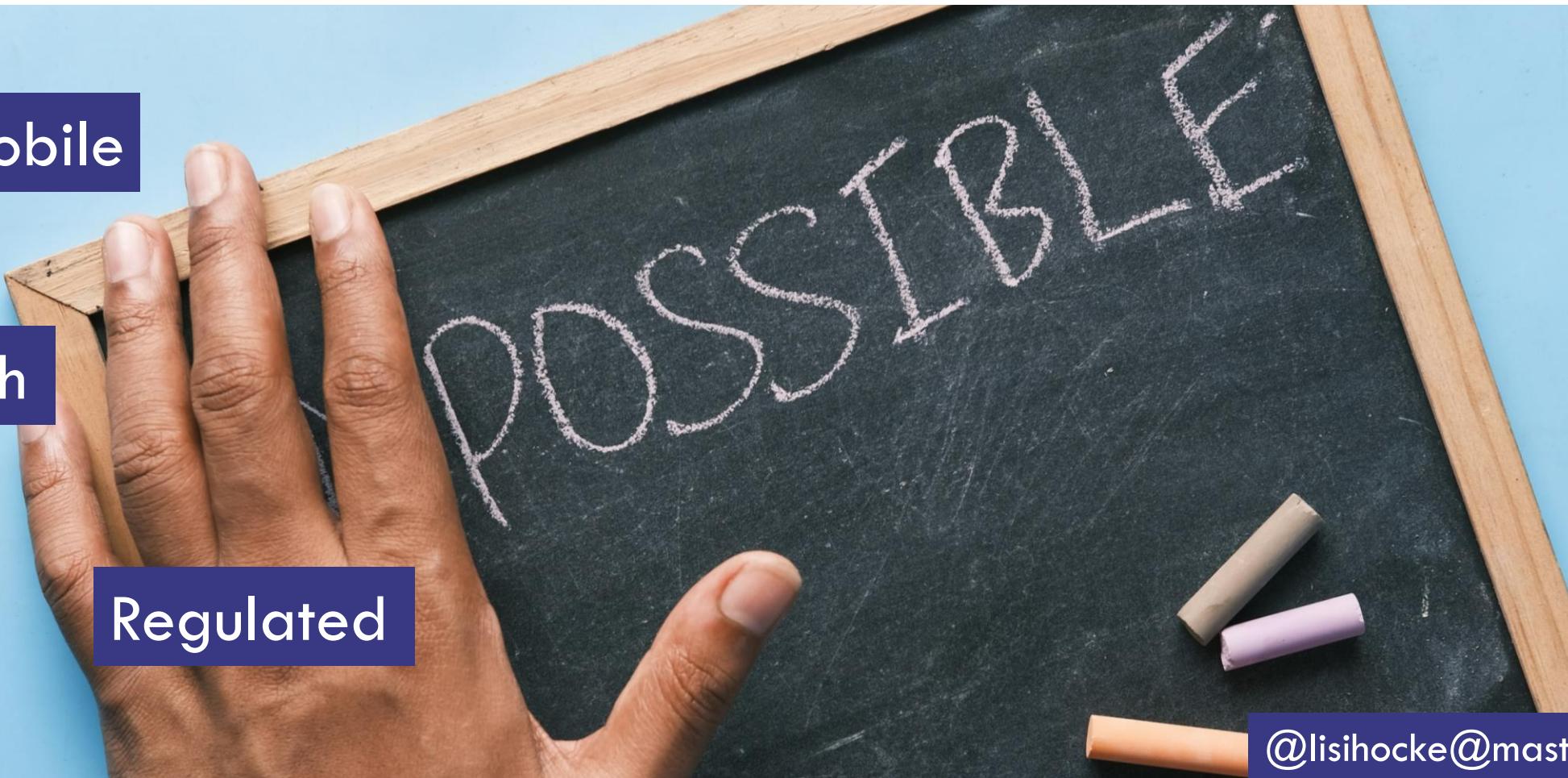


NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile

Health

Regulated



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NEW COMPANY, NEW PRODUCT, NEW CHALLENGE

Mobile

Health

Regulated

Security team





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



What is a security champion in a nutshell?



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 LIKE A CHAMPION WITHOUT BEING THE APPOINTED CHAMPION

A photograph of several young women playing volleyball. They are positioned around a white net against a background of a light-colored wall and a window. One player in a dark green jersey is in the foreground, shouting with her mouth wide open. Other players are visible behind her, some with their hands raised near the net.

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

ACTING LIKE A CHAMPION WITHOUT BEING THE APPOINTED CHAMPION



What is a security champion in a nutshell?

A member of a non-security team

Advocating for security in their team

Acting as communicator between their team and the security team



UNLOCK



FIRST AUDIT – BUILDING OUR ASSET INVENTORY



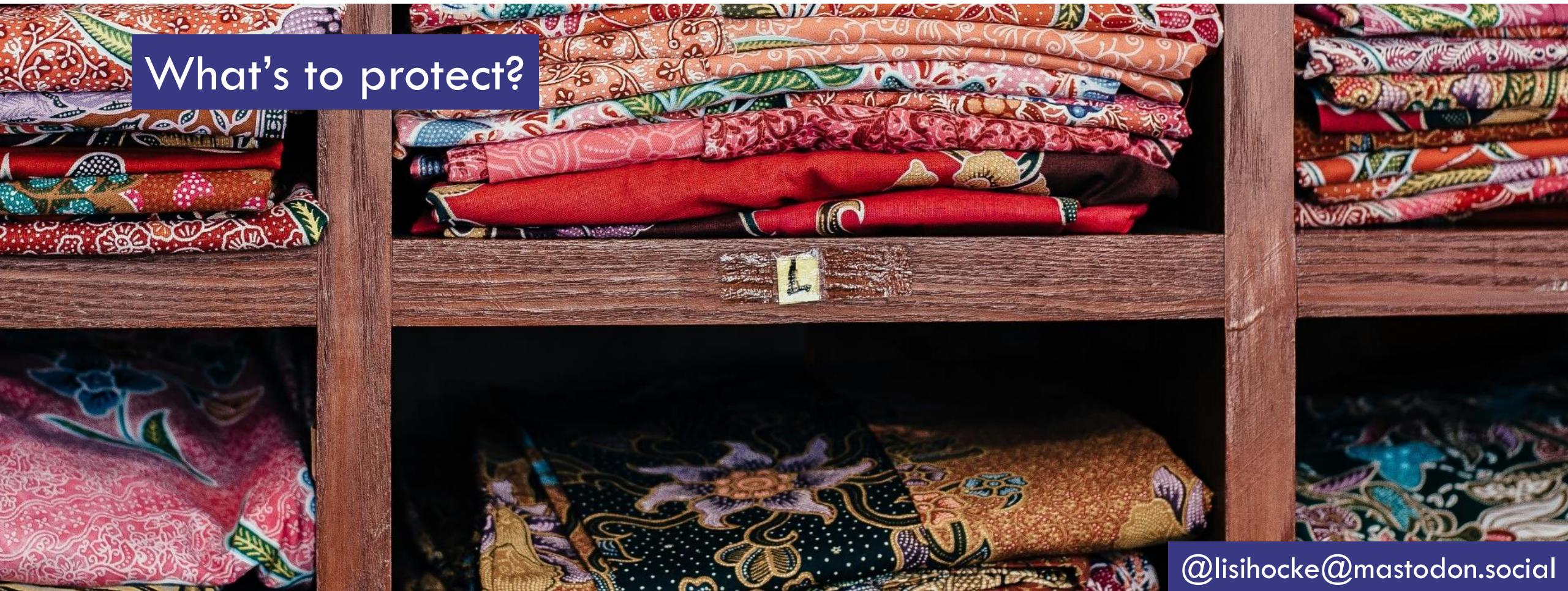
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FIRST AUDIT – BUILDING OUR ASSET INVENTORY

What's to protect?



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FIRST AUDIT – BUILDING OUR ASSET INVENTORY

What's to protect?

What's public facing?

UNLOCK



FIRST AUDIT – BUILDING OUR ASSET INVENTORY

What's to protect?

What's public facing?

How confidential is it?

UNLOCK



FIRST AUDIT – BUILDING OUR ASSET INVENTORY

What's to protect?

What's public facing?

How confidential is it?

What's the business risk if breached?



FIRST AUDIT – BUILDING OUR ASSET INVENTORY

What's to protect?

What's public facing?

How confidential is it?

What's the business risk if breached?

Which security controls are in place?



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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A MOBILE APPSEC STRATEGY TO RULE THEM ALL

Helps align on a common goal





A MOBILE APPSEC STRATEGY TO RULE THEM ALL

Helps align on a common goal

Serves as reference





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Helps align on a common goal

Serves as reference

Provides focus on the most valuable topic



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

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



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



Throwing more tools
on it won't fix it



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

A dense grid of numerous red emergency or warning lights, likely from police cars or ambulances, creating a pattern of red and yellow light streaks against a dark background.

Throwing more tools
on it won't fix it

Focus on cleaning up the noise

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

A background image showing multiple red emergency lights, possibly from a police car or fire truck, creating a blurred, glowing effect.

Throwing more tools
on it won't fix it

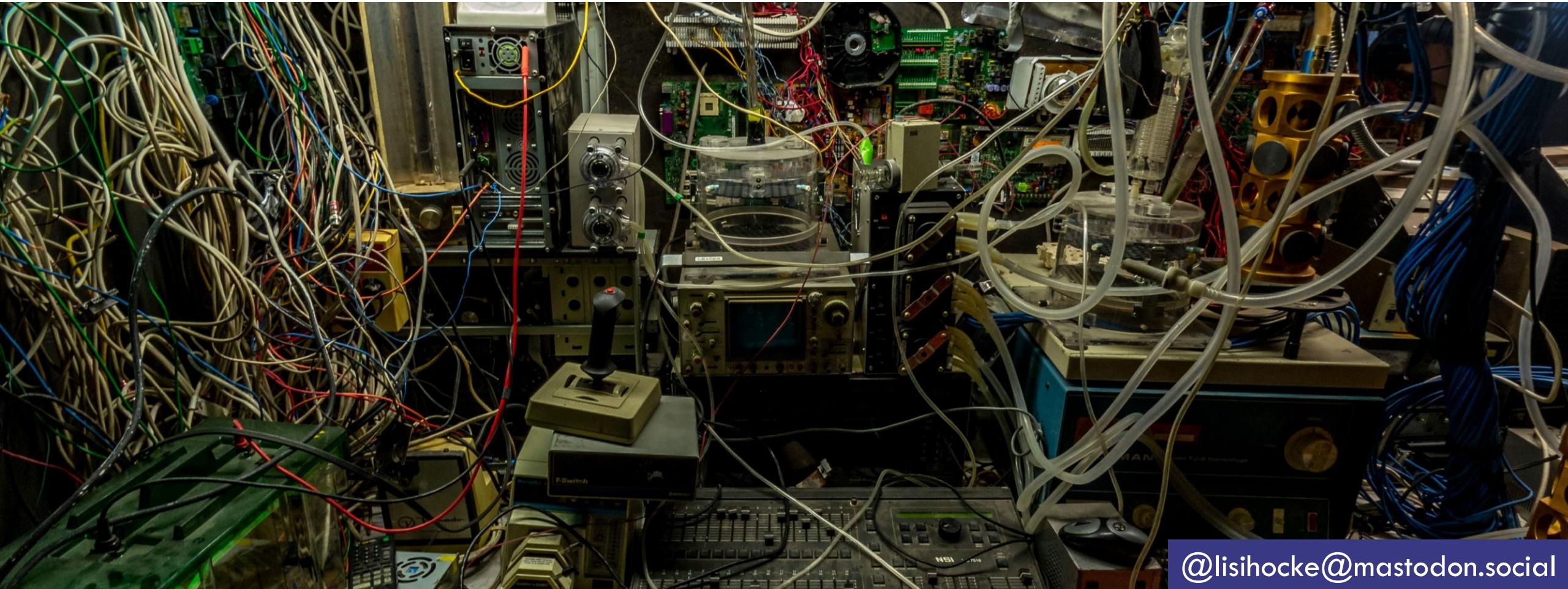
Focus on cleaning up the noise

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

ADVOCATE



OH MY, ALL THESE DEPENDENCIES...



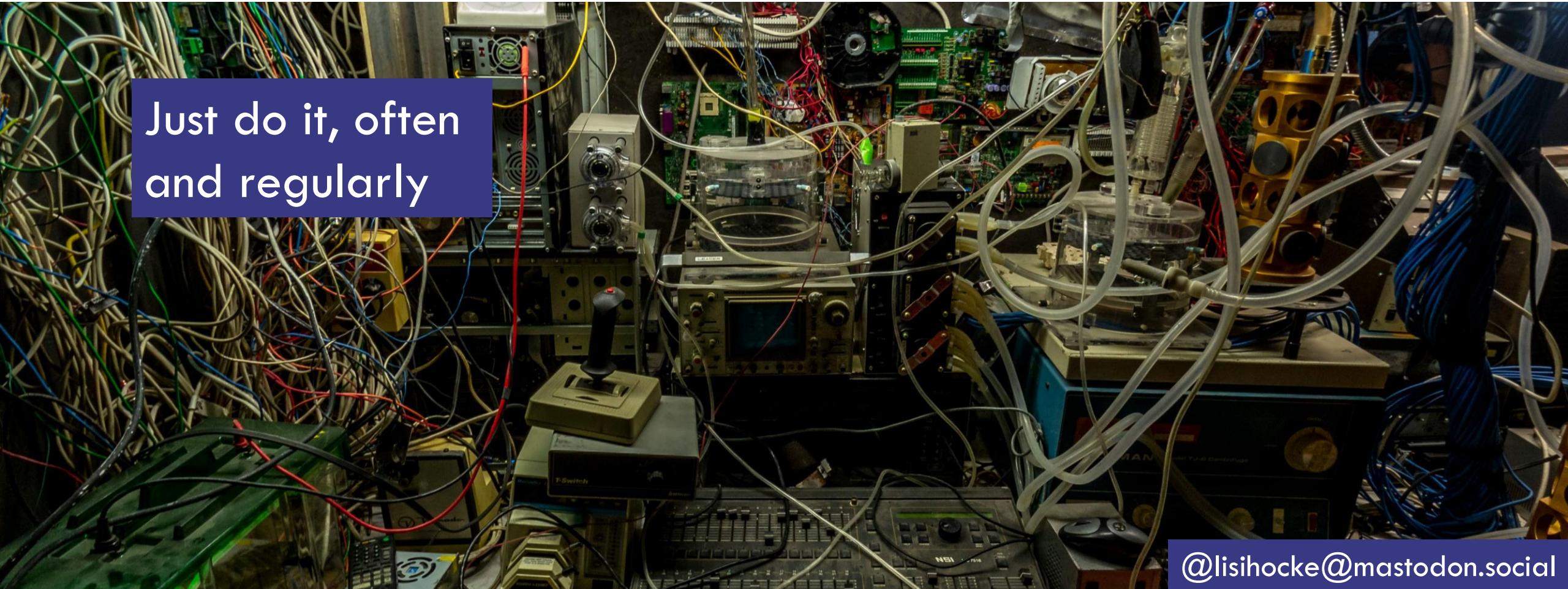
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ADVOCATE



OH MY, ALL THESE DEPENDENCIES...

Just do it, often
and regularly





OH MY, ALL THESE DEPENDENCIES...



Just do it, often
and regularly



Start where the
risk is highest



OH MY, ALL THESE DEPENDENCIES...

Just do it, often
and regularly

Start where the
risk is highest

Tackle quick
wins first



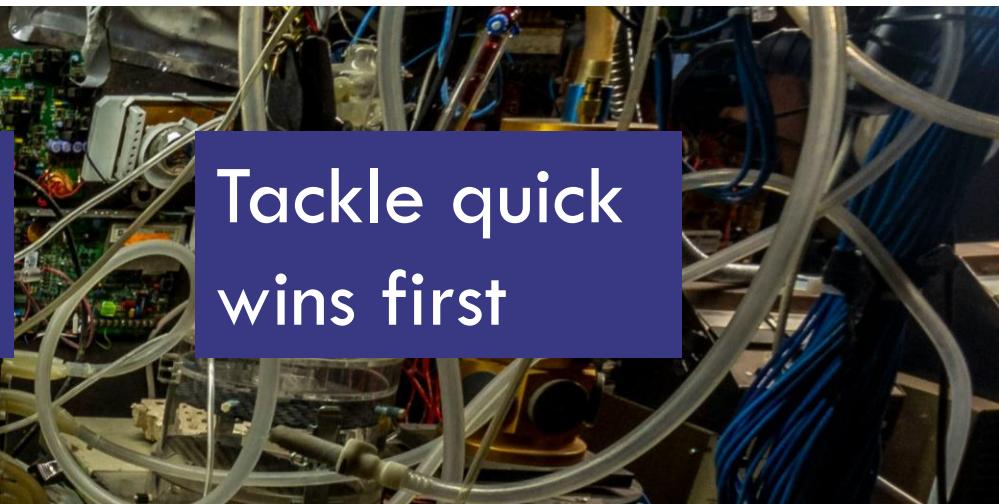
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Write out steps
for big upgrades



OH MY, ALL THESE DEPENDENCIES...



Just do it, often
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Start where the
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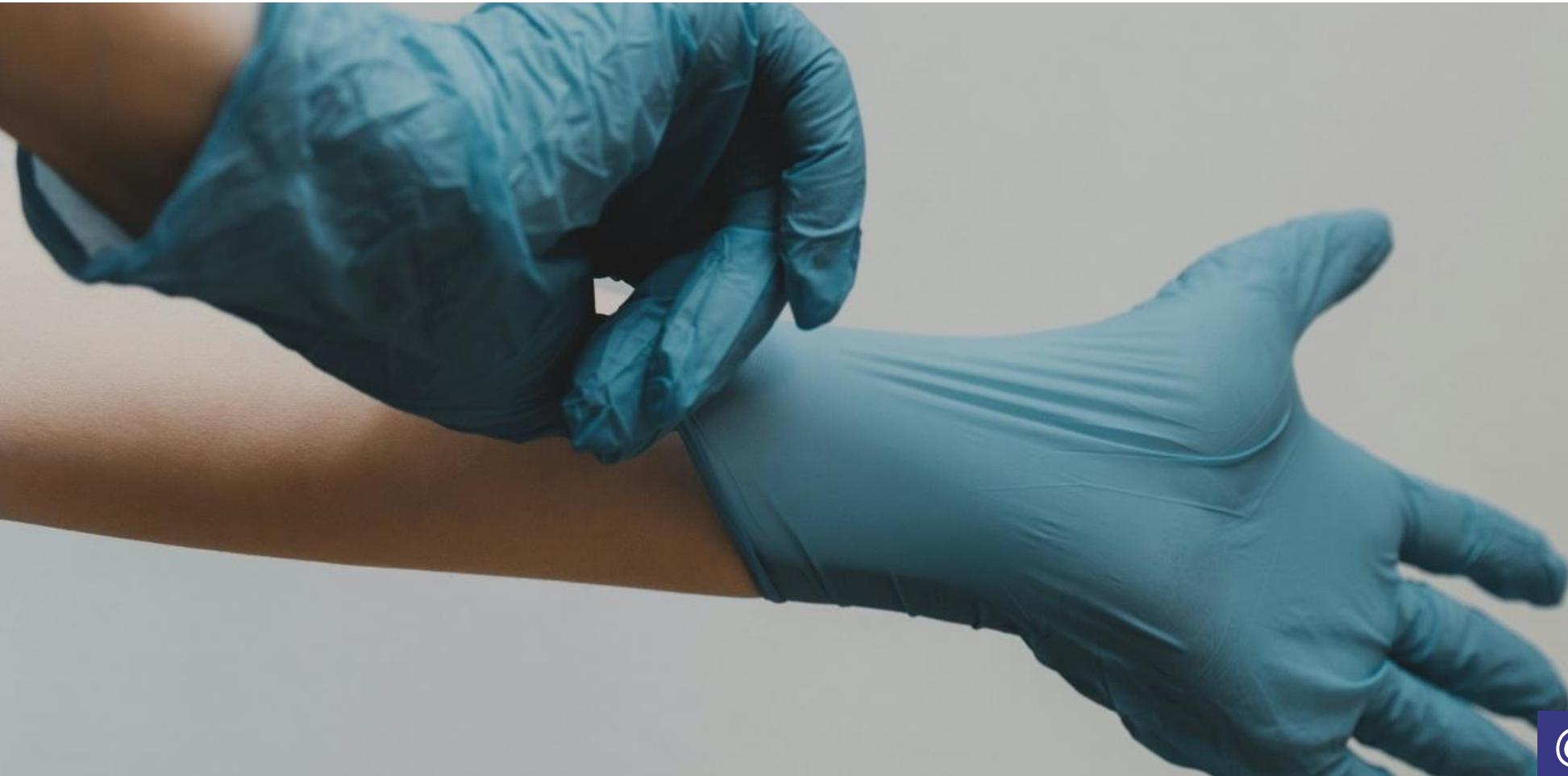
Tackle quick
wins first

Write out steps
for big upgrades

Cling to a working
update strategy



CLEANUPS REDUCE THE ATTACK SURFACE



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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-debaacle/>



CLEANUPS REDUCE THE ATTACK SURFACE



“Technical debt is security debt.”
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Outdated implementation offers
opportunities for attackers



CLEANUPS REDUCE THE ATTACK SURFACE



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

Outdated implementation offers opportunities for attackers

Make cleanup non-negotiable

ADVOCATE



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





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

Get insecure
implementations
out right away





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

Get insecure
implementations
out right away



DO NOT
ENTER

Think of risks early on



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

Get insecure
implementations
out right away



DO NOT
ENTER

Think of risks early on

Educate,
educate,
educate

WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY



WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY



Observe frequently and regularly





WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY

Observe frequently and regularly

Get alerted on potentially malicious activity and leaks





WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY

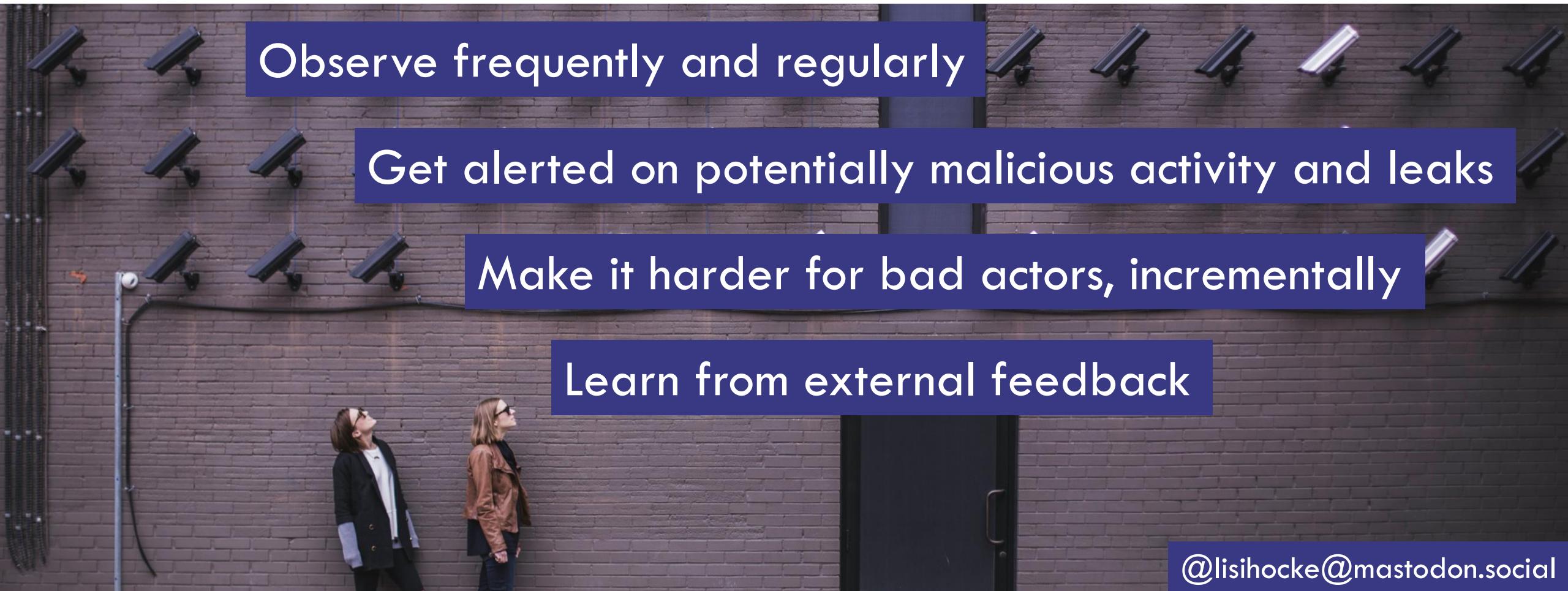
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Get alerted on potentially malicious activity and leaks

Make it harder for bad actors, incrementally



WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY



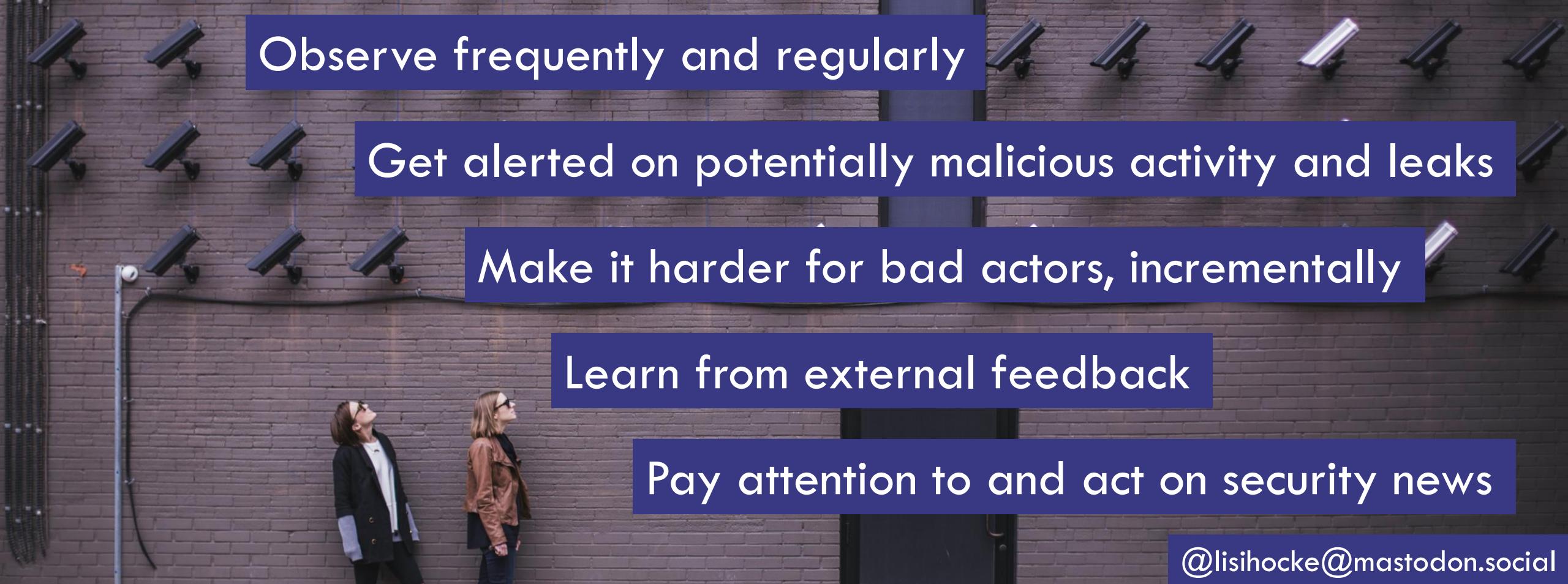
Observe frequently and regularly

Get alerted on potentially malicious activity and leaks

Make it harder for bad actors, incrementally

Learn from external feedback

WOW, SO MANY FOLKS ARE PROBING OUR SYSTEM – CONSTANTLY

A photograph of a brick wall covered in numerous surveillance cameras. Two women are standing at the bottom left, looking up at the wall.

Observe frequently and regularly

Get alerted on potentially malicious activity and leaks

Make it harder for bad actors, incrementally

Learn from external feedback

Pay attention to and act on security news

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



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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

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



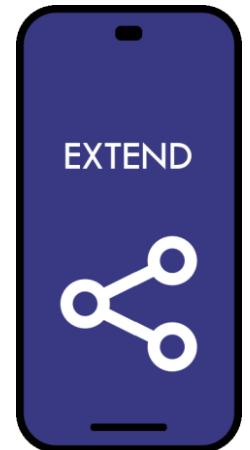
THE PROBLEM OF “LATER” – WHY WE NEED EXPLICIT PRODUCT DECISIONS



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



WHAT'S THE SECRET INGREDIENT
TO CHAMPIONING SECURITY?

EXTENDING
REACH

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EXTEND



FOSTER RELATIONSHIPS, GROW ALLIES



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EXTEND



FOSTER RELATIONSHIPS, GROW ALLIES

A close-up photograph of several hands of different skin tones and wearing various colored knitted cuffs (brown, red, green, blue).

Close collaboration with
your security team

EXTEND

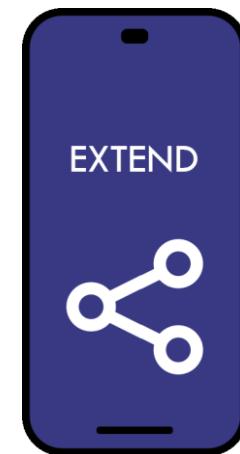


FOSTER RELATIONSHIPS, GROW ALLIES

A close-up photograph of several hands of different skin tones and clothing colors (red, blue, green) coming together in a group hug or handshake. One hand in the center wears a gold ring with a small blue stone. A second ring is visible on another hand. The hands are resting on a dark, textured surface.

Close collaboration with
your security team

Take your own
team with you



FOSTER RELATIONSHIPS, GROW ALLIES

Close collaboration with
your security team

Take your own
team with you

Experiment with
different approaches to
figure out what works

EXTEND



ANYONE OUT THERE TO LEARN TOGETHER WITH?



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EXTEND



ANYONE OUT THERE TO LEARN TOGETHER WITH?

Engage exchange
among security
champions

I'm

not

Alone



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EXTEND



ANYONE OUT THERE TO LEARN TOGETHER WITH?

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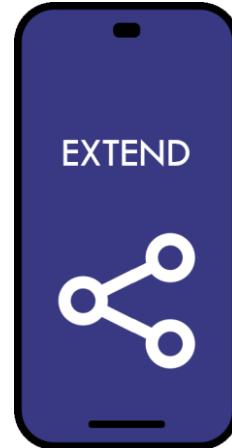
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Connect with security communities



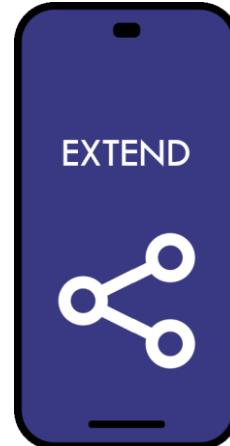
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SECURITY IS EVERYONE'S RESPONSIBILITY, AND WE NEED EVERYONE TO SECURE OUR PRODUCTS



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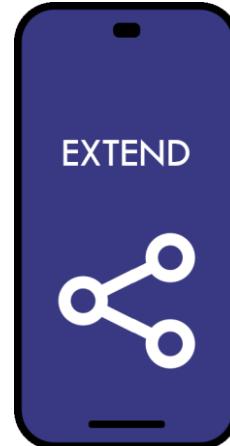
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There's strength in diversity – given we foster inclusion and equity

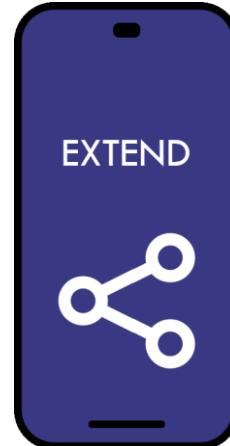


WHAT WORKED, WHAT DIDN'T, WHAT WE REALLY SHOULDN'T HAVE DONE IN THE FIRST PLACE



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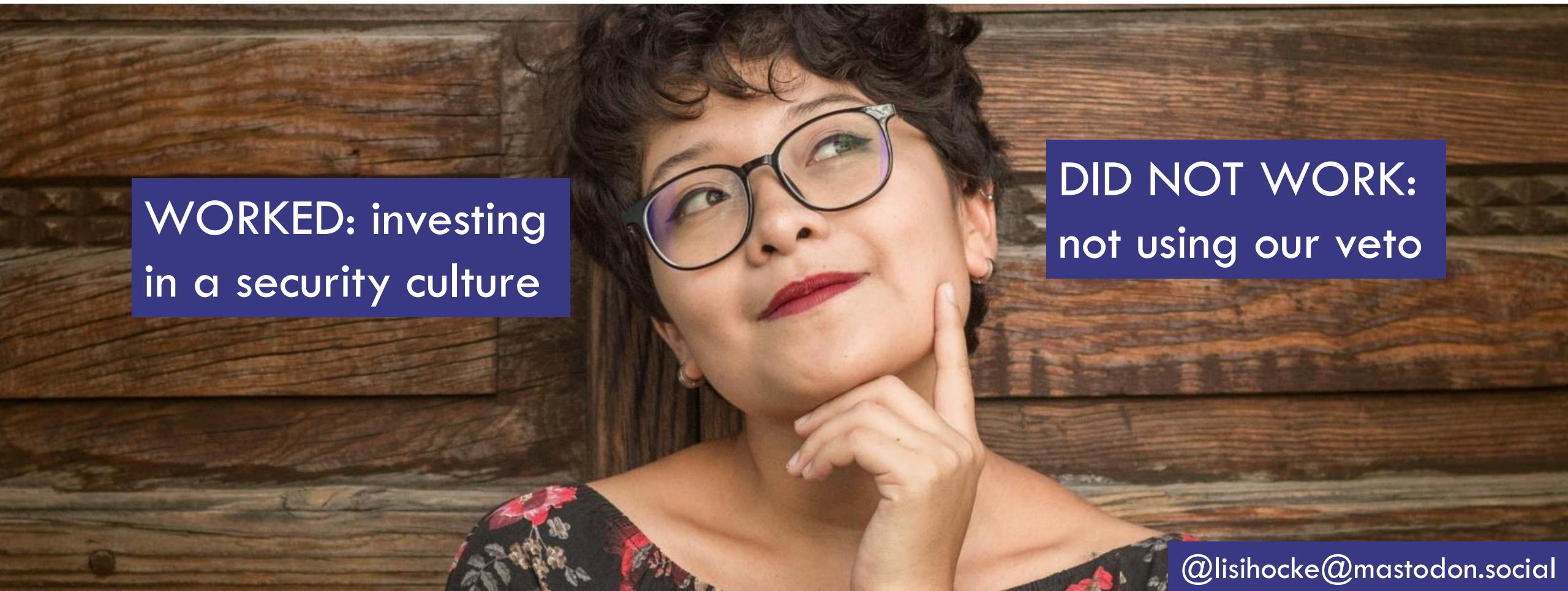
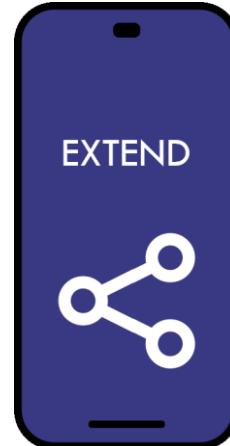
WHAT WORKED, WHAT DIDN'T, WHAT WE REALLY SHOULDN'T HAVE DONE IN THE FIRST PLACE



WORKED: investing
in a security culture

A photograph of a woman with short, dark, curly hair and large, round, black-rimmed glasses. She is wearing a black top with a red and white floral pattern. Her right hand is resting against her chin, and she is looking upwards and to the left with a thoughtful expression. The background is a rustic wooden wall.

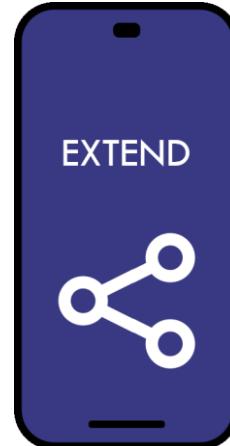
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WORKED: investing
in a security culture

DID NOT WORK:
not using our veto

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

EXTEND



KEEP GOING, SMALL STEPS CUMULATE!



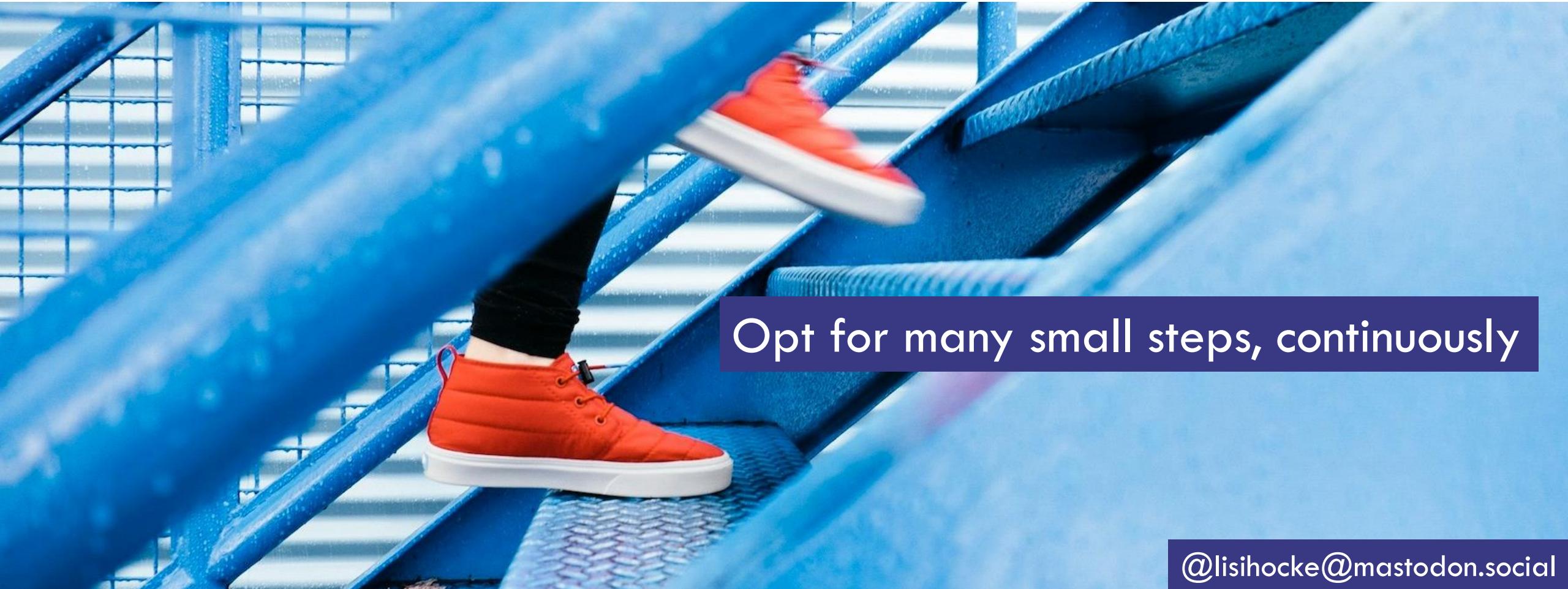
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EXTEND



KEEP GOING, SMALL STEPS CUMULATE!

Opt for many small steps, continuously



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**WISH FOR IT
HOPE FOR IT
DREAM OF IT**



bit.ly/lisihocke-security-resources



**BUT BY
ALL MEANS
DO IT □□□**

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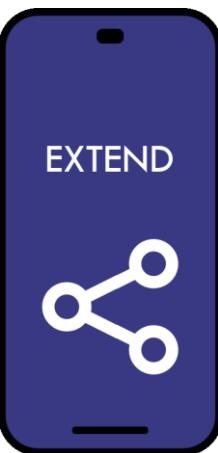
**WISH FOR IT
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**BUT BY
ALL MEANS
DO IT**

Make things a bit more secure than yesterday every day



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**WISH FOR IT
HOPE FOR IT
DREAM OF IT**

**BUT BY
ALL MEANS
DO IT**

Make things a bit more secure than yesterday every day



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THANK YOU!

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