

# **From Power to Supply Chains: Sustainability Is Security**

## **Why resilience starts before the firewall**

Codemash, 16 January 2026

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### **Speaker focus:**

Set the frame: this is a security talk, not a sustainability sermon.



**Matt "Kelly" Williams**

*I ask inconvenient questions about software, power, and how resilient systems really are.*

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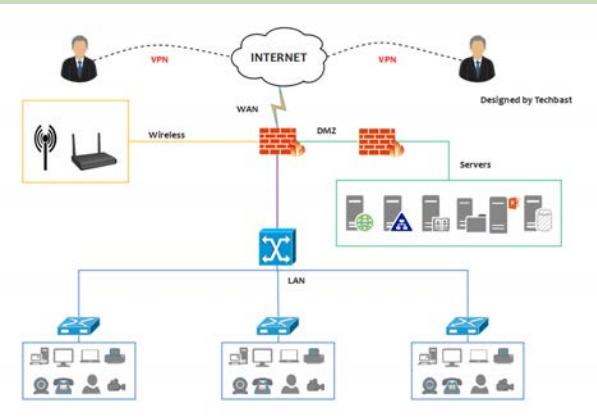
(also I give silent talks about confidence and leaving variables intentionally undefined)

*Cybersecurity is about ensuring systems remain reliable and trustworthy, not just when things go right, but when they go wrong.*

Sustainability is the practice of designing and operating systems so they remain secure, reliable, and supportable over time—without creating hidden dependencies, fragile supply chains, or risks that only appear under stress.

From a security perspective, sustainability means reducing long-term exposure by building systems that can be powered, maintained, updated, and trusted even as conditions change.

**Security doesn't  
start at the firewall**



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## **Speaker focus:**

Security assumptions depend on power, hardware, and logistics working.

If a system only works when everything goes right, it isn't secure.

Resilience by design means planning for power loss, supply shocks, human error, and change—before they become incidents.

# Hidden Assumptions

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## **What we assume will always be there**

- Power
- Hardware
- Bandwidth
- Vendors
- Time

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## **Speaker focus:**

Security models quietly assume stability.

**Failures don't  
arrive one at a time**



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## **Speaker focus:**

Cascading failures = security incidents.

# **Power Is a Security Dependency**

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**Power = Availability + Integrity**



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## **Energy resilience is security resilience**

### **Speaker focus:**

Power loss isn't just downtime—it's risk.

# **Energy-Hungry Systems Fail Harder**

**Efficiency reduces blast radius**

## **Speaker focus:**

High draw → heat → throttling → failure → rushed fixes.

## **Climate as a Threat Multiplier**

**Weather now affects threat models**

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**Speaker focus:**

**This is already happening,  
not hypothetical.**

Colorado - winds -> fires

## **Cost Pressure Is a Security Pressure**

**Rising energy costs change behavior**

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### **Speaker focus:**

Deferred upgrades, disabled controls, risky optimizations.

**Efficient systems  
fail more gracefully**

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## **Speaker focus:**

This will echo throughout the talk.

# Software Efficiency as Defense

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## **Waste Is a Vulnerability**

**Inefficiency expands attack surface**

### **SERVER OVERLOAD**



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### **Speaker focus:**

More code, more services, more risk.

# **Scaling Hides Problems**

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# **Scaling Hides Problems**

**(Until it suddenly can't)**

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## **Speaker focus:**

Cloud masks inefficiency—until budgets or limits hit.

With Great Power Comes Great Power Bills

-- Tom Smith, *The Last Hero on Earth*

## **Least Privilege**

**(Applied to Compute)**

**Do less.**  
**Run less.**  
**Store less.**

### **Speaker focus:**

Security principle, sustainability outcome.

**Performance, cost, and  
carbon are the *same* problem**

**Speaker focus:**

This is the unifying insight.

# **Software as Control Surface**

Code choices shape resilience

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## **Speaker focus:**

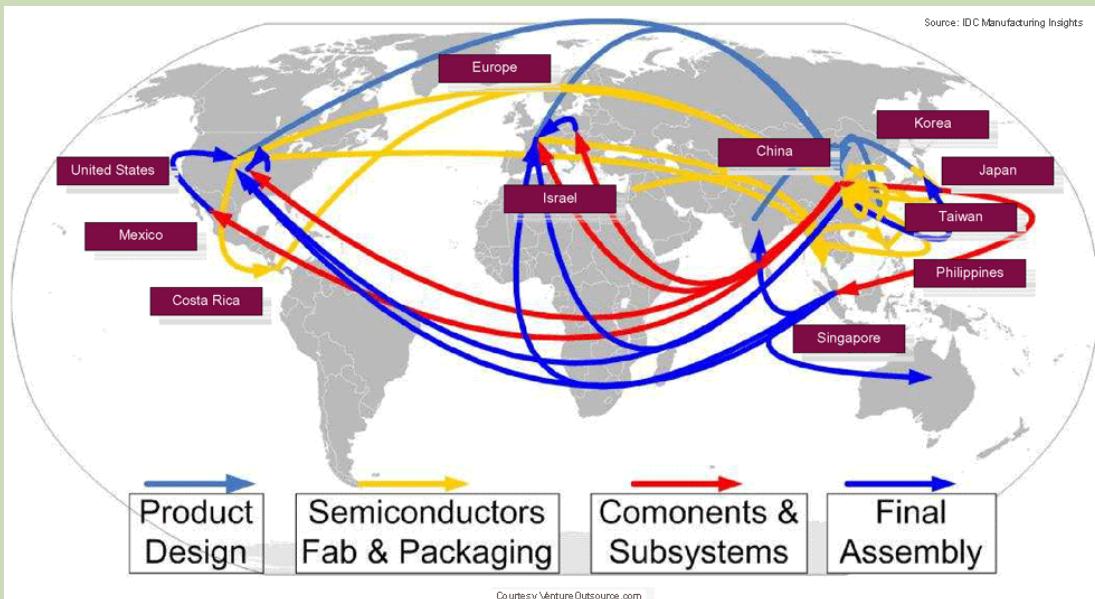
Architecture *is* policy.

# **Hardware & Supply Chains**

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# Your Threat Model Is Bigger Than You Think



(It extends beyond your org chart)

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## Speaker focus:

Vendors, sourcing, logistics all matter.

**Hardware Lifecycle  
= Security Lifecycle**

**End-of-life devices don't stop  
being dangerous**

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## **Speaker focus:**

Unpatched firmware, shadow assets, forgotten gear.

# **Emergency Procurement Breaks Controls**

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## **Shortages force bad security decisions**

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### **Speaker focus:**

When the only option is “whatever we can get.”

**“If you don’t know where your hardware came from, you don’t know who touched your security.”**

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## **Speaker focus:**

Let it land.

# **Sustainability as Risk Reduction**

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**This Isn't About Virtue  
It's about exposure**

**Speaker focus:**

Speak to security leaders' language.

## **Converging Forces**

### **Security teams are getting pulled into ESG**

- Risk management
- Compliance
- Insurance
- Customer expectations

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## **Speaker focus:**

Whether they like it or not.

# **Sustainability Signals Maturity**

## **Stable systems attract trust**

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### **Speaker focus:**

Auditors, insurers, customers notice.

# Something You Can Do Tomorrow

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## **No-New-Budget Improvements**

### **Small changes, compounding impact**

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### **Speaker focus:**

This lowers resistance.

# Four Lenses

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## **Where to start**

1. Power & infrastructure
2. Software efficiency
3. Hardware lifecycle planning
4. Culture & process integration

## **Speaker focus:**

You don't have to do everything.

## **Start Where You Hurt**

- Outages
- Incidents
- Near-misses

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## **Speaker focus:**

Retrospectives are gold mines.

“The easiest fixes are often the ones that make the biggest difference—because no one wanted to touch them.”

## A Pattern You've Probably Noticed

<b>Aware</b>	What assumptions does this system depend on?
<b>Conscious</b>	What tradeoffs are we making—intentionally or not?
<b>Enabled</b>	Do our tools and processes support better choices?
<b>Empowered</b>	Can teams act before risk becomes an incident?

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Say something like:

“I’m not proposing a new framework.

This is just a pattern I see in mature security organizations.

They don’t do everything at once — they get better at *seeing, then choosing, then enabling, then acting*.”

(This slide intentionally left blank)

# **Security isn't about building walls....**

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**It's about building systems that  
keep working when the walls crack.**

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## **Speaker focus:**

Bring it back to resilience.

**Resilience is what organizations  
develop after enough things go  
wrong to start paying attention.**

## **Q&A**

**When has sustainability already affected your security?**

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*Sub-prompts (if needed):*

An outage that changed behavior

A supply issue that forced risk

A cost decision that weakened controls

**Speaker focus:**

Invite stories, not hypotheticals.

**Security isn't just about stopping  
bad things from happening.  
It's about building systems  
that keep working when  
the world gets weird.**